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CARDIOVASCULAR EVENTS: PREVENTION AND MANAGEMENT

by

John W Davis, BA

Dissertation

Presented to the Faculty of the Graduate School of

The University of Texas Medical Branch

in Partial Fulfillment

of the Requirements

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DEDICATION

This dissertation is dedicated to my wife Jacquelyn. I am thankful for God's gift of her partnership, and never would have been able to complete this without her loving support.

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I want to thank Dr. Susan C Weller for shepherding me through this process and for always pushing me to my best. I would like to thank the committee for participating and for supporting me in my efforts. I would like to thank Julie Trumble, our research librarian, for performing no less than two dozen literature searches for me over the years spent on these projects. Finally, I would like to thank my friends, family, and God for the opportunity to complete this dissertation. It would never have been possible without my wife Jacquelyn.

CARDIOVASCULAR EVENTS: PREVENTION AND MANAGEMENT

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Cardiovascular disease is a leading source of morbidity and mortality in the United States. Statins, or HMG-CoA Reductase Inhibitors, are efficacious in reducing major arterial vascular events and also may decrease risk of venous vascular events (venous thromboembolism) in women taking hormone therapy (HT).¹⁻³ However, these drugs have little effect on heart failure outcomes, an important source of morbidity and mortality in the United States. This dissertation will have two projects concerning statin effectiveness and adverse events. The first project will assess the risk of statin-associated muscle symptoms (SAMS) in large RCTs utilizing a network meta-analysis. The second, using a large administrative insurance claims database, will estimate whether the risk of VTE in post-menopausal women on hormone therapy is reduced with statin exposure. The third project is a community intervention to improve health outcomes of recently-discharged heart failure patients, regardless of statin use.

ABSTRACT

This dissertation was a compilation of three, distinct studies assessing effects of various exposures on ultimate cardiovascular outcomes. In Aim 1, we assessed the relative and absolute risk of statin-associated muscle symptoms (SAMS) by exposure to statins of varying intensity (none, moderate, or high) in RCTs with at least 1,000 enrolled patients with planned follow-up of at least 2 years (n=152,461 patients in 24 RCTs). Risk was significantly greater for high compared with moderate intensity statin therapy for any muscle problem (RR=1.04, 95% CI 1.00 to 1.07; I²=0%), myalgia (RR=1.04, 95% CI 1.00 to 1.08; I²=0%, number needed to harm (NNH)=173), attrition due to muscle problems (RR=1.37, 95% CI 1.09 to 1.73, I²=0%, NNH=218) and elevated CK (RR=4.69, 95% CI 2.50 to 8.80; I²=7%, NNH=527). Risk also was significantly higher for high intensity compared with placebo for any muscle problem (RR=1.05, 95% CI 1.01 to 1.09, I²=0%), myalgia (RR=1.13, 95% CI 1.05 to 1.23; I²=0%, NNH=182), attrition due to muscle problems (RR=1.55, 95% CI 1.15 to 2.08, I²=0%, NNH=187) and elevated CK (RR=5.37, 95% CI 2.48 to 11.61; I²=7%, NNH=589). Due to inconsistency of results across sensitivity analyses, estimates were inconclusive for rhabdomyolysis and CK. There were no significant differences in risk between moderate intensity therapy and placebo for all outcomes.

In Aim 2, we assessed odds of VTE in a case-control study of women, free of VTE disease at baseline, aged 50-65 who had at least one year of continuous enrollment in the Optum database. Women were assessed for most recent exposure to hormone therapy (HT) – estrogen, progestogen, none, or both – and

statin therapy (moderate intensity, high intensity, or none) after adjusting for confounders. Cases were matched, 1:10, by age +/- 2 years and index date of event (+/- 1 month). There were 20,359 cases matched 1:10 to 203,590 controls in the selected sample. Exposure to HT was defined as any prescription in the 60 days prior to index date after review of the literature and homogeneity estimates across exposure groups. Using the same methods, exposure to statins was defined as three or more prescriptions for statins in the last 90 days prior to index date. Odds of VTE were significantly higher for women taking any HT (OR=1.51, 95% CI: 1.43, 1.60) but lower for those exposed to any statins (OR=0.88, 95% CI: 0.84, 0.93). The effect of statin exposure increased in magnitude for those exposed to high intensity statins (OR=0.82, 95% CI: 0.74, 0.90; referent is no exposure) versus moderate intensity statins (OR=0.90, 95% CI: 0.86, 0.95).

In Aim 3, we assessed feasibility and possible effectiveness of a novel disease management program implemented at the St. Vincent's Free Clinic in Galveston. Post-hospitalization heart failure (HF) disease management represents an important area of focus in preventing morbidity, mortality, and excess healthcare costs. Uninsured patients were offered enrollment in the disease management clinic during or immediately following hospitalization for a primary HF diagnosis at University of Texas Medical Branch at Galveston from January 2021 - December 2021. The program included twice-weekly visits with multiple healthcare professionals, including nurses, physicians, occupational therapists, social workers, pharmacists, and counselors. Patients were scheduled for 16 visits (2 months of follow-up) post-hospitalization before returning to usual care. Patients

who attended at least the introductory appointment and one follow-up appointment within 30 days of discharge were considered enrolled. Of 59 patients referred, 47 (80%) were enrolled. Just 4 patients (8.5%, 95% CI: 2.5%, 20.5%) were readmitted at 30 days, while 4 of 12 (33%, 95% CI: 13.6%, 61.2%) were readmitted at 30 days in those who did not enroll. Program participants were readmitted significantly less frequently than national readmission rate estimates (23%, $p=0.02$).

Thus, each Aim represents a novel exploration of various interventions and associations with important, clinical outcomes. The methods and findings in this dissertation are foundational to my future career as a physician-scientist.

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LIST OF ABBREVIATIONS

| | |
|------|---------------------------------------|
| UTMB | University of Texas Medical Branch |
| GSBS | Graduate School of Biomedical Science |
| TDC | Thesis and Dissertation Coordinator |

Chapter 1 Introduction and Proposal

SPECIFIC AIMS

Cardiovascular disease prevention is an important focus in efforts to decrease morbidity and mortality in the United States. Statin therapy is efficacious in reducing vascular events, such as myocardial infarction, stroke, and possibly venous thromboembolism (VTE). While efficacious, however, statin-associated muscle symptoms may reduce adherence to therapy. Observational studies suggest statins may decrease VTE in postmenopausal women on hormone therapy (HT). Other efforts are necessary to manage heart failure, for which statins are ineffective. The Congestive Heart Failure Comprehensive Care Clinic (CHFC3) at St. Vincent's Clinic (STVC) in Galveston offers medical, vitals surveillance, and free medications to uninsured patients. This dissertation first tests statin safety and adverse events, then, tests statin effectiveness in reducing VTE in postmenopausal women. Third, it evaluates the new HF disease management clinic at STVC and assesses its feasibility. Specifically, I will:

Aim 1: Estimate the risk for musculoskeletal events with statin therapy in randomized controlled trials (RCTs). Statin RCTs with at least 1,000 persons enrolled and 2 years of intended follow-up with data on "muscle problems", "myalgia", "attrition", CK >10x upper limit of normal, and rhabdomyolysis were included. A network meta-analysis compared high-intensity versus moderate intensity statin therapy versus placebo.

Aim 2: Estimate the risk of VTE in a nested case-control study of post-menopausal women by statin and/or HT exposures. This was performed using a large insurance claims database, examining women (50-65 years) without previous history of VTE in the prior 12 months and one or more years of available claims data. Odds of VTE were estimated in women exposed to statins, HT, both, or neither, while controlling for comorbidities (e.g., Elixhauser). *Primary hypothesis: odds of VTE with HT is moderated by statin exposure, such that odds of VTE are attenuated for women on both HT and statin therapy compared to HT alone.*

Aim 3: Obtain pilot data on the feasibility and estimate effect size of a HF disease management clinic for program participation and reductions in all-cause readmission rates at 30 days in uninsured patients. All uninsured patients discharged from a UTMB facility after receiving care for an HF-related cause and then attend St. Vincent's Clinic were eligible for inclusion (18+ years) for calendar year 2021. Participation was measured in terms of program uptake (percentage of patients who elect to participate over number referred) and the number of visits completed with the program within 60 days of discharge. The proportion of patients who were readmitted for any cause at 30 days were compared to population rates of readmission. The proportion of scheduled visits attended informs feasibility. *Primary hypothesis: Patients attending more visits in CHFC3 will be less likely to readmit at 30 days than those who attend fewer.*

BACKGROUND

Cardiovascular Disease in the United States

Cardiovascular disease is a leading cause of morbidity and mortality in the United States. The Center for Disease Control (CDC) estimates that over 18 million Americans suffer from coronary artery disease (CAD),⁴ and noted wide disparity by income in 2010: over 70% of people with 130% or less income (relative to FPL) had coronary CAD, whereas 40% had CAD with 350% or more income relative to FPL. Almost 700,000 deaths from cardiovascular disease occur each year.⁵

Statins primarily work by inhibiting the enzyme HMG-CoA Reductase, increasing the recycling rate of low density lipoprotein (LDL) receptors that clear circulating LDL. They also, however, work to inhibit inflammatory signaling cascades in a variety of “off-target” mechanisms.⁶ Statin therapy is therefore a key therapy in reducing cardiovascular disease incidence and death, primarily through prevention of ischemic cardiac damage. The Cholesterol Treatment Trialists’ (CTT) Collaboration meta-analysis on patient-level data from large RCTs demonstrated that statin therapy is efficacious in reducing major vascular events (myocardial infarction, ischemic stroke, coronary revascularization), reducing risk by 23% for each 25 mg/dl LDL cholesterol is reduced.^{1,2} Inhibiting inflammatory proteins, such as C-Reactive Protein, is likely the mechanism by which statins also decrease risk of venous thromboembolism.⁷

62.3% of all persons in the US are estimated to be indicated for statin therapy⁸ under the new American College of Cardiology/American Heart Association Guidelines.^{9–}
¹⁴ The first objective of this dissertation is to better elucidate the safety profile of statins, particularly for risk of muscle symptoms. The second objective is to estimate effectiveness of statins in preventing venous thromboembolism.

HEART FAILURE (HF), both ischemic and non-ischemic, is an important sub-group of persons with heart disease. Over 6 million Americans currently have HF, and was listed as a cause of death for 370,000 persons in 2018.¹⁵ HF incidence varies widely by race and gender, however. Black men are at significantly increased risk of HF incidence when compared to white men (HR=2.55), whereas men overall are more likely than women to experience HF (HR=1.65).¹⁶ In the Atherosclerosis Risk in Communities (ARIC) study, a 35+ year cohort of over 50,000 US adults who were disease-free at baseline, estimated that 54% of all incident HF can be explained by presence of coronary artery disease, obesity, smoking, or diabetes mellitus.¹⁷ These risk factors are poorly controlled in those with low access to care.¹⁸ Thus, the third objective of this dissertation is to provide regular medical services to the uninsured in Galveston, monitoring vitals and need for medications at a twice-weekly cadence.

Statin-Associated Muscle Symptoms

Although statins are efficacious in preventing cardiovascular disease, statin-associated muscle symptoms (SAMS) may lead to non-adherence or discontinuation with therapy and ultimately to poorer cardiovascular outcomes.¹³ Most RCTs have shown small, insignificant increases in risk for SAMS, although patients taking statins may complain of muscle problems and may discontinue therapy due to muscle problems.⁹ For example, a 2016 meta-analysis found a non-significant increase in myopathy. However, the trial did not report on the more mundane myalgias that often cause statin attrition.⁹ These milder symptoms are the public health concern, as statin non-adherence can lead to significant increases in risk of adverse cardiovascular events.⁹ Observational studies

suggest that these mild SAMS may occur as often as 7-29% of patients.¹³ One review¹⁹ suggested that clinical observations of increased muscle problems with statin therapy may be due to patient expectations. SAMS also may be more likely with higher intensity therapy. Although this is assumed to be true, especially in light of markedly elevated risk of muscle events in two RCTs studying simvastatin 80 mg compared to lower-dose therapy,^{20,21} few other RCTs have examined high intensity therapy.^{22,23} This study will use a network meta-analysis (NMA) to combine evidence across large published trials to estimate the risk of SAMS by treatment intensity. In contrast to pair-wise meta-analysis (MA) that directly estimates causal effects, a NMA can indirectly estimate risk between placebo and moderate, moderate and high, and between placebo and high intensity treatment – even though placebo, moderate, and high intensity treatment levels were not directly compared.

Statins and Venous Thromboembolism

While cardiovascular disease and venous thromboembolic disease share similar risk factors, their etiologies are distinct.²⁴ Yet, statin therapy may decrease risk of venous thromboembolism through an anti-inflammatory pathway.^{3,24} Specifically, it may decrease isoprenylation of inflammatory and pro-thrombotic signaling molecules, thereby reducing thrombotic events.²⁵ The JUPITER RCT demonstrated high-intensity rosuvastatin decreased risk of VTE by 43% compared to placebo.³ Subsequently, a meta-analysis of 23 RCTs estimated 15% significant reduction in VTE with any statin therapy compared to placebo.²⁶ Their discussion hypothesized several, inflammation pathways statins may down-regulate. While this finding has not translated to other inflammatory

processes (i.e., non-significant reductions in rheumatoid arthritis disease with statin therapy vs. placebo in the TRACE RA trial),²⁷ it remains unknown if statins are associated with decreased risk/odds of VTE in other high-risk populations.

Hormone Therapy, Statin therapy, and VTE

Large RCTs^{28,29} and pooled evidence in meta-analyses³⁰ of RCTs indicate that HT increases the relative risk of venous thromboembolism (VTE). Risk tends to be higher with combined HT and lower with longer duration of use. A 2017 meta-analysis³⁰ pooled results from HT RCTs in post-menopausal women for oral, transdermal, subcutaneous or intranasal modalities with estrogen alone or with progestins. In healthy women relative risk for VTE (pulmonary embolism, PE, and deep vein thrombosis, DVT) was double that of placebo for estrogen alone (RR=2.54, 1 study, 3 years) and quadruple for combined, continuous therapy (RR=4.28, 2 studies, 3 years, Analysis 1.32). Risks tended to decrease with duration of treatment, for example relative risk of VTE in the largest trial with combined HT declined from 3.59 at 1 year to 2.98 at 2 years, 2.54 at 3 years, and 2.0 at 5 years. Most participants in these trials were over 60 years of age when they began estrogen therapy for the first time: 69% of the WHI women and 84% of the HERS participants were 60 or older at baseline.³¹ Thus, these samples of patients were older and were being given doses of estrogen that exceed those given today for perimenopausal symptoms.³² Given that VTE risk increases with age, these results may not generalize to perimenopausal, younger women.³³ Changes in hormone therapy formulations (i.e., lower dose formulations) may render prior HT evidence less generalizable for contemporary clinicians. Further, the “timing hypothesis” derived from

recent RCT meta-analyses suggests that initiating HT in younger women may have lower risk of VTE, but may be harmful in older women due to existing atherosclerotic disease.³⁴ Thus, it is uncertain to what degree HT risk may vary with age.

Statin therapy, however, may reduce the risk of VTE due to HT. Results from a nested case-control study suggest that statin therapy may reduce the risk of HT. In a UK-based case-control study, cases of VTE (23,505) were compared to 1:10 age-matched controls (231,562) from 1987-2008 (21 years) to estimate the effect of exposure to statins and HT in women 50-79 years of age in the General Practice Database.³⁵ Statin monotherapy was associated with a 17% odds reduction of VTE (OR=0.83), and HT monotherapy was associated with 52% significantly higher odds of VTE compared to those not on HT (OR=1.52). For those not on a statin, HT had a 51% significantly higher likelihood of VTE compared to those not on HT (OR=1.51, n=216,952 with 19,703 cases). Combined statin and HT suggested an attenuated associated of VTE compared to HT alone (OR=1.21; 95% CI: 0.83-1.76, n=21,335 with 2,152 cases).³⁵ Thus, statin therapy may be associated with decreased VTE in HT, but more investigation is needed in a younger, American population.

Heart Failure, Statins, and Beyond

While statins have been touted as a 'wonder drug' for preventing cardiovascular disease (CVD), they are not efficacious in reducing poor heart failure (HF) outcomes such as hospitalization, death, and disease progression despite the protective effect from ischemic disease.³⁶⁻³⁹ Therefore, HF hospitalization remains a leading cause of morbidity, mortality, and cost-burden for the US healthcare system.

Because the Affordable Care Act (ACA, 2009) functionally equated 30-day readmission with negligent care, tying Central Medicare and Medicaid Services (CMS) reimbursement with absence of these events, HF hospitalization has remained an intense focus of healthcare administration.⁴⁰ A systematic review of 34 studies, estimated up to 75% of 30-day readmissions are likely for avoidable causes like HF volume overload.⁴¹ Up to 25% of readmissions, however, were linked to cases where best practices were followed. Thus, the ACA ties reimbursement for services to events that frequently do not represent poor quality of care.

There have been numerous attempts to reduce readmission in HF. One network meta-analysis of 53 RCTs demonstrated a 22% significant reduction in readmission risk for patients receiving home health nursing visits and a 20% significant incidence rate reduction in readmission for disease management clinics.⁴² Education regarding medication compliance, diet, and water intake as well as early follow-up visits with the patient's cardiologist or primary care physician post-discharge have been shown to marginally reduce 30-day readmissions.⁴³ Notably, telehealth visits alone in these studies were insufficient in significantly reducing readmission risk. One systematic review estimated that, despite these interventions, up to 75% of 30-day readmissions for HF are avoidable.⁴¹

OBJECTIVE

Thus, the purpose of this dissertation is to improve the evidence base for cardiovascular disease management in the United States. Statin therapy may cause adverse musculoskeletal events, but the relative risk of events compared to placebo is

likely smaller than observational studies show. Aim 1 is ***to estimate the risk for musculoskeletal events with statin therapy in randomized controlled trials (RCTs)***. Further, while an abundance of evidence is available for statin therapy in preventing major, arterial vascular events, the role statins play in preventing VTE still requires investigation. Women are contraindicated from taking HT, which greatly improves quality of life, when risk factors for VTE are present. If statins mitigate that risk, more women may safely take HT for perimenopausal symptom relief. Thus, Aim 2 is ***to estimate the risk of VTE in a nested case-control study of post-menopausal women by statin and/or HT exposures***. Finally, it is important to evaluate the feasibility of the HF disease management clinic in reducing HF readmissions. The third aim is to ***obtain pilot data on the feasibility and estimate effect size of a HF disease management clinic for program participation and reductions in all-cause readmission rates at 30 days in uninsured patients***.

RESEARCH ACCOMPLISHMENTS TO DATE

I have successfully published one study estimating the relative and absolute risk of musculoskeletal adverse events in large, randomized controlled trials (see Aim 1; Davis, JW; Weller, SC; [BMJ OPEN: DAVIS & WELLER](#)).⁴⁴ I was also recently invited to provide an editorial on meta-analysis methods and implications for cardiovascular disease prevention evidence for the Journal of American College of Cardiology (JACC), which was published in May 2022.⁴⁵

Further, I contributed on a study estimating incidence of venous thromboembolism (VTE), deep venous thrombosis (DVT) without pulmonary embolism (PE), PE with or

without DVT, and cerebral venous thrombosis (CVT) on a study now published at BMJ Open (*Susan C Weller, John W Davis, Jacques Baillargeon et al.: Incidence of Thrombotic Events in a Commercially-Insured US Population*).⁴⁶ To estimate the risk of VTE, CVT, or other venous thromboembolic conditions in a US insured population, we utilized OPTUM data from 2015-2019 and calculated incidence of each outcome for each quarter and overall for the five most recent years prior to the pandemic (2015-19). We also compared our findings to a systematic review of other cohort studies that had estimate VTE and CVT.

For Heart Failure, I have completed a retrospective chart review of all uninsured heart failure patients admitted to UTMB between 2018-2019, and compiled univariate frequencies of key morbidity and mortality measures among them (unpublished, preliminary data). We have also published a Letter to the Editor (link: [Academic Medicine](#)) highlighting the early success of the CHFC3 program.⁴⁷ The program was awarded a \$50,000 President's Cabinet Award for its implementation, for which I am the Principal Investigator. I have submitted an R34 Clinical Trial Planning Grant to the National Heart, Lung, and Blood Institute to assess the risk of hospitalization and/or emergency department usage in patients with heart failure within the CHFC3 program compared to controls. I have also been awarded a grant (\$10,000) from the Institute for Translational Sciences to study the role of nurses in heart failure care with point-of-care ultrasound (UL1TR001439).

OTHER WORKS

I have also conducted one retrospective chart review to create a prognostic model for admitted COVID-19 patients in development of severe disease, defined as 7 or greater on the World Health Organization scale (now published at BMJ Open).⁴⁸ All patients admitted to UTMB hospitals with a diagnosis of COVID-19 infection were eligible for inclusion. Variables assessed included age, weight/BMI, select lab values (i.e., troponin, C-Reactive Protein). The initial sample was dated from March 2020 to August 2020, and contained 349 patients and backwards selection was used to construct a parsimonious model. I also contributed to a study that utilized generalized estimating equations (GEEs) to assess odds of poor self-reported health and psychological distress in the IPUMS-MEPS database. This data, constructed from Center for Disease Control surveys, contains a nationally representative sample of workers in the United States, aged 18+, who are non-institutionalized. The primary independent variable was type of compensation received (piece rate vs annual salary), and three proposed moderators were tested (educational status as less than college degree versus greater than or equal to college degree; income as less than 145% FPL versus greater than or equal to 145% FPL; and health insurance as insured or not insured). We found significant associations with insecure income and health that persisted despite controlling for confounding. This paper is currently in revision at a prominent social science journal.

I have published two essays on my work as a physician-scientist in a free clinic setting,^{49,50} I have also peer reviewed several manuscripts for *Annals of Family Medicine*, *The Journal of the American Board of Family Medicine*, and *The Journal of the American College of Cardiology*. These projects improved my analytic skills and provided valuable insight on development of studies in OPTUM. My coursework, to date, includes

categorical data analysis and numerous other data science courses; I have thoroughly developed my use of SAS, R, and STATA for projects.

METHODS: AIM 1. ESTIMATE THE RISK FOR MUSCULOSKELETAL EVENTS WITH STATIN THERAPY IN RANDOMIZED CONTROLLED TRIALS (RCTs).

Significance

While most RCTs have shown small, insignificant increases in risk for SAMS, although patients taking statins may complain of muscle problems and may discontinue therapy due to muscle problems.⁹ The purpose of this study was to elucidate the relative and absolute risk of adverse musculoskeletal events in large, well-designed statin RCTs. This work is now complete. In brief, PubMed, Cochrane Database, Web of Science, and clinicaltrials.gov were searched for “systematic reviews” and “meta-analysis” in the title, abstract, or keywords prior to January 31, 2021 to identify eligible trials (Prospero #CRD42019112758). Double-blinded RCTs to improve lipid levels comparing statin therapy to placebo or higher-lower dose statin therapy were selected. In order to detect most adverse events, RCTs were selected that had at least 1,000 participants with two years of intended follow-up, where statin treatment was not given with other prescription drug therapies, and results contained reports on muscle-related adverse events. Both authors independently reviewed trials for final inclusion and coded each for quality with Oxford Center for Evidence-based Medicine ratings⁵¹ and a five-point Jadad quality score.⁵² Any disagreements were reconciled by joint review and discussion. Studies were classified by intensity of statin treatment (“high” or “moderate”) according to American Heart Association definitions for potency in reduction of lipid levels.⁵³ High intensity

signifies an expected 50% or greater reduction in LDL-C levels when taking that statin (i.e., 80 mg atorvastatin) and moderate signifies 30-50% reduction in LDL-C.⁵³

Adverse muscle-related events were coded into five main outcomes: any patient-reported muscle complaint coded from reports of “muscle aches”, “pains”, “cramps”, “stiffness,” “musculoskeletal disorders,” etc.; the second focused on only myalgia or muscle pain. The third focused on attrition due to musculoskeletal complaints. A fourth captured explicit reporting of rhabdomyolysis, with or without a trial definition. The fifth was elevated creatine kinase, greater than ten times the upper limit of normal (CK >10x ULN). This threshold was used to distinguish this outcome from less meaningful CK increases and also because CK>10xULN is commonly reported in RCTs. Subsequently, pairwise and network meta-analysis were performed in order to estimate the risk of these events by statin intensity, both from direct and indirect RCT evidence. Heterogeneity bias risk was quantified using I^2 methods,⁵⁴ and funnel plots were used to assess whether individual trials may be significantly different from other included trials.

Davis, JW; Weller, SC: Intensity of statin therapy and muscle symptoms: a network meta-analysis of 153 000 patients | BMJ Open. Published June 2021.

METHODS: AIM 2. ESTIMATE THE RISK OF VTE IN A NESTED CASE-CONTROL STUDY OF POST-MENOPAUSAL WOMEN BY STATIN AND/OR HT EXPOSURES.

Significance

Many women suffer from post-menopausal symptoms, such as ‘hot flashes’, vaginal dryness, disruptions in sleep patterns, and inability to concentrate, but who are not prescribed hormone therapy (HT) because of possible risk of a venous

thromboembolism (VTE), stroke, or myocardial infarction (MI). Clinical trials in older postmenopausal women estimated that HT may double the risk for venous thromboembolism (VTE) and increase risk for stroke by approximately 30%. However, most of the trial participants initiated HT after 60 years of age and these trials were conducted two decades ago when higher dose estrogen was standard (0.625mg). Evidence suggests that vascular risk may be lower when initiation is nearer menopause^{30,55} and risk conferred by lower dose estrogen exposure in women in their 50s is not known. Also, recent cohort studies suggest that breast cancer risk may be low with HT (HR=0.99), using observational follow-up data from the WHI trial.⁵⁶ Statin therapy may reduce risk for venous thromboembolic events by, on average, 15%.²⁶ There is, however, little evidence on statin effectiveness in reducing adverse events from HT.

This project examined the association between statin and/or HT exposure with VTE in an age-matched nested case-control study in a large health administrative database (OPTUM). This was a replication study of Fournier et al. in a younger, US population. Cases of VTE will be defined by ICD codes and controls were matched by age (+/- 2 years) on a 1:10 ratio to maximize sample sizes for statin and HT usage. The sample was limited to women 50-65 years of age: the lower bound age, 50 years, was chosen based on the average age at menopause⁵⁷; the upper bound was chosen based on the age at which most people transition to Medicare, which limits claim accuracy.

Data Source

Optum's de-identified Clinformatics® Data Mart Database is an ideal setting for this study, as it contains claims for approximately 62 million unique enrollees from 2008-

2018.⁵⁸ Excluding Medicare Advantage subscribers, there are approximately 15 million annual members, a third of whom have continuous enrollment for three or more years. Because VTE incidence is low (about 217 cases in 100,000 person years when including subsequent anti-coagulant prescription in case definition)³³, OPTUM is one of the few datasets containing sufficient sample for analysis. Medicare data also has ample power for this analysis, but the 65+ year age range misses the study's target age range.

Statistical Analysis

The **goal of Aim 2** was to determine if there is increased likelihood of VTE associated with HT and to examine whether these risks vary by dose of treatment, route of administration, duration of treatment, other prescribed medications, underlying prothrombotic disease, underlying CV disease, recent hospitalization, and clinical characteristics. We will conduct logistic regression analyses for women 50-65 years old receiving HT and the matched sample not receiving HT. Matching was on index date and age at index date, which is considered as "loose match",⁵⁹ but conditional analysis is planned in keeping with methods employed by studies previously performed in this area.^{35,60,61}

First, characteristics of women receiving HT and those not receiving HT were compared (chi square & t-test) to assess differences in their co-morbidity profiles (i.e., hospitalization, Elixhauser comorbidities) on VTE. Covariates not significantly associated with VTE ($p > 0.0001$ for screening) were dropped prior to primary hypothesis testing. Second, multivariable models (conditional logistic regression matched on age and index date) were constructed to assess the main effects of estrogens (**Aim 2.1**) and statins

(Aim 2.2) on VTE, in addition to the interactive effect of HT and statin therapy **(Aim 2.3)** on VTE, while controlling for comorbid conditions. Two-sided hypothesis tests ($\alpha=0.05$) were utilized throughout. All analysis was performed in SAS (Version 9.4, Cary NC).

METHODS: AIM 3. OBTAIN PILOT DATA ON THE FEASIBILITY AND ESTIMATE EFFECT SIZE OF A HF DISEASE MANAGEMENT CLINIC FOR PROGRAM PARTICIPATION AND REDUCTIONS IN ALL-CAUSE READMISSION RATES AT 30 DAYS IN UNINSURED PATIENTS.

Significance

Heart Failure (HF) hospitalization remains a leading cause of morbidity, mortality, and cost-burden for the US healthcare system despite intensive mitigation efforts.⁶² Because the Affordable Care Act (2009) functionally equated 30-day readmission with negligent care, tying Center for Medicare and Medicaid Services (CMS) reimbursement with absence of these events, HF hospitalization has remained an intense focus of healthcare administration. It is estimated that 35% of all 30-day readmissions reported to CMS are HF patients.⁶³ 772,000 more cases of HF are expected by 2040 in the United States,⁶⁴ bringing even more urgency to this issue.

HF 30-day readmission rate estimates range from 18.2-23.0% over time.⁶³ Khan et al., using Healthcare Cost and Utilization Project (HCUP) National Readmission Database, provide recent estimates for incidence of 30- and 90-day readmission for heart failure. They utilize a unique approach for estimating incidence – by taking an index period of time, observing the total number of HF admissions that are considered 30 or 90 day readmits, with a denominator of all HF admissions during that index period. Of

approximately 6 million HF admissions from 2010-2017, 18.2% were readmitted within 30 days and 31.2% were readmitted within 90 days.⁶³ In an HCUP statistical brief, Fingar et al. estimated that 23% of all HF admissions were readmitted within 30 days, making HF the most common cause for 30-day readmissions of all diagnoses; the uninsured were readmitted at similar rates (17%).⁶⁵

Disease management clinics can decrease HF readmissions. A network meta-analysis of 53 RCTs (n=12,356; mean age from 57-85) examined telephone visits, education sessions, pharmacist consultation, telemonitoring/support, nurse home visits, nurse case management, and disease management clinics compared to routine follow up in risk of 30-day readmission. Nurse home visits significantly decreased HF readmissions by 35% (IRR 0.65), Nurse Case management decreased incidence by 23% (IRR 0.77), and Disease Management Clinics decreased rates by 20% (IRR 0.80). Disease management clinics typically include follow-up with a cardiologist within two weeks of discharge, intermittent telephone consultation, and emphasis on clinical surveillance of vitals, medication adherence, and labs. The treatment groups' average age ranged from 61 to 78 (10 RCTs, n=1958). It remains unclear what, if any, effect in reducing HF admissions might exist when combining intensive, nurse-led disease management with POCUS.

Purpose

The purpose of this project, therefore, was to conduct a pilot study on the feasibility and possible effectiveness of a novel disease management clinic in heart failure patients within 30 days of discharge (**Aim 3**). Patients visited twice weekly for the first 30 days

post-discharge. Weekly labs were taken, and standard of care medical visits will be scheduled.

Innovation

The implications of this study have significant potential impact on heart failure disease management, which is a critical area of focus for the United States health system. Because emergency heart failure care is immensely detrimental to patient quality of life and the health system's volume strain, efforts that meaningfully reduce risk of emergency services use and/or hospitalization deserve intensive effort.

The setting for this project also provides novelty. St. Vincent's Clinic provides an opportunity to intensively study the effect of the proposed model in an uninsured setting.

Preliminary Data

In order to estimate patient volumes and demographics of HF admissions and readmissions, a census of all patients without insurance admitted to UTMB Galveston with a primary Diagnosis-Related Group (DRG) of HF (n=55) from September 2018 - September 2019 was obtained.⁶⁶ Two coders reviewed each chart for factors included in a validated readmission risk prevention calculator.⁶⁶ Patients averaged 67 years of age, 31% were Black/African-American, 38% had DM2, 36% had coronary stents; 33% had COPD; 24% had a psychiatric condition; and 69% had some smoking history. Of those, 5 patients (11%) were re-admitted within 30 days for HF. Because the sample size was small, this precluded multivariable regression analysis. This readmission estimate excluded heart failure patients readmitted to a non-UTMB hospital, and did not include

League City or Clear Lake hospitals, each of which sees commensurate HF volumes. Thus, patient volume may be three times larger annually. Thus, this study was limited to providing expected volume for program feasibility.

Two estimates of 30-day readmission rates were estimated for UTMB. First, HF hospitalizations from January 2017 to December 2020 were estimated Epic's Clarity database, a comprehensive database of all patients admitted to UTMB for any cause. Searching for HF by DRG identified a total of 5674 HF admissions: 1127 (19.9%; 95% CI 18.8%-20.9%) were readmitted for any cause within 30 days. Second, HF hospitalizations from January 2019-December 2020 were estimated using UTMB's Readmission Report dashboard, a proprietary tool that captures all patient services at UTMB facilities. Searching for all heart failure patients without insurance who were admitted to UTMB from 2019-2020, 235 patients admitted to any UTMB facility were identified. Of those, 31 (13.19%; 95% CI 9.4%-18.2%) had been readmitted for any cause within 30 days to a UTMB facility within 2019. The rate January-December 2020 was higher, at 15.67% (21/134; 95% CI 10.4%-22.8%). Neither estimate includes patients who were readmitted within 30 days to another facility outside of UTMB. ***These estimates are largely in line with those of Fingar et al. for uninsured patients (17%),*** though this estimate is now possibly out of date (published 2014 using 2010-2013 data, just after the Affordable Care Act was passed).⁶⁵

Setting

UTMB is a multi-campus, academic medical center in the Gulf Coast region of Texas, serving approximately 1,100 patients annually for HF. The St. Vincent's Clinic

(STVC) in Galveston is sponsored by UTMB and provides free care to over 3,500 patients annually. Services include but not limited to primary care, case management (food/housing services), counseling, nutrition, pharmacist consultation, respiratory care, occupational/physical therapy, and social work services. Approximately 3,500 unfunded patients, with an average age of 48 years old, receive care as part of STVC outreach in the past year. It is estimated that one-third of patients served by our free clinic partner identify as African American, one-third as Hispanic, and one-third as Caucasian. The proposed intervention is set at STVC.

Subjects

This was a quality improvement project as determined by UTMB's IRB, and was determined to be exempt from their oversight. Patients were identified from all UTMB hospitals prior to discharge as 1) uninsured, 2) admitted for a heart failure diagnosis-related group to a UTMB facility, and 3) willing to participate. Patients will receive standard of care, and not receive any exploratory care during the course of this intervention. Patients were scheduled for medical visits as indicated by their supervising clinician, and provided free transportation and medication according to their needs.

All patients who entered the CHFC3 program were identified in Epic by selecting patients within STVC Service Department with at least 1 appointment under the "CHF Rm" and "CHF Provider" resources, which are unique to program enrollment. After all data were collected, identifying information was deleted and destroyed. The de-identified data was used for all analysis.

Procedure

The primary intervention was twice-weekly surveillance at the St. Vincent's Clinics for vitals and medication adherence; all patients receiving care at the STVC Interprofessional Clinic receive similar services but at less frequent intervals. Within 3 days of hospital discharge, patients were scheduled to receive care at STVC twice weekly for up to 60 days. Patients deemed “low risk” by their provider were eligible to decrease their visit frequency to weekly after 30 days. Risk was according to clinician judgment, but providers were encouraged to consider the patient’s Seattle Heart Failure model score (which predicts mortality at 1 year).⁶⁷

At Visit 1 (their baseline medical appointment following discharge), patients were queried on their interest in participation in CHFC3. Patients who declined received regular medical care at STVC or elsewhere, according to preferences. Patients had blood pressure, heart rate, SpO₂, weight, and respiration rate measured at each visit (twice weekly) by a medical professional or student. Each week, patients also received a basic metabolic panel (BMP) measured to confirm renal function and electrolytes were at baseline, in addition to any other labs requested by faculty clinical staff. In addition, patients were scheduled for interprofessional services as capacity allows. Abnormal lab values or vitals were reported directly to the supervising clinician.

The recommended schedule for interprofessional activities is demonstrated in Table 1, following references. All patients were given a full medical evaluation during Visit 1, where clinicians were instructed to provide guideline-directed medical therapy. The program provides free medications to all patients, consistent with the services provided to all other patients at St. Vincent’s. During Visit 2, patients received pharmacist consultation, counseling services, and occupational therapy evaluation. Case

management was consulted to address outstanding social needs. Intermediate visits (Visits 3-4) were performed by a nurse, where vitals and medication checks were performed. Visit 5 (5 weeks post-discharge) was another medical evaluation.

This was a quality improvement project to bring STVC in line with the standard of care demonstrated in other locations. Replicating other disease management clinics has not been performed in uninsured populations previously, however. Patients may elect to receive additional visits from any discipline or to decline care from some specialties.

Measures

A table of all measures can be found in Table 2. The primary demographic, laboratory, and exam measures to be collected at Visit 1 in the program were age, sex, race/ethnicity, discharging hospital, basic metabolic panel (which includes renal function and blood sodium), Brain Natriuretic Peptide (BNP), POCUS measurements (LV EF, Left Atrial Enlargement, Right Ventricular Enlargement, Inferior Vena Cava Collapsibility Index, B-Line Number), Vitals (Weight/BMI, blood pressure, heart rate, respiration rate), New York Heart Association (NYHA) functional class (I, II, III, IV)*, history of diabetes (as measured by HbA1C), and number of visits completed. At their exit visit (60 days post-discharge), patients repeated BMP, BNP, Vitals, and NYHA Functional Class Assessment. Patient data also included history of transportation and food insecurity, as documented in the Epic Social Determinants of Health button modules (any versus none or missing). All patients were given a standardized regimen of maximally-tolerated beta-blocker, SGLT2 inhibitor, mineralocorticoid receptor antagonist (spironolactone), and ACE/ARB/ARNI therapy as indicated, so medication exposure was not assessed. Lab

draws will be performed at regular intervals according to standard of care, and may be unavailable where the clinician felt benefits were outweighed by risks of venipuncture.

Outcomes

PARTICIPATION

First, a census of all HF patients without insurance who were discharged from a UTMB hospital was identified using Epic Clarity (see **Subjects**) and the sub-group who presented for at least one visit at STVC was identified. Participation was categorized as follows: patients who never attended STVC, patients who presented at STVC (Visit 1) but declined further participation, and patients who completed at least two visits. The total number of visits over the program course (2 months, up to 16 visits) for each patient was recorded.

READMISSION

Patient history at 30 days after discharge was coded as readmitted or not readmitted for any reason. Readmission location (UTMB or not UTMB) was codified. Patients were asked if they have received care from a hospital since the previous visit. Epic contains reporting tools which automatically register hospitalizations that each patient accrues at UTMB and other sites (through CareEverywhere, which links all hospitals on Epic who consent) over their lifetime. Readmission was defined as any inpatient stay within 30 calendar days following the original discharge date to any location.

Statistical Analysis

PARTICIPATION

The goal of Aim 3 was to obtain pilot data on the feasibility and effect size of the CHFC3 Program in reducing all-cause readmission rates at 30 days in uninsured patients. In order to assess feasibility of participation, univariate frequencies on program uptake (yes/no) and participation frequency (count of visits within 60 days of discharge) were obtained. 95% confidence intervals were estimated. Then, to assess whether participation varies by factors associated with readmission, bivariate analysis of sociodemographic and medical history variables were assessed (see **Measures**). ***The crude proportion of patients who did not enroll but were readmitted within 30 days was assessed to estimate magnitude of selection bias.***

READMISSION RATES

This project also estimated the proportion of 30-day readmissions in HF patients enrolled in the program during 2021 and compares the proportion to previous UTMB of HF from 2017-2019 (19.9%; described in **preliminary data**). First, the proportion of patients who are admitted at 30 days within CHFC3 was estimated (with 95% CI). Second, the observed proportion was compared to the UTMB 2017-2020 estimate (19.9%) for overall readmission rate for HF at 30 days (one-sample proportion test). Previous evidence from interventions suggest that HF disease management clinics may be 20% effective⁶⁸ in reducing HF readmissions. Assuming a reduction of 20% with CHFC3, compared to 19.9% (readmit rate of 0.159 at 30 days), 599 patients would be needed to achieve 80% power to detect this effect. Given this is a pilot study ***assessing feasibility***,

however, the aim was simply to estimate the proportion of readmits that occurred and to estimate possible reduction in 30-day.

PARTICIPATION AND READMISSION

The number of visits attended in the program (0, 1, or 2+) was used as a predictor of HF readmission. Patients who attend their post-discharge visit, which is standard of care, were considered to have attended “Visit 1”. Spearman correlations were utilized to assess this association. All analysis was performed in SAS (Version 9.4, Cary NC). Everyone with baseline data (Visits 1 and 2) was considered “exposed” to the program (<2 visits is unexposed).

Limitations

Because this study did not have a control group, effectiveness could not be estimated. However, the observed rates of participation and 30-day readmissions informs feasibility and rationale for future studies. It was not clear whether patients could adhere to twice-weekly program participation, especially where social determinants of health, like transportation or substance abuse, may limit travel to and from clinic. However, free transportation was provided to patients who request it. There also may be selection bias in who chooses to attend CHFC3 versus those who do not enroll. This potential bias was estimated as described in Statistical Analysis. Patients who enroll may have been more motivated to remain adherent to medications, be less sick, or have less meaningful socioeconomic limitations than those who do not. Thus, this study provides pilot data for appropriately powering future studies and identifying barriers to participation.

Chapter 2 Statins, Musculoskeletal Symptoms, and Meta-Analysis in Large, Randomized Controlled Trials¹

INTRODUCTION

The Cholesterol Treatment Trialists' (CTT) Collaboration meta-analysis on patient-level data from large RCTs demonstrated that statin therapy is efficacious in reducing major vascular events.^{1,2} Statin therapy is now prominent in cholesterol management guidelines.⁹⁻¹⁴ Statin-associated muscle symptoms (SAMS), however, may lead to non-adherence or discontinuation with therapy and ultimately to poorer cardiovascular outcomes.¹³ Most RCTs have shown small, insignificant increases in risk for SAMS, although patients taking statins may complain of muscle problems and may discontinue therapy due to muscle problems.⁹ For example, a 2016 meta-analysis found a non-significant increase in myopathy. However, it did not report on the more mundane myalgias that often cause statin attrition.⁹ These milder symptoms are the major public health concern, as statin non-adherence can lead to significant increases in risk of major adverse cardiovascular events.⁹ Observational studies suggest that these mild SAMS may occur as often as 7-29% of patients.¹³ One review¹⁹ suggested that clinical observations of increased muscle problems with statin therapy may be due to patient expectations.

¹ This aim was previously published in BMJ Open, June 2021. See:

Davis, JW; Weller, SC: Intensity of statin therapy and muscle symptoms: a network meta-analysis of 153 000 patients | BMJ Open.

SAMS also may be more likely with higher intensity therapy. Although this is assumed to be true, especially with the evidence against simvastatin 80 mg,^{20,21} few RCTs have examined high intensity therapy.^{22,23} This study used a network meta-analysis (NMA) to combine evidence across trials to estimate the risk of SAMS by treatment intensity. In contrast to pair-wise meta-analysis (MA) that directly estimates causal effects, a NMA can indirectly estimate risk between placebo and moderate, moderate and high, and between placebo and high intensity treatment – even though placebo, moderate, and high intensity treatment levels were not compared within a single trial. Results contribute to the debate about whether muscle adverse events are due solely to patient expectations or whether statins might have an independent effect on symptoms. Finally, this study contributes to the ongoing debate as to whether statins cause myalgias and attrition due to muscle problems without marked creatine kinase (CK) elevations.

METHODS

The Trials

PubMed, Cochrane Database, Web of Science, and clinicaltrials.gov were searched for “systematic reviews” and “meta-analysis” in the title, abstract, or keywords prior to January 31, 2021 to identify eligible trials (Prospero #CRD42019112758; see Online Supplements for search terms and strategy). Double-blinded RCTs to improve lipid levels comparing statin therapy to placebo or higher-lower dose statin therapy were selected. In order to detect most adverse events, RCTs were selected that had at least 1,000 participants with two years of intended follow-up, where statin treatment was not given with other prescription drug therapies, and results contained reports on muscle-

related adverse events. Both authors independently reviewed trials for final inclusion and coded each for quality with Oxford Center for Evidence-based Medicine ratings⁵¹ and a five-point Jadad quality score.⁵² Any disagreements were reconciled by joint review and discussion.

Exposure Variable

Studies were classified by intensity of statin treatment (“high” or “moderate”) according to American Heart Association definitions for potency in reduction of lipid levels.⁵³ High intensity signifies an expected 50% or greater reduction in LDL-C levels when taking that statin (i.e., 80 mg atorvastatin) and moderate signifies 30-50% reduction in LDL-C.⁵³

Outcome Variables

Adverse muscle-related events were coded into five main outcomes. The first outcome was for any patient-reported muscle complaint coded from reports of “muscle aches”, “pains”, “cramps”, “stiffness,” “musculoskeletal disorders,” etc. The second focused on only myalgia or muscle pain. The third focused on attrition due to musculoskeletal complaints. A fourth captured explicit reporting of rhabdomyolysis, with or without a trial definition. The fifth was elevated creatine kinase, greater than ten times the upper limit of normal (CK >10x ULN). This threshold was used to distinguish this outcome from less meaningful CK increases and also because CK>10xULN is commonly reported in RCTs. All outcomes were coded as reported by original investigators in

published and online reports, and were independently coded by both authors. Ambiguities were resolved by contacting trial investigators.

Analysis

Published aggregate data from each trial were used. A crude estimate of incidence was calculated from the total number of cases observed divided by the total person-years (using the median or mean follow-up time for each study) and a chi square test was used to test for homogeneity in the proportion of incident cases across studies, within each arm, although these crude estimates ignored randomization. To facilitate interpretation and comparison of results to the original trials, risk of adverse effects was estimated with pooled relative risk (RR). A 0.50 continuity correction was added to aggregate frequencies for trials that observed zero cases of an outcome in either treatment arm. A pairwise meta-analysis (MA) was used to estimate the RR (Mantel-Haenszel method, random effects as implemented in the meta package in R)^{69,70} for a statin effect by treatment intensity from direct (head-head comparison) trials (Online Supplement contains detailed results for random effects with Mantel-Haenszel and inverse variance methods). Because aggregations across studies are only meaningfully interpreted when results are consistent across studies, heterogeneity among RCTs was assessed with an index of consistency across trials (I^2 , Q)^{54,71} and funnel plots. When $I^2 \leq 25\%$, results are considered to be at low risk of bias due to heterogeneity; high values ($>75\%$) indicate high risk of bias due to heterogeneity.^{54,71} Residual I^2 represents the heterogeneity remaining after accounting for sub-groups of treatment intensity. Cochrane's Q (a sub-component of I^2) indicates the probability that the observed heterogeneity is due to chance. Sensitivity analyses included

omitting outliers identified in funnel plots and using a 0.10 as a “continuity correction”. In addition, analyses were conducted excluding the simvastatin 80 mg studies because of US FDA muscle-related safety warnings.⁷²

A network meta-analysis (NMA), conducted in R,⁷³ used *all* available pairs of comparisons for each outcome to estimate increased risk between the three levels of treatment exposure. Prespecified comparisons were between placebo and moderate intensity, between moderate and high intensity therapy, and between placebo and high intensity. The RR was used to estimate effect size (frequentist, inverse variance method, random effects), so that results would be comparable across original studies and the pairwise meta-analysis above. In contrast to a MA which provides a direct estimate of the RR, a NMA provides estimates by combining direct and indirect evidence from all data. A ratio test was used to test for consistency between NMA direct and indirect estimates.⁷⁴ Heterogeneity was assessed with I^2 and Q statistics.^{54,71} Number needed to harm (NNH, the inverse of the absolute difference in incidence) was estimated when the pooled RR was significantly greater than 1.0 and the pooled absolute risk reduction (risk difference, RD) was significantly greater than 0.0. Sensitivity analyses included replacement of zeros with 0.10 and with 0.0001.

RESULTS

Searches yielded 134 relevant reviews, including 2919 RCTs that reduced to 24 unique RCTs that met eligibility requirements (see Online Supplements). Of the 24 RCTs: 17 were placebo-moderate intensity comparisons,^{37,38,75–93} 3 were placebo-high intensity comparisons,^{7,27,94} and 4 were moderate-high intensity comparisons^{20–23} (Table 1). The

active blood pressure treatment arm of the HOPE trial⁸⁶ was excluded, but the statin only and placebo only arms were retained, allowing for a statin and placebo comparison. Two trials compared moderate and high intensity therapy using 80 mg/day of simvastatin.^{20,21} All 24 RCTs scored the highest quality (1) on the Oxford rating and on the Jadad scale 18 scored 5/5 and 6 scored 4/5 (missing detail on random assignment). The RCTs included heterogeneous patient populations, e.g., healthy middle-aged adults^{7,77,86,92} to ESRD patients. Sample sizes ranged from 1,255⁷⁵ to 20,536⁸⁹ with follow-up periods from 1.9⁷ to 6.7²⁰ years. Of the 24 RCTs, six were included in the 2006 meta-analysis,⁹⁵ 17 in the 2014 systematic review,⁹⁶ 23 in the 2016 meta-analysis,⁹ and 18 in the 2013 NMA.⁹⁷ None of the previous analyses separated trials into sub-groups by treatment intensity. Crude estimates of incidence increased with intensity of treatment from placebo to moderate intensity to high intensity therapy, but with heterogeneity across trials (Online Supplements).

Any Muscle Symptoms

Twenty-three trials reported some type of muscle symptom^{7,20,23,27,38,76–80,82,88,89} myositis,⁸⁵ myalgia,^{22,75,81,83,84,91,94} myopathy,^{75,87} or discontinuation due to muscle-related symptoms.^{21,23,37} The pairwise meta-analysis pooled across subsets of trials indicated consistent trial results with a 1% non-significant increase in risk between placebo and moderate intensity therapy, a 3% non-significant increase between placebo and high intensity therapy (Figure 1), and a 5% significant increase between moderate and high intensity therapy (RR=1.05, 95% CI: 1.01, 1.09; p=0.027, 4 RCTs, N=30,720; I²=0%). Sensitivity analyses indicated that RRs were essentially unchanged without an

outlier⁸¹ identified on the funnel plot, with a 0.10 correction, or without the simvastatin 80 mg trials. (Online Supplements).

The NMA pooled direct and indirect evidence from all 23 trials and suggested increased risk with higher intensity therapy. Results (Table 2) indicated a 1% non-significant increase in risk between placebo and moderate intensity therapy, a 4% significant increase between moderate and high intensity therapy (RR=1.04, 95% CI: 1.00, 1.08; p=0.031), and a 5% significant increase between placebo and high intensity therapy (RR=1.05, 95% CI: 1.01, 1.09; p=0.012). The RRs were consistent across studies ($I^2=0\%$; Q, p=0.54), were not significantly different between direct and indirect estimates (p=0.48), and were not sensitive to substitutions for zero values. Pooled RDs between pairs of treatment groups were not significantly different from zero. There were no outliers in the NMA analysis. Exclusion of the two simvastatin 80mg trials did not meaningfully change risk, but comparisons with high intensity were not statistically significant, likely due to the decreased sample size (Online Supplements).

Myalgia or pain

Thirteen RCTs reported cases of myalgia,^{7,27,76,80–83,91,93,94} attrition due to myalgia,^{77,79} or pain and/or weakness.⁸⁹ The pairwise meta-analysis indicated (Figure 2) a 13% non-significant increase in myalgia between placebo and moderate intensity, a 9% non-significant increase between placebo and high intensity, and a 4% significant increase between moderate and high intensity (RR=1.04, 95% CI: 1.00;1.09, p=0.040, 2 RCT, n=22065; $I^2=0\%$). The three trials comparing placebo and high intensity therapies suggested moderate heterogeneity in results ($I^2=45\%$). Funnel plots did not suggest bias

by any of the studies and there were no zero cells (Online Supplements). Exclusion of the simvastatin 80 mg trial did not meaningfully change the magnitude of risk, although results were non-significant for high intensity compared to moderate intensity therapy possibly due to decreased sample size (Online Supplements).

The NMA results combining evidence for all 13 trials suggested an increase in myalgia with increased therapy intensity (Table 2). There was a 9% non-significant increase in risk between placebo and moderate intensity therapy, a 4% significant increase between moderate and high intensity therapy (RR=1.04, 95% CI: 1.00, 1.08; p=0.046), and a 13% significant increase in risk for high intensity therapy compared to placebo without heterogeneity (RR=1.13, 95% CI: 1.05, 1.23; p=0.002). The RRs were consistent across studies ($I^2=0%$, Q, p=0.48) and direct and indirect estimates were not significantly different (p=0.63). The pooled RD was significant between high and moderate intensity (NNH=173) and between high intensity and placebo (NNH=154) with low heterogeneity ($I^2=20%$; Q, p=0.25). Exclusion of the simvastatin 80 mg trial did not change the magnitude of risk although results were not significant for high intensity compared to moderate intensity therapy (Online Supplements).

Attrition

Attrition due to muscle problems was reported by eight RCTs that compared moderate intensity statin therapy with placebo,^{37,76,77,79,83,86,87,89,93} three that compared moderate with high intensity therapy,^{20,21,23} and none that directly compared high intensity to placebo. In the pairwise meta-analysis (Figure 3), patients on moderate intensity statin therapy had a 13% non-significant increase in attrition due to muscle problems compared

to placebo. Patients on high intensity therapy had a 38% significantly higher attrition rate than those on moderate intensity (RR=1.38, 95% CI: 1.04, 1.82; p=0.024, 3 RCTs, N=20,719) with moderate heterogeneity across trials ($I^2=31\%$). Funnel plots did not suggest bias and there were no zero cells. Exclusion of the two simvastatin 80 mg trials left only one moderate-high intensity comparison RCT (Online Supplements).

The NMA results for the 11 trials suggested that risk for attrition increased with intensity of therapy. There was a 13% non-significant increase in risk between placebo and moderate intensity therapy (Table 2), a 37% significant increase in risk between moderate and high intensity (RR=1.37, 95% CI: 1.09, 1.73; p=0.007), and a 16% significant increase in risk between placebo and high intensity therapy (RR=1.16, 95% CI: 1.15, 2.08; p=0.004). The RRs were consistent across studies ($I^2=0\%$; Q p=0.72) and closely paralleled direct results provided by the meta-analysis, but the NMA provided an estimate for the placebo-high intensity comparison for which there were no head-to-head trials. The pooled RD between moderate and high intensity therapy was significant and the NNH was 218. The pooled RD between high intensity therapy and placebo also was significant and the NNH was 186. Exclusion of the two simvastatin 80 mg trials resulted in a slightly lower risk estimate for the moderate to high comparison and a slightly higher estimate for the placebo to high comparison, and both were non-significant (Online Supplements).

Rhabdomyolysis

Rhabdomyolysis was reported on by 14 moderate intensity-placebo comparison RCTs,^{37,38,75–79,81–83,88–91} four moderate-high intensity comparison RCTs,^{20–23} and three

high intensity-placebo comparison RCTs.^{7,27,94} Incidence of rhabdomyolysis was very low and statistical comparisons were not conclusive. Pairwise meta-analysis indicated a 39% non-significant increase in rhabdomyolysis incidence between placebo and moderate intensity therapy, 145% non-significant increase between moderate and high intensity, and a 4% non-significant decrease between placebo and high intensity therapy (Figure 4). Results were inconclusive as estimates were not robust across sensitivity analyses. Approximately half (22/42) of the cells were zeros and RR increased for the moderate-high intensity comparison with a smaller correction and removal of the simvastatin 80 mg trials meaningfully changed effect sizes (Online Supplements).

NMA results based on all 21 trials indicated increased risk for rhabdomyolysis with increased intensity of therapy (Table 2). There was a 22% non-significant increase in risk between placebo and moderate intensity therapy, a 33% non-significant increase between moderate and high intensity, and a 66% non-significant increase between placebo and high intensity therapy with consistency across trials ($I^2=0\%$, $Q\ p=0.99$). Direct and indirect RR estimates were not significantly different ($p=0.31$). Results were not consistent after exclusion of simvastatin 80 mg trials or replacement of zeros, but remained nonsignificant (Online Supplements).

Elevated CK

Of 16 RCTs, 11 compared rates of elevated creatine kinase ($CK>10\times ULN$) between placebo and moderate intensity therapy,^{37,38,75–78,83,88–92} three compared moderate to high intensity therapy^{20–22} and two compared high intensity therapy with placebo.^{27,94} Incidence of elevated CK was low. Pairwise meta-analysis indicated (Figure

5) a 17% non-significant increase in CK elevation between placebo and moderate intensity therapy, a 173% non-significant increase between placebo and high intensity therapy, and a 288% significantly higher risk for high compared to moderate intensity (RR=3.88, 95% CI: 1.05,14.31; p=0.042, 3 RCTs, n=26,558) with some heterogeneity among the three trials ($I^2=50\%$). Estimates were not stable across sensitivity analyses. Removal of two possible outliers,^{20,77} exclusion of simvastatin 80 mg trials, and adjustment for cells with zeros (9/32) meaningfully changed RR estimates (Online Supplements) .

Using evidence from all 16 trials, the NMA estimates indicated increased risk with increased intensity. NMA results indicated a 14% non-significant increase between placebo and moderate intensity therapy (Table 2), a 359% significant increase in CK elevation between moderate and high intensity (RR=4.59, 95% CI: 2.32,9.10; p<0.0001), and a 425% significant increase between placebo and high intensity (RR=5.25, 95% CI: 2.29,12.03; p<0.0001). Results were consistent across trials ($I^2=7\%$, Q p=0.37) and direct and indirect RR estimates were not significantly different (p=0.57). The pooled RD between moderate and high intensity therapy was significantly different from zero and the NNH was 527. The pooled RD between high intensity therapy and placebo also was significant and the NNH was 589. There were no outliers in the NMA analysis. Although results were homogeneous with the simvastatin 80 mg trials, exclusion of these trials meaningfully reduced risk associated with statin therapy between moderate and high intensity and between placebo and high intensity therapy; and smaller zero replacement values increased risk estimates (Online Supplements).

DISCUSSION

A novel contribution of this study was the application of NMA to estimate the dose-response effect of statin therapy on muscle symptoms using clinically-meaningful categories of treatment intensity. The NMA RR estimates closely paralleled the direct estimates, indicating reliability of estimates and increased risk with high intensity statin therapy. The network meta-analyses provide information about risk by utilizing all available evidence, whereas traditional meta-analyses are limited only to direct, head-to-head comparisons. For patient-reported symptoms, there were non-significant increases in SAMS between placebo and moderate intensity therapy and significant increases between moderate and high intensity therapy. Because simvastatin 80mg therapy is now restricted because of muscle injury,⁹⁸ analyses also were run with and without those trials. This did not meaningfully affect results for patient-reported outcomes. Rhabdomyolysis and elevated CK also showed increased risk with higher intensity, but because of low incidence (with 25-50% zero cells) and inconsistency across sensitivity analyses, results were inconclusive.

Double-blinded RCTs and traditional meta-analyses^{9,95,96} suggest no significant increase in risk of muscle adverse events with statin therapy. Since most evidence comes from moderate intensity trials, possible adverse effects of high intensity therapy may be masked in aggregate estimates. In this study, high intensity therapy and focused definitions of patient-reported muscle problems detected higher risk. However, the absolute excess of SAMS was less than 1% for all outcomes. In previous meta-analyses, absolute excess of muscle problems also was small, but non-significant.^{9,96} The 2016 meta-analysis estimated risk for extreme outcomes (myopathy and rhabdomyolysis), but did not analyze patient reports of milder SAMS that we present and that concern patients.

We did not code for myopathy as an outcome, because we did not have access to patient-level data and could not determine if elevated CK co-occurred with myalgia.

Direct lower-higher dose comparisons in individual RCTs were not consistent, e.g., the SEARCH²⁰ and A to Z trials found a significant increase in CK and the TNT trial²² did not. A NMA that compared dosage increments within brands⁹⁷ suggested no systematic increase in risk for myalgia or discontinuation with higher dosages. These negative findings may have been due to smaller sample sizes, smaller dosage increments in restricted comparisons, or exclusion of the simvastatin 80 mg trials.⁹⁷ In this study, results were homogeneous including the simvastatin 80mg trials and indicated high intensity therapy significantly increased myalgia compared to placebo even after their exclusion. The previous NMA did identify a dose-response relationship between statin dose and mildly elevated CK (2-3x ULN), but only for lovastatin and simvastatin.⁹⁷ CK>10xULN may be more interpretable than modest elevations, and in this study it was significantly increased with high-intensity statin therapy. While removal of 80mg simvastatin trials had little effect on patient-reported symptoms, their exclusion resulted in smaller non-significant increases in risk for elevated CK. It is unclear if simvastatin 80mg was responsible for the significant increases in CK.

A practical question concerns how large an excess of cases might be observed with statin therapy for myalgia/pain, attrition due to muscle problems, and elevated CK or rhabdomyolysis. Although estimates based on observational studies suggest that incidence of mild SAMS might be as high as 30% among statin users,⁹⁹ RCTs suggest a much lower rate. In this study, pooled risk estimates suggested that for each 173 patients on high intensity therapy one additional patient will experience statin-caused myalgia and

for each 218 patients one additional patient will discontinue therapy due to muscle problems compared to those on moderate intensity therapy. This represents numerous patients who are at greatest risk for major vascular events, as these are often higher risk patients. Discontinuation of statins in the elderly (>75 yrs) may result in 33% increased risk of a cardiovascular event within 3 months¹⁰⁰ and adherence to statins in those 65 and older may reduce mortality by a third.¹⁰¹

Myalgias and attrition due to SAMS are important outcomes for the average patient, but have not received as much attention as rhabdomyolysis and myopathy. This study provides evidence that while blinded, moderate intensity statin-takers did not report significantly more general muscle problems or myalgias, but those on high intensity therapy did. Because many myalgia cases occurred without CK elevation increases, this also serves as evidence that SAMS occur in the absence of large elevations in CK. Clinicians with patients who are “statin intolerant” may consider encouraging the patient to first decrease intensity of statin therapy, rather than discontinuing it, in light of these findings.

This analysis also contributes to the “nocebo” debate. A large, unblinded follow-up of RCT patients suggested SAMS are expectation-related.⁸⁰ They observed an incidence of 2.03% and 2.00% muscle-related adverse events in statin and placebo groups, respectively, when double-blinded (HR=1.03) and 1.26% and 1.00% in the statin and usual care groups when unblinded (HR=1.41).⁸⁰ Both comparisons indicate absolute differences less than 1%. A recent N-of-1 trial¹⁰² also found minimal differences in muscle symptoms when patients took statin versus placebo (blinded), but significantly more muscle symptoms when taking a placebo versus taking nothing (unblinded). Both nocebo

and causal effects are small, although they can result in increased SAMS. In a clinical setting, SAMS with moderate intensity therapy may be the result of patient expectations, but with high intensity therapy SAMS may be due to expectations and statin therapy. Intensity of treatment and patient expectations may need to be considered before making changes in statin therapy in the absence of CK elevations.

A limitation of study-level meta-analyses is that definitions,¹⁰³ assessment, and variable reporting of muscle-related outcomes may differ across studies. Aggregation of heterogeneous outcomes and estimated outcomes (e.g., myopathy) not explicitly reported by investigators can mask an effect. Protocol differences may partially explain incidence disparities across studies. However, use of the RR to estimate effect size minimizes bias due to between-study variations in protocol (e.g., using a symptom checklist versus recording spontaneous mention of symptoms and then categorizing responses).

Estimates in this analysis may have under-estimated SAMS by excluding patients with statin hypersensitivity, as four studies^{22,86,89,94} (n=48,950) employed statin “washout” phases and eight trials^{27,37,38,75,76,81,83,85,86} (n=34,042) excluded patients with known statin hypersensitivity. Collins et al. noted that “statin hypersensitivity” exclusion was a rare occurrence across these trials, as almost all patients enrolled were statin-naïve at screening.⁹ The risk of attrition due to SAMS and rhabdomyolysis was actually highest in SEARCH, where an eight week long, active run-in phase was conducted,^{9,20} although no patients were excluded for elevated muscle enzymes.²⁰ Also, an N-of-1 trial in patients who were considering stopping or who had stopped statin therapy because of muscle symptoms found no difference in severity of patient-reported muscle symptoms between

statin and placebo groups.¹⁰⁴ Because simvastatin 80 mg trials comprise a high proportion of high intensity treatment evidence, this may limit interpretation of CK and rhabdomyolysis risk. Also, adverse events may have been increased due to the presence of co-morbidities; only three trials studied healthy adults (n=30,756).^{7,77,86} A final limitation is that although risk estimates are based on the best available evidence and should provide relatively unbiased estimates, confidence intervals and alpha significance levels may be approximate due to multiple comparisons.

CONCLUSION

Statins likely cause SAMS, but at much lower rates than observational data suggest. We found significant, but small increases in risk for patient-reported muscle problems on high-intensity statins. Complaints of SAMS in observational studies may be related to statin therapy or patient expectations, but more likely may be due to methodological biases or the generally high prevalence of muscle problems.

Table 1: Description of the Trials

| Trial Name | Total sample size | Special Population | Permit Prior statin† | Ave age | Run-in Period | Median Yrs F/U |
|--|-------------------|-------------------------------|----------------------|---------|----------------------|----------------|
| Placebo-Moderate | | | | | | |
| 4D, A20 ⁷⁵ | 1,255 | DM II, ESRD | Y, -HS | 66 | Placebo | 4.0 |
| 4S, S20-S40 ⁷⁶ | 4,444 | MI or angina | Y, -HS | 59 | Placebo | 5.4 |
| AFCAPS, L20-L40 ⁷⁷ | 6,605 | Healthy adults | N | 58 | Placebo+diet | 5.2 |
| ALERT, F40-F80 ⁷⁸ | 2,094 | Renal Trans | N | 50 | None | 5.4 |
| ASCOT, A10 ^{79,80} | 10,810 | HTN+CVD risk | N | 63 | Not statin | 3.3 |
| ASPEN, A10 ⁸¹ | 2,410 | DM II | Y, -HS | 61 | Placebo | 4.0 |
| AURORA, R10 ⁸² | 2,767 | ESRD | N | 64 | Placebo | 3.2 |
| CARDS, A10 ^{83,84} | 2,838 | DM II | Y, -HS | 62 | Placebo | 4.0 |
| CARE, P40 ⁸⁵ | 4,159 | MI | Y, -HS | 59 | Placebo | 5.0 |
| CORONA, R10 ³⁸ | 5,011 | ESRD | Y, -HS | 73 | Placebo | 2.7 |
| GISSI-HF, R10 ³⁷ | 4,574 | CHF | Y, -HS | 68 | None | 3.9 |
| HOPE-3, R10 ⁸⁶ | 6,349 | Healthy, CVD Risk | Y, -HS | 66 | Statin | 5.6 |
| LIPID, P40 ⁸⁷ | 9,014 | MI or angina | Y | 62* | Placebo+diet | 6.0 (mean) |
| LIPS, F80 ⁸⁸ | 1,640 | Coronary percut. intervention | Y | 60 | None | 3.9 |
| MRC/BHF (HPS), S40 ^{89,90} | 20,536 | CHD/CHD Risk | N | 64 | Placebo, then statin | 5 (mean) |
| PROSPER, P40 ⁹¹ | 5,804 | Elderly, CHD risk | Y | 75 | Placebo | 3.2 (mean) |
| WOSCOPS, P40 ^{92,93} | 6,604 | Healthy males | Y | 55 | None | 4.9 (mean) |
| Placebo-High | | | | | | |
| JUPITER, R20 ⁷ | 17,802 | Healthy adults | N | 66 | Placebo | 1.9†† |
| SPARCL, A80 ⁹⁴ | 4,731 | CVA/TIA | Y | 63 | None | 4.9 |
| TRACE, A40 ²⁷ | 3,002 | RA | N, -HS | 61 | None | 2.5 |
| Moderate-High | | | | | | |
| A to Z, S40-S80 vs 0-S20 ²¹ | 4,497 | Acute Coronary Syndrome | N | 61 | None | 1.98 |
| PROVE-IT, A80 vs P40 ²³ | 4,162 | Acute Coronary Syndrome | Y, if <80mg | 58 | None | 2.0 (mean) |

| | | | | | | |
|----------------------------------|--------|-----|---|----|-----------------|-----|
| SEARCH, S80 vs S20 ²⁰ | 12,064 | MI | Y | 64 | Statin+ Placebo | 6.7 |
| TNT, A80 vs A10 ²² | 10,001 | CHD | Y | 61 | Statin | 4.9 |

*Median

†Y=Yes, N=No, -HS=statin hypersensitivity exclusion

†† Trial was designed for two years of follow-up, but met study end points and terminated the blinded portion of the study earlier.

Table 2: Relative Risk and Risk Difference Results for Comparisons of Treatment Intensity Pairs.

| CK> 10xULN | Rhabdo. | Attrition | Myalgia | Any Probs | Outcome | Placebo – Moderate Intensity |
|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|----------------|------------------------------------|
| | | | | | | Moderate – High Intensity |
| 1.143 (0.686, 1.905) | 1.225 (0.624, 2.405) | 1.127 (0.931, 1.364) | 1.090 (.9997, 1.188) | 1.010 (0.988, 1.033) | RR (95% CI) | |
| -0.000 (-0.001, 0.001) | -0.000 (-0.001, 0.001) | 0.001 (-0.000, 0.001) | 0.001 (-0.000, 0.001) | 0.000 (-0.001, 0.001) | RD (95% CI) | |
| -- | -- | -- | -- | -- | NNH | |
| 4.594 (2.320, 9.098) | 1.326 (0.487, 3.614) | 1.372 (1.091, 1.726) | 1.041 (1.001, 1.083) | 1.039 (1.004, 1.075) | RR (95% CI) | |
| 0.002 (0.001, 0.003) | 0.002 (0.001, 0.003) | 0.005 (0.002, 0.007) | 0.006 (0.001, 0.010) | 0.004 (-0.000, 0.008) | RD (95% CI) | |
| 527 | -- | 218 | 173 | -- | NNH | |
| 5.252 (2.293, 12.028) | 1.624 (0.579, 4.553) | 1.155 (1.147, 2.084) | 1.134 (1.046, 1.230) | 1.049 (1.010, 1.089) | RR (95% CI) | |
| 0.002 (0.000, 0.003) | 0.002 (0.000, 0.003) | 0.005 (0.002, 0.008) | 0.007 (0.002, 0.011) | 0.004 (-0.001, 0.008) | RD (95% CI) | |
| 589 | -- | 187 | 182 | -- | NNH | |

Figure 1: General Muscle Problems

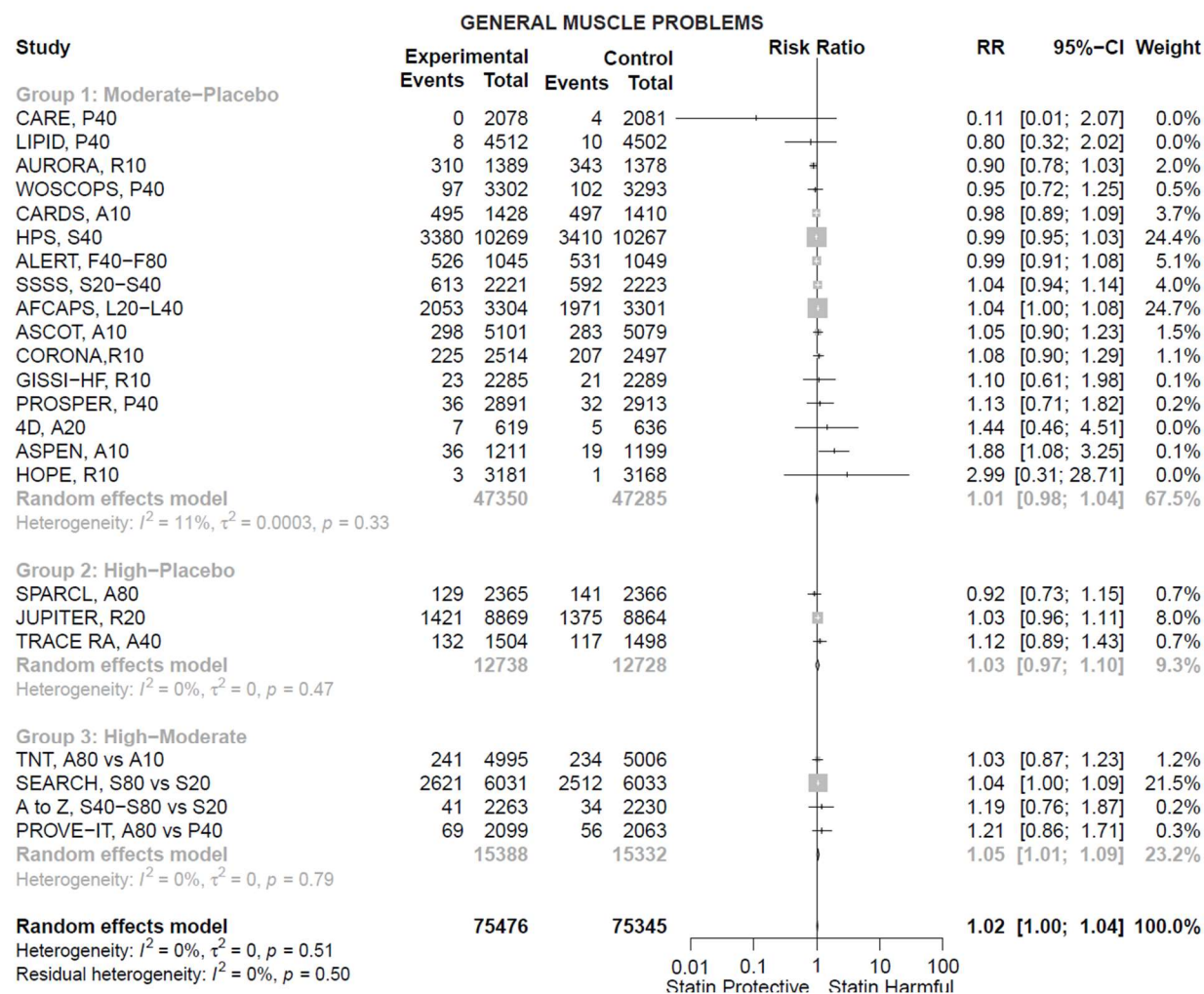


Figure 2: Myalgia

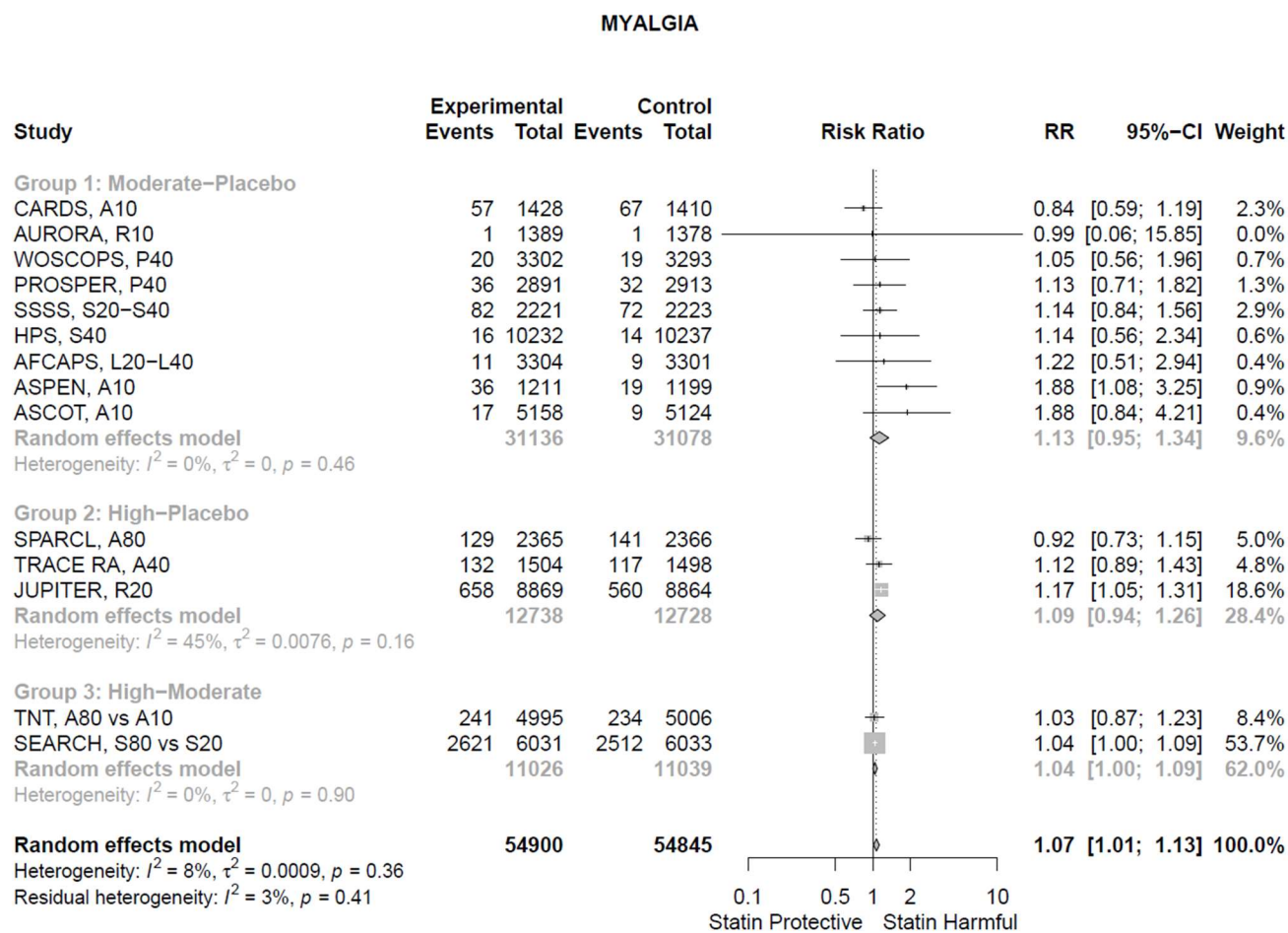


Figure 3: Attrition Due to Muscle Symptoms

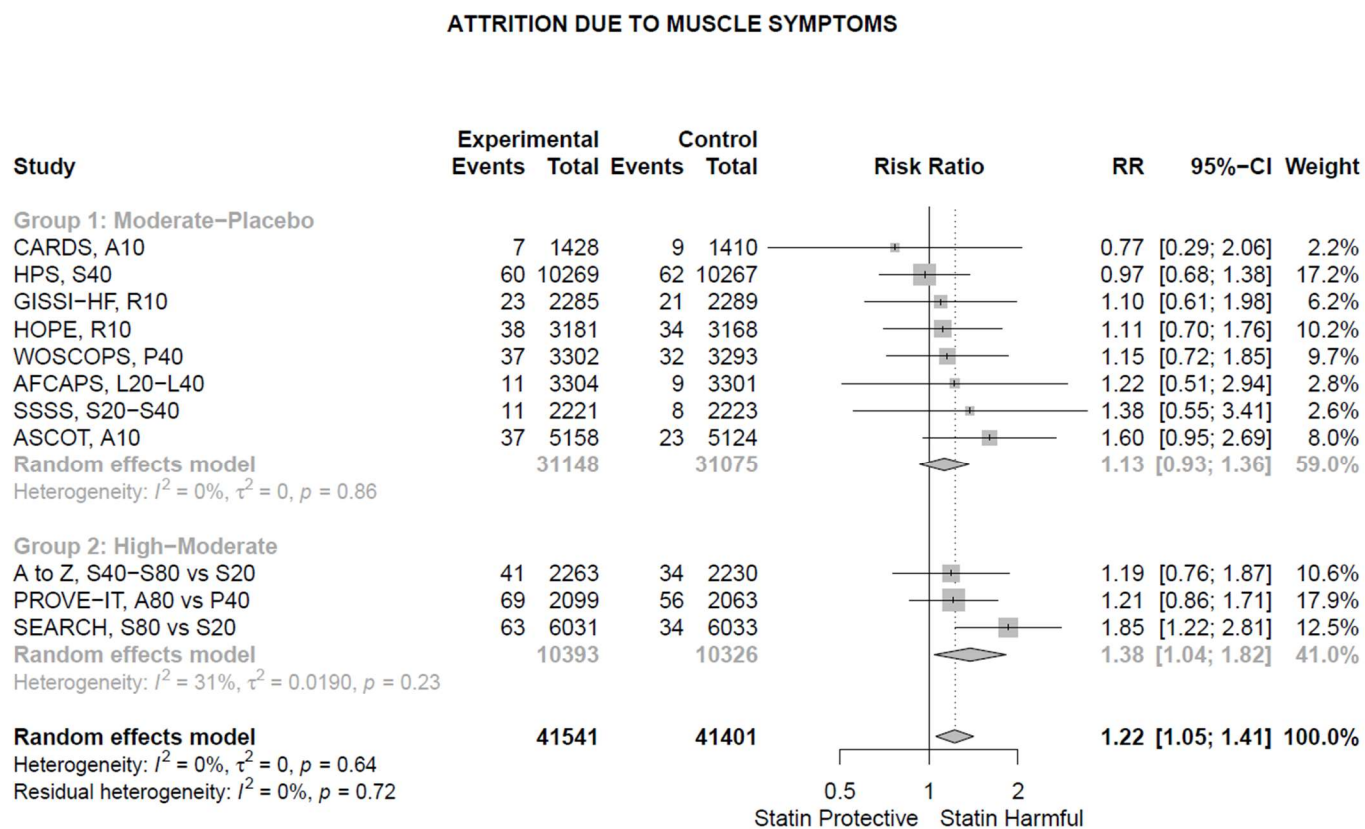


Figure 4: Rhabdomyolysis

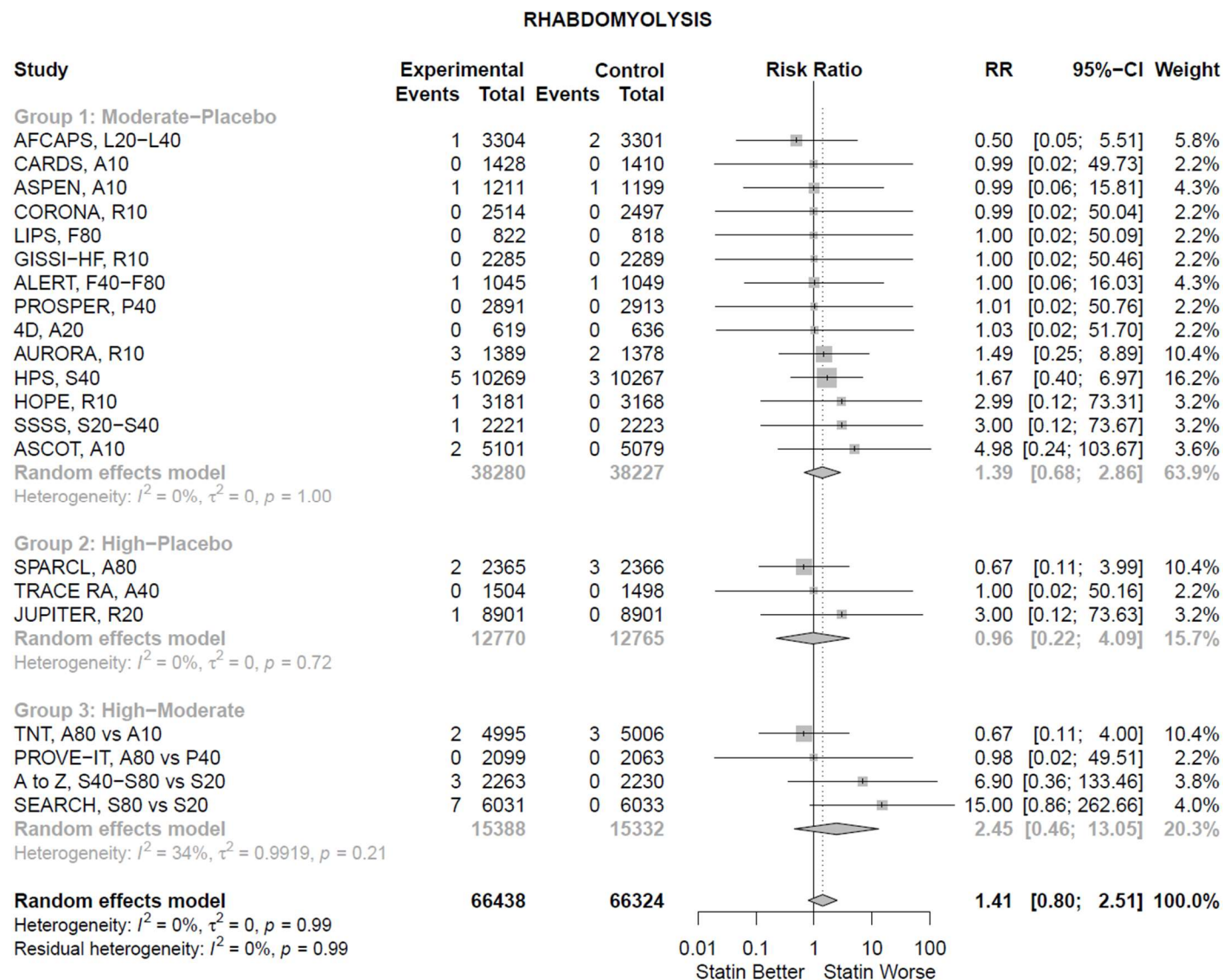
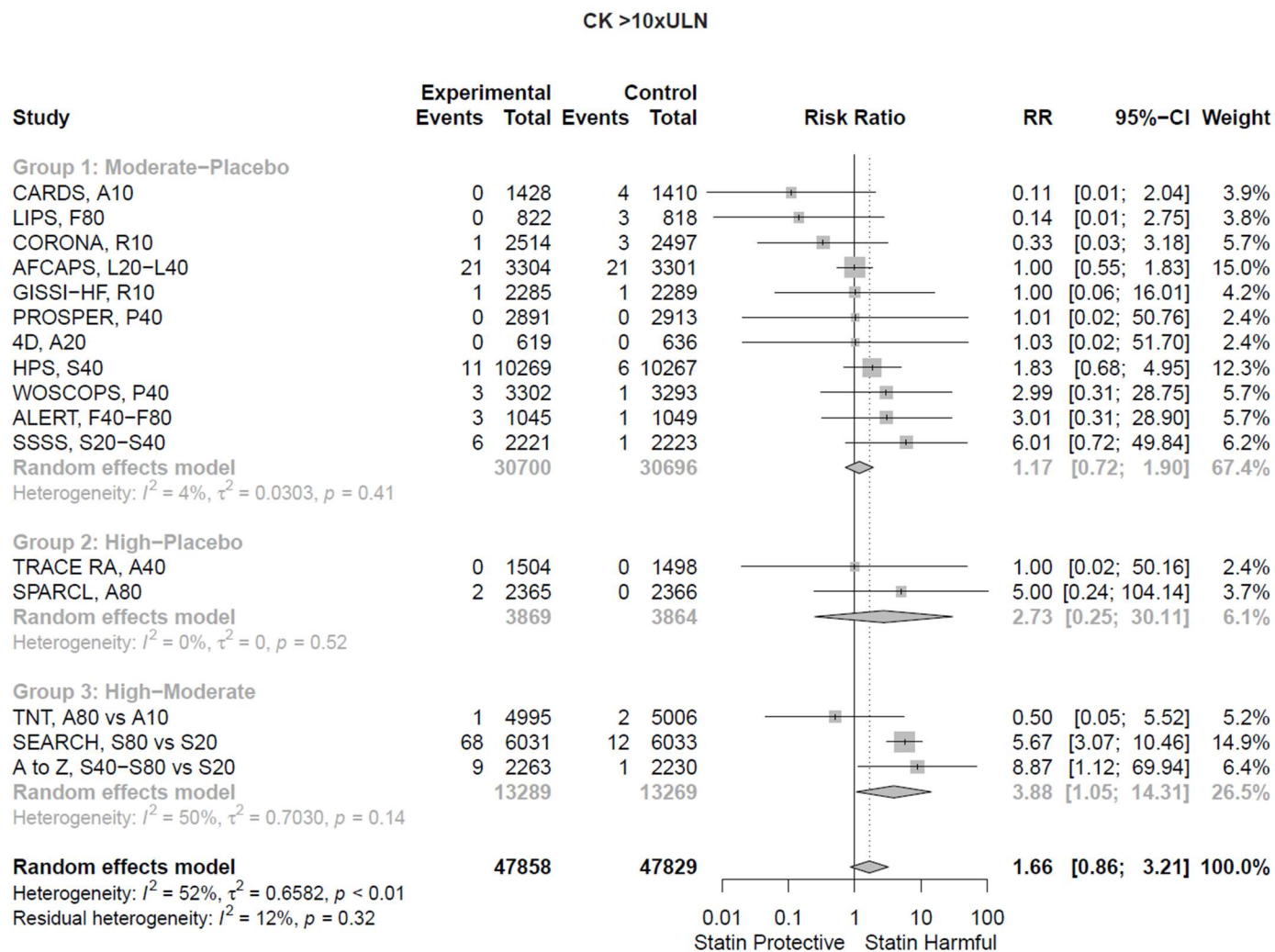


Figure 5: CK Greater Than 10x ULN



APPENDIX: SUPPLEMENTARY MATERIAL

The appendix and additional supplementary material, including relevant programming code, can be found online at:

<https://bmjopen.bmj.com/content/11/6/e043714>

<https://datadryad.org/stash/dataset/doi:10.5061/dryad.kpr4xh2q>

Chapter 3 Venous Thromboembolism and the Effects of Statin and Hormone Therapy: A Case-Control Study

INTRODUCTION

Many women suffer from post-menopausal symptoms, such as 'hot flashes', vaginal dryness, disruptions in sleep patterns, and inability to concentrate. The primary treatment for such symptoms is hormone therapy (HT). However, many are not prescribed HT because of possible risk of a venous thromboembolism (VTE), stroke, or myocardial infarction (MI). Although HT significantly reduces menopausal symptoms and helps to maintain bone health, clinical guidelines discourage use of HT due to possible increased risk for adverse cardiovascular events and long-term risk of breast cancer.^{105,106} Clinical trials in post-menopausal women estimated that HT may double the risk for venous thromboembolism (VTE).^{28,107} However, most of the trial participants initiated HT after 60 years of age, and these trials were conducted two decades ago with oral, conjugated equine estrogen (CEE), which has been shown to carry a different risk profile than other types and routes of estrogen administration.⁶⁰ Evidence suggests that vascular risk may be lower when initiation is nearer menopause.^{30,55} Observational studies have suggested significant differences in severity of HT risk by type of hormone exposure and route of administration.^{30,60,108,109}

Furthermore, in the decades since HT trials were conducted, evidence has accumulated on the efficacy of statin therapy to reduce risk for venous thromboembolic events.²⁶ Meta-analysis of RCTs and observational studies

suggest that current exposure, versus past or no exposure to statins, may reduce VTE odds by 25% (OR=0.75, 95% CI: 0.65, 0.87; 13 cohorts, 3.2M patients).²⁶ RCT evidence demonstrates lesser reductions in risk (RR=0.85, 95% CI: 0.73, 0.99; 23 RCTs, n=118,464 patients) when compared to placebo.²⁶ However, evidence exists that this effect may be accentuated by intensity of therapy.^{3,26,110,111}

There is, however, minimal evidence on statin effectiveness in reducing VTE in the context of HT. One source of evidence about the possible effects of combined HT and statins originates from a nested case-control of UK women from 1987-2008.³⁵ Using the UK's Clinical Practice Research Database (CPRD), a sample of approximately 6 million women, they matched 23,000 cases of VTE date of event, subject age (+/- two years) and general practice location to controls (up to 10:1 match, n=23,505 cases, 231,562 controls). After adjustment for "body mass index, smoking status, history of varicose veins treatment, inherited thrombophilia and screening for thrombophilia, antiphospholipid syndrome (Hughes' syndrome), immobilization, invasive surgical operation, trauma and fracture (on the month before index date), myeloproliferative disorders, cancer (on the year before index date), inflammatory bowel disease, nephrotic syndrome, hypertension, cardiovascular and cerebrovascular diseases, and use of tamoxifen and nonsteroidal anti-inflammatory drugs", they found a 52% increase (OR=1.52, p-interaction=0.06) in odds of VTE in women 50-79 years old taking any current HT (last 30 days) compared to no exposure in the past year when statin-unexposed. The odds decreased to 21% in statin-exposed women taking HT. Consistent with

other studies,^{60,112} odds of VTE were not different among women taking oral estrogen, oral progestogen, or oral estrogen and progestogen combinations when compared to one another. Thus, while it is not clear whether an interactive effect between HT and statins exist, there is evidence that statins may reduce some of the excess risk of VTE associated with HT.

It is important to validate this study in today's US population, which has a different comorbidity profile¹¹³ and HT formulary than European countries. The number of VTE cases in the UK ranged from 150-175 cases per 100,000 person-years (2017-2019);^{46,114} however, rates in the US were approximately 28% higher at 215 definite cases (ICD-9 or ICD-10 code with subsequent hospitalization, anticoagulant, or death) per 100,000 person-years (2015-2019).³³ Further, women in the CPRD sample were older (age range 50-79). Because older age is associated with VTE, this limits use of this evidence in younger women at lower risk of VTE. Relevant CPRD studies^{35,60,61} also included both "definite" and "probable" cases of VTE, which may limit interpretation of their findings.

This project is a case-control study that examined the association between concomitant statin and HT exposure with VTE in a large health administrative database (OPTUM). Cases of VTE were selected using ICD codes and matched to controls who never experienced VTE. Exposure criteria was defined by known prescriptions for **estrogen or progestogen**, either in combination or separately. All covariates were defined by ICD codes and controls were individually matched by age (+/- two years) and index date to maximize sample sizes for statin and HT usage. The sample was limited to women 50 up to (but not including) 65 years of

age: the lower bound age, 50 years, was chosen based on the average age at menopause;⁵⁷ the upper bound was chosen based on the age at which most people transition to Medicare, which limits claim accuracy.

METHODS

DATA SOURCE

This was a case-control study within Optum's de-identified Clinformatics® Data Mart database. It contains claims for approximately 62 million unique enrollees from 2008-2019.⁵⁸ Excluding Medicare Advantage subscribers, there are approximately 15 million annual members, a third of whom have continuous enrollment for three or more years. Because VTE incidence is low (about 217 cases in 100,000 person-years when using confirmatory case criteria)³³, OPTUM is one of the few databases containing a sufficient sample size for the target age range.

Disadvantages of this data source include false negatives (those who receive but do not fill prescriptions for anticoagulants) and false positives (claims for ICD diagnostic codes that are ultimately inconsistent with patient's condition). While numerous studies have assessed validity of venous thromboembolism code presence (or lack thereof) for venous thromboembolism events,¹¹⁵⁻¹¹⁷ positive predictive values vary by country but are improved with use of "confirmatory events" such as anticoagulant prescriptions following discharge.¹¹⁸ Thus, while no measures can realistically be taken to mitigate false negative risk in a claims database, false positives can be minimized by coding for VTE as the

corresponding diagnostic code plus a subsequent prescription for an anticoagulant. Another disadvantage to OPTUM is the limited time range for each individual. In contrast to National Health Care systems, as of 2015, just half of patients enrolled with OPTUM have two years of continuous coverage (30.6 million out of 63.1 million).^{58,119} However, approximately 75% (46.0 million out of 63.1 million) have continuous pharmacy and medical claims data for 12 or more months.¹¹⁹

Finally, this dataset is limited to only information relevant to insurance claims. Therefore, social determinants of health measures (i.e., race/ethnicity) are not included, while important risk factors like smoking status and obesity are limited by detection bias (i.e., likely some light smokers are classified as unexposed).

COHORT SELECTION

Women from 50 years of age and up to (but not including) 65 years of age at date of index who were enrolled within 2007-2019 were eligible for inclusion if they had at least one year of continuous enrollment. Cases were defined as women with a diagnostic code for VTE (DVT, ICD-9: 451.1x, 451.2x, 451.81, 451.9x, 453.4x; ICD-10: I80.1x, I80.2x, I80.3, I80.9, I82.4xx, I82.90; PE, ICD-9: 415.1x, ICD-10: I26.0x, I26.9x) during the observation period followed by one or more prescriptions for an anti-coagulant (heparin, warfarin, apixaban, but excluding heparin flushes; listed in **Appendix Table A**), intravascular vena cava filter (identified by CPT codes 7191, 37192, 37193, 37620, 35940, 36010, or 36011-36012), or death within 30 days of the VTE diagnosis. Combining the

diagnostic claims codes with anticoagulant prescription claims have been previously demonstrated to increase the likelihood that the reported VTE occurred (increases positive predictive value).¹²⁰ Date of VTE diagnosis was the index date, and anyone who had less than 12 months of previous enrollment data before this date was excluded. Women who had a probable VTE (acute or chronic diagnosis) within one year prior to the index date were excluded from study. Women with an IVC filter placement in the past 12 months prior to index, or exposed to an anticoagulant within the 14 days prior to event (that is, anyone with a prescription for an anticoagulant during that period) were also excluded. Controls were randomly selected for the match to cases by month of index date and age within +/- two years at a 10:1 ratio. Controls, likewise, were excluded with less than 12 months of enrollment prior to index, history of prior, acute VTE in the one year lookback, history of anticoagulant or IVC placement within the 14 days prior to index date, or any chronic VTE (either DVT or PE) diagnosis.

We used a 'loose', individual match (very few covariates matched) for several reasons. First, doing so allows for better generalization to the US population.^{121,122} Over-matching can preclude the estimation of a covariate's impact on event odds,¹²² may decrease external validity,¹²² and may bias parameter estimates towards the null.¹²¹ Matching or excluding by other important covariates, such as hospitalization or cancer (two strong risk factors for VTE), is thus only warranted where there is concern for extreme variance in prevalence within the exposure of interest.¹²¹ Since it is not known whether this is the case,

these factors were carried as covariates and were subjected to sensitivity analyses excluding cases and controls with those conditions.

EXPOSURE

HT exposure was defined by type of hormone and route of administration. There were four types of hormone exposure categories: (1) unopposed estrogen, (2) estrogen with progestogen, (3) progestogen alone, and (4) estrogen with testosterone (with or without a progestogen). Four routes of administration were considered: (1) oral, (2) transdermal, (3) vaginal, and (4) intramuscular. If women were exposed to transdermal estrogen with an oral progestogen, they were classified as exposed to both estrogen and progestogen and classified by the route of estrogen. If women were exposed to transdermal and oral estrogen with overlapping prescriptions, they were classified as oral exposure. We evaluated timing of HT exposure by assessing several possible exposure definitions for HT, based on event index date: (1) 0-30 days since index date, (2) 31- 60 days, (3) 61-90 days, (4) 91-365 days, and (5) no exposure in the last year. The Strengthening of Reporting in Observational studies in Epidemiology (STROBE) guidelines directed our exposure selection strategy.¹²³ National Drug Codes (NDCs) for HT exposure were identified using Red Book¹²⁴ and/or from a list supplied by the Food and Drug Administration,¹²⁵ and are found in the **Appendix, Table A**.

Statin exposure was defined by duration of therapy, given that most RCT and cohort evidence demonstrated VTE reductions with continuous exposure to statin therapy after one year.^{3,35,126} Duration of therapy was defined in six

categories: 1) 90 days of continuous prescriptions prior to index date *plus* at least one prescription from 91-365 days prior to index date, 2) 90 days of continuous prescriptions prior to index date *without* any prescriptions from 91-365 days prior to index date, 3) 60 total days of prescriptions in the 90 days prior to index date, 4) 30 total days of prescriptions in the 90 days prior to index date, 5) only prescriptions in the 91-365 days prior to index date with no exposure (past exposure only), and 6) no exposure in the past year. Intensity of therapy during most recent 30 days prior to event index was considered as: 1) high, 2) low or moderate, or 3) none. AHA guidelines¹²⁷ defined high intensity as Atorvastatin $\geq 40\text{mg/d}$ or Rosuvastatin $\geq 20\text{mg/d}$. Statins (Hydroxymethylglutaryl-CoA Reductase Inhibitors) include: atorvastatin (Lipitor), cerivastatin (Baycol), Fluvastatin (Fluindostatin, Lescol), lovastatin (Altacor, Mevinolin, Mevacor), pitavastatin (Livalo, Zypitamag, Nikita), pravastatin (Pravachol, Lipostat), rosuvastatin (Crestor), simvastatin (Zocor), baycol, mevastatin (Compactin), and combination drugs. National Drug Codes (NDCs) from Red Book¹²⁴ were used to identify formulations to assist in classifying exposure by intensity of statin therapy. NDCs are listed in **Appendix Table A**.

STATISTICAL ANALYSIS

In order to assess whether statins and/or HT were associated with VTE in this dataset, main and interactive effects of each exposure were estimated using crude and adjusted odds ratios (ORs) with 95% confidence intervals. While loose match data may be analyzed with unconditional regression,⁵⁹ we opted to utilize

conditional logistic regression for main analyses, consistent with previous studies.^{35,60,112} Covariates were coded as present or absent based on ICD-9 and/or ICD-10 codes within one year from events/index date (and no less than one day prior), unless otherwise specified below. Region, age, history of any cancer (except non-melanoma skin cancer, as identified in Elixhauser set^{128,129}), history of hospitalization (30-day history from index) or surgery (30-day history from index), history of prothrombotic condition or history of thrombosis (ICD-9: 289.81, 298.82, 270.4, 238.4, 286.x, 287.1, 287.3-287.5, 289.84, 289.94, 451.83, 451.84, 451.89, 325.0, 437.6, 453.0, 452.x, 453.x; ICD-10: D68.5 - D68.6, D53.0, E72.11, D65-D68.x, D69.1, D69.3-D69.6, D75.82, I82.x, I80.8, I63.6, G08, I67.6, I63.6, I82.0, I81, I82.2, I82.3, I82.8, I82.9) fracture (30-day history from index; ICD-9: 800 – 829; ICD-10: S00-S99) or trauma (30-day history from index; ICD-9: 830 – 939, 950-959; ICD-10: T07, T14-T19), smoking (ICD-9: v15.82, 305.1, 649.x, 989.84; ICD-10: Z72.0, Z87.891, F17.x, O99.33x, T65.2x, Z71.6), and varicose veins (ICD-9: 454.x; ICD-10: I86.8) were included as risk factors for consideration.^{113,130–132} Further, cardiovascular disease risk factors likely to be HT contraindications were assessed. Coronary artery disease (ICD-9: 410.x, 411.x, 412.x, 413.x, 414.x, 429.2, 429.7x, 429.8, 429.9; ICD-10: I20.x, I21.x, I22.x, I23.x, I24.x, I25.x, Z98.61, Z95.1, Z95.5) and stroke (ICD-9: 433, 434, 435, 436; ICD-10: I63.x, I64, I65, I66, I69.3, I69.4 G45, G46) were examined as possible covariates. Lipid disorders (ICD-9: 272.0-272.4; ICD-10: E78.0-E78.5) were also included, given they are highly associated with statin therapy. Finally, the Elixhauser set of 31 comorbidities (after extracting conditions known to be highly associated with

VTE) was employed as a marker for general health status.^{128,129,133} This list contains important, chronic conditions such as congestive heart failure, obesity, liver disease, and more. The Elixhauser comorbidity list has been validated for predicting risk of serious illness and hospitalization.¹³⁴ In turn, use of the Elixhauser list aids in control for diseases likely to be associated with outcomes like VTE. The full list of comorbidities is demonstrated in **Appendix Table B**.

Some adjustments were made to the Elixhauser set to maximize its use for this study. Rather than utilize all 31 comorbidities in a single score, some conditions were extracted prior to analysis. Because cancer diagnoses — lymphoma and general cancer diagnoses, including metastatic and non-metastatic codes — and hypercoagulability diagnoses are contained in Elixhauser and are known to be strong VTE risk factors, these were retained separately. Cancer was considered as one, nominal variable prior to analysis: no cancer (0), cancer without metastasis (1), or metastatic cancer (2). Additionally, several analyses explored possible reductions in the Elixhauser set in order to minimize the number of variables (and thus small cell sizes) when attempting to control for health status in multivariable models.

The combined effect of statin therapy and HT was of chief interest in this study. In order to assess whether statin therapy might mitigate the excess VTE odds from HT, models were constructed for testing 1) the main effect of HT, 2) the main effect of statins, and 3) both the main and interactive effects of HT and statins (replicating Fournier et al.).³⁵

RESULTS

Sample Characteristics

There were 22.9 million women identified as having at least one year of continuous enrollment within the OPTUM database, of whom 74,600 (0.33%) had a first, acute VTE with 12 months of prior enrollment, and 22,380,610 were eligible controls (no acute VTE diagnoses from 2008-2019) for matching (see **Figure 1**). After criteria were applied, 27,490 cases remained (definite cases). Ultimately, 64% (20,359) of cases were PEs (with or without DVT), and 46% (n=9,364) were DVTs without a PE code. There was a 100% matching success rate for women in the control group (n=203,590), with controls matching exactly on index dates. Women were approximately distributed in thirds by age, with women aged 50-55 comprising 34.7% of the sample, 56-60 as 33.6% of the sample, and women 61-65 comprising 31.7% of the sample (see **Table 1**).

Elixhauser Comorbidities

In order to reduce the Elixhauser set of comorbidities, several analytic strategies were tried. First, a simple sum or count of all 27 comorbidities was tried. Of the 27 comorbidities, patients overall ranged from having 0-19 comorbidities from the Elixhauser comorbidity list with a mean 3.60 +/- 3.08 comorbidities for cases, and 1.55 +/- 1.90 for controls. Dividing the total score into terciles as 0 (35.18%), 1-2 (39.32%), and 3+ (25.49%) comorbidities indicated 55.94% of cases and 22.45% of controls had three or more comorbidities.

Second, I attempted to reduce the list prior to summing by considering all 27 comorbidities in a model predicting VTE (controlling for age and region).

Backwards selection using AIC reduction identified 20 comorbidities as significant ($p < 0.0001$). Dropped comorbidities included HIV/AIDS, uncomplicated and complicated diabetes, hypothyroidism, complicated hypertension, drug abuse, alcohol abuse, and peptic ulcer disease. Women had a mean score of 1.35 +/- 1.73 using this condensed set of comorbidities: 48.39% of cases had 3+ comorbidities and 15.14% of controls had 3+ comorbidities.

Third, I attempted to reduce the set of comorbidities with principal components analysis. The Principal Components Analysis reduced the 27 comorbidities into six factors with eigenvalues greater than one, however the ratio of the first to second eigenvalue (see **Figure 2**, Scree Plot) suggested a single factor solution.

Since results from the second step indicated that several comorbidities could be dropped without loss of information and the third step indicated that the comorbidities could be represented with a single index, an index based on a simple sum of all comorbidities was chosen. However, the summed index divided into terciles was retained for use in further multivariable models assessing odds of VTE as it retained important information on participants' general health status while minimizing the number of cells.

VTE and Cardiovascular Risk Factor Assessment

After definition of an Elixhauser comorbidity index, I assessed whether other known risk factors (while adjusting for the Elixhauser score, region, and age) predicted VTE. Risk factors with low prevalence were combined where possible to

minimize small cell sizes. I collapsed coagulopathy conditions with other hypercoagulability diagnostic codes as one factor (prevalence 2.14%). Further, greater than 50% of surgeries included a hospitalization; therefore, hospitalization and surgery were also combined into a single factor (prevalence 4.83%).

Each known risk factor for VTE was associated with significantly increased odds of VTE for both crude and adjusted analyses (**Table 3**). In the multivariable analysis, women who had a prior hospitalization or surgery in the past year (OR=8.53, 95% CI: 8.10, 8.97), metastatic cancer (OR=12.99, 95% CI: 12.03, 14.03), or trauma (OR=3.52, 95% CI: 3.32, 3.73) were at highest odds of VTE in the adjusted models. The Elixhauser comorbidity score remained a significant predictor of VTE after controlling for all risk factors (OR=3.81, 95% CI: 3.61, 4.02 for women with 3+ comorbidities versus no comorbidities). While cases were matched to controls on age +/- two years, the tercile of age (50-55, 56-60, and 61-65) was still significantly associated with VTE. This was due to residual confounding, as age is known to be a strong risk factor for VTE. Adjusting for age as a continuous variable did not meaningfully change parameter estimates (see **Appendix Table C**), suggesting that a tercile approach was sufficient.

Any Hormone Exposure

I now aimed to assess odds of VTE with HT using all factors in **Table 2**. There were 2,130 (10.46%) cases exposed to any HT, and 17,428 (8.56%) controls exposed to any HT during the previous year (crude OR=1.25, 95% CI: 1.19, 1.31). The odds of VTE were not significantly different between those who

had past HT exposures (91-365 days; OR=0.94, 95% CI: 0.83, 1.06) or those exposed 61-90 days (OR=0.90, 95% CI: 0.68, 1.19) when compared to no exposure. However, there were increased odds of VTE among those who had either current (0-30 days; OR=1.53, 95% CI: 1.45, 1.62) or recent (31-60 days; OR=1.22, 95% CI: 0.99, 1.50) exposure (see **Table 3a** for all five categories). Odds of VTE were 26% significantly greater in women last exposed to HT 0-30 days when compared to exposures at 31-60 days (OR=1.26, 95% CI: 1.02, 1.56; **Table 3b**) and women who were exposed to HT from 31-60 days prior to index were at 35% increased odds of VTE compared to women last exposed 61-90 days prior to index (OR=1.35, 95% CI: 0.95, 1.91). Thus, because odds diminished within two months after discontinuation, we define current exposure as those exposed to HT within 0-60 days of the index date or who discontinued within two months of the index date. This category captures women at highest odds and inclusion of those who had discontinued within two months did not appreciably lower that risk. Women who had been exposed more remotely than 60 days were no different in VTE odds than unexposed women. Therefore, for further analyses, HT exposure was defined as within 60 days prior to index versus past/none. There were 19,558 women exposed to any HT within 60 days prior to event were at 51% greater odds of VTE than women previously or never exposed to HT (OR=1.51, 95% CI: 1.43, 1.59; see **Table 4, Model 1**).

In order to assess types of HT and their routes of administration on odds of VTE, the route of administration was defined by the most recent route of estrogen administration, consistent with previous studies.^{35,60} Although women exposed to

any HT had 51% significantly higher VTE odds compared to past/no use in the past year, odds were 33% significantly higher for women exposed to unopposed oral estrogen (OR=1.33, 95% CI: 1.22, 1.46) and 40% higher with estrogen-progestogen combination oral therapy (OR=1.40, 95% CI: 1.23, 1.58). Contraceptives (which contain both estrogen and progestogen) had an extremely high OR (OR=5.20, 95% CI: 4.65, 5.81; **Table 4, Model 2**). Progestogen-only regimens were associated with increased odds of VTE (OR=1.48, 95% CI: 1.24, 1.78). Estrogen-testosterone therapy (with or without progestogen), however, was associated with a significant, 51% reduction in odds of VTE (OR=0.49, 95% CI: 0.34, 0.71).

Statin Exposure

I now aimed to assess the main effect of statin therapy on VTE when controlling for all factors in Table 3. In the sample, 5,924 cases (25%) and 47,883 (24%) of controls filled at least one statin prescription. Of all those exposed, the majority (n=41,878) were exposed to statin therapy in the 30 days prior to event, but had also been continuously exposed to statins for greater than 90 days (n=36,238, 86% of all women exposed within the previous 30 days). Because women exposed to statins within the past 30 days predominately had been prescribed a statin for at least 90 days and RCT evidence was suggestive of a duration-dependent effect,³ I analyzed statin exposure by duration of therapy rather than by recency.

Statin Exposure was defined by assessment of homogeneity of odds across different times and duration of therapy.¹²³ Patients who filled three prescriptions (90 days) of statin therapy plus exposure in the 91-365 days prior to index were at 11% lower odds of VTE than those who had never been exposed (OR=0.89, 95% CI: 0.85, 0.94; n=35,361, **Table 5a**). Those who had three prescriptions but no prior exposure to statins (n=877) were at non-significantly reduced odds of VTE than controls (OR=0.95, 95% CI: 0.74, 1.21), and women who only had past (91-365 days) exposure to statins were not different from unexposed women in VTE odds (OR=1.05, 95% CI: 0.96, 1.15; **Table 5a**). Women with two prescriptions in the last 90 days (OR=0.96, 95% CI: 0.87, 1.06) were not different from unexposed, whereas women with one prescription within the last 90 days (OR=1.15, 95% CI: 1.03, 1.30) were at increased odds of VTE when compared to unexposed women (**Table 5a**). Homogeneity testing between groups (**Table 5b**) indicated that adjacent groups were not significantly different from one another, with the exception of women who filled one prescription of statin therapy within 90 days of index. Women with one statin prescription within 90 days of index were not significantly different from women with exposure 91-365 days prior to index (OR=1.10, 95% CI: 0.96, 1.27), but women given two prescriptions for statin therapy within 90 days of index were at 17% lower odds of VTE than those given one prescription (OR=0.83, 95% CI: 0.72, 0.96). Women given three statin prescriptions in the 90 days prior to index were not at different odds than women receiving only two prescriptions within 90 days of index (OR=0.99, 95% CI: 0.76, 1.28) and those with only two prescriptions (OR=1.08, 95% CI: 0.97, 1.19) were

not different. Women with three prescriptions were at increased, but not different, odds of VTE than those with greater than three statin prescriptions in the past year (OR=1.06, 95% CI: 0.83, 1.36).

While those with two statin prescriptions within 90 days of index were apparently at lower odds of VTE than women with one statin prescription within 90 days of index, neither group was at different odds of VTE than non-exposed women. Further, some women were not currently exposed to statins within this group (i.e., prescribed statins 31-90 days prior to index date but did not have a prescription within 30 days of index). Thus, all women with less than 90 consecutive days of filled statin prescriptions prior to index were considered homogenous with no exposure, and women with 90 days or more exposure were considered exposed. Collapsing statin exposure to three prescriptions or more of continuous therapy was associated with 11% decreased odds of VTE (OR=0.89, 0.85, 0.94) when compared to unexposed. All others who were statin exposed remotely or for less duration did not have reductions in odds of VTE compared to unexposed.

Intensity of exposure was assessed to see whether there was a dose-dependent effect of statins on VTE odds reductions. Because intensity of therapy may have changed over time, the most recent exposure (last 30 days) among women exposed continuously for the past 90+ days was used for this analysis. Among those continuously exposed to statins within the previous 90+ days, there were 733 (19.72%) cases and 5645 (17.36%) controls taking high-intensity statins. Women taking low or moderate intensity statins in the 30 days prior to index date

were at 10% lower odds of VTE (OR=0.90, 95% CI: 0.86, 0.95) compared to women who had less or no exposure (**Table 4, Model 4**). Women taking high intensity statins, compared to those with less/no exposure were at 18% reduced odds of VTE (OR=0.82, 95% CI: 0.74, 0.90). Likewise, women taking low/moderate intensity statins were at 24% higher odds of VTE than those taking high-intensity statins (OR=1.24, 95% CI: 0.86, 1.78).

HT and Statin Main and Interactive Effects

The final remaining analysis was to assess the main and interactive effects of HT and statins. First, a main effects model with HT and statins (when considered together and adjusted for risk factors; **Table 4, Model 5**) was constructed. Second, a model containing an interaction term (**Table 4, Model 6**) was constructed. To remain consistent for these analyses, HT was defined as any exposure within the previous 60 days prior to index and statin therapy was defined by duration of therapy (three or more 30-day statin prescriptions in the past year, including 90 continuous days of statin prescriptions prior to index date, versus less/no exposure). Women exposed to HT were at 51% increased odds of VTE when compared to currently unexposed women (OR=1.51, 95% CI: 1.43, 1.60) even when controlling for statin exposure. Likewise, statin exposure was associated with a 12% odds reduction (OR=0.88, 95% CI: 0.84, 0.93) when controlling for HT exposure. The interaction was not significant (OR=0.91, 95% CI: 0.77, 1.06, p-interaction=0.23; **Table 4, Model 6**).

There were multiple, pre-planned sub-analyses (see **Table 6**) performed to assess whether results were stable across sub-groups. The first sub-analysis focused on the subsample without cancer or hypercoagulability conditions. Cancer and hypercoagulability were associated with HT, statin therapy, and VTE, meeting criteria as possible confounders. Women without cancer or hypercoagulability diagnoses who were exposed to any HT were at 64% greater odds of VTE than HT-unexposed women (OR=1.64, 95% CI: 1.57, 1.70; **Table 6, Model 2**), somewhat higher than full sample estimates (**Table 6, Model 1**). Statin therapy's effect was approximately the same (OR=0.93, 95% CI: 0.87, 0.99; **Table 6, Model 2**) as in the full sample (**Table 6, Model 1**). The statin and HT interaction, however, was borderline after eliminating those with cancer or hypercoagulable conditions (OR=0.84, 95% CI: 0.68, 0.999, p-interaction=0.03).

A second sub-analysis assessed whether results differed among healthier women compared to women with a greater number of health complications. Stratifying women by the number of Elixhauser comorbidities (zero or one Elixhauser comorbidities versus two or more) indicated that women who had higher scores were less likely to be prescribed HT but more likely to be prescribed statins. Among women with comorbidity scores of zero to one (**Table 6, Model 3**), the odds of VTE with any HT exposure were 88% higher than past/no exposure (OR=1.88, 95% CI: 1.80, 1.97) and higher than in the full sample (**Table 6, Model 1**). Women with comorbidity scores of two or more who took any HT were at greater odds of VTE than past/unexposed women (OR=1.27, 95% CI: 1.22, 1.33; **Table 6, Model 4**) but lower than the full sample. Thus, while the effect of statins and the

possible interaction of statins and HT stayed stable across models (**Table 6, Models 1-4**), the effect of HT varied. Descriptive measures, however, showed that women who had fewer comorbidities (less than two) were much more likely to be prescribed contraceptives. Given that contraceptives were associated with the strongest odds of VTE, this likely accounts for the disparities across groups. When type of HT exposure is broken down by the Elixhauser score (< 2 versus ≥ 2), 75% of contraceptive users were in the healthier group and 25% were in the sicker group (see **Appendix Table D**).

Thus, the significance of an HT/statin interaction was questionable, and findings varied by sub-analysis group. To assess whether interactions might be meaningful by type of HT and statin exposure, and then by statin *intensity*, a third sub-analysis was performed where women were categorized by their type (unopposed estrogen, estrogen and progestogen, contraceptive, or other) and route (oral versus other) of HT, and exposure to statins of varying intensity (discontinuous/none, low/moderate, or high). Because statin intensity may have varied over time, the most recent exposure (within the 30 days prior to index date) was used and women must have filled prescriptions for at least 90 consecutive days prior to index to be considered exposed. The reference group for these models are women with less/no statin exposure and no current HT exposure. First, we estimated the joint effects of any statin and any current HT when compared to less/no statin or HT (see **Table 7, Model 1**). While taking any statin was associated with lower odds of VTE when compared to women less exposed to statins and HT (OR=0.89, 95% CI: 0.85, 0.94), it was also associated with lower odds of VTE in

the presence of current HT exposure (OR=1.25, 95% CI: 1.10, 1.43). This was significantly different than women taking HT alone (OR=1.53, 95% CI: 1.44, 1.63). Then, we estimated the effects of statin therapy by type of HT type and with varying statin intensities. **Model 2 IN Table 7** the effects of varying HT types in women less exposed (< 3 months continuous exposure prior to index) versus more exposed (\geq 3 months continuous exposure prior to index), respectively. Women who were less exposed to statins taking any HT currently were at 54% increased odds of VTE (OR=1.54, 95% CI: 1.45, 1.64; **Model 2a**), whereas women who were continuously exposed to statins and taking any current HT were at comparatively lower odds (OR=1.25, 95% CI: 1.10, 1.43; **Model 2b**). However, women continuously exposed to statins who were also taking unopposed estrogen (OR=1.38, 95% CI: 1.13, 1.69) or estrogen/progestogen (OR=1.54, 95% CI: 1.14, 2.09) were at *higher* odds of VTE than the women less exposed to statins (see **Table 7, Model 2b**). Odds of VTE with women continuously exposed to statins and currently exposed to contraceptive HT were at lower VTE odds (OR=3.77, 95% CI: 2.44, 5.84) compared to women with less statin exposure (OR=5.18, 95% CI: 4.62, 5.82).

Thus, findings were suggestive that statins may *increase* odds of VTE. To assess whether the effect might be confounded by the intensity of statin therapy varying by type of HT, the analysis was repeated when assessing statin exposure by intensity. The referent for this analysis, likewise, was women who were less exposed to statins and were currently unexposed to HT. It was found that women taking higher *intensities* of statins in the 30 days prior to index were generally at

lower odds of VTE when compared to women who had less statin exposure, regardless of type of HT (see **Table 7, Model 3a**). Among women unexposed to any HT, high-intensity statin therapy was associated with a 17% **reduction** in VTE odds (OR=0.83, 95% CI: 0.75, 0.94). The women who were exposed to any current HT and were exposed to high intensity statins were at 4% increased odds of VTE (OR=1.04, 0.75, 1.46), and odds of VTE in women taking unopposed estrogen and high intensity statins were **reduced** by 15% (OR=0.85, 95% CI: 0.45, 1.45). Women taking estrogen and a progestogen and a high-intensity statin, were at 29% increased odds of VTE (OR=1.29, 95% CI: 0.58, 2.87). Because the sample exposed to contraceptive HT and high intensity statins was small (n=25), it precluded meaningful interpretation of this estimate.

Continuing with the dose-response analysis, I next assessed the differences in odds of VTE in women taking low/moderate intensity statins versus those taking high intensity statins (see **Table 7, Model 3b**). Women who were exposed to statins only (no HT in the prior 60 days) were at 10% higher odds of VTE when exposed to low/moderate intensity statins when compared to those on high intensity statins (OR=1.10, 95% CI: 0.98, 1.22). Women who were exposed to any current HT and were taking low/moderate intensity statins were at 24% increased odds of VTE when compared to women taking any current HT and high intensity statins (OR=1.24, 95% CI: 0.86, 1.78). Likewise, women who were exposed to unopposed estrogen and low/moderate intensity statins were at 63% higher odds of VTE than those taking high intensity statins with unopposed estrogen (OR=1.63, 95% CI: 0.92, 2.89). Women taking estrogen and progestogen

combinations and low/moderate intensity statins were at 20% higher odds of VTE than those taking estrogen/progestogen combinations and high intensity statins (OR=1.19, 95% CI: 0.51, 2.80). As in the previous analysis, contraceptive HT and statin intensity could not be reliably assessed due to small cells. Women who were taking other forms of HT and taking low/moderate intensity statins were at lower odds of VTE than those taking other HT and high intensity statins (OR=0.87, 95% CI: 0.46, 1.66), but this analysis may be complicated by small cells and heterogenous effects of various HTs.

DISCUSSION

This is the first study in a US claims database that assess the odds of VTE in women of post-menopausal age, with or without exposure to HT and with statin exposures. As such, it provides insights into the risk profile of HT users, as they attempt to weigh the benefits of menopausal symptom relief against reported risks of VTE from large clinical trials^{29,107} and cohort studies.^{30,60} In this study of US women, aged from 50-64, we have identified significant associations between HT and VTE that confirm and expand on findings from similar European studies.^{35,60,61,135}

The primary strength of the OPTUM dataset is in the volume of women enrolled. This allows for the study of effects even when exposures or outcomes may be rare. Women who were prescribed HT were more likely to have a VTE than those unexposed. However, this effect differed by type and route of administration, which is consistent with UK studies.^{60,61} Women who took

contraceptives were at greatest odds for VTE, followed by progestogen-only, then estrogen/progestogen combinations and unopposed estrogen. Women exposed to testosterone therapy (in addition to estrogen therapy +/- progestogens) were at 51% less odds of VTE than controls, and future studies assess whether this effect is meaningful or is related to indication bias. Because there are no women on testosterone monotherapy in this sample, further exploration here is necessarily confounded by other HT.

To our knowledge, this is the first study to demonstrate the severity of the VTE association with contraceptive HT in older women. While studies have previously demonstrated this association in women who are younger,¹³⁶ the absolute rates of VTE in this population are low.⁴⁶ The absolute rate of VTE in women aged 50-65, in contrast, is very high. In a previous study, we demonstrated increasing VTE rates from 95.3 cases per 100,000 person-years in women 26-35 to 374.7 cases per 100,000 person-years in women 56-64.⁴⁶ That women taking contraceptive HT, then, are at over **400% greater** odds of VTE than controls, should greatly alarm clinicians. While more rigorous study designs are warranted for assessing the absolute risk of VTE with contraceptive HT, significant caution should be taken in continuing women on contraceptives into the sixth decade of life and beyond.

It is not clear, though, why women 50-64 are being regularly prescribed hormonal contraception in the first place. The American College of Obstetricians and Gynecology (ACOG) currently recommends that women be counseled on the individual risks and benefits of HT for them,¹³⁷ but only prior VTE and smoking are

considered significant contraindications. It seems likely that many women prescribed hormonal contraception in this study — if using it for perimenopausal relief — should have been transitioned to HT formulations indicated for such. Because suppression of ovulation is predominant in women taking contraceptive HT¹³⁸, its use precludes a diagnosis of menopause.¹³⁹ Clinicians evaluating use of contraceptive HT in women nearing menopausal age, in light of this study, should consider other forms of contraception (i.e., vasectomy), where appropriate. This is especially true where women have known risk factors for VTE.

While it was demonstrated that HT of any kind significantly increases odds of VTE, women who were prescribed statins for 90 days or more of continuously were at reduced odds of VTE – in the presence or absence of HT. There was not strong evidence for an interactive effect, as the effect of statin therapy did not appear to change with HT exposure. However, this study is highly suggestive that the effect of statin therapy is both dose- and duration-dependent. Women exposed to less than 90 continuous days of statin therapy prior to index date were not at significantly different odds of VTE compared to women who were completely unexposed to statin therapy. In the most common forms of menopausal HT — as seen with “Any current HT” exposure, unopposed estrogen therapy, and estrogen/progestogen combination therapy — there was an observed reduction in odds with higher intensity of statin therapy. The previous meta-analysis²⁶ of RCTs and observational studies assessed odds of VTE by dose of atorvastatin and rosuvastatin (defining “high intensity” as ≥ 20 mg of either drug), but risk estimates

were not different across these groups. Future analyses will assess the association of statin therapy and VTE with increasing durations of exposure.

While the overall effect size is smaller than the estimates previously demonstrated in cohort and case-control studies (approximately a 25% reduction, on average),²⁶ our estimate resembles effect sizes generated from RCTs (meta-RR=0.85, 95% CI: 0.75, 0.99 in 23 RCTs of 118,000 patients). There are numerous explanations for the discrepancy between our study's findings and other observational studies. Foremost, RCT evidence is suggestive that statins' effect on VTE becomes significant after approximately one year of exposure.³ Women in these observational studies were routinely exposed to statins for greater than one year, and therefore may demonstrate a larger cumulative effect. It is also possible the women included in previous observational studies may be more adherent to their statin therapy, or that prescribing patterns of statin therapy in Europe differed meaningfully from the present study. Women globally are less likely to be prescribed statin therapy (or high-intensity statin therapy) than men when controlling for risk factors¹⁴⁰ and comorbidities.¹⁴¹ In a meta-analysis of cohort studies and RCTs, approximately 53% of women who were prescribed statins were non-adherent, and that odds of non-adherence measured by self-report exceeded that of those by pharmacy claims.¹⁴² Thus, it is likely some women in this study filled statin prescriptions but did not take them; the most likely group represented by this issue were women who had just one prescription within the 90 days prior to index. This may partially explain why these women were at higher odds of VTE than those who had filled two statin prescriptions in the 90 days before the index

date. We mitigated this risk of bias by requiring at least 90 days of statin prescriptions to be counted as exposed, as women repeatedly filling are less likely to be non-adherent. Because some of the women who filled one to two 30-day prescriptions were, at least, partially exposed to statins, this likely diluted the estimated effect of statins on VTE in this study. Future studies should categorize women as exposed (at least one year of continuous statin exposure), partially exposed (less than one year of continuous statin exposure), or unexposed (no exposure in the past year) to estimate the true effect.

The pre-planned sub-analyses — 1) excluding cancer/hypercoagulable patients, and 2) stratifying by Elixhauser scores — largely did not change interpretation. While point estimates for statin therapy and the statin-HT interaction by Elixhauser score were stable across the models (full sample and stratified analyses), the odds of VTE given HT exposure increased in healthier subsamples. The odds of VTE with HT were increased 53% in the general population (full sample) and were increased 64% in those who were without cancer and hypercoagulable conditions. Statin therapy effects remained stable when excluding these groups. Women who had greater numbers of comorbidities (at least two comorbidities within the Elixhauser score) were less likely to be prescribed HT than those with fewer comorbidities. Further, those who had greater comorbidities were less likely to receive contraceptive therapy, which are much higher in dose and thereby confer greater risk of VTE. While point estimates for statin therapy and the statin-HT interaction by Elixhauser score were stable across the models (full sample and stratified analyses), the odds of VTE given HT

exposure greatly differed across comorbidity scores. While controlling for Elixhauser scores mitigated bias from this effect, models should be interpreted with knowledge that the majority of excess odds increases may be attributed to the association between VTE and contraceptive HT.

Findings in this study are suggestive that statins may have an anti-thrombotic properties even when combined with HT exposure. While results were inconsistent as cells became smaller, higher intensities of statin exposure were associated with decreased odds of VTE. Given the excellent safety profile and price of statin therapy,^{44,143} it seems prudent to consider prescribing high-intensity statins liberally in the setting of HT. While we did not find strong evidence for interactive effects of HT and statins, it appears clear that statins have, at least, a subtractive effect on VTE in the setting of HT. Whether this effect varies by type of HT must be further analyzed.

Limitations

There are several important limitations to this study. Most importantly, this study is a case-control design in an administrative claims database and contains all the inherent biases of a secondary, observational dataset. We attempt to limit selection bias in two ways in this study. First, we employed a strict case definition. Whereas others^{35,60,61,112} utilized “probable” cases of VTE in their primary analyses, we only include cases that had 1) both an ICD-9 or ICD-10 code and 2) a confirmatory event, post-event (i.e., hospitalization, death, or anticoagulant prescription within 30 days of event). Probable cases would have comprised

approximately two-thirds of our cases, had they been included. While the positive predictive value of probable cases had been well-described in the CPRD database,⁶¹ it is unclear how reliable this definition would be in a US claims database. While this decreased our available sample for analysis, it limits the likelihood that a person identified as a case in this study did not truly have a VTE, improving reliability of the effect estimates generated. Second, we limited persons with at least one year of claims data prior to the index date. This allowed for exclusion of those with prior VTEs or anticoagulants) that would alter the likelihood of becoming a case (in line with previous studies' methods^{35,60,144}) and also increases the likelihood that important risk factors or comorbidities would be detected.¹²⁰

Confounding by indication is an important consideration in claims data – patients who are prescribed HT may be more (or less) likely to be prescribed the drug based on their comorbidity profile, which in turn affects risk of VTE. Likewise, there may be competing indication biases with statin therapy (i.e., coronary artery disease is a contraindication for HT but an indication for statin therapy). While controlling for health status (via Elixhauser) as a covariate mitigates the majority of bias (whatever the source) that is introduced by this issue, matching or excluding by comorbidity diagnoses would help ensure that the effect of HT on VTE is better isolated. However, the purpose of this study was to evaluate HT on VTE in the 'real world' – excluding or matching by cancer would limit the external validity of the study to the US population. Sub-analyses excluding women with cancer or

hypercoagulable conditions did not change interpretation of findings, though VTE odds estimates for HT and statin therapy slightly changed.

CONCLUSION

This study provides strong evidence that, while HT is significantly associated with VTE, statins may reduce those odds – particularly in women taking contraceptive HT. A prospective cohort study of women taking both statins and HT may be warranted to elucidate the magnitude of excess risk for thromboembolism in this population. Statins, particularly high-intensity statins, may mitigate thromboembolic events in menopausal women and may represent a cost-effective, safe solution to providing HT to women for whom VTE risk is concerning.

Table 1. Case and Control Balance Characteristics.

| Variable | VTE Cases (n=20,359) | Comparators (n=203,590) |
|----------------------------|-----------------------------|--------------------------------|
| Date VTE (index yr) | | |
| 2007-2010 | 24.32% (4951) | 24.32% (49510) |
| 2011-2014 | 33.14% (6747) | 33.14% (67470) |
| 2015-2019 | 42.54% (8661) | 42.54% (86610) |
| Age | | |
| 50-55 | 33.35% (6789) | 34.84% (70927) |
| 55-60 | 34.80% (7084) | 33.52% (68237) |
| 61-65 | 31.86% (6486) | 31.64% (64426) |
| Region | | |
| Northeast | 8.28% (1686) | 8.85% (18010) |
| Midwest | 27.81% (5661) | 25.55% (52021) |
| South | 43.77% (8912) | 44.77% (91138) |
| West | 19.98% (4067) | 20.11% (40947) |
| Unknown | 0.16% (33) | 0.72% (1474) |
| PE (+/- DVT) | 54.01% (10995) | -- |
| DVT (NO PE) | 45.99% (9364) | |
| Within 30d of VTE: | | |
| Anticoagulant | 89.37% (18194) | -- |
| IVC filter | 12.00% (2444) | |
| Died | 5.88% (1197) | |

Table 2. Elixhauser, Cardiovascular, and Thromboembolic Risk Factors on VTE

| Variable | Crude OR (95% CI) | Adj. OR: VTE & CVD Risks* (95% CI) |
|-----------------------|----------------------|--|
| Age | | |
| 50-55 (ref) | 1 | 1 |
| 56-60 | 1.09 (1.05, 1.12) | 1.31 (1.21, 1.42) |
| 61-65 | 1.05 (1.02, 1.09) | 1.32 (1.18, 1.47) |
| EH Comorbid | | |
| None (ref) | 1 | 1 |
| 1-2 | 2.03 (1.94, 2.13) | 1.70 (1.62, 1.79) |
| 3+ | 6.73 (6.45, 7.03) | 3.81 (3.61, 4.02) |
| Cancer | | |
| None (ref) | 1 | 1 |
| Non-metastatic | 2.96 (2.82, 3.10) | 2.01 (1.90, 2.14) |
| Metastatic | 24.09 (22.62, 25.65) | 12.99 (12.03, 14.03) |
| Hospital/Surg | 18.44 (17.68, 19.22) | 8.53 (8.10, 8.97) |
| Trauma | 5.80 (5.53, 6.07) | 3.52 (3.32, 3.73) |
| Varicose Veins | 3.17 (2.87, 3.49) | 2.88 (2.57, 3.23) |
| Any hypercoag | 9.73 (9.17, 10.32) | 3.07 (2.83, 3.32) |
| CAD | 3.09 (2.95, 3.23) | 1.26 (1.19, 1.34) |
| Stroke | 3.22 (3.04, 3.42) | 1.18 (1.09, 1.28) |
| Lipid | 1.44 (1.40, 1.48) | 0.84 (0.81, 0.87) |
| Smoking | 2.88 (2.78, 2.99) | 1.28 (1.22, 1.34) |

*Also adjusted for region.

Table 3a. Recency of HT Exposure.

| Exposure | Cases (n=20359) | Controls (n=203590) | Adj. OR* (95% CI) | HT Exposure (Binary)** |
|-----------------------|--------------------|------------------------|----------------------|----------------------------|
| None | 87.09% (181167) | 88.99% (17730) | 1.0 (ref) | 1.0 (ref) |
| 0-30d | 9.74% (1983) | 7.99% (16276) | 1.53 (1.45, 1.62) | (0-60) 1.51 (1.43,1.60) |
| 31-60d | 0.72% (147) | 0.57% (1152) | 1.22 (0.99, 1.50) | X |
| 61-90d | 0.38% (78) | 0.39% (802) | 0.90 (0.68, 1.19) | X |
| Past (91-365d) | 2.07% (421) | 2.06% (4193) | 0.94 (0.83, 1.06) | X |

*Reference category is no exposure in past year. Adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, or smoking history.

**Reference category is past or no HT exposure.

Table 3b. Between-Group Comparisons, HT Recency.

| Exposure | Adj. OR* (95% CI) |
|-------------------------|----------------------|
| 0-30d v 31-60d | 1.26 (1.02-1.56) |
| 31-60d v 61-90d | 1.35 (0.95, 1.91) |
| 61-90d v 91-365d | 0.96 (0.71, 1.30) |

*Adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, or smoking history.

Table 4. Models Assessing HT, Statins: Main and Interactive Effects

| VARIABLE* | N | Model 1 (Binary HT) | Model 2 (Expanded HT) | Model 3 Binary Statin | Model 4 Statin Intensity | Model 5 Main Effects, Statin and HT | Model 6 Main and Interactive Effects |
|---------------------------------|--------------|---------------------|-----------------------|-----------------------|--------------------------|-------------------------------------|--------------------------------------|
| Statin/HT Interaction | 3208** | | | | | | 0.91 (0.77, 1.06) |
| Past/No HT in past year | 204391 | 1.00 (ref) | 1.00 (ref) | | | 1.00 (ref) | |
| Any HT (0-60d) | 19558 | 1.51 (1.43, 1.59) | | | | 1.51 (1.43, 1.60) | 1.53 (1.47, 1.59) |
| Estrogen only | 9632 | | | | | | |
| Oral | 6638 | | 1.33 (1.22, 1.46) | | | | |
| Transdermal | 2885 | | 0.70 (0.59, 0.84) | | | | |
| Vaginal | 90 | | 1.05 (0.44, 2.48) | | | | |
| Est+Progest | 7655 | | | | | | |
| Est+Progest HT | 5180 | | | | | | |
| Oral | 3950 | | 1.40 (1.23, 1.58) | | | | |
| Transdermal | 1255 | | | | | | |
| <i>Trans E w/ Oral P</i> | 833 | | 0.68 (0.48, 0.95) | | | | |
| <i>Transdermal (EP)</i> | 379 | | 0.84 (0.53, 1.34) | | | | |
| <i>Vaginal (FemRing+P)</i> | 17 | | 0.58 (0.06, 5.49) | | | | |
| Contraceptives (E +/- P) | 2475 | | 5.20 (4.65, 5.82) | | | | |
| Est+Testost (+/-P) | 786 | | 0.49 (0.34, 0.71) | | | | |
| Progest only | 1486 | | 1.48 (1.24, 1.78) | | | | |
| Any IM (E or E+P) | 21 | | 0.39 (0.09, 1.77) | | | | |
| Less/No Statin | 187711 | | | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | |
| Statin (3+ Rx) | 36238 | | | 0.89 (0.85, 0.93) | | 0.88 (0.84, 0.93) | 0.89 (0.84, 0.94) |
| Low/Moderate | 29860 | | | | 0.90 (0.86, 0.95) | | |
| High Intensity | 6378 | | | | 0.82 (0.74, 0.90) | | |

*Adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, or smoking history.

** Indicates number exposed to both statins and HT.

Table 5a. Statin Duration of Exposure on VTE

| Full Model | Cases (n=20359) | Controls (n=203590) | Crude OR (95% CI) | Adj. OR (95% CI)* | Binary | Sample | Adj. OR (95% CI)* |
|-----------------|--------------------|------------------------|----------------------|----------------------|--------------|--------|----------------------|
| None (ref) | 70.90% (14435) | 76.48% (155707) | 1 | 1 | < 3 Rx (ref) | 187711 | 1 |
| Past Use | 4.50% (916) | 3.19% (6489) | 1.52 (1.42, 1.64) | 1.05 (0.96, 1.15) | -- | -- | -- |
| 1 Rx | 2.74% (557) | 1.67% (3395) | 1.77 (1.62, 1.94) | 1.15 (1.03, 1.30) | -- | -- | -- |
| 2 Rx | 3.61% (734) | 2.69% (5478) | 1.45 (1.34, 1.56) | 0.96 (0.87, 1.06) | -- | -- | -- |
| 3 Rx | 0.51% (104) | 0.38% (773) | 1.45 (1.18, 1.78) | 0.95 (0.74, 1.21) | -- | -- | -- |
| 3 Rx + Past Use | 17.75% (3613) | 15.59% (31748) | 1.23 (1.18, 1.28) | 0.89 (0.85, 0.94) | 3 Rx or More | 36238 | 0.89 (0.85, 0.93) |

*All women who had prior exposure (>90d) to statins prior to event were coded as past. Women with no past exposure, but new prescriptions for statins within 90d prior to event are listed by number of months' Rx prescribed prior to event (maximum of 3, 30d prescriptions). Adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, or smoking history.

Table 5b. Between-Group Comparisons, Statin Duration

| Exposure | Adj. OR* (95% CI) | Exposure | Adj. OR* (95% CI) |
|---------------|----------------------|---------------|----------------------|
| 1 Rx vs Past | 1.10 (0.96, 1.27) | >3 Rx vs 3 Rx | 1.06 (0.83, 1.36) |
| 2 Rx vs 1 Rx | 0.83 (0.72, 0.96) | >3 Rx vs 2 Rx | 1.08 (0.97, 1.19) |
| 3 Rx vs 2 Rx | 0.99 (0.76, 1.28) | >3 Rx vs 1 Rx | 1.29 (1.15, 1.45) |
| >3 Rx vs 3 Rx | 0.94 (0.74, 1.20) | >3 Rx vs Past | 1.17 (1.07, 1.29) |

*Indicates that model is adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, or smoking history.

Table 6. Pre-Planned Sub-Analysis by Predisposing Conditions and Elixhauser Score.

| VARIABLE* | N | Model 1: Full Sample | Model 2: Cancer/Hypercoag Exclusion | Model 3: Stratified EH<2 | Model 4: Stratified EH≥2 |
|----------------------------------|--------------|-----------------------------|--|------------------------------------|---------------------------------|
| Case Count | 20359 | 20359 | 13835 | 5850 | 14509 |
| Control Count | 203590 | 203590 | 190170 | 124217 | 79373 |
| Past/No HT in past year | 204391 | 1 | 1 | 1 | 1 |
| Any HT (0-60d) | 19558 | 1.53 (1.47, 1.59) | 1.64 (1.57, 1.70) | 1.88 (1.80, 1.97) | 1.27 (1.22, 1.33) |
| ≤3 mo /No Statin | 187711 | 1 | 1 | 1 | 1 |
| Statin (3mo+ Rx) | 36238 | 0.89 (0.84, 0.94) | 0.93 (0.87, 0.99) | 0.89 (0.77, 1.01) | 0.89 (0.84, 0.94) |
| Statin/Any HT Interaction | 223949 | 0.91 (0.77, 1.06) | 0.84 (0.68,1.00) | 1.08 (0.81, 1.35) | 0.97 (0.80, 1.14) |

*Indicates that model is adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, or smoking history.

Table 7: HT and Statin Intensity.

| Exposure | N (Total Sample) | Model 1: HT and ≥3 mo Any Statin* | Model 2: <3 mo Any Statin exposure (N=187711) | Model 2: ≥3 mo Any Statin exposure (N=36238) | Model 3a: ≥3 mo High Intensity Statin Exposure (N=6378) | Model 3b: ≥3 mo Low/Moderate Intensity Statins vs. High Intensity Statins |
|---|------------------------|---|---|---|--|---|
| No HT, Less Statin (Ref) | 171361 | 1 | | | | |
| Any HT Exposure Alone | 16350 | 1.53 (1.44, 1.63) | | | | |
| Statin Exposure Alone | 33030 | 0.89 (0.85, 0.94) | | | | |
| Any HT and Statin Exposure Jointly | 3208 | 1.25 (1.10, 1.43) | | | | |
| | | | | | | |
| No current HT | 171786 | | 1 | 0.89 (0.85, 0.94) | 0.81 (0.74, 0.90) | 1.09 (0.98, 1.22) |
| Current HT Exposure, Any | 15925 | | 1.54 (1.45, 1.64) | 1.25 (1.10, 1.43) | 1.04 (0.75, 1.46) | 1.24 (0.86, 1.78) |
| <i>Unopposed Estrogen</i> | 5065 | | 1.29 (1.16, 1.43) | 1.38 (1.13, 1.69) | 0.85 (0.49, 1.45) | 1.63 (0.92, 2.89) |
| <i>E+P</i> | 3253 | | 1.38 (1.20, 1.58) | 1.54 (1.14, 2.09) | 1.29 (0.58, 2.87) | 1.19 (0.51, 2.80) |
| <i>E+P Contraceptives**</i> | 2273 | | 5.18 (4.62, 5.82) | 3.77 (2.44, 5.84) | 5.62 (1.96, 16.18)** | 0.67 (0.21, 2.10)** |
| <i>Other HT</i> | 5334 | | 0.88 (0.78, 0.99) | 0.68 (0.51, 0.90) | 0.78 (0.44, 1.41) | 0.87 (0.46, 1.66) |

*Odds Ratios have been adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, and smoking history (except where noted as excluded).

**n=25 for women on both high intensity statins and E+P contraceptive; estimates cannot be reliably interpreted.

Figure 1. Flow Chart for Cohort Selection.

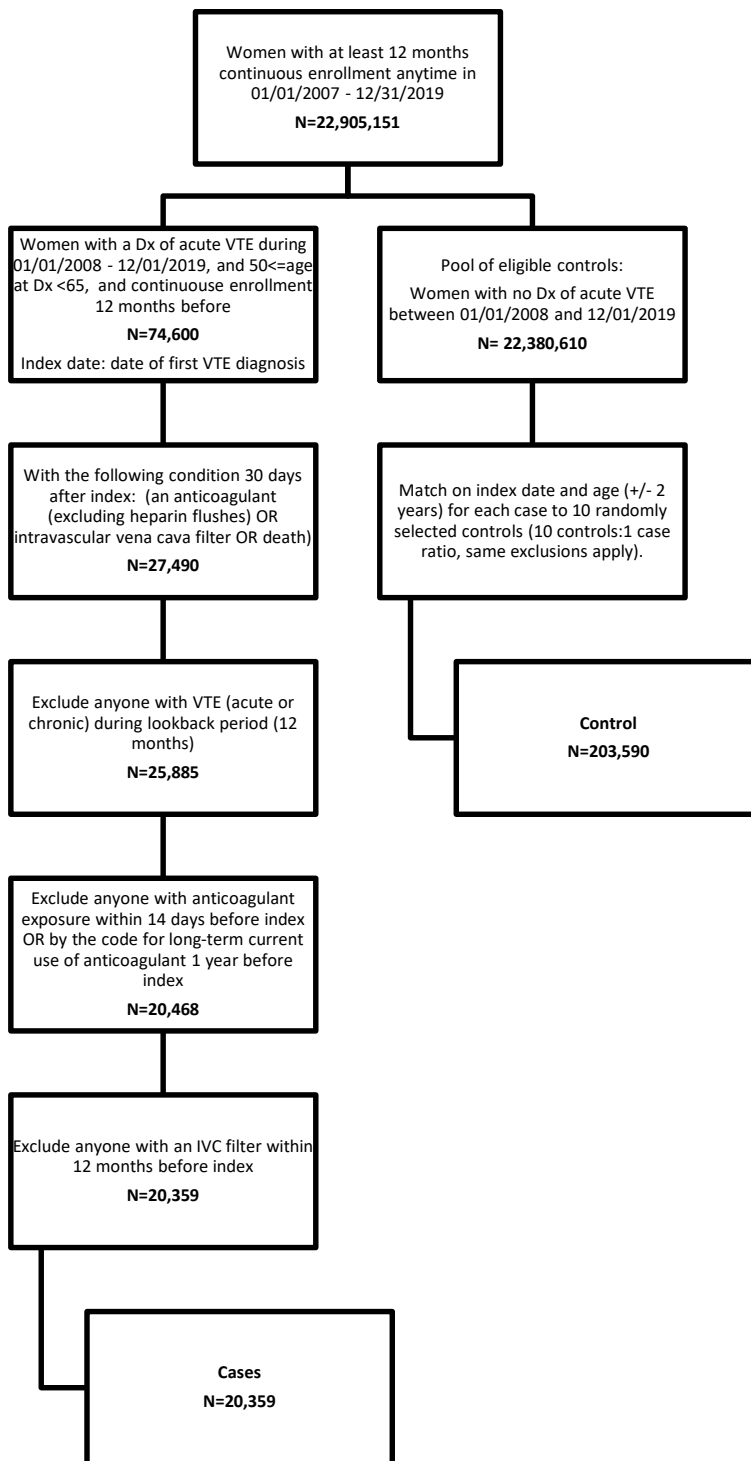
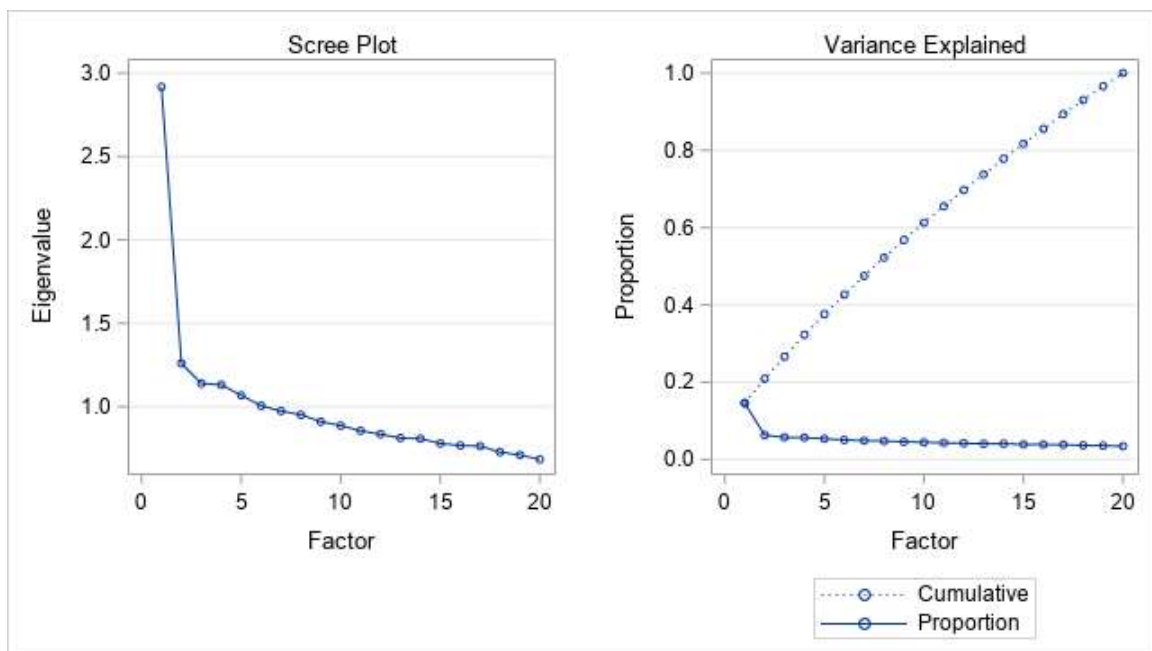


Figure 2. Scree Plot, Principal Component Analysis: Elixhauser Comorbidities.



Chapter 3: Supplementary Appendix

TABLE A: NATIONAL DRUG CODE LISTS

ESTROGENS (WITH OR WITHOUT PROGESTOGENS)

| NDC | ROUTE | NAME | Primary Indication |
|------------|-------|---------------------|--------------------|
| 00008-0078 | PO | LO/OVRAL | CONTRACEPTION |
| 00008-1117 | PO | LYBREL | CONTRACEPTION |
| 0008-2514 | KIT | LO/OVRAL-28 | CONTRACEPTION |
| 0008-2535 | KIT | TRIPHASIL-21 | CONTRACEPTION |
| 0008-2576 | KIT | ALESSE 28 | CONTRACEPTION |
| 54868-4660 | IM | LUNELLE | CONTRACEPTION |
| 0052-0261 | KIT | DESOGEN | CONTRACEPTION |
| 00052-0273 | VAG | NUVARING | CONTRACEPTION |
| 0052-0283 | KIT | CYCLESSA | CONTRACEPTION |
| 0062-1251 | KIT | ORTHO TRI CYCLEN LO | CONTRACEPTION |
| 0062-1714 | KIT | MODICON | CONTRACEPTION |
| 0062-1761 | KIT | ORTHO NOVUM | CONTRACEPTION |
| 0062-1781 | KIT | ORTHO-NOVUM | CONTRACEPTION |
| 0062-1796 | KIT | ORTHO CEPT | CONTRACEPTION |
| 0062-1907 | KIT | ORTHO CYCLEN | CONTRACEPTION |
| 0062-1910 | KIT | ORTHO TRI CYCLEN | CONTRACEPTION |
| 00062-1920 | TD | ORTHO EVRA | CONTRACEPTION |
| 0093-2090 | KIT | ZEOSA | CONTRACEPTION |
| 0093-2140 | KIT | TRI-LO-SPRINTEC | CONTRACEPTION |
| 0093-3134 | KIT | CAMRESE | CONTRACEPTION |

| | | | |
|------------|-----|--|---------------|
| 0093-5328 | KIT | JUNEL FE | CONTRACEPTION |
| 0093-5423 | KIT | GIANVI | CONTRACEPTION |
| 0093-5661 | KIT | GIANVI | CONTRACEPTION |
| 0093-6148 | KIT | CAMRESELO | CONTRACEPTION |
| 00378-3340 | TD | XULANE | CONTRACEPTION |
| 0378-6550 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7277 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 00378-7280 | PO | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7281 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7283 | KIT | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7285 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7287 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7296 | KIT | DESOGESTREL AND ETHINYL ESTRADIOL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7298 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7300 | KIT | DROSPIRENONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7301 | KIT | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 0378-7308 | KIT | NORETHINDRONE AND ETHINYL ESTRADIOL AND FERROUS FUMARATE | CONTRACEPTION |
| 0430-0005 | KIT | ESTROSTEP FE | CONTRACEPTION |
| 0430-0010 | KIT | FEMCON FE | CONTRACEPTION |
| 0430-0420 | KIT | LO LOESTRIN FE | CONTRACEPTION |
| 0430-0482 | KIT | FEMCON FE | CONTRACEPTION |
| 0430-0530 | KIT | LOESTRIN 24 FE | CONTRACEPTION |
| 0430-0535 | KIT | MINASTRIN 24 FE | CONTRACEPTION |
| 0430-0537 | KIT | LO MINASTRIN FE | CONTRACEPTION |

| | | | |
|------------|-----|--|---------------|
| 0430-0539 | KIT | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL AND FERROUS FUMARATE | CONTRACEPTION |
| 0430-0540 | KIT | MINASTRIN 24 FE | CONTRACEPTION |
| 0430-0570 | KIT | ESTROSTEP FE | CONTRACEPTION |
| 0430-0580 | KIT | OVCON 35 | CONTRACEPTION |
| 0430-0585 | KIT | OVCON 50 | CONTRACEPTION |
| 0430-0913 | KIT | LOESTRIN FE 1/20 | CONTRACEPTION |
| 00430-0915 | PO | LOESTRIN 21 1/20 | CONTRACEPTION |
| 00430-0916 | PO | LOESTRIN 21 1.5/30 | CONTRACEPTION |
| 0430-0917 | KIT | LOESTRIN FE 1.5/30 | CONTRACEPTION |
| 0555-9008 | KIT | NORTREL | CONTRACEPTION |
| 00555-9009 | PO | NORTREL | CONTRACEPTION |
| 0555-9010 | KIT | NORTREL | CONTRACEPTION |
| 0555-9012 | KIT | NORTREL 7/7/7 | CONTRACEPTION |
| 0555-9014 | KIT | LESSINA | CONTRACEPTION |
| 0555-9016 | KIT | SPRINTEC | CONTRACEPTION |
| 0555-9018 | KIT | TRI-SPRINTEC | CONTRACEPTION |
| 0555-9020 | KIT | PORTIA | CONTRACEPTION |
| 00555-9025 | PO | JUNEL 1/20 | CONTRACEPTION |
| 0555-9026 | KIT | JUNEL FE 1/20 | CONTRACEPTION |
| 00555-9027 | PO | JUNEL 1.5/30 | CONTRACEPTION |
| 0555-9028 | KIT | JUNEL FE 1.5/30 | CONTRACEPTION |
| 0555-9032 | KIT | TRI-LEGEST FE | CONTRACEPTION |
| 0555-9034 | KIT | BALZIVA | CONTRACEPTION |
| 0555-9043 | KIT | APRI | CONTRACEPTION |
| 0555-9045 | KIT | AVIANE | CONTRACEPTION |

| | | | |
|------------|-----|-------------------|---------------|
| 0555-9047 | KIT | ENPRESSE | CONTRACEPTION |
| 0555-9049 | KIT | CRYSSELLE | CONTRACEPTION |
| 0555-9050 | KIT | KARIVA | CONTRACEPTION |
| 0555-9051 | KIT | VELIVET | CONTRACEPTION |
| 0555-9064 | KIT | KELNOR 1/35 | CONTRACEPTION |
| 0555-9065 | KIT | TRI-LO-SPRINTEC | CONTRACEPTION |
| 0555-9066 | KIT | ARANELLE | CONTRACEPTION |
| 0555-9123 | KIT | JOLESSA | CONTRACEPTION |
| 0555-9131 | KIT | OCELLA | CONTRACEPTION |
| 0603-3590 | KIT | GILDAGIA | CONTRACEPTION |
| 0603-7512 | KIT | KIMIDESS | CONTRACEPTION |
| 0603-7521 | KIT | CYCLAFEM 1/35 | CONTRACEPTION |
| 0603-7525 | KIT | CYCLAFEM 7/7/7 | CONTRACEPTION |
| 0603-7540 | KIT | EMOQUETTE | CONTRACEPTION |
| 00603-7606 | PO | GILDESS 1.5/30 | CONTRACEPTION |
| 00603-7607 | PO | GILDESS 1/20 | CONTRACEPTION |
| 0603-7608 | KIT | GILDESS FE 1.5/30 | CONTRACEPTION |
| 0603-7609 | KIT | GILDESS FE 1/20 | CONTRACEPTION |
| 0603-7610 | KIT | GILDESS 24 FE | CONTRACEPTION |
| 0603-7625 | KIT | MYZILRA | CONTRACEPTION |
| 0603-7634 | KIT | ORSYTHIA | CONTRACEPTION |
| 0603-7642 | KIT | PREVIFEM | CONTRACEPTION |
| 0603-7663 | KIT | TRI-PREVIFEM | CONTRACEPTION |
| 0781-4058 | KIT | ESTARYLLA | CONTRACEPTION |
| 0781-4060 | KIT | TRI-ESTARYLLA | CONTRACEPTION |
| 0781-4062 | KIT | TRI-LO- ESTARYLLA | CONTRACEPTION |

| | | | |
|------------|-----|---|---------------|
| 0781-4075 | KIT | DROSPIRENONE/ETHINYL ESTRADIOL/LEVOMEFOLATE CALCIUM AND LEVOMEFOLATE CALCIUM | CONTRACEPTION |
| 0781-4103 | KIT | DROSPIRENONE/ETHINYL ESTRADIOL/LEVOMEFOLATE CALCIUM AND LEVOMEFOLATE CALCIUM | CONTRACEPTION |
| 0781-4110 | KIT | ESTRADIOL VALERATE AND ESTRADIOL VALERATE/DIENOGEST | CONTRACEPTION |
| 0781-5575 | KIT | VIENVA TM | CONTRACEPTION |
| 0781-5583 | KIT | ALTAVERA | CONTRACEPTION |
| 0781-5584 | KIT | INTROVALE | CONTRACEPTION |
| 0781-5656 | KIT | LORYNA | CONTRACEPTION |
| 0781-5658 | KIT | SYEDA | CONTRACEPTION |
| 12860-0018 | TD | NUVARING | CONTRACEPTION |
| 16714-340 | KIT | LEVONEST | CONTRACEPTION |
| 16714-346 | KIT | DASETTA 7/7/7 | CONTRACEPTION |
| 16714-347 | KIT | PHILITH | CONTRACEPTION |
| 16714-348 | KIT | DASETTA 1/35 | CONTRACEPTION |
| 16714-359 | KIT | FALMINA | CONTRACEPTION |
| 16714-360 | KIT | MONO-LINYAH | CONTRACEPTION |
| 16714-363 | KIT | TRI-LINYAH | CONTRACEPTION |
| 16714-365 | KIT | ELINEST | CONTRACEPTION |
| 16714-366 | KIT | SETLAKIN | CONTRACEPTION |
| 16714-367 | KIT | DESOGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 16714-370 | KIT | WERA | CONTRACEPTION |
| 16714-404 | KIT | PIMTREA | CONTRACEPTION |
| 16714-405 | KIT | LARIN FE 1.5/30 | CONTRACEPTION |
| 16714-406 | KIT | LARIN FE 1/20 | CONTRACEPTION |
| 16714-407 | KIT | LARIN 1.5/30 | CONTRACEPTION |

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| 16714-408 | KIT | LARIN 1/20 | CONTRACEPTION |
| 16714-416 | KIT | LARIN 24 FE | CONTRACEPTION |
| 16714-464 | KIT | JULEBER | CONTRACEPTION |
| 21695-407 | KIT | TRINESSA | CONTRACEPTION |
| 21695-685 | KIT | TILIA FE | CONTRACEPTION |
| 21695-769 | KIT | SPRINTEC | CONTRACEPTION |
| 21695-770 | KIT | TRI-SPRINTEC | CONTRACEPTION |
| 21695-855 | KIT | ENPRESSE | CONTRACEPTION |
| 21695-857 | KIT | NECON | CONTRACEPTION |
| 21695-995 | KIT | AVIANE | CONTRACEPTION |
| 24090-801 | KIT | LO/OVRAL-28 | CONTRACEPTION |
| 24090-961 | KIT | NORGESTREL/ETHINYL ESTRADIOL | CONTRACEPTION |
| 24896-132 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 34908-340 | KIT | LEVONEST | CONTRACEPTION |
| 34908-346 | KIT | DASETTA 7/7/7 | CONTRACEPTION |
| 34908-347 | KIT | PHILITH | CONTRACEPTION |
| 34908-348 | KIT | DASETTA 1/35 | CONTRACEPTION |
| 34908-359 | KIT | FALMINA | CONTRACEPTION |
| 34908-360 | KIT | MONO-LINYAH | CONTRACEPTION |
| 34908-363 | KIT | TRI-LINYAH | CONTRACEPTION |
| 34908-365 | KIT | ELINEST | CONTRACEPTION |
| 34908-366 | KIT | SETLAKIN | CONTRACEPTION |
| 34908-370 | KIT | WERA | CONTRACEPTION |
| 34908-404 | KIT | PIMTREA | CONTRACEPTION |
| 34908-405 | KIT | LARIN FE 1.5/30 | CONTRACEPTION |
| 34908-406 | KIT | LARIN FE 1/20 | CONTRACEPTION |

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| 34908-407 | KIT | JULEBER | CONTRACEPTION |
| 34908-408 | KIT | LARIN 1/20 | CONTRACEPTION |
| 34908-416 | KIT | LARIN 24 FE | CONTRACEPTION |
| 34908-620 | KIT | LEVONEST | CONTRACEPTION |
| 42254-242 | KIT | JUNEL FE 1.5/30 | CONTRACEPTION |
| 42254-260 | KIT | LEVORA | CONTRACEPTION |
| 42254-287 | KIT | NECON 0.5/35 | CONTRACEPTION |
| 50090-0159 | KIT | ORTHO-NOVUM | CONTRACEPTION |
| 50102-120 | KIT | AUBRA | CONTRACEPTION |
| 50102-128 | KIT | TARINA FE 1/20 | CONTRACEPTION |
| 50102-130 | KIT | CHATEAL | CONTRACEPTION |
| 50102-154 | KIT | CYRED | CONTRACEPTION |
| 50419-402 | KIT | YASMIN | CONTRACEPTION |
| 50419-403 | KIT | SAFYRAL | CONTRACEPTION |
| 50419-405 | KIT | YAZ | CONTRACEPTION |
| 50419-407 | KIT | BEYAZ | CONTRACEPTION |
| 50419-408 | KIT | LEVLITE | CONTRACEPTION |
| 50419-409 | KIT | NATAZIA | CONTRACEPTION |
| 50458-171 | KIT | MODICON | CONTRACEPTION |
| 50458-176 | KIT | ORTHO NOVUM | CONTRACEPTION |
| 50458-178 | KIT | ORTHO-NOVUM | CONTRACEPTION |
| 50458-191 | KIT | ORTHO TRI CYCLEN | CONTRACEPTION |
| 50458-0192 | TD | ORTHO EVRA | CONTRACEPTION |
| 50458-196 | KIT | ORTHO CEPT | CONTRACEPTION |
| 50458-197 | KIT | ORTHO CYCLEN | CONTRACEPTION |
| 50458-251 | KIT | ORTHO TRI CYCLEN LO | CONTRACEPTION |

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| 51285-058 | KIT | SEASONALE | CONTRACEPTION |
| 51285-0079 | PO | LOESTRIN 1/20 | CONTRACEPTION |
| 51285-080 | KIT | LOESTRIN FE 1/20 | CONTRACEPTION |
| 51285-081 | KIT | LOESTRIN FE 1/20 | CONTRACEPTION |
| 51285-0082 | PO | LOESTRIN 1.5/30 | CONTRACEPTION |
| 51285-083 | KIT | LOESTRIN FE 1.5/30 | CONTRACEPTION |
| 51285-084 | KIT | LOESTRIN FE 1.5/30 | CONTRACEPTION |
| 51285-087 | KIT | SEASONIQUE | CONTRACEPTION |
| 51285-091 | KIT | NORDETTE | CONTRACEPTION |
| 51285-092 | KIT | LOSEASONIQUE | CONTRACEPTION |
| 51285-114 | KIT | MIRCETTE | CONTRACEPTION |
| 51285-120 | KIT | MIRCETTE | CONTRACEPTION |
| 51285-125 | KIT | LOESTRIN FE 1/20 | CONTRACEPTION |
| 51285-126 | KIT | LOESTRIN FE 1/20 | CONTRACEPTION |
| 51285-0127 | PO | LOESTRIN 21 1.5/30 | CONTRACEPTION |
| 51285-128 | KIT | LOESTRIN FE 1.5/30 | CONTRACEPTION |
| 51285-129 | KIT | LOESTRIN FE 1.5/30 | CONTRACEPTION |
| 51285-0131 | PO | LOESTRIN 21 1/20 | CONTRACEPTION |
| 51285-431 | KIT | QUARTETTE | CONTRACEPTION |
| 51660-572 | KIT | DELYLA | CONTRACEPTION |
| 52544-054 | KIT | TILIA FE | CONTRACEPTION |
| 52544-064 | KIT | LAYOLIS FE | CONTRACEPTION |
| 52544-087 | KIT | TRINESSA LO | CONTRACEPTION |
| 52544-143 | KIT | TILIA FE | CONTRACEPTION |
| 52544-165 | KIT | NECON | CONTRACEPTION |

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| 52544-167 | KIT | MICROGESTIN 24 FE | CONTRACEPTION |
| 52544-175 | KIT | TILIA FE | CONTRACEPTION |
| 52544-204 | KIT | GENERESS FE | CONTRACEPTION |
| 52544-210 | KIT | ZENCHENT | CONTRACEPTION |
| 52544-219 | KIT | LEENA | CONTRACEPTION |
| 52544-228 | KIT | AMETHIA LO | CONTRACEPTION |
| 52544-233 | KIT | MICROGESTIN | CONTRACEPTION |
| 52544-247 | KIT | MONONESSA | CONTRACEPTION |
| 52544-248 | KIT | TRINESSA | CONTRACEPTION |
| 52544-249 | KIT | MICROGESTIN | CONTRACEPTION |
| 52544-254 | KIT | BREVICON | CONTRACEPTION |
| 52544-259 | KIT | NORINYL | CONTRACEPTION |
| 52544-268 | KIT | AMETHIA | CONTRACEPTION |
| 52544-274 | KIT | TRI-NORINYL | CONTRACEPTION |
| 52544-0276 | PO | MICROGESTIN | CONTRACEPTION |
| 52544-279 | KIT | LEVORA | CONTRACEPTION |
| 52544-0290 | PO | MICROGESTIN | CONTRACEPTION |
| 52544-291 | KIT | TRIVORA | CONTRACEPTION |
| 52544-292 | KIT | ZENCHENT FE | CONTRACEPTION |
| 52544-0295 | PO | AMETHYST | CONTRACEPTION |
| 52544-383 | KIT | ZOVIA 1/35E-28 | CONTRACEPTION |
| 52544-384 | KIT | ZOVIA 1/50E-28 | CONTRACEPTION |
| 52544-550 | KIT | NECON 0.5/35 | CONTRACEPTION |
| 52544-552 | KIT | NECON 1/35 | CONTRACEPTION |
| 52544-554 | KIT | NECON 10/11 | CONTRACEPTION |

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| 52544-630 | KIT | MICROGESTIN FE | CONTRACEPTION |
| 52544-631 | KIT | MICROGESTIN FE | CONTRACEPTION |
| 52544-847 | KIT | LOW-OGESTREL | CONTRACEPTION |
| 52544-848 | KIT | OGESTREL 0.5/50 | CONTRACEPTION |
| 52544-936 | KIT | NECON | CONTRACEPTION |
| 52544-940 | KIT | AZURETTE | CONTRACEPTION |
| 52544-943 | KIT | TRINESSA LO | CONTRACEPTION |
| 52544-949 | KIT | LUTERA | CONTRACEPTION |
| 52544-0950 | PO | MICROGESTIN | CONTRACEPTION |
| 52544-0951 | PO | MICROGESTIN | CONTRACEPTION |
| 52544-953 | KIT | ZENCHENT | CONTRACEPTION |
| 52544-954 | KIT | RECLIPSEN | CONTRACEPTION |
| 52544-959 | KIT | CAZIAN | CONTRACEPTION |
| 52544-966 | KIT | QUASENSE | CONTRACEPTION |
| 52544-967 | KIT | SRONYX | CONTRACEPTION |
| 52544-981 | KIT | ZARAH | CONTRACEPTION |
| 52544-982 | KIT | VESTURA | CONTRACEPTION |
| 52544-XYZ | KIT | BREVICON | CONTRACEPTION |
| 52544-ZZZ | KIT | NORINYL 1-35 | CONTRACEPTION |
| 54569-0679 | KIT | LO/OVRAL-28 | CONTRACEPTION |
| 54569-0689 | KIT | ORTHO-NOVUM | CONTRACEPTION |
| 54868-0428 | KIT | LO-OVRAL-28 | CONTRACEPTION |
| 54868-0502 | KIT | LOESTRIN FE 1.5/30 | CONTRACEPTION |
| 54868-0508 | KIT | ORTHO-NOVUM | CONTRACEPTION |
| 54868-0509 | KIT | OVCON 35 | CONTRACEPTION |
| 54868-0525 | KIT | MODICON | CONTRACEPTION |

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| 54868-1512 | KIT | LOESTRIN FE 1/20 | CONTRACEPTION |
| 54868-2316 | KIT | SEASONALE | CONTRACEPTION |
| 54868-2606 | KIT | ORTHO CYCLEN | CONTRACEPTION |
| 54868-3772 | KIT | OVCON 50 | CONTRACEPTION |
| 54868-3863 | KIT | DESOGEN | CONTRACEPTION |
| 54868-3948 | KIT | ESTROSTEP FE | CONTRACEPTION |
| 54868-4045 | KIT | NECON 1/35 | CONTRACEPTION |
| 54868-4093 | KIT | ORTHO TRI CYCLEN | CONTRACEPTION |
| 54868-4239 | KIT | TRIVORA | CONTRACEPTION |
| 54868-4240 | KIT | ZOVIA 1/35E-28 | CONTRACEPTION |
| 54868-4590 | KIT | YASMIN | CONTRACEPTION |
| 54868-4607 | KIT | LEVORA | CONTRACEPTION |
| 54868-4670 | TD | ORTHO EVRA | CONTRACEPTION |
| 54868-4730 | KIT | ORTHO TRI CYCLEN LO | CONTRACEPTION |
| 54868-4742 | KIT | KARIVA | CONTRACEPTION |
| 54868-4744 | KIT | MICROGESTIN FE | CONTRACEPTION |
| 54868-4754 | KIT | APRI | CONTRACEPTION |
| 54868-4778 | KIT | ZOVIA 1/50E-28 | CONTRACEPTION |
| 54868-4832 | VAG | NUVARING | CONTRACEPTION |
| 54868-4850 | KIT | LOW-OGESTREL | CONTRACEPTION |
| 54868-4851 | KIT | CRYSSELLE | CONTRACEPTION |
| 54868-4860 | KIT | ENPRESSE | CONTRACEPTION |
| 54868-4911 | KIT | CYCLESSA | CONTRACEPTION |
| 54868-5028 | KIT | TRI-SPRINTEC | CONTRACEPTION |
| 54868-5031 | KIT | VELIVET | CONTRACEPTION |
| 54868-5286 | KIT | NORTREL 7/7/7 | CONTRACEPTION |

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| 54868-5326 | KIT | JUNEL FE 1/20 | CONTRACEPTION |
| 54868-5356 | KIT | AVIANE | CONTRACEPTION |
| 54868-5535 | KIT | YAZ | CONTRACEPTION |
| 54868-5826 | KIT | TRINESSA | CONTRACEPTION |
| 54868-5828 | KIT | YAZ | CONTRACEPTION |
| 54868-5922 | KIT | OCELLA | CONTRACEPTION |
| 54868-5935 | KIT | JUNEL FE 1.5/30 | CONTRACEPTION |
| 54868-5942 | KIT | KELNOR 1/35 | CONTRACEPTION |
| 54868-6044 | KIT | JOLESSA | CONTRACEPTION |
| 54868-6100 | KIT | LOESTRIN 24 FE | CONTRACEPTION |
| 54868-6161 | KIT | FEMCON FE | CONTRACEPTION |
| 54868-6162 | KIT | GIANVI | CONTRACEPTION |
| 54868-6183 | KIT | NATAZIA | CONTRACEPTION |
| 54868-6210 | KIT | LUTERA | CONTRACEPTION |
| 54868-6213 | PO | MICROGESTIN | CONTRACEPTION |
| 54868-6272 | PO | JUNEL 1.5/30 | CONTRACEPTION |
| 54868-6273 | KIT | ZENCHENT | CONTRACEPTION |
| 54868-6274 | KIT | TILIA FE | CONTRACEPTION |
| 54868-6275 | KIT | LOSEASONIQUE | CONTRACEPTION |
| 54868-6276 | KIT | SEASONIQUE | CONTRACEPTION |
| 57297-837 | KIT | TRI-LO-MARZIA | CONTRACEPTION |
| 57297-843 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57297-844 | KIT | KURVELO | CONTRACEPTION |
| 57297-848 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57297-854 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |

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| 57297-857 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57297-875 | KIT | VYFEMLA | CONTRACEPTION |
| 57297-880 | KIT | BEKYREE | CONTRACEPTION |
| 57297-882 | KIT | ENSKYCE | CONTRACEPTION |
| 57297-886 | KIT | NIKKI | CONTRACEPTION |
| 57297-902 | KIT | DROSPIRENONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57297-903 | KIT | KAITLIB FE | CONTRACEPTION |
| 57994-001 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-002 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-006 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-007 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-015 | KIT | DESOGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-017 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-018 | KIT | DROSPIRENONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-019 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-020 | KIT | DESOGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-025 | KIT | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-0028 | PO | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-029 | KIT | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 57994-032 | KIT | NORETHINDRONE AND ETHINYL ESTRADIOL AND FERROUS FUMARATE | CONTRACEPTION |
| 60889-0001 | KIT | CYCLESSA | CONTRACEPTION |
| 60889-0002 | KIT | DESOGEN | CONTRACEPTION |
| 60889-0282 | KIT | DESOGEN | CONTRACEPTION |
| 61786-382 | KIT | DESOGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 61786-385 | KIT | CAZIAN | CONTRACEPTION |
| 63187-054 | KIT | MONONESSA | CONTRACEPTION |

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| 63187-458 | KIT | TRI-SPRINTEC | CONTRACEPTION |
| 63285-0044 | PO | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 63285-0045 | PO | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 63285-0739 | PO | PREVIFEM | CONTRACEPTION |
| 63285-0740 | PO | TRI PREVIFEM | CONTRACEPTION |
| 63285-0741 | PO | TRI PREVIFEM | CONTRACEPTION |
| 63285-0743 | PO | ORSYTHIA | CONTRACEPTION |
| 63285-0744 | PO | MYZILRA | CONTRACEPTION |
| 63285-0745 | PO | MYZILRA | CONTRACEPTION |
| 63285-0746 | PO | MYZILRA | CONTRACEPTION |
| 63285-0747 | PO | CYCLAFEM 1/35 | CONTRACEPTION |
| 63285-0748 | PO | CYCLAFEM 7/7/7 | CONTRACEPTION |
| 63285-0749 | PO | CYCLAFEM 7/7/7 | CONTRACEPTION |
| 63285-0750 | PO | NORETHINDRONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 63285-0751 | PO | DESOGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 65162-316 | KIT | LOMEDIA 24 FE | CONTRACEPTION |
| 65162-347 | KIT | ZENCHENT FE | CONTRACEPTION |
| 66116-436 | KIT | TRI-SPRINTEC | CONTRACEPTION |
| 66116-470 | KIT | GIANVI | CONTRACEPTION |
| 66993-611 | KIT | SOLIA | CONTRACEPTION |
| 68180-837 | KIT | TRI-LO-MARZIA | CONTRACEPTION |
| 68180-838 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68180-843 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68180-844 | KIT | KURVELO | CONTRACEPTION |
| 68180-846 | KIT | DAYSEE | CONTRACEPTION |
| 68180-848 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL AND ETHINYL ESTRADIOL | CONTRACEPTION |

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| 68180-854 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68180-857 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68180-864 | KIT | BLISOVI 24 FE | CONTRACEPTION |
| 68180-865 | KIT | BLISOVI FE 1/20 | CONTRACEPTION |
| 68180-866 | KIT | BLISOVI FE 1.5/30 | CONTRACEPTION |
| 68180-875 | KIT | VYFEMLA | CONTRACEPTION |
| 68180-880 | KIT | BEKYREE | CONTRACEPTION |
| 68180-882 | KIT | ENSKYCE | CONTRACEPTION |
| 68180-886 | KIT | NIKKI | CONTRACEPTION |
| 68180-892 | KIT | PIRMELLA 7/7/7 | CONTRACEPTION |
| 68180-893 | KIT | PIRMELLA 1/35 | CONTRACEPTION |
| 68180-897 | KIT | NORETHINDRONE AND ETHINYL ESTRADIOL AND FERROUS FUMARATE | CONTRACEPTION |
| 68180-898 | KIT | WYMZYA FE | CONTRACEPTION |
| 68180-899 | KIT | WYMZYA FE | CONTRACEPTION |
| 68180-902 | KIT | DROSPIRENONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68180-903 | KIT | KAITLIB FE | CONTRACEPTION |
| 68258-5005 | KIT | NECON 777 | CONTRACEPTION |
| 68462-0132 | PO | NORETHINDRONE ACETATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68462-309 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68462-316 | KIT | BRIELLYN | CONTRACEPTION |
| 68462-318 | KIT | VIORELE | CONTRACEPTION |
| 68462-388 | KIT | MARLISSA | CONTRACEPTION |
| 68462-394 | KIT | ALYACEN 1/35 | CONTRACEPTION |
| 68462-556 | KIT | ALYACEN 7/7/7 | CONTRACEPTION |
| 68462-565 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68462-0637 | PO | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |

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| 68462-646 | KIT | ASHLYNA | CONTRACEPTION |
| 68462-672 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68462-719 | KIT | NORGESTIMATE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68462-720 | KIT | DROSPIRENONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 68462-733 | KIT | DROSPIRENONE AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 69238-1531 | KIT | LARISSIA | CONTRACEPTION |
| 69238-1551 | KIT | FEMYNOR | CONTRACEPTION |
| 75854-401 | KIT | LEVONORGESTREL AND ETHINYL ESTRADOIL | CONTRACEPTION |
| 75854-601 | KIT | FALESSA | CONTRACEPTION |
| 76388-283 | KIT | CYCLESSA | CONTRACEPTION |
| 76413-104 | KIT | CYCLAFEM 7/7/7 | CONTRACEPTION |
| 76413-105 | KIT | CYCLAFEM 1/35 | CONTRACEPTION |
| 76413-111 | KIT | LEVONORGESTREL AND ETHINYL ESTRADIOL | CONTRACEPTION |
| 76413-116 | KIT | MYZILRA | CONTRACEPTION |
| 76413-121 | KIT | PREVIFEM | CONTRACEPTION |
| 76413-128 | KIT | TRI-SPRINTEC | CONTRACEPTION |
| 76413-130 | KIT | YASMIN | CONTRACEPTION |
| 76413-0131 | VAG | NUVARING | CONTRACEPTION |
| 00032-1026 | PO | ESTRATEST | MENOPAUSE |
| 00046-0875 | PO | PREMPRO | MENOPAUSE |
| 00046-0937 | PO | PREMPRO | MENOPAUSE |
| 00046-0938 | PO | PREMPRO | MENOPAUSE |
| 00046-0975 | PO | PREMPRO | MENOPAUSE |
| 00046-1105 | PO | PREMPRO | MENOPAUSE |
| 00046-1106 | PO | PREMPRO | MENOPAUSE |
| 00046-1107 | PO | PREMPRO | MENOPAUSE |

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| 00046-1108 | PO | PREMPRO | MENOPAUSE |
| 35356-0276 | PO | PREMPRO | MENOPAUSE |
| 35356-0277 | PO | PREMPRO | MENOPAUSE |
| 35356-0278 | PO | PREMPRO | MENOPAUSE |
| 35356-0279 | PO | PREMPRO | MENOPAUSE |
| 42816-1105 | PO | PREMPRO | MENOPAUSE |
| 42816-1106 | PO | PREMPRO | MENOPAUSE |
| 42816-1107 | PO | PREMPRO | MENOPAUSE |
| 42816-1108 | PO | PREMPRO | MENOPAUSE |
| 43853-0001 | PO | ESTROGEN AND PROGESTERONE | MENOPAUSE |
| 54569-4365 | PO | PREMPRO | MENOPAUSE |
| 54569-4618 | PO | PREMPRO | MENOPAUSE |
| 54569-4925 | PO | PREMPRO | MENOPAUSE |
| 54868-3799 | PO | PREMPRO | MENOPAUSE |
| 54868-4866 | PO | PREMPRO | MENOPAUSE |
| 54868-5047 | PO | PREMPRO | MENOPAUSE |
| 54868-5540 | PO | PREMPRO | MENOPAUSE |
| 58016-4074 | PO | PREMPRO | MENOPAUSE |
| 68258-5978 | PO | PREMPRO | MENOPAUSE |
| 68258-5980 | PO | PREMPRO | MENOPAUSE |
| 00003-0251 | IM | DELESTROGEN | MENOPAUSE |
| 00003-0330 | IM | DELESTROGEN | MENOPAUSE |
| 00003-0343 | IM | DELESTROGEN | MENOPAUSE |
| 00008-1123 | PO | DUAVEE | MENOPAUSE |

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| 00009-0271 | IM | DEPO-ESTRADIOL | MENOPAUSE |
| 00009-3772 | PO | OGEN | MENOPAUSE |
| 00009-3773 | PO | OGEN | MENOPAUSE |
| 00009-3774 | PO | OGEN | MENOPAUSE |
| 00009-5174 | PO | ACTIVELLA | MENOPAUSE |
| 00032-1014 | PO | ESTRATAB | MENOPAUSE |
| 00032-1022 | PO | ESTRATAB | MENOPAUSE |
| 00032-1023 | PO | ESTRATEST H.S. | MENOPAUSE |
| 00032-1025 | PO | ESTRATAB | MENOPAUSE |
| 00037-4801 | TD | ELESTRIN | MENOPAUSE |
| 00037-4802 | TD | ELESTRIN | MENOPAUSE |
| 00046-0749 | IM | PREMARIN | MENOPAUSE |
| 00046-0864 | PO | PREMARIN | MENOPAUSE |
| 00046-0865 | PO | PREMARIN | MENOPAUSE |
| 00046-0866 | PO | PREMARIN | MENOPAUSE |
| 00046-0867 | PO | PREMARIN | MENOPAUSE |
| 00046-0868 | PO | PREMARIN | MENOPAUSE |
| 00046-0936 | PO | PREMARIN | MENOPAUSE |
| 00046-1100 | PO | PREMARIN | MENOPAUSE |
| 00046-1101 | PO | PREMARIN | MENOPAUSE |
| 00046-1102 | PO | PREMARIN | MENOPAUSE |
| 00046-1103 | PO | PREMARIN | MENOPAUSE |
| 00046-1104 | PO | PREMARIN | MENOPAUSE |
| 00046-2573 | PO | PREMPHASE | MENOPAUSE |
| 00046-2575 | PO | PREMPHASE | MENOPAUSE |
| 00046-2579 | PO | PREMPHASE | MENOPAUSE |

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| 00046-3867 | PO | PREMARIN | MENOPAUSE |
| 00051-1028 | TD | ESTROGEL | MENOPAUSE |
| 00062-1840 | PO | ORTHO-PREFEST | MENOPAUSE |
| 00071-0144 | PO | FEMHRT 1/5 | MENOPAUSE |
| 00071-3006 | TD | FEMPATCH | MENOPAUSE |
| 00075-0514 | TD | COMBIPATCH | MENOPAUSE |
| 00078-0343 | TD | VIVELLE-DOT | MENOPAUSE |
| 00078-0344 | TD | VIVELLE-DOT | MENOPAUSE |
| 00078-0345 | TD | VIVELLE-DOT | MENOPAUSE |
| 00078-0346 | TD | VIVELLE-DOT | MENOPAUSE |
| 00078-0348 | TD | VIVELLE | MENOPAUSE |
| 00078-0365 | TD | VIVELLE-DOT | MENOPAUSE |
| 00078-0377 | TD | COMBIPATCH | MENOPAUSE |
| 00078-0378 | TD | COMBIPATCH | MENOPAUSE |
| 00078-0480 | TD | ESTRADERM | MENOPAUSE |
| 00078-0481 | TD | ESTRADERM | MENOPAUSE |
| 00083-2310 | TD | ESTRADERM | MENOPAUSE |
| 00083-2320 | TD | ESTRADERM | MENOPAUSE |
| 00083-2325 | TD | VIVELLE | MENOPAUSE |
| 00083-2326 | TD | VIVELLE | MENOPAUSE |
| 00083-2327 | TD | VIVELLE | MENOPAUSE |
| 00083-2328 | TD | VIVELLE | MENOPAUSE |
| 00085-0298 | PO | ESTINYL | MENOPAUSE |
| 00087-0755 | PO | ESTRACE | MENOPAUSE |
| 00087-0756 | PO | ESTRACE | MENOPAUSE |
| 00093-0516 | PO | CONJUGATED ESTROGENS | MENOPAUSE |

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| 00093-3122 | PO | JINTELI | MENOPAUSE |
| 00093-5454 | PO | MIMVEY LO | MENOPAUSE |
| 00093-5455 | PO | MIMVEY | MENOPAUSE |
| 00149-0491 | TD | ALORA | MENOPAUSE |
| 00169-5174 | PO | ACTIVELLA | MENOPAUSE |
| 00169-5175 | PO | ACTIVELLA | MENOPAUSE |
| 00179-0073 | PO | ESTRADIOL | MENOPAUSE |
| 00179-0074 | PO | ESTRADIOL | MENOPAUSE |
| 00179-0123 | PO | ESTRADIOL | MENOPAUSE |
| 00179-1999 | PO | ESTRADIOL | MENOPAUSE |
| 00182-1976 | PO | ESTROPIPATE | MENOPAUSE |
| 00245-0880 | TD | DIVIGEL | MENOPAUSE |
| 00245-0881 | TD | DIVIGEL | MENOPAUSE |
| 00245-0882 | TD | DIVIGEL | MENOPAUSE |
| 00247-0249 | PO | PREMARIN | MENOPAUSE |
| 00247-0250 | PO | PREMARIN | MENOPAUSE |
| 00247-0251 | PO | PREMARIN | MENOPAUSE |
| 00247-1226 | PO | PREMARIN | MENOPAUSE |
| 00314-0782 | IM | VALERGEN | MENOPAUSE |
| 00339-6404 | PO | ESTRADIOL | MENOPAUSE |
| 00364-6613 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 00378-1452 | PO | ESTRADIOL | MENOPAUSE |
| 00378-1454 | PO | ESTRADIOL | MENOPAUSE |
| 00378-1458 | PO | ESTRADIOL | MENOPAUSE |
| 00378-3349 | TD | ESTRADIOL | MENOPAUSE |
| 00378-3350 | TD | ESTRADIOL | MENOPAUSE |

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| 00378-3351 | TD | ESTRADIOL | MENOPAUSE |
| 00378-3352 | TD | ESTRADIOL | MENOPAUSE |
| 00378-3360 | TD | ESTRADIOL | MENOPAUSE |
| 00378-3361 | TD | ESTRADIOL | MENOPAUSE |
| 00378-4551 | PO | ESTROPIPATE | MENOPAUSE |
| 00378-4553 | PO | ESTROPIPATE | MENOPAUSE |
| 00378-4555 | PO | ESTROPIPATE | MENOPAUSE |
| 00378-4640 | TD | ESTRADIOL | MENOPAUSE |
| 00378-4641 | TD | ESTRADIOL | MENOPAUSE |
| 00378-4642 | TD | ESTRADIOL | MENOPAUSE |
| 00378-4643 | TD | ESTRADIOL | MENOPAUSE |
| 00378-4644 | TD | ESTRADIOL | MENOPAUSE |
| 00421-0158 | PO | GYNODIOL | MENOPAUSE |
| 00421-0748 | PO | GYNODIOL | MENOPAUSE |
| 00421-0768 | PO | GYNODIOL | MENOPAUSE |
| 00421-1259 | PO | GYNODIOL | MENOPAUSE |
| 00430-0021 | PO | ESTRACE | MENOPAUSE |
| 00430-0023 | PO | ESTRACE | MENOPAUSE |
| 00430-0024 | PO | ESTRACE | MENOPAUSE |
| 00430-0145 | PO | FEMHRT LOW DOSE | MENOPAUSE |
| 00430-0389 | PO | FEMTRACE | MENOPAUSE |
| 00430-0390 | PO | FEMTRACE | MENOPAUSE |
| 00430-0391 | PO | FEMTRACE | MENOPAUSE |
| 00430-0544 | PO | FEMHRT 1/5 | MENOPAUSE |
| 00430-0720 | PO | ESTRACE | MENOPAUSE |
| 00430-0721 | PO | ESTRACE | MENOPAUSE |

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| 00430-0722 | PO | ESTRACE | MENOPAUSE |
| 00430-6201 | VAG | FEMRING | MENOPAUSE |
| 00430-6202 | VAG | FEMRING | MENOPAUSE |
| 00440-8170 | PO | PREMARIN | MENOPAUSE |
| 00440-8171 | PO | PREMARIN | MENOPAUSE |
| 00482-4900 | TD | ELESTRIN | MENOPAUSE |
| 00527-1409 | PO | METHYLTESTOSTERONE/ESTERI | MENOPAUSE |
| 00527-1410 | PO | METHYLTESTOSTERONE/ESTERI | MENOPAUSE |
| 00536-3849 | PO | ESTRADIOL | MENOPAUSE |
| 00555-0727 | PO | ESTROPIPATE | MENOPAUSE |
| 00555-0728 | PO | ESTROPIPATE | MENOPAUSE |
| 00555-0729 | PO | ESTROPIPATE | MENOPAUSE |
| 00555-0886 | PO | ESTRADIOL | MENOPAUSE |
| 00555-0887 | PO | ESTRADIOL | MENOPAUSE |
| 00555-0899 | PO | ESTRADIOL | MENOPAUSE |
| 00574-0870 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 00574-0872 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 00574-2067 | TD | EVAMIST | MENOPAUSE |
| 00591-0414 | PO | ESTROPIPATE | MENOPAUSE |
| 00591-0415 | PO | ESTROPIPATE | MENOPAUSE |
| 00591-0416 | PO | ESTROPIPATE | MENOPAUSE |
| 00591-0487 | PO | ESTRADIOL | MENOPAUSE |
| 00591-0488 | PO | ESTRADIOL | MENOPAUSE |
| 00591-0528 | PO | ESTRADIOL | MENOPAUSE |
| 00603-3556 | PO | ESTRADIOL | MENOPAUSE |
| 00781-3029 | IM | ESTRADIOL VALERATE | MENOPAUSE |

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| 00781-3030 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 00781-3031 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 00781-7129 | TD | ESTRADIOL | MENOPAUSE |
| 00781-7138 | TD | ESTRADIOL | MENOPAUSE |
| 00781-7144 | TD | ESTRADIOL | MENOPAUSE |
| 00781-7156 | TD | ESTRADIOL | MENOPAUSE |
| 00781-7167 | TD | ESTRADIOL | MENOPAUSE |
| 00904-5177 | PO | ESTRADIOL | MENOPAUSE |
| 10544-0069 | PO | ESTRADIOL | MENOPAUSE |
| 10544-0070 | PO | ESTRADIOL | MENOPAUSE |
| 11528-0010 | PO | COVARYX | MENOPAUSE |
| 11528-0020 | PO | COVARYX HS | MENOPAUSE |
| 12280-0110 | PO | ESTRADIOL | MENOPAUSE |
| 13925-0171 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 13925-0172 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 15310-0010 | PO | EEMT | MENOPAUSE |
| 15310-0020 | PO | EEMT HS | MENOPAUSE |
| 15455-9535 | TD | ESTRADIOL MICRONIZED | MENOPAUSE |
| 15456-0325 | TD | ESTRASORB | MENOPAUSE |
| 16590-0052 | PO | ESTRADIOL | MENOPAUSE |
| 16590-0278 | PO | ESTRADIOL | MENOPAUSE |
| 17089-0359 | PO | GUNA-BETA-ESTRADIOL | MENOPAUSE |
| 17139-0613 | TD | ESTROGEL | MENOPAUSE |
| 17139-0617 | TD | ESTROGEL | MENOPAUSE |
| 18860-0480 | TD | ELESTRIN | MENOPAUSE |
| 18860-0490 | TD | ELESTRIN | MENOPAUSE |

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| 21695-0613 | PO | ESTRADIOL | MENOPAUSE |
| 21695-0623 | PO | ESTRADIOL | MENOPAUSE |
| 21695-0696 | PO | EEMT | MENOPAUSE |
| 23155-0013 | PO | ESTRADIOL | MENOPAUSE |
| 23155-0014 | PO | ESTRADIOL | MENOPAUSE |
| 23155-0015 | PO | ESTRADIOL | MENOPAUSE |
| 23629-0018 | PO | ESTRADIOL | MENOPAUSE |
| 28831-0001 | TD | PREMARIN | MENOPAUSE |
| 29336-0325 | TD | ESTRASORB | MENOPAUSE |
| 33261-0667 | PO | ESTRADIOL | MENOPAUSE |
| 33261-0714 | PO | ESTRADIOL | MENOPAUSE |
| 33358-0295 | PO | PREMARIN | MENOPAUSE |
| 35356-0249 | PO | PREMARIN | MENOPAUSE |
| 35356-0250 | PO | PREMARIN | MENOPAUSE |
| 35356-0251 | PO | PREMARIN | MENOPAUSE |
| 35356-0426 | PO | PREMARIN | MENOPAUSE |
| 42023-0110 | IM | DELESTROGEN | MENOPAUSE |
| 42023-0111 | IM | DELESTROGEN | MENOPAUSE |
| 42023-0112 | IM | DELESTROGEN | MENOPAUSE |
| 42023-0134 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 42023-0135 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 42023-0136 | IM | ESTRADIOL VALERATE | MENOPAUSE |
| 42816-1100 | PO | PREMARIN | MENOPAUSE |
| 42816-1101 | PO | PREMARIN | MENOPAUSE |
| 42816-1102 | PO | PREMARIN | MENOPAUSE |
| 42816-1103 | PO | PREMARIN | MENOPAUSE |

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| 42816-1104 | PO | PREMARIN | MENOPAUSE |
| 42816-1123 | PO | DUAVEE | MENOPAUSE |
| 43063-0201 | PO | ESTRADIOL | MENOPAUSE |
| 43063-0446 | PO | ESTRADIOL | MENOPAUSE |
| 43063-0651 | PO | ESTRADIOL | MENOPAUSE |
| 43353-0687 | PO | PREMARIN | MENOPAUSE |
| 43353-0688 | PO | PREMARIN | MENOPAUSE |
| 47781-0204 | TD | ESTRADIOL | MENOPAUSE |
| 47781-0205 | TD | ESTRADIOL | MENOPAUSE |
| 47781-0206 | TD | ESTRADIOL | MENOPAUSE |
| 47781-0207 | TD | ESTRADIOL | MENOPAUSE |
| 47781-0208 | TD | ESTRADIOL | MENOPAUSE |
| 47781-0209 | TD | ESTRADIOL | MENOPAUSE |
| 49999-0083 | PO | ESTRADIOL | MENOPAUSE |
| 49999-0109 | PO | PREMARIN | MENOPAUSE |
| 50220-0001 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 50220-0002 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 50268-0290 | PO | ESTRADIOL | MENOPAUSE |
| 50268-0291 | PO | ESTRADIOL | MENOPAUSE |
| 50268-0292 | PO | ESTRADIOL | MENOPAUSE |
| 50419-0451 | TD | CLIMARA | MENOPAUSE |
| 50419-0452 | TD | CLIMARA | MENOPAUSE |
| 50419-0453 | TD | CLIMARA | MENOPAUSE |
| 50419-0454 | TD | CLIMARA | MENOPAUSE |
| 50419-0455 | TD | MENOSTAR | MENOPAUSE |
| 50419-0456 | TD | CLIMARA | MENOPAUSE |

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| 50419-0459 | TD | CLIMARA | MENOPAUSE |
| 50419-0482 | PO | ANGELIQ | MENOPAUSE |
| 50419-0483 | PO | ANGELIQ | MENOPAUSE |
| 50419-0491 | TD | CLIMARA PRO | MENOPAUSE |
| 51138-0037 | PO | ESTRADIOL | MENOPAUSE |
| 51138-0050 | PO | ESTRADIOL | MENOPAUSE |
| 51138-0051 | PO | ESTRADIOL | MENOPAUSE |
| 51285-0063 | PO | PREFEST | MENOPAUSE |
| 51285-0088 | PO | PREFEST | MENOPAUSE |
| 51285-0406 | PO | ENJUVIA | MENOPAUSE |
| 51285-0407 | PO | ENJUVIA | MENOPAUSE |
| 51285-0408 | PO | ENJUVIA | MENOPAUSE |
| 51285-0409 | PO | ENJUVIA | MENOPAUSE |
| 51285-0410 | PO | ENJUVIA | MENOPAUSE |
| 51285-0441 | PO | CENESTIN | MENOPAUSE |
| 51285-0442 | PO | CENESTIN | MENOPAUSE |
| 51285-0443 | PO | CENESTIN | MENOPAUSE |
| 51285-0444 | PO | CENESTIN | MENOPAUSE |
| 51285-0446 | PO | CENESTIN | MENOPAUSE |
| 51285-0501 | PO | ESTRADIOL | MENOPAUSE |
| 51285-0502 | PO | ESTRADIOL | MENOPAUSE |
| 51285-0504 | PO | ESTRADIOL | MENOPAUSE |
| 51991-0078 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 51991-0079 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 51991-0474 | PO | ESTRADIOL/NORETHINDRONE A | MENOPAUSE |
| 51991-0623 | PO | ESTRADIOL/NORETHINDRONE A | MENOPAUSE |

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| 52544-0236 | PO | JEVANTIQUE LO | MENOPAUSE |
| 52544-0237 | PO | JEVANTIQUE | MENOPAUSE |
| 52544-0415 | PO | ESTROPIPATE | MENOPAUSE |
| 52544-0471 | TD | ALORA | MENOPAUSE |
| 52544-0472 | TD | ALORA | MENOPAUSE |
| 52544-0473 | TD | ALORA | MENOPAUSE |
| 52544-0487 | PO | ESTRADIOL | MENOPAUSE |
| 52544-0488 | PO | ESTRADIOL | MENOPAUSE |
| 52544-0528 | PO | ESTRADIOL | MENOPAUSE |
| 52544-0884 | TD | ALORA | MENOPAUSE |
| 52959-0222 | PO | PREMARIN | MENOPAUSE |
| 52959-0223 | PO | PREMARIN | MENOPAUSE |
| 52959-0323 | PO | ESTRADIOL | MENOPAUSE |
| 53746-0077 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 53746-0078 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 53808-0770 | PO | PREMARIN | MENOPAUSE |
| 54348-0714 | PO | ESTRACE | MENOPAUSE |
| 54348-0719 | PO | ESTRACE | MENOPAUSE |
| 54348-0723 | PO | ESTRACE | MENOPAUSE |
| 54569-0811 | PO | PREMARIN | MENOPAUSE |
| 54569-0812 | PO | PREMARIN | MENOPAUSE |
| 54569-0813 | PO | PREMARIN | MENOPAUSE |
| 54569-4907 | PO | ESTRADIOL | MENOPAUSE |
| 54569-4908 | PO | ESTRADIOL | MENOPAUSE |
| 54569-5164 | PO | FEMHRT 1/5 | MENOPAUSE |
| 54569-5581 | TD | VIVELLE-DOT | MENOPAUSE |

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| 54868-0365 | PO | PREMARIN | MENOPAUSE |
| 54868-0451 | PO | PREMARIN | MENOPAUSE |
| 54868-0452 | PO | PREMARIN | MENOPAUSE |
| 54868-0453 | PO | PREMARIN | MENOPAUSE |
| 54868-0454 | VAG | PREMARIN | MENOPAUSE |
| 54868-0494 | PO | ESTRACE | MENOPAUSE |
| 54868-0495 | PO | ESTRACE | MENOPAUSE |
| 54868-1261 | PO | OGEN | MENOPAUSE |
| 54868-1729 | IM | DEPO-ESTRADIOL | MENOPAUSE |
| 54868-2702 | PO | PREMARIN | MENOPAUSE |
| 54868-3564 | PO | ESTRATEST H.S. | MENOPAUSE |
| 54868-3565 | PO | ESTRATEST | MENOPAUSE |
| 54868-3672 | PO | ORTHO-EST | MENOPAUSE |
| 54868-3795 | TD | VIVELLE | MENOPAUSE |
| 54868-3796 | TD | VIVELLE | MENOPAUSE |
| 54868-3800 | PO | PREMPHASE | MENOPAUSE |
| 54868-4030 | PO | ESTRADIOL | MENOPAUSE |
| 54868-4031 | PO | ESTRADIOL | MENOPAUSE |
| 54868-4089 | TD | CLIMARA | MENOPAUSE |
| 54868-4241 | TD | CLIMARA | MENOPAUSE |
| 54868-4242 | TD | VIVELLE-DOT | MENOPAUSE |
| 54868-4243 | TD | VIVELLE-DOT | MENOPAUSE |
| 54868-4244 | TD | VIVELLE-DOT | MENOPAUSE |
| 54868-4269 | PO | PREFEST | MENOPAUSE |
| 54868-4370 | PO | ESTRADIOL | MENOPAUSE |
| 54868-4430 | PO | ESTRACE | MENOPAUSE |

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| 54868-4677 | PO | ESTRADIOL/NORETHINDRONE A | MENOPAUSE |
| 54868-4679 | PO | FEMHRT 1/5 | MENOPAUSE |
| 54868-4761 | PO | ESTROPIPATE | MENOPAUSE |
| 54868-4771 | PO | SYNTEST D.S. | MENOPAUSE |
| 54868-4811 | TD | ESTRADIOL | MENOPAUSE |
| 54868-4813 | TD | ESTRADIOL | MENOPAUSE |
| 54868-4831 | TD | COMBIPATCH | MENOPAUSE |
| 54868-4862 | TD | VIVELLE-DOT | MENOPAUSE |
| 54868-4865 | PO | PREMARIN | MENOPAUSE |
| 54868-4879 | PO | CENESTIN | MENOPAUSE |
| 54868-4900 | TD | CLIMARA | MENOPAUSE |
| 54868-4920 | TD | VIVELLE-DOT | MENOPAUSE |
| 54868-5008 | TD | CLIMARA | MENOPAUSE |
| 54868-5009 | TD | ESTRADIOL | MENOPAUSE |
| 54868-5371 | TD | MENOSTAR | MENOPAUSE |
| 54868-5415 | PO | CENESTIN | MENOPAUSE |
| 54868-5570 | TD | CLIMARA PRO | MENOPAUSE |
| 54868-5626 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 54868-5934 | PO | MENEST | MENOPAUSE |
| 54868-6030 | VAG | FEMRING | MENOPAUSE |
| 54868-6056 | TD | DIVIGEL | MENOPAUSE |
| 54868-6157 | TD | EVAMIST | MENOPAUSE |
| 54868-6163 | PO | ENJUVIA | MENOPAUSE |
| 54868-6165 | PO | ENJUVIA | MENOPAUSE |
| 54868-6184 | PO | ANGELIQ | MENOPAUSE |
| 54868-6211 | PO | MENEST | MENOPAUSE |

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| 54868-6212 | PO | MENEST | MENOPAUSE |
| 54868-6251 | PO | JINTELI | MENOPAUSE |
| 55154-0216 | PO | PREMARIN | MENOPAUSE |
| 55154-0217 | PO | PREMARIN | MENOPAUSE |
| 55154-0218 | PO | PREMARIN | MENOPAUSE |
| 55154-0219 | PO | PREMARIN | MENOPAUSE |
| 55154-6242 | PO | ESTRADIOL | MENOPAUSE |
| 55289-0047 | PO | PREMARIN | MENOPAUSE |
| 55289-0101 | PO | ESTRACE | MENOPAUSE |
| 55289-0123 | PO | PREMARIN | MENOPAUSE |
| 55289-0396 | PO | ESTRACE | MENOPAUSE |
| 55289-0503 | PO | ESTINYL | MENOPAUSE |
| 55289-0603 | PO | ESTRADIOL | MENOPAUSE |
| 55289-0761 | PO | ESTRADIOL | MENOPAUSE |
| 55289-0943 | PO | PREMARIN | MENOPAUSE |
| 55887-0342 | PO | ESTRADIOL | MENOPAUSE |
| 57664-0314 | PO | ESTROPIPATE | MENOPAUSE |
| 57664-0316 | PO | ESTROPIPATE | MENOPAUSE |
| 57866-0097 | PO | ESTRACE | MENOPAUSE |
| 57866-6680 | PO | PREMARIN | MENOPAUSE |
| 57866-6682 | PO | PREMARIN | MENOPAUSE |
| 57866-7987 | PO | PREMARIN | MENOPAUSE |
| 57955-0006 | TD | TRI ESTROGEN | MENOPAUSE |
| 58016-0039 | PO | ESTRACE | MENOPAUSE |
| 58016-0744 | PO | PREMARIN | MENOPAUSE |
| 58016-0948 | PO | PREMARIN | MENOPAUSE |

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| 58016-0983 | PO | PREMARIN | MENOPAUSE |
| 58016-3182 | TD | ESTRADERM | MENOPAUSE |
| 58864-0422 | PO | PREMARIN | MENOPAUSE |
| 58864-0803 | PO | ESTRADIOL | MENOPAUSE |
| 58864-0804 | PO | ESTRADIOL | MENOPAUSE |
| 58864-0951 | PO | MENEST | MENOPAUSE |
| 59772-0025 | PO | ESTRADIOL | MENOPAUSE |
| 59772-0026 | PO | ESTRADIOL | MENOPAUSE |
| 59772-0027 | PO | ESTRADIOL | MENOPAUSE |
| 60346-0752 | PO | ESTINYL | MENOPAUSE |
| 60429-0327 | PO | ESTRADIOL | MENOPAUSE |
| 60429-0328 | PO | ESTRADIOL | MENOPAUSE |
| 60429-0329 | PO | ESTRADIOL | MENOPAUSE |
| 60846-0201 | PO | ACTIVELLA | MENOPAUSE |
| 60846-0202 | PO | ACTIVELLA | MENOPAUSE |
| 61570-0072 | PO | MENEST | MENOPAUSE |
| 61570-0073 | PO | MENEST | MENOPAUSE |
| 61570-0074 | PO | MENEST | MENOPAUSE |
| 61570-0075 | PO | MENEST | MENOPAUSE |
| 61570-0125 | PO | PREFEST | MENOPAUSE |
| 61570-0180 | IM | DELESTROGEN | MENOPAUSE |
| 61570-0181 | IM | DELESTROGEN | MENOPAUSE |
| 61570-0182 | IM | DELESTROGEN | MENOPAUSE |
| 61919-0198 | PO | ESTRADIOL | MENOPAUSE |
| 61919-0278 | PO | ESTRADIOL | MENOPAUSE |
| 62559-0149 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |

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|------------|----|---------------------------|-----------|
| 62559-0150 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 62559-1490 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 62559-1507 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 63094-1215 | TD | EVAMIST | MENOPAUSE |
| 63094-6048 | TD | ELESTRIN | MENOPAUSE |
| 63094-6170 | TD | ESTROGEL | MENOPAUSE |
| 63187-0482 | PO | ESTRADIOL | MENOPAUSE |
| 63539-0112 | PO | DUAVEE | MENOPAUSE |
| 63539-0122 | PO | DUAVEE | MENOPAUSE |
| 63629-2766 | PO | ESTRADIOL | MENOPAUSE |
| 63629-3755 | PO | ESTRADIOL | MENOPAUSE |
| 63629-4788 | PO | ESTRADIOL | MENOPAUSE |
| 63629-5208 | PO | ESTRADIOL | MENOPAUSE |
| 64011-0215 | TD | EVAMIST | MENOPAUSE |
| 64205-0048 | PO | ESTRADIOL | MENOPAUSE |
| 64205-0488 | PO | ESTRADIOL | MENOPAUSE |
| 64248-0101 | PO | ORTHO-EST | MENOPAUSE |
| 64248-0102 | PO | ORTHO-EST | MENOPAUSE |
| 64248-0310 | TD | ESCLIM | MENOPAUSE |
| 64248-0320 | TD | ESCLIM | MENOPAUSE |
| 64248-0330 | TD | ESCLIM | MENOPAUSE |
| 64248-0340 | TD | ESCLIM | MENOPAUSE |
| 64248-0350 | TD | ESCLIM | MENOPAUSE |
| 65162-0877 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 65162-0878 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 66336-0599 | PO | PREMARIN | MENOPAUSE |

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|------------|----|---------------------------|-----------|
| 66336-0977 | PO | ESTROPIPATE | MENOPAUSE |
| 66500-0158 | PO | GYNODIOL | MENOPAUSE |
| 66500-0259 | PO | GYNODIOL | MENOPAUSE |
| 66500-0325 | TD | ESTRASORB | MENOPAUSE |
| 66500-0748 | PO | GYNODIOL | MENOPAUSE |
| 66500-0768 | PO | GYNODIOL | MENOPAUSE |
| 66576-0230 | PO | SYNTEST H.S. | MENOPAUSE |
| 66576-0231 | PO | SYNTEST D.S. | MENOPAUSE |
| 66993-0920 | PO | ESSIAN | MENOPAUSE |
| 66993-0921 | PO | ESSIAN H.S. | MENOPAUSE |
| 67544-1008 | PO | ESTRADIOL | MENOPAUSE |
| 68025-0065 | TD | DIVIGEL | MENOPAUSE |
| 68025-0066 | TD | DIVIGEL | MENOPAUSE |
| 68025-0067 | TD | DIVIGEL | MENOPAUSE |
| 68030-6682 | PO | PREMARIN | MENOPAUSE |
| 68030-7987 | PO | PREMARIN | MENOPAUSE |
| 68115-0388 | PO | ESTRADIOL | MENOPAUSE |
| 68180-0827 | PO | FYAVOLV | MENOPAUSE |
| 68180-0828 | PO | FYAVOLV | MENOPAUSE |
| 68258-9088 | PO | PREMARIN | MENOPAUSE |
| 68462-0173 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 68462-0174 | PO | ESTERIFIED ESTROGENS/METH | MENOPAUSE |
| 68462-0656 | PO | NORETHINDRONE ACETATE/ETH | MENOPAUSE |
| 68462-0657 | PO | NORETHINDRONE ACETATE/ETH | MENOPAUSE |
| 68788-9416 | PO | ESTRADIOL | MENOPAUSE |
| 68788-9901 | PO | ESTRADIOL | MENOPAUSE |

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|------------|----|------------|-----------|
| 68968-0514 | TD | COMBIPATCH | MENOPAUSE |
| 68968-0525 | TD | COMBIPATCH | MENOPAUSE |
| 68968-6610 | TD | MINIVELLE | MENOPAUSE |
| 68968-6625 | TD | MINIVELLE | MENOPAUSE |
| 68968-6637 | TD | MINIVELLE | MENOPAUSE |
| 68968-6650 | TD | MINIVELLE | MENOPAUSE |
| 68968-6675 | TD | MINIVELLE | MENOPAUSE |
| 69189-0487 | PO | ESTRADIOL | MENOPAUSE |
| 69189-0886 | PO | ESTRADIOL | MENOPAUSE |
| 69189-0899 | PO | ESTRADIOL | MENOPAUSE |
| 69189-1105 | PO | PREMARIN | MENOPAUSE |
| 69238-1251 | PO | LOPREEZA | MENOPAUSE |
| 69238-1252 | PO | LOPREEZA | MENOPAUSE |
| 69761-0006 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0010 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0012 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0015 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0018 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0020 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0022 | PO | ESTRADIOL | MENOPAUSE |
| 69761-0025 | PO | ESTRADIOL | MENOPAUSE |
| 70243-0617 | TD | ESTROGEL | MENOPAUSE |
| 99207-0190 | TD | ESTRASORB | MENOPAUSE |

APPENDIX TABLE A (CONT'D): PROGESTOGENS

| NDC | Route | Name |
|-----|-------|------|
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| | | |
|-----------|----|--|
| 006427470 | PO | SLYND |
| 000520272 | ID | IMPLANON |
| 000520274 | ID | NEXPLANON |
| 000524330 | ID | NEXPLANON |
| 001823072 | IM | HYDROXYPROGESTERONE CAPROATE |
| 002237896 | IM | HYDROXYPROGESTERONE CAPROATE |
| 002237914 | IM | HYDROXYPROGESTERONE CAPROATE |
| 002237915 | IM | HYDROXYPROGESTERONE CAPROATE |
| 002986902 | IM | PRO-DEPO |
| 003140891 | IM | HYLUTIN |
| 003140892 | IM | HYDROXYPROGESTERONE CAPROATE |
| 003642184 | IM | HYDROXYPROGESTERONE CAPROATE |
| 003646690 | IM | HYDROXYPROGESTERONE CAPROATE |
| 004020597 | IM | HYDROXYPROGESTERONE CAPROATE |
| 004020598 | IM | HYDROXYPROGESTERONE CAPROATE |
| 004180521 | IM | HY/GESTRONE |
| 004560741 | IM | GESTEROL L.A. 250 |
| 005171767 | IM | HYDROXYPROGESTERONE CAPROATE |
| 005171791 | IM | HYDROXYPROGESTERONE CAPROATE NOVAPL |
| 005361695 | IM | HYDROXYPROGESTERONE CAPROATE |
| 005885059 | IM | HYPROGEST 250 |
| 006840129 | IM | PRO-SPAN |
| 008143783 | IM | HYDROXYPROGESTERONE CAPROATE |
| 008396279 | IM | HYDROXYPROGESTERONE CAPROATE |
| 009040852 | IM | HYDROXYPROGESTERONE CAPROATE |
| 170222093 | IM | HYDROXYPROGESTERONE CAPROATE |
| 253320088 | IM | PRODROX |
| 444370598 | IM | DELTA-LUTIN |
| 476490145 | IM | HYDROXYPROGESTERONE CAPROATE |
| 513090421 | IM | HYDROXYPROGESTERONE CAPROATE |
| 513090422 | IM | HYDROXYPROGESTERONE CAPROATE |
| 514320617 | IM | HYDROXYPROGESTERONE CAPROATE |
| 545691408 | IM | HYDROXYPROGESTERONE CAPROATE |
| 545693020 | IM | HYDROXYPROGESTERONE CAPROATE |
| 551500309 | IM | HYDROXYPROGESTERONE CAPROATE |
| 551500310 | IM | HYDROXYPROGESTERONE CAPROATE |
| 594410585 | IM | DURALUTIN |
| 625590540 | IM | HYDROXYPROGESTERONE CAPROATE |
| 640110243 | IM | MAKENA |
| 640110247 | IM | MAKENA |
| 640110301 | SC | MAKENA |

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|-----------|----|------------------------------|
| 669930038 | IM | HYDROXYPROGESTERONE CAPROATE |
| 669930039 | IM | HYDROXYPROGESTERONE CAPROATE |
| 674570886 | IM | HYDROXYPROGESTERONE CAPROATE |
| 674570967 | IM | HYDROXYPROGESTERONE CAPROATE |
| 692381797 | IM | HYDROXYPROGESTERONE CAPROATE |
| 712250104 | IM | HYDROXYPROGESTERONE CAPROATE |
| 712250105 | IM | HYDROXYPROGESTERONE CAPROATE |
| 000082564 | ID | NORPLANT SYSTEM |
| 000235858 | IU | LILETTA |
| 504190421 | IU | MIRENA |
| 504190422 | IU | SKYLA |
| 504190423 | IU | MIRENA |
| 504190424 | IU | KYLEENA |
| 525440035 | IU | LILETTA |
| 000090050 | PO | PROVERA |
| 000090051 | PO | PROVERA |
| 000090064 | PO | PROVERA |
| 000090065 | PO | PROVERA |
| 000090286 | PO | PROVERA |
| 000090287 | PO | PROVERA |
| 000090626 | IM | DEPO-PROVERA |
| 000090746 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 000094709 | SC | DEPO-SUBQ PROVERA 104 |
| 000097376 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 000321007 | PO | CURRETAB |
| 000460896 | PO | CYCRIN |
| 000470265 | PO | MEDROXYPROGESTERONE ACETATE |
| 000470266 | PO | MEDROXYPROGESTERONE ACETATE |
| 000470874 | PO | MEDROXYPROGESTERONE ACETATE |
| 000860049 | PO | AMEN |
| 001821196 | PO | MEDROXYPROGESTERONE ACETATE |
| 003023950 | PO | MEDROXYPROGESTERONE ACETATE |
| 003395851 | PO | MEDROXYPROGESTERONE ACETATE |
| 003492309 | PO | MEDROXYPROGESTERONE ACETATE |
| 003640521 | PO | MEDROXYPROGESTERONE ACETATE |
| 004031779 | PO | PROVERA |
| 004031780 | PO | MEDROXYPROGESTERONE ACETATE |
| 004033241 | PO | PROVERA |
| 004034588 | PO | CYCRIN |
| 004035043 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 004054618 | PO | MEDROXYPROGESTERONE ACETATE |
| 005363995 | PO | MEDROXYPROGESTERONE ACETATE |

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|-----------|----|--|
| 005365905 | PO | MEDROXYPROGESTERONE ACETATE |
| 005365906 | PO | MEDROXYPROGESTERONE ACETATE |
| 005365907 | PO | MEDROXYPROGESTERONE ACETATE |
| 005485400 | IM | MEDROXYPROGESTERONE ACETATE |
| 005485410 | IM | MEDROXYPROGESTERONE ACETATE NOVAPLU |
| 005485701 | IM | MEDROXYPROGESTERONE ACETATE |
| 005485711 | IM | MEDROXYPROGESTERONE ACETATE NOVAPLU |
| 005550779 | PO | MEDROXYPROGESTERONE ACETATE |
| 005550872 | PO | MEDROXYPROGESTERONE ACETATE |
| 005550873 | PO | MEDROXYPROGESTERONE ACETATE |
| 006034365 | PO | MEDROXYPROGESTERONE ACETATE |
| 006034366 | PO | MEDROXYPROGESTERONE ACETATE |
| 006034367 | PO | MEDROXYPROGESTERONE ACETATE |
| 006034368 | PO | MEDROXYPROGESTERONE ACETATE |
| 006654001 | PO | MEDROXYPROGESTERONE ACETATE |
| 006770803 | PO | MEDROXYPROGESTERONE ACETATE |
| 006771617 | PO | MEDROXYPROGESTERONE ACETATE |
| 006771618 | PO | MEDROXYPROGESTERONE ACETATE |
| 006771619 | PO | MEDROXYPROGESTERONE ACETATE |
| 007036801 | IM | MEDROXYPROGESTERONE ACETATE |
| 007036811 | IM | MEDROXYPROGESTERONE ACETATE |
| 007811680 | PO | MEDROXYPROGESTERONE ACETATE |
| 008144660 | PO | MEDROXYPROGESTERONE ACETATE |
| 008320087 | PO | MEDROXYPROGESTERONE ACETATE |
| 008396610 | PO | MEDROXYPROGESTERONE ACETATE |
| 009042690 | PO | MEDROXYPROGESTERONE ACETATE |
| 009045227 | PO | MEDROXYPROGESTERONE ACETATE |
| 009045228 | PO | MEDROXYPROGESTERONE ACETATE |
| 105440001 | PO | MEDROXYPROGESTERONE ACETATE |
| 105440062 | PO | MEDROXYPROGESTERONE ACETATE |
| 118450341 | PO | MEDROXYPROGESTERONE ACETATE |
| 167140981 | IM | MEDROXYPROGESTERONE ACETATE |
| 167140999 | IM | MEDROXYPROGESTERONE ACETATE |
| 216950896 | PO | MEDROXYPROGESTERONE ACETATE |
| 234905853 | PO | MEDROXYPROGESTERONE ACETATE |
| 234905854 | IM | MEDROXYPROGESTERONE ACETATE |
| 234905855 | PO | MEDROXYPROGESTERONE ACETATE |
| 234905857 | PO | MEDROXYPROGESTERONE ACETATE |
| 332610534 | PO | MEDROXYPROGESTERONE ACETATE |
| 332610609 | PO | MEDROXYPROGESTERONE ACETATE |
| 332610740 | PO | MEDROXYPROGESTERONE ACETATE |

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| 353560364 | PO | MEDROXYPROGESTERONE ACETATE |
| 422540314 | PO | MEDROXYPROGESTERONE ACETATE |
| 430630438 | PO | MEDROXYPROGESTERONE ACETATE |
| 499990092 | PO | MEDROXYPROGESTERONE ACETATE |
| 499990272 | PO | PROVERA |
| 499990494 | PO | MEDROXYPROGESTERONE ACETATE |
| 500900166 | PO | MEDROXYPROGESTERONE ACETATE |
| 500900459 | IM | DEPO-PROVERA |
| 500900490 | PO | MEDROXYPROGESTERONE ACETATE |
| 500900491 | PO | MEDROXYPROGESTERONE ACETATE |
| 500900665 | IM | DEPO-PROVERA |
| 500900883 | IM | MEDROXYPROGESTERONE ACETATE |
| 500903328 | IM | MEDROXYPROGESTERONE ACETATE |
| 501020591 | IM | MEDROXYPROGESTERONE ACETATE |
| 512850540 | PO | MEDROXYPROGESTERONE ACETATE |
| 512850541 | PO | MEDROXYPROGESTERONE ACETATE |
| 512850542 | PO | MEDROXYPROGESTERONE ACETATE |
| 514320267 | PO | MEDROXYPROGESTERONE ACETATE |
| 525550463 | PO | MEDROXYPROGESTERONE ACETATE |
| 529590420 | PO | MEDROXYPROGESTERONE ACETATE |
| 529590943 | PO | MEDROXYPROGESTERONE ACETATE |
| 545690809 | PO | MEDROXYPROGESTERONE ACETATE |
| 545690816 | PO | PROVERA |
| 545691779 | PO | PROVERA |
| 545691849 | PO | PROVERA |
| 545693701 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 545693806 | PO | MEDROXYPROGESTERONE ACETATE |
| 545693807 | PO | MEDROXYPROGESTERONE ACETATE |
| 545693957 | IM | DEPO-PROVERA |
| 545693958 | IM | DEPO-PROVERA |
| 545694904 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 545695527 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 545695616 | IM | MEDROXYPROGESTERONE ACETATE |
| 545696219 | SC | DEPO-SUBQ PROVERA 104 |
| 545696771 | IM | MEDROXYPROGESTERONE ACETATE |
| 545698516 | PO | PROVERA |
| 545698524 | PO | PROVERA |
| 545698570 | PO | MEDROXYPROGESTERONE ACETATE |
| 545698571 | PO | MEDROXYPROGESTERONE ACETATE |
| 545698572 | PO | MEDROXYPROGESTERONE ACETATE |
| 548070550 | PO | MEDROXYPROGESTERONE ACETATE |
| 548680109 | PO | MEDROXYPROGESTERONE ACETATE |

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| 548680290 | PO | PROVERA |
| 548681010 | PO | PROVERA |
| 548682984 | PO | MEDROXYPROGESTERONE ACETATE |
| 548682985 | PO | MEDROXYPROGESTERONE ACETATE |
| 548683348 | IM | DEPO-PROVERA |
| 548683613 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 548684100 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 548685257 | IM | MEDROXYPROGESTERONE ACETATE |
| 550451989 | PO | MEDROXYPROGESTERONE ACETATE |
| 550453505 | IM | DEPO-PROVERA CONTRACEPTIVE |
| 550453940 | IM | MEDROXYPROGESTERONE ACETATE |
| 551750333 | PO | MEDROXYPROGESTERONE ACETATE |
| 551750334 | PO | MEDROXYPROGESTERONE ACETATE |
| 552890034 | PO | PROVERA |
| 552890121 | PO | PROVERA |
| 552890160 | PO | MEDROXYPROGESTERONE ACETATE |
| 552890816 | PO | MEDROXYPROGESTERONE ACETATE |
| 552890908 | PO | MEDROXYPROGESTERONE ACETATE |
| 557000699 | PO | MEDROXYPROGESTERONE ACETATE |
| 558290356 | PO | MEDROXYPROGESTERONE ACETATE |
| 558870291 | PO | MEDROXYPROGESTERONE ACETATE |
| 558870472 | PO | MEDROXYPROGESTERONE |
| 561260480 | PO | MEDROXYPROGESTERONE ACETATE |
| 580160926 | PO | MEDROXYPROGESTERONE ACETATE |
| 580160969 | PO | PROVERA |
| 584690399 | PO | MEDROXYPROGESTERONE ACETATE |
| 588640744 | PO | MEDROXYPROGESTERONE ACETATE |
| 597620055 | PO | MEDROXYPROGESTERONE ACETATE |
| 597620056 | PO | MEDROXYPROGESTERONE ACETATE |
| 597620058 | PO | MEDROXYPROGESTERONE ACETATE |
| 597623740 | PO | MEDROXYPROGESTERONE ACETATE |
| 597623741 | PO | MEDROXYPROGESTERONE ACETATE |
| 597623742 | PO | MEDROXYPROGESTERONE ACETATE |
| 597624537 | IM | MEDROXYPROGESTERONE ACETATE |
| 597624538 | IM | MEDROXYPROGESTERONE ACETATE |
| 599115896 | PO | CYCRIN |
| 599115897 | PO | CYCRIN |
| 599115898 | PO | CYCRIN |
| 603460213 | PO | MEDROXYPROGESTERONE ACETATE |
| 603460571 | PO | MEDROXYPROGESTERONE ACETATE |
| 603460603 | PO | PROVERA |
| 603460848 | PO | PROVERA |

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| 606870105 | PO | MEDROXYPROGESTERONE ACETATE |
| 626825005 | PO | MEDROXYPROGESTERONE ACETATE |
| 627560090 | IM | MEDROXYPROGESTERONE ACETATE |
| 631870382 | PO | MEDROXYPROGESTERONE ACETATE |
| 636292612 | PO | MEDROXYPROGESTERONE ACETATE |
| 636292613 | PO | MEDROXYPROGESTERONE |
| 661160288 | PO | MEDROXYPROGESTERONE ACETATE |
| 662670140 | PO | MEDROXYPROGESTERONE ACETATE |
| 662670141 | PO | MEDROXYPROGESTERONE ACETATE |
| 663360213 | PO | MEDROXYPROGESTERONE ACETATE |
| 663360603 | PO | MEDROXYPROGESTERONE ACETATE |
| 663360622 | PO | MEDROXYPROGESTERONE ACETATE |
| 674570887 | IM | MEDROXYPROGESTERONE ACETATE |
| 681150225 | PO | MEDROXYPROGESTERONE ACETATE |
| 712050118 | IM | MEDROXYPROGESTERONE ACETATE |
| 727890043 | PO | MEDROXYPROGESTERONE ACETATE |
| 000250235 | PO | NOR-QD |
| 000460894 | PO | AYGESTIN |
| 000621411 | PO | ORTHO MICRONOR |
| 000710882 | PO | NORLUTIN |
| 000710918 | PO | NORLUTATE |
| 003787272 | PO | NORETHINDRONE |
| 003787291 | PO | NORETHINDRONE ACETATE |
| 003787292 | PO | NORETHINDRONE |
| 005550211 | PO | NORETHINDRONE ACETATE |
| 005550344 | PO | ERRIN |
| 005550715 | PO | CAMILA |
| 167140073 | PO | NORETHINDRONE |
| 167140413 | PO | NORETHINDRONE |
| 167140440 | PO | DEBLITANE |
| 167140441 | PO | SHAROBEL |
| 332610752 | PO | NORETHINDRONE ACETATE |
| 333580269 | PO | NORETHINDRONE |
| 422910650 | PO | NORETHINDRONE ACETATE |
| 500902150 | PO | NORETHINDRONE |
| 500903235 | PO | NORLYDA |
| 501020100 | PO | LYZA |
| 501020200 | PO | TULANA |
| 501020300 | PO | LYLEQ |
| 502680602 | PO | NORETHINDRONE ACETATE |
| 504580194 | PO | ORTHO MICRONOR |
| 507420267 | PO | NORETHINDRONE ACETATE |

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| 512850424 | PO | AYGESTIN |
| 516600127 | PO | NORLYROC |
| 518620100 | PO | ERRIN |
| 518620102 | PO | CAMILA |
| 518620884 | PO | CAMILA |
| 518620886 | PO | ERRIN |
| 525440235 | PO | NOR-QD |
| 525440629 | PO | NORA-BE |
| 525440892 | PO | JOLIVETTE |
| 545694984 | PO | ORTHO MICRONOR |
| 545695161 | PO | NOR-QD |
| 545695396 | PO | NORETHINDRONE ACETATE |
| 545696565 | PO | NORETHINDRONE |
| 545696575 | PO | HEATHER |
| 548684369 | PO | ORTHO MICRONOR |
| 548684712 | PO | NOR-QD |
| 548684814 | PO | CAMILA |
| 548684829 | PO | NORETHINDRONE ACETATE |
| 550453498 | PO | ERRIN |
| 558870782 | PO | NORETHINDRONE |
| 580164827 | PO | NORETHINDRONE |
| 599115894 | PO | AYGESTIN |
| 631870748 | PO | NORETHINDRONE |
| 651620475 | PO | NORETHINDRONE ACETATE |
| 658620715 | PO | NORETHINDRONE ACETATE |
| 658620925 | PO | INCASSIA |
| 681800876 | PO | NORETHINDRONE |
| 681800877 | PO | JENCYCLA |
| 682585949 | PO | JOLIVETTE |
| 684620303 | PO | HEATHER |
| 684620304 | PO | NORETHINDRONE ACETATE |
| 684620305 | PO | NORETHINDRONE |
| 692381583 | PO | NORLYDA |
| 000080062 | PO | OVRETTE |
| 000021438 | IM | PROGESTERONE |
| 000321708 | PO | PROMETRIUM |
| 000321711 | PO | PROMETRIUM |
| 000935353 | PO | PROGESTERONE |
| 000935354 | PO | PROGESTERONE |
| 001439725 | IM | PROGESTERONE |
| 001820862 | IM | PROGESTERONE |
| 002238381 | IM | PROGESTERONE IN OIL |

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|-----------|----|----------------------------|
| 003140060 | IM | PROGESTERONE IN OIL |
| 003646683 | IM | PROGESTERONE IN SESAME OIL |
| 003742007 | NA | PROGESTERONE |
| 004020379 | IM | PROGESTERONE IN OIL |
| 004031756 | IM | PROGESTERONE IN OIL |
| 004180631 | IM | PROGESTERONE IN SESAME OIL |
| 004560921 | IM | GESTEROL 50 |
| 004631056 | IM | PROGEST |
| 005170750 | IM | PROGESTERONE |
| 005367400 | IM | PROGESTERONE IN OIL |
| 005740704 | IM | PROGESTERONE IN OIL |
| 005885056 | IM | PROGESTERONE IN OIL |
| 005913128 | IM | PROGESTERONE |
| 005913964 | PO | PROGESTERONE |
| 005913965 | PO | PROGESTERONE |
| 006770301 | IM | PROGESTERONE IN OIL |
| 006840113 | IM | PROGESTERONE IN SESAME OIL |
| 008146388 | IM | PROGESTERONE IN OIL |
| 008395165 | IM | PROGESTERONE IN OIL |
| 009041050 | IM | PROGESTERONE |
| 108887135 | PO | PROGESTERONE |
| 108887136 | PO | PROGESTERONE |
| 121205025 | NA | PROGESTERONE |
| 121205026 | NA | PROGESTERONE |
| 122800199 | PO | PROMETRIUM |
| 170222869 | IM | PROGESTERONE |
| 173144231 | IU | PROGESTASERT SYSTEM |
| 174780766 | PO | PROGESTERONE |
| 174780767 | PO | PROGESTERONE |
| 234909340 | PO | PROMETRIUM |
| 253320081 | IM | PROGESTERONE IN OIL |
| 422540408 | PO | PROGESTERONE |
| 422910688 | PO | PROGESTERONE |
| 422910689 | PO | PROGESTERONE |
| 422910690 | PO | PROGESTERONE |
| 422910691 | PO | PROGESTERONE |
| 430630649 | PO | PROGESTERONE |
| 435980349 | PO | PROGESTERONE MICRONIZED |
| 435980350 | PO | PROGESTERONE MICRONIZED |
| 490720589 | IM | PROGESTERONE IN OIL |
| 500902527 | PO | PROGESTERONE |
| 500903240 | PO | PROGESTERONE |

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|-----------|----|----------------------------|
| 545692160 | IM | PROGESTERONE |
| 545696608 | PO | PROGESTERONE |
| 548683396 | IM | PROGESTERONE |
| 548684230 | PO | PROMETRIUM |
| 548684250 | PO | PROMETRIUM |
| 551500306 | IM | PROGESTERONE |
| 555666500 | VG | ENDOMETRIN |
| 557260598 | IM | CPC-CARPENTERS |
| 575480379 | IM | PROGESTERONE |
| 594410607 | IM | PROGESTERONE |
| 596510152 | PO | PROGESTERONE |
| 596510153 | PO | PROGESTERONE |
| 604290281 | PO | PROGESTERONE |
| 604290282 | PO | PROGESTERONE |
| 604290868 | PO | PROGESTERONE MICRONIZED |
| 604290869 | PO | PROGESTERONE MICRONIZED |
| 633230261 | IM | PROGESTERONE IN SESAME OIL |
| 651620807 | PO | PROGESTERONE |
| 651620808 | PO | PROGESTERONE |
| 681150819 | PO | PROMETRIUM |
| 687887199 | PO | PROGESTERONE |
| 693870101 | PO | PROGESTERONE |
| 693870102 | PO | PROGESTERONE |
| 694520148 | PO | PROGESTERONE |
| 694520149 | PO | PROGESTERONE |
| 694520233 | PO | PROGESTERONE |
| 694520234 | PO | PROGESTERONE |
| 695430372 | PO | PROMETRIUM |
| 695430373 | PO | PROMETRIUM |
| 695430374 | PO | PROGESTERONE |
| 695430375 | PO | PROGESTERONE |
| 712050293 | PO | PROGESTERONE |
| 713350713 | PO | PROGESTERONE |

APPENDIX TABLE A (CONT'D): ANTI-COAGULANTS (EXCLUDING HEPARIN FLUSHES)

| NDC | Name |
|-------------|-----------------------------------|
| 00548563200 | AMERINET CHOICE ENOXAPARIN SODIUM |
| 00548563100 | AMERINET CHOICE ENOXAPARIN SODIUM |

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|-------------|-----------------------------------|
| 00548563500 | AMERINET CHOICE ENOXAPARIN SODIUM |
| 00548563400 | AMERINET CHOICE ENOXAPARIN SODIUM |
| 00548563700 | AMERINET CHOICE ENOXAPARIN SODIUM |
| 00548563300 | AMERINET CHOICE ENOXAPARIN SODIUM |
| 00548563600 | AMERINET CHOICE ENOXAPARIN SODIUM |
| 00056003002 | CALCIPARINE |
| 54868215402 | COUMADIN |
| 54868212802 | COUMADIN |
| 54868212803 | COUMADIN |
| 54868212902 | COUMADIN |
| 54868212901 | COUMADIN |
| 54569854200 | COUMADIN |
| 54868525500 | COUMADIN |
| 54868215401 | COUMADIN |
| 54868225200 | COUMADIN |
| 54868215400 | COUMADIN |
| 54868125906 | COUMADIN |
| 54868215403 | COUMADIN |
| 54868339900 | COUMADIN |
| 54868525501 | COUMADIN |
| 54868406300 | COUMADIN |
| 54868125903 | COUMADIN |
| 54868125902 | COUMADIN |
| 54868125904 | COUMADIN |
| 54868212900 | COUMADIN |
| 54868125901 | COUMADIN |
| 54868406301 | COUMADIN |
| 54868245401 | COUMADIN |
| 54868245402 | COUMADIN |
| 54868245400 | COUMADIN |
| 54868125900 | COUMADIN |
| 54868339901 | COUMADIN |
| 54868225201 | COUMADIN |
| 54868125907 | COUMADIN |
| 54868125905 | COUMADIN |
| 54868212903 | COUMADIN |
| 54868212801 | COUMADIN |

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| 54868212800 | COUMADIN |
| 55289014397 | COUMADIN |
| 55289028630 | COUMADIN |
| 55289028650 | COUMADIN |
| 55289028697 | COUMADIN |
| 55175538003 | COUMADIN |
| 54569444300 | COUMADIN |
| 54569015801 | COUMADIN |
| 54569021201 | COUMADIN |
| 54569021202 | COUMADIN |
| 54569187701 | COUMADIN |
| 54569015901 | COUMADIN |
| 54569015900 | COUMADIN |
| 54569187700 | COUMADIN |
| 54569444301 | COUMADIN |
| 54569015800 | COUMADIN |
| 49999009330 | COUMADIN |
| 50090002800 | COUMADIN |
| 49999041130 | COUMADIN |
| 68115009330 | COUMADIN |
| 68115009230 | COUMADIN |
| 66105052310 | COUMADIN |
| 66105051910 | COUMADIN |
| 66105051810 | COUMADIN |
| 66267063600 | COUMADIN |
| 66105011010 | COUMADIN |
| 66105052110 | COUMADIN |
| 66267063300 | COUMADIN |
| 66267062800 | COUMADIN |
| 66267063200 | COUMADIN |
| 66267063100 | COUMADIN |
| 66267063000 | COUMADIN |
| 66267062900 | COUMADIN |
| 66105017610 | COUMADIN |
| 66267063400 | COUMADIN |
| 66105017070 | COUMADIN |
| 66267063500 | COUMADIN |
| 60346038125 | COUMADIN |
| 60346038130 | COUMADIN |
| 60346091830 | COUMADIN |

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|-------------|----------|
| 58864022314 | COUMADIN |
| 58864022330 | COUMADIN |
| 58864003030 | COUMADIN |
| 58864003014 | COUMADIN |
| 58864035715 | COUMADIN |
| 35356054090 | COUMADIN |
| 00403068301 | COUMADIN |
| 00403481701 | COUMADIN |
| 00403068330 | COUMADIN |
| 00403065330 | COUMADIN |
| 00590032496 | COUMADIN |
| 00590032435 | COUMADIN |
| 00056017090 | COUMADIN |
| 00056017075 | COUMADIN |
| 00056016875 | COUMADIN |
| 00056017301 | COUMADIN |
| 00056017070 | COUMADIN |
| 00056017230 | COUMADIN |
| 00056016970 | COUMADIN |
| 00056016890 | COUMADIN |
| 00056017470 | COUMADIN |
| 00056017030 | COUMADIN |
| 00056017670 | COUMADIN |
| 00056016975 | COUMADIN |
| 00056017201 | COUMADIN |
| 00056017270 | COUMADIN |
| 00056017675 | COUMADIN |
| 00056018875 | COUMADIN |
| 00056018801 | COUMADIN |
| 00056017401 | COUMADIN |
| 00056018901 | COUMADIN |
| 00056016990 | COUMADIN |
| 00056017475 | COUMADIN |
| 00056018970 | COUMADIN |
| 00056018870 | COUMADIN |
| 00056017690 | COUMADIN |
| 00056017630 | COUMADIN |
| 00056017601 | COUMADIN |
| 00056017375 | COUMADIN |
| 00056017290 | COUMADIN |

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| 00056017275 | COUMADIN |
| 00056017001 | COUMADIN |
| 00056016901 | COUMADIN |
| 00056016870 | COUMADIN |
| 00056016801 | COUMADIN |
| 00056017370 | COUMADIN |
| 00056018890 | COUMADIN |
| 00056018975 | COUMADIN |
| 00056018990 | COUMADIN |
| 00074779361 | DEXTROSE/HEPARIN SODIUM |
| 00074628611 | DEXTROSE/HEPARIN SODIUM |
| 00074779362 | DEXTROSE/HEPARIN SODIUM |
| 00074779462 | DEXTROSE/HEPARIN SODIUM |
| 00074628703 | DEXTROSE/HEPARIN SODIUM |
| 00074779312 | DEXTROSE/HEPARIN SODIUM |
| 00074779461 | DEXTROSE/HEPARIN SODIUM |
| 00074779423 | DEXTROSE/HEPARIN SODIUM |
| 00074779412 | DEXTROSE/HEPARIN SODIUM |
| 00074628602 | DEXTROSE/HEPARIN SODIUM |
| 00074779323 | DEXTROSE/HEPARIN SODIUM |
| 00074776103 | DEXTROSE/HEPARIN SODIUM |
| 00074776003 | DEXTROSE/HEPARIN SODIUM |
| 00074628702 | DEXTROSE/HEPARIN SODIUM |
| 00409776003 | DEXTROSE/HEPARIN SODIUM |
| 00409779352 | DEXTROSE/HEPARIN SODIUM |
| 00409776103 | DEXTROSE/HEPARIN SODIUM |
| 00409779362 | DEXTROSE/HEPARIN SODIUM |
| 00264957710 | DEXTROSE/HEPARIN SODIUM |
| 00338054903 | DEXTROSE/HEPARIN SODIUM |
| 00338044903 | DEXTROSE/HEPARIN SODIUM |
| 00338045003 | DEXTROSE/HEPARIN SODIUM |
| 00264956710 | DEXTROSE/HEPARIN SODIUM |
| 00264958720 | DEXTROSE/HEPARIN SODIUM |
| 00338055003 | DEXTROSE/HEPARIN SODIUM |
| 00338055002 | DEXTROSE/HEPARIN SODIUM |
| 00264557710 | DEXTROSE/HEPARIN SODIUM |
| 00338045102 | DEXTROSE/HEPARIN SODIUM |
| 50090143600 | ELIQUIS |
| 50090143700 | ELIQUIS |
| 54569651300 | ELIQUIS |

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|-------------|-----------------------------|
| 54569651400 | ELIQUIS |
| 00003089431 | ELIQUIS |
| 00003089421 | ELIQUIS |
| 00003089331 | ELIQUIS |
| 00003089321 | ELIQUIS |
| 00003089491 | ELIQUIS |
| 00003089470 | ELIQUIS |
| 00003376432 | ELIQUIS 30 DAY STARTER PACK |
| 00003376442 | ELIQUIS 30 DAY STARTER PACK |
| 00003376474 | ELIQUIS 30 DAY STARTER PACK |
| 63323056586 | ENOXAPARIN SODIUM |
| 63323056883 | ENOXAPARIN SODIUM |
| 63323056887 | ENOXAPARIN SODIUM |
| 63323056984 | ENOXAPARIN SODIUM |
| 63323056884 | ENOXAPARIN SODIUM |
| 63323056890 | ENOXAPARIN SODIUM |
| 63323056888 | ENOXAPARIN SODIUM |
| 63323056990 | ENOXAPARIN SODIUM |
| 62037086420 | ENOXAPARIN SODIUM |
| 62037083920 | ENOXAPARIN SODIUM |
| 62037084920 | ENOXAPARIN SODIUM |
| 62037086320 | ENOXAPARIN SODIUM |
| 62037086120 | ENOXAPARIN SODIUM |
| 62037086620 | ENOXAPARIN SODIUM |
| 62037086220 | ENOXAPARIN SODIUM |
| 60505079200 | ENOXAPARIN SODIUM |
| 60505079504 | ENOXAPARIN SODIUM |
| 60505079600 | ENOXAPARIN SODIUM |
| 60505079400 | ENOXAPARIN SODIUM |
| 60505079100 | ENOXAPARIN SODIUM |
| 60505079204 | ENOXAPARIN SODIUM |
| 60505079300 | ENOXAPARIN SODIUM |
| 60505079404 | ENOXAPARIN SODIUM |
| 60505079800 | ENOXAPARIN SODIUM |
| 60505079104 | ENOXAPARIN SODIUM |
| 60505079304 | ENOXAPARIN SODIUM |
| 60505079804 | ENOXAPARIN SODIUM |
| 60505079501 | ENOXAPARIN SODIUM |
| 60505079604 | ENOXAPARIN SODIUM |
| 50090344500 | ENOXAPARIN SODIUM |

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| 54569678400 | ENOXAPARIN SODIUM |
| 00548560600 | ENOXAPARIN SODIUM |
| 00548560700 | ENOXAPARIN SODIUM |
| 00548560300 | ENOXAPARIN SODIUM |
| 00548560200 | ENOXAPARIN SODIUM |
| 00548560400 | ENOXAPARIN SODIUM |
| 00548560500 | ENOXAPARIN SODIUM |
| 00548560100 | ENOXAPARIN SODIUM |
| 00781312168 | ENOXAPARIN SODIUM |
| 00781312293 | ENOXAPARIN SODIUM |
| 00781311968 | ENOXAPARIN SODIUM |
| 00781311903 | ENOXAPARIN SODIUM |
| 00781312105 | ENOXAPARIN SODIUM |
| 00703868021 | ENOXAPARIN SODIUM |
| 00781311901 | ENOXAPARIN SODIUM |
| 00781311905 | ENOXAPARIN SODIUM |
| 00703854023 | ENOXAPARIN SODIUM |
| 00703853023 | ENOXAPARIN SODIUM |
| 00781342868 | ENOXAPARIN SODIUM |
| 00781361268 | ENOXAPARIN SODIUM |
| 00781350005 | ENOXAPARIN SODIUM |
| 00781350069 | ENOXAPARIN SODIUM |
| 00781361204 | ENOXAPARIN SODIUM |
| 00703861023 | ENOXAPARIN SODIUM |
| 00781312104 | ENOXAPARIN SODIUM |
| 00781365569 | ENOXAPARIN SODIUM |
| 00781365505 | ENOXAPARIN SODIUM |
| 00781342804 | ENOXAPARIN SODIUM |
| 00781335666 | ENOXAPARIN SODIUM |
| 00781335603 | ENOXAPARIN SODIUM |
| 00781322464 | ENOXAPARIN SODIUM |
| 00781313363 | ENOXAPARIN SODIUM |
| 00781313301 | ENOXAPARIN SODIUM |
| 00703854021 | ENOXAPARIN SODIUM |
| 00781312169 | ENOXAPARIN SODIUM |
| 00781311969 | ENOXAPARIN SODIUM |
| 00781311964 | ENOXAPARIN SODIUM |
| 00781311963 | ENOXAPARIN SODIUM |
| 00781311902 | ENOXAPARIN SODIUM |
| 00703861021 | ENOXAPARIN SODIUM |

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| 00703858023 | ENOXAPARIN SODIUM |
| 00703856023 | ENOXAPARIN SODIUM |
| 00703868023 | ENOXAPARIN SODIUM |
| 00703856021 | ENOXAPARIN SODIUM |
| 00781311904 | ENOXAPARIN SODIUM |
| 00781311966 | ENOXAPARIN SODIUM |
| 00703851021 | ENOXAPARIN SODIUM |
| 00703853021 | ENOXAPARIN SODIUM |
| 00703851023 | ENOXAPARIN SODIUM |
| 00781322402 | ENOXAPARIN SODIUM |
| 00703858021 | ENOXAPARIN SODIUM |
| 00955101510 | ENOXAPARIN SODIUM |
| 00955100810 | ENOXAPARIN SODIUM |
| 00955100310 | ENOXAPARIN SODIUM |
| 00955101010 | ENOXAPARIN SODIUM |
| 00955100610 | ENOXAPARIN SODIUM |
| 00955100410 | ENOXAPARIN SODIUM |
| 00955101601 | ENOXAPARIN SODIUM |
| 00955101210 | ENOXAPARIN SODIUM |
| 63323056999 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056898 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056995 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056896 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056899 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056894 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056593 | ENOXAPARIN SODIUM NOVAPLUS |
| 63323056895 | ENOXAPARIN SODIUM NOVAPLUS |
| 62856050001 | FRAGMIN |
| 62856015001 | FRAGMIN |
| 62856015010 | FRAGMIN |
| 62856025001 | FRAGMIN |
| 62856012510 | FRAGMIN |
| 62856075010 | FRAGMIN |
| 62856018010 | FRAGMIN |
| 62856010110 | FRAGMIN |
| 62856010201 | FRAGMIN |
| 62856018001 | FRAGMIN |
| 62856025010 | FRAGMIN |
| 62856075001 | FRAGMIN |
| 62856010101 | FRAGMIN |

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| 62856025101 | FRAGMIN |
| 62856012501 | FRAGMIN |
| 62856050010 | FRAGMIN |
| 00069022301 | FRAGMIN |
| 00069022302 | FRAGMIN |
| 00069022001 | FRAGMIN |
| 00069020602 | FRAGMIN |
| 00069020601 | FRAGMIN |
| 00069021701 | FRAGMIN |
| 00069022002 | FRAGMIN |
| 00069019602 | FRAGMIN |
| 00069019501 | FRAGMIN |
| 00069022801 | FRAGMIN |
| 00069023201 | FRAGMIN |
| 00069019601 | FRAGMIN |
| 00069022802 | FRAGMIN |
| 00069021702 | FRAGMIN |
| 00069019502 | FRAGMIN |
| 00013242601 | FRAGMIN |
| 00013242691 | FRAGMIN |
| 00013243606 | FRAGMIN |
| 00013240691 | FRAGMIN |
| 00013519101 | FRAGMIN |
| 00013519001 | FRAGMIN |
| 63323045909 | HEPARIN SODIUM |
| 63739090026 | HEPARIN SODIUM |
| 63323003810 | HEPARIN SODIUM |
| 63739092025 | HEPARIN SODIUM |
| 63323054011 | HEPARIN SODIUM |
| 63323091501 | HEPARIN SODIUM |
| 63323054201 | HEPARIN SODIUM |
| 63323003830 | HEPARIN SODIUM |
| 63323004710 | HEPARIN SODIUM |
| 63323054001 | HEPARIN SODIUM |
| 63323054207 | HEPARIN SODIUM |
| 63739094229 | HEPARIN SODIUM |
| 63323027602 | HEPARIN SODIUM |
| 63739093128 | HEPARIN SODIUM |
| 63739090128 | HEPARIN SODIUM |
| 63739095325 | HEPARIN SODIUM |

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| 63739096425 | HEPARIN SODIUM |
| 63323026201 | HEPARIN SODIUM |
| 63323054302 | HEPARIN SODIUM |
| 63739095311 | HEPARIN SODIUM |
| 63323054031 | HEPARIN SODIUM |
| 63739098625 | HEPARIN SODIUM |
| 67457037212 | HEPARIN SODIUM |
| 67457038431 | HEPARIN SODIUM |
| 67457038399 | HEPARIN SODIUM |
| 67457037412 | HEPARIN SODIUM |
| 67457038310 | HEPARIN SODIUM |
| 67457038510 | HEPARIN SODIUM |
| 67457060399 | HEPARIN SODIUM |
| 67457060305 | HEPARIN SODIUM |
| 67457060299 | HEPARIN SODIUM |
| 67457037299 | HEPARIN SODIUM |
| 67457060202 | HEPARIN SODIUM |
| 67457038599 | HEPARIN SODIUM |
| 67457038499 | HEPARIN SODIUM |
| 67457037399 | HEPARIN SODIUM |
| 67457037312 | HEPARIN SODIUM |
| 67457037499 | HEPARIN SODIUM |
| 71019011003 | HEPARIN SODIUM |
| 71019011001 | HEPARIN SODIUM |
| 71019011005 | HEPARIN SODIUM |
| 71019012801 | HEPARIN SODIUM |
| 71019011004 | HEPARIN SODIUM |
| 71019011002 | HEPARIN SODIUM |
| 71019011006 | HEPARIN SODIUM |
| 61553092860 | HEPARIN SODIUM |
| 61553092570 | HEPARIN SODIUM |
| 61553092160 | HEPARIN SODIUM |
| 61553092245 | HEPARIN SODIUM |
| 61553092680 | HEPARIN SODIUM |
| 61553092472 | HEPARIN SODIUM |
| 49072029130 | HEPARIN SODIUM |
| 49072029710 | HEPARIN SODIUM |
| 49072029905 | HEPARIN SODIUM |
| 54868048500 | HEPARIN SODIUM |
| 54569426600 | HEPARIN SODIUM |

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| 54569426700 | HEPARIN SODIUM |
| 00024073357 | HEPARIN SODIUM |
| 00008027703 | HEPARIN SODIUM |
| 00002721701 | HEPARIN SODIUM |
| 00009031708 | HEPARIN SODIUM |
| 00008029301 | HEPARIN SODIUM |
| 00008027702 | HEPARIN SODIUM |
| 00008027701 | HEPARIN SODIUM |
| 00008027550 | HEPARIN SODIUM |
| 00008027501 | HEPARIN SODIUM |
| 00009031709 | HEPARIN SODIUM |
| 00009031710 | HEPARIN SODIUM |
| 00008048201 | HEPARIN SODIUM |
| 00009026812 | HEPARIN SODIUM |
| 00009031711 | HEPARIN SODIUM |
| 00009026802 | HEPARIN SODIUM |
| 00009031701 | HEPARIN SODIUM |
| 00024073350 | HEPARIN SODIUM |
| 00024073359 | HEPARIN SODIUM |
| 00009026801 | HEPARIN SODIUM |
| 00009029101 | HEPARIN SODIUM |
| 00008027601 | HEPARIN SODIUM |
| 00008027802 | HEPARIN SODIUM |
| 00009031702 | HEPARIN SODIUM |
| 00009026807 | HEPARIN SODIUM |
| 00074140211 | HEPARIN SODIUM |
| 00074258102 | HEPARIN SODIUM |
| 00074258202 | HEPARIN SODIUM |
| 00074258302 | HEPARIN SODIUM |
| 00074131631 | HEPARIN SODIUM |
| 00074131614 | HEPARIN SODIUM |
| 00069005903 | HEPARIN SODIUM |
| 00069006201 | HEPARIN SODIUM |
| 00074140231 | HEPARIN SODIUM |
| 00074140201 | HEPARIN SODIUM |
| 00074131601 | HEPARIN SODIUM |
| 00069005901 | HEPARIN SODIUM |
| 00074131632 | HEPARIN SODIUM |
| 00074258402 | HEPARIN SODIUM |
| 00074131602 | HEPARIN SODIUM |

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| 00074131612 | HEPARIN SODIUM |
| 00069004301 | HEPARIN SODIUM |
| 00069005904 | HEPARIN SODIUM |
| 00069004302 | HEPARIN SODIUM |
| 00069005802 | HEPARIN SODIUM |
| 00074131613 | HEPARIN SODIUM |
| 00074131611 | HEPARIN SODIUM |
| 00069013703 | HEPARIN SODIUM |
| 00069013701 | HEPARIN SODIUM |
| 00069006202 | HEPARIN SODIUM |
| 00074131666 | HEPARIN SODIUM |
| 00069005801 | HEPARIN SODIUM |
| 00069005902 | HEPARIN SODIUM |
| 00536490070 | HEPARIN SODIUM |
| 00641040012 | HEPARIN SODIUM |
| 00641040002 | HEPARIN SODIUM |
| 00641040037 | HEPARIN SODIUM |
| 00641041002 | HEPARIN SODIUM |
| 00641040025 | HEPARIN SODIUM |
| 00641041021 | HEPARIN SODIUM |
| 00641040021 | HEPARIN SODIUM |
| 00641039121 | HEPARIN SODIUM |
| 00536492570 | HEPARIN SODIUM |
| 00641039164 | HEPARIN SODIUM |
| 00641041037 | HEPARIN SODIUM |
| 00536495065 | HEPARIN SODIUM |
| 00641041064 | HEPARIN SODIUM |
| 00641039102 | HEPARIN SODIUM |
| 00641039112 | HEPARIN SODIUM |
| 00641041012 | HEPARIN SODIUM |
| 00641039125 | HEPARIN SODIUM |
| 00641041025 | HEPARIN SODIUM |
| 00641040064 | HEPARIN SODIUM |
| 00641039137 | HEPARIN SODIUM |
| 00409140231 | HEPARIN SODIUM |
| 00418446105 | HEPARIN SODIUM |
| 00402046310 | HEPARIN SODIUM |
| 00402051905 | HEPARIN SODIUM |
| 00409140227 | HEPARIN SODIUM |
| 00409131666 | HEPARIN SODIUM |

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| 00418445141 | HEPARIN SODIUM |
| 00418435141 | HEPARIN SODIUM |
| 00403064918 | HEPARIN SODIUM |
| 00469083300 | HEPARIN SODIUM |
| 00418530101 | HEPARIN SODIUM |
| 00418434105 | HEPARIN SODIUM |
| 00409272302 | HEPARIN SODIUM |
| 00409272003 | HEPARIN SODIUM |
| 00409272101 | HEPARIN SODIUM |
| 00409272301 | HEPARIN SODIUM |
| 00409272330 | HEPARIN SODIUM |
| 00409272331 | HEPARIN SODIUM |
| 00409272032 | HEPARIN SODIUM |
| 00409272130 | HEPARIN SODIUM |
| 00409272031 | HEPARIN SODIUM |
| 00409272030 | HEPARIN SODIUM |
| 00409272002 | HEPARIN SODIUM |
| 00409272001 | HEPARIN SODIUM |
| 00409258402 | HEPARIN SODIUM |
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| 00641244045 | HEPARIN SODIUM |
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| 23490648003 | WARFARIN SODIUM |
| 21695067360 | WARFARIN SODIUM |
| 31722033201 | WARFARIN SODIUM |
| 31722033301 | WARFARIN SODIUM |
| 31722032901 | WARFARIN SODIUM |
| 31722032801 | WARFARIN SODIUM |
| 31722032710 | WARFARIN SODIUM |
| 21695093930 | WARFARIN SODIUM |
| 31722033501 | WARFARIN SODIUM |
| 23490648403 | WARFARIN SODIUM |
| 23490648402 | WARFARIN SODIUM |
| 23490648401 | WARFARIN SODIUM |
| 23490648302 | WARFARIN SODIUM |
| 23490648301 | WARFARIN SODIUM |
| 23490648203 | WARFARIN SODIUM |
| 23490648201 | WARFARIN SODIUM |
| 23490648101 | WARFARIN SODIUM |
| 23490648001 | WARFARIN SODIUM |
| 31722032701 | WARFARIN SODIUM |
| 23490647802 | WARFARIN SODIUM |
| 31722033401 | WARFARIN SODIUM |
| 23490648103 | WARFARIN SODIUM |
| 31722033101 | WARFARIN SODIUM |
| 21695067230 | WARFARIN SODIUM |
| 31722033210 | WARFARIN SODIUM |
| 31722033001 | WARFARIN SODIUM |
| 21695067430 | WARFARIN SODIUM |
| 21695067530 | WARFARIN SODIUM |
| 23490647801 | WARFARIN SODIUM |
| 31722032910 | WARFARIN SODIUM |
| 23490647803 | WARFARIN SODIUM |
| 21695067730 | WARFARIN SODIUM |
| 16590034130 | WARFARIN SODIUM |
| 16590034060 | WARFARIN SODIUM |
| 16590034190 | WARFARIN SODIUM |

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| 16590034030 | WARFARIN SODIUM |
| 16590034160 | WARFARIN SODIUM |
| 16590034090 | WARFARIN SODIUM |
| 43063017614 | WARFARIN SODIUM |
| 43063017630 | WARFARIN SODIUM |
| 42549049730 | WARFARIN SODIUM |
| 42549049630 | WARFARIN SODIUM |
| 33261035520 | WARFARIN SODIUM |
| 33261035607 | WARFARIN SODIUM |
| 33261035621 | WARFARIN SODIUM |
| 33261099960 | WARFARIN SODIUM |
| 33261099890 | WARFARIN SODIUM |
| 33261035590 | WARFARIN SODIUM |
| 33261035630 | WARFARIN SODIUM |
| 33261035690 | WARFARIN SODIUM |
| 33261099790 | WARFARIN SODIUM |
| 35356058230 | WARFARIN SODIUM |
| 33261099090 | WARFARIN SODIUM |
| 35356058290 | WARFARIN SODIUM |
| 33261099730 | WARFARIN SODIUM |
| 33261035530 | WARFARIN SODIUM |
| 33261035521 | WARFARIN SODIUM |
| 33261035560 | WARFARIN SODIUM |
| 33261035528 | WARFARIN SODIUM |
| 33261035514 | WARFARIN SODIUM |
| 33261035707 | WARFARIN SODIUM |
| 33261099860 | WARFARIN SODIUM |
| 33261099030 | WARFARIN SODIUM |
| 33261035614 | WARFARIN SODIUM |
| 33261035720 | WARFARIN SODIUM |
| 35356057130 | WARFARIN SODIUM |
| 35356039760 | WARFARIN SODIUM |
| 33261035628 | WARFARIN SODIUM |
| 35356090690 | WARFARIN SODIUM |
| 33261099000 | WARFARIN SODIUM |
| 33261099930 | WARFARIN SODIUM |
| 33261035730 | WARFARIN SODIUM |
| 33261035728 | WARFARIN SODIUM |
| 35356057160 | WARFARIN SODIUM |
| 33261035710 | WARFARIN SODIUM |

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| 35356039730 | WARFARIN SODIUM |
| 33261035790 | WARFARIN SODIUM |
| 33261035714 | WARFARIN SODIUM |
| 33261035500 | WARFARIN SODIUM |
| 33261099060 | WARFARIN SODIUM |
| 33261099760 | WARFARIN SODIUM |
| 33261099830 | WARFARIN SODIUM |
| 33261099990 | WARFARIN SODIUM |
| 33261035620 | WARFARIN SODIUM |
| 35356058260 | WARFARIN SODIUM |
| 33261035721 | WARFARIN SODIUM |
| 33261035507 | WARFARIN SODIUM |
| 33261035660 | WARFARIN SODIUM |
| 35356057190 | WARFARIN SODIUM |
| 33261035760 | WARFARIN SODIUM |
| 35356039790 | WARFARIN SODIUM |
| 35356090630 | WARFARIN SODIUM |
| 15330010701 | WARFARIN SODIUM |
| 15330026810 | WARFARIN SODIUM |
| 15330010201 | WARFARIN SODIUM |
| 15330026701 | WARFARIN SODIUM |
| 15330010210 | WARFARIN SODIUM |
| 12280031230 | WARFARIN SODIUM |
| 15330010801 | WARFARIN SODIUM |
| 15330010601 | WARFARIN SODIUM |
| 15330010101 | WARFARIN SODIUM |
| 15330026801 | WARFARIN SODIUM |
| 15330010001 | WARFARIN SODIUM |
| 12280031290 | WARFARIN SODIUM |
| 15330026601 | WARFARIN SODIUM |
| 15330010110 | WARFARIN SODIUM |
| 12280031260 | WARFARIN SODIUM |
| 15330010010 | WARFARIN SODIUM |
| 00781036307 | WARFARIN SODIUM |
| 00781038107 | WARFARIN SODIUM |
| 00781036407 | WARFARIN SODIUM |
| 00781038707 | WARFARIN SODIUM |
| 00781038607 | WARFARIN SODIUM |
| 00677079401 | WARFARIN SODIUM |
| 00781036607 | WARFARIN SODIUM |

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| 00814852214 | WARFARIN SODIUM |
| 00781037707 | WARFARIN SODIUM |
| 00781036907 | WARFARIN SODIUM |
| 00781035207 | WARFARIN SODIUM |
| 00904256270 | WARFARIN SODIUM |
| 00904256160 | WARFARIN SODIUM |
| 00904256260 | WARFARIN SODIUM |
| 00904256060 | WARFARIN SODIUM |
| 00904256280 | WARFARIN SODIUM |
| 00349839101 | WARFARIN SODIUM |
| 00378880410 | WARFARIN SODIUM |
| 00339653712 | WARFARIN SODIUM |
| 00378880610 | WARFARIN SODIUM |
| 00378887501 | WARFARIN SODIUM |
| 00302820401 | WARFARIN SODIUM |
| 00349839001 | WARFARIN SODIUM |
| 00339654312 | WARFARIN SODIUM |
| 00378880101 | WARFARIN SODIUM |
| 00378880501 | WARFARIN SODIUM |
| 00339654012 | WARFARIN SODIUM |
| 00378880210 | WARFARIN SODIUM |
| 00339653912 | WARFARIN SODIUM |
| 00339653812 | WARFARIN SODIUM |
| 00339654512 | WARFARIN SODIUM |
| 00378880310 | WARFARIN SODIUM |
| 00378881001 | WARFARIN SODIUM |
| 00378880301 | WARFARIN SODIUM |
| 00378881010 | WARFARIN SODIUM |
| 00378880401 | WARFARIN SODIUM |
| 00378880201 | WARFARIN SODIUM |
| 00378880110 | WARFARIN SODIUM |
| 00378887510 | WARFARIN SODIUM |
| 00339654412 | WARFARIN SODIUM |
| 00378880601 | WARFARIN SODIUM |
| 00378882501 | WARFARIN SODIUM |
| 00339654112 | WARFARIN SODIUM |
| 00378880510 | WARFARIN SODIUM |
| 00302820201 | WARFARIN SODIUM |
| 00302820001 | WARFARIN SODIUM |
| 00378882510 | WARFARIN SODIUM |

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| 00339654212 | WARFARIN SODIUM |
| 00182267989 | WARFARIN SODIUM |
| 00182267189 | WARFARIN SODIUM |
| 00182267889 | WARFARIN SODIUM |
| 00182267401 | WARFARIN SODIUM |
| 00182267701 | WARFARIN SODIUM |
| 00182267489 | WARFARIN SODIUM |
| 00182267210 | WARFARIN SODIUM |
| 00182267501 | WARFARIN SODIUM |
| 00182267689 | WARFARIN SODIUM |
| 00223237501 | WARFARIN SODIUM |
| 00182267101 | WARFARIN SODIUM |
| 00182267589 | WARFARIN SODIUM |
| 00223237502 | WARFARIN SODIUM |
| 00223237702 | WARFARIN SODIUM |
| 00223237701 | WARFARIN SODIUM |
| 00223237802 | WARFARIN SODIUM |
| 00223237902 | WARFARIN SODIUM |
| 00223237901 | WARFARIN SODIUM |
| 00182267110 | WARFARIN SODIUM |
| 00182267389 | WARFARIN SODIUM |
| 00182267201 | WARFARIN SODIUM |
| 00223237601 | WARFARIN SODIUM |
| 00223237602 | WARFARIN SODIUM |
| 00182267901 | WARFARIN SODIUM |
| 00182267789 | WARFARIN SODIUM |
| 00182267801 | WARFARIN SODIUM |
| 00223237801 | WARFARIN SODIUM |
| 00182267601 | WARFARIN SODIUM |
| 00182267610 | WARFARIN SODIUM |
| 00182267301 | WARFARIN SODIUM |
| 00182267289 | WARFARIN SODIUM |
| 00182267310 | WARFARIN SODIUM |
| 00406205901 | WARFARIN SODIUM |
| 00527107201 | WARFARIN SODIUM |
| 00527100310 | WARFARIN SODIUM |
| 00527100301 | WARFARIN SODIUM |
| 00406205310 | WARFARIN SODIUM |
| 00406205401 | WARFARIN SODIUM |
| 00406205410 | WARFARIN SODIUM |

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| 00406205801 | WARFARIN SODIUM |
| 00406205610 | WARFARIN SODIUM |
| 00406205701 | WARFARIN SODIUM |
| 00527106410 | WARFARIN SODIUM |
| 00406206401 | WARFARIN SODIUM |
| 00406205210 | WARFARIN SODIUM |
| 00406206410 | WARFARIN SODIUM |
| 00406205301 | WARFARIN SODIUM |
| 00406205501 | WARFARIN SODIUM |
| 00406205201 | WARFARIN SODIUM |
| 00406205601 | WARFARIN SODIUM |
| 00406205510 | WARFARIN SODIUM |
| 00555083205 | WARFARIN SODIUM |
| 00555083105 | WARFARIN SODIUM |
| 00555083302 | WARFARIN SODIUM |
| 00555083202 | WARFARIN SODIUM |
| 00615151253 | WARFARIN SODIUM |
| 00615454853 | WARFARIN SODIUM |
| 00555087405 | WARFARIN SODIUM |
| 00555087402 | WARFARIN SODIUM |
| 00555086905 | WARFARIN SODIUM |
| 00615150963 | WARFARIN SODIUM |
| 00615454763 | WARFARIN SODIUM |
| 00615455729 | WARFARIN SODIUM |
| 00615151229 | WARFARIN SODIUM |
| 00615151263 | WARFARIN SODIUM |
| 00615151029 | WARFARIN SODIUM |
| 00555083502 | WARFARIN SODIUM |
| 00615454953 | WARFARIN SODIUM |
| 00615454963 | WARFARIN SODIUM |
| 00615454753 | WARFARIN SODIUM |
| 00615455029 | WARFARIN SODIUM |
| 00615151063 | WARFARIN SODIUM |
| 00615150953 | WARFARIN SODIUM |
| 00555083504 | WARFARIN SODIUM |
| 00615151053 | WARFARIN SODIUM |
| 00615454829 | WARFARIN SODIUM |
| 00615454929 | WARFARIN SODIUM |
| 00615455129 | WARFARIN SODIUM |
| 00615454729 | WARFARIN SODIUM |

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| 00615454863 | WARFARIN SODIUM |
| 00615150929 | WARFARIN SODIUM |
| 00555083402 | WARFARIN SODIUM |
| 00555092502 | WARFARIN SODIUM |
| 00555092602 | WARFARIN SODIUM |
| 00555083305 | WARFARIN SODIUM |
| 00555083405 | WARFARIN SODIUM |
| 00555086902 | WARFARIN SODIUM |
| 00555083102 | WARFARIN SODIUM |
| 76282033210 | WARFARIN SODIUM |
| 76282032910 | WARFARIN SODIUM |
| 76282033010 | WARFARIN SODIUM |
| 76282033101 | WARFARIN SODIUM |
| 76282033201 | WARFARIN SODIUM |
| 71335045204 | WARFARIN SODIUM |
| 71335045201 | WARFARIN SODIUM |
| 76282032701 | WARFARIN SODIUM |
| 71335058001 | WARFARIN SODIUM |
| 76282033310 | WARFARIN SODIUM |
| 76282032710 | WARFARIN SODIUM |
| 76282032810 | WARFARIN SODIUM |
| 71335045203 | WARFARIN SODIUM |
| 76282032801 | WARFARIN SODIUM |
| 71335045202 | WARFARIN SODIUM |
| 76282032901 | WARFARIN SODIUM |
| 76282033401 | WARFARIN SODIUM |
| 76282033110 | WARFARIN SODIUM |
| 76282033501 | WARFARIN SODIUM |
| 76282033001 | WARFARIN SODIUM |
| 76282033301 | WARFARIN SODIUM |
| 00093171210 | WARFARIN SODIUM |
| 00093171310 | WARFARIN SODIUM |
| 00093172301 | WARFARIN SODIUM |
| 00093172110 | WARFARIN SODIUM |
| 00093172001 | WARFARIN SODIUM |
| 00093171801 | WARFARIN SODIUM |
| 00093171410 | WARFARIN SODIUM |
| 00093171501 | WARFARIN SODIUM |
| 00093171601 | WARFARIN SODIUM |
| 00093172101 | WARFARIN SODIUM |

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| 00093171901 | WARFARIN SODIUM |
| 00093171610 | WARFARIN SODIUM |
| 00093171401 | WARFARIN SODIUM |
| 00093171301 | WARFARIN SODIUM |
| 00093171201 | WARFARIN SODIUM |
| 50458057760 | XARELTO |
| 50458058010 | XARELTO |
| 50458057701 | XARELTO |
| 50458057710 | XARELTO |
| 50458058090 | XARELTO |
| 50458057810 | XARELTO |
| 50458057910 | XARELTO |
| 50458057930 | XARELTO |
| 50458057718 | XARELTO |
| 50458057890 | XARELTO |
| 50458057830 | XARELTO |
| 50458057990 | XARELTO |
| 50458057989 | XARELTO |
| 50458058030 | XARELTO |
| 42254037601 | XARELTO |
| 50458058451 | XARELTO STARTER PACK |
| 00007323202 | ARIXTRA |
| 00007323211 | ARIXTRA |
| 00007323402 | ARIXTRA |
| 00007323411 | ARIXTRA |
| 00007323601 | ARIXTRA |
| 00007323602 | ARIXTRA |
| 00007323611 | ARIXTRA |
| 35356007802 | ARIXTRA |
| 35356007810 | ARIXTRA |
| 35356008002 | ARIXTRA |
| 35356008010 | ARIXTRA |
| 55111067802 | FONDAPARINUX SODIUM |
| 55111067810 | FONDAPARINUX SODIUM |
| 55111067902 | FONDAPARINUX SODIUM |
| 55111067910 | FONDAPARINUX SODIUM |
| 55111068002 | FONDAPARINUX SODIUM |
| 55111068010 | FONDAPARINUX SODIUM |
| 55111068102 | FONDAPARINUX SODIUM |
| 55111068110 | FONDAPARINUX SODIUM |

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| 60505607800 | FONDAPARINUX SODIUM |
| 60505607804 | FONDAPARINUX SODIUM |
| 60505607900 | FONDAPARINUX SODIUM |
| 60505607904 | FONDAPARINUX SODIUM |
| 60505608000 | FONDAPARINUX SODIUM |
| 60505608004 | FONDAPARINUX SODIUM |
| 60505608100 | FONDAPARINUX SODIUM |
| 60505608104 | FONDAPARINUX SODIUM |
| 65597020130 | SAVAYSA |
| 65597020205 | SAVAYSA |
| 65597020230 | SAVAYSA |
| 65597020290 | SAVAYSA |
| 65597020305 | SAVAYSA |
| 65597020330 | SAVAYSA |
| 65597020390 | SAVAYSA |
| 66203230001 | ARIXTRA |
| 66203230002 | ARIXTRA |
| 67457058200 | FONDAPARINUX SODIUM |
| 67457058210 | FONDAPARINUX SODIUM |
| 67457058300 | FONDAPARINUX SODIUM |
| 67457058304 | FONDAPARINUX SODIUM |
| 67457058400 | FONDAPARINUX SODIUM |
| 67457058406 | FONDAPARINUX SODIUM |
| 67457058500 | FONDAPARINUX SODIUM |
| 67457058508 | FONDAPARINUX SODIUM |
| 67457059200 | ARIXTRA |
| 67457059210 | ARIXTRA |

APPENDIX TABLE A (CONT'D): STATINS

| NDC | Name | Dose |
|-------------|-------------|-------------|
| 00026288351 | BAYCOL | 0.2 MG |
| 00026288386 | BAYCOL | 0.2 MG |
| 00026288451 | BAYCOL | 0.3 MG |
| 00026288486 | BAYCOL | 0.3 MG |
| 54569458900 | BAYCOL | 0.3 MG |
| 00026288551 | BAYCOL | 0.4 MG |
| 00026288569 | BAYCOL | 0.4 MG |
| 00026288586 | BAYCOL | 0.4 MG |
| 54569486100 | BAYCOL | 0.4 MG |

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|-------------|----------------------|--------|
| 54868443600 | BAYCOL | 0.4 MG |
| 00026288669 | BAYCOL | 0.8 MG |
| 00026288686 | BAYCOL | 0.8 MG |
| 54569518000 | BAYCOL | 0.8 MG |
| 54868440100 | BAYCOL | 0.8 MG |
| 00002477090 | LIVALO | 1 MG |
| 25208020009 | ZYPITAMAG | 1 MG |
| 66869010490 | LIVALO | 1 MG |
| 00071015523 | LIPITOR | 10 MG |
| 00071015534 | LIPITOR | 10 MG |
| 00071015540 | LIPITOR | 10 MG |
| 00093505698 | ATORVASTATIN CALCIUM | 10 MG |
| 00378201505 | ATORVASTATIN CALCIUM | 10 MG |
| 00378201577 | ATORVASTATIN CALCIUM | 10 MG |
| 00378395005 | ATORVASTATIN CALCIUM | 10 MG |
| 00378395007 | ATORVASTATIN CALCIUM | 10 MG |
| 00378395009 | ATORVASTATIN CALCIUM | 10 MG |
| 00378395077 | ATORVASTATIN CALCIUM | 10 MG |
| 00591377410 | ATORVASTATIN CALCIUM | 10 MG |
| 00591377419 | ATORVASTATIN CALCIUM | 10 MG |
| 00781538192 | ATORVASTATIN CALCIUM | 10 MG |
| 00904629061 | ATORVASTATIN CALCIUM | 10 MG |
| 10135064910 | ATORVASTATIN CALCIUM | 10 MG |
| 13411011301 | LIPITOR | 10 MG |
| 13411011303 | LIPITOR | 10 MG |
| 13411011306 | LIPITOR | 10 MG |
| 13411011309 | LIPITOR | 10 MG |
| 13411011315 | LIPITOR | 10 MG |
| 16714087401 | ATORVASTATIN CALCIUM | 10 MG |
| 16714087402 | ATORVASTATIN CALCIUM | 10 MG |
| 16714087403 | ATORVASTATIN CALCIUM | 10 MG |
| 16729004417 | ATORVASTATIN CALCIUM | 10 MG |
| 33261095900 | ATORVASTATIN CALCIUM | 10 MG |
| 33261095930 | ATORVASTATIN CALCIUM | 10 MG |
| 33261095960 | ATORVASTATIN CALCIUM | 10 MG |
| 33261095990 | ATORVASTATIN CALCIUM | 10 MG |
| 33358021001 | LIPITOR | 10 MG |
| 33358021030 | LIPITOR | 10 MG |
| 33358021060 | LIPITOR | 10 MG |
| 33358021090 | LIPITOR | 10 MG |
| 35356086018 | ATORVASTATIN CALCIUM | 10 MG |
| 35356086030 | ATORVASTATIN CALCIUM | 10 MG |

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|-------------|----------------------------|-------|
| 35356086090 | ATORVASTATIN CALCIUM | 10 MG |
| 42254030730 | ATORVASTATIN CALCIUM | 10 MG |
| 42254039130 | ATORVASTATIN CALCIUM | 10 MG |
| 42291014310 | ATORVASTATIN CALCIUM | 10 MG |
| 42291014390 | ATORVASTATIN CALCIUM | 10 MG |
| 43063037330 | ATORVASTATIN CALCIUM | 10 MG |
| 43063047430 | ATORVASTATIN CALCIUM | 10 MG |
| 49999039230 | LIPITOR | 10 MG |
| 49999039290 | LIPITOR | 10 MG |
| 50090125400 | ATORVASTATIN CALCIUM | 10 MG |
| 50090125401 | ATORVASTATIN CALCIUM | 10 MG |
| 50090125500 | ATORVASTATIN CALCIUM | 10 MG |
| 50090125501 | ATORVASTATIN CALCIUM | 10 MG |
| 50268009311 | ATORVASTATIN CALCIUM AVPAK | 10 MG |
| 50268009315 | ATORVASTATIN CALCIUM AVPAK | 10 MG |
| 51079020801 | ATORVASTATIN CALCIUM | 10 MG |
| 51079020820 | ATORVASTATIN CALCIUM | 10 MG |
| 51079040901 | ATORVASTATIN CALCIUM | 10 MG |
| 51079040920 | ATORVASTATIN CALCIUM | 10 MG |
| 51407007810 | ATORVASTATIN CALCIUM | 10 MG |
| 51407007890 | ATORVASTATIN CALCIUM | 10 MG |
| 51655022624 | LIPITOR | 10 MG |
| 51655061030 | ATORVASTATIN CALCIUM | 10 MG |
| 51655061352 | ATORVASTATIN CALCIUM | 10 MG |
| 51655061452 | ATORVASTATIN CALCIUM | 10 MG |
| 52959075990 | LIPITOR | 10 MG |
| 54569446600 | LIPITOR | 10 MG |
| 54569446601 | LIPITOR | 10 MG |
| 54569446602 | LIPITOR | 10 MG |
| 54569628200 | ATORVASTATIN CALCIUM | 10 MG |
| 54569628201 | ATORVASTATIN CALCIUM | 10 MG |
| 54868393400 | LIPITOR | 10 MG |
| 54868393401 | LIPITOR | 10 MG |
| 54868393402 | LIPITOR | 10 MG |
| 54868393403 | LIPITOR | 10 MG |
| 54868393404 | LIPITOR | 10 MG |
| 54868631900 | ATORVASTATIN CALCIUM | 10 MG |
| 55111012105 | ATORVASTATIN CALCIUM | 10 MG |
| 55111012190 | ATORVASTATIN CALCIUM | 10 MG |
| 55175532503 | LIPITOR | 10 MG |
| 55175532509 | LIPITOR | 10 MG |
| 55289087030 | LIPITOR | 10 MG |

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|-------------|----------------------|-------|
| 55700047790 | ATORVASTATIN CALCIUM | 10 MG |
| 55700065930 | ATORVASTATIN CALCIUM | 10 MG |
| 55887062430 | LIPITOR | 10 MG |
| 55887062460 | LIPITOR | 10 MG |
| 55887062482 | LIPITOR | 10 MG |
| 55887062490 | LIPITOR | 10 MG |
| 57866861501 | LIPITOR | 10 MG |
| 58864060830 | LIPITOR | 10 MG |
| 59762015501 | ATORVASTATIN CALCIUM | 10 MG |
| 59762015502 | ATORVASTATIN CALCIUM | 10 MG |
| 60429032301 | ATORVASTATIN CALCIUM | 10 MG |
| 60429032310 | ATORVASTATIN CALCIUM | 10 MG |
| 60429032377 | ATORVASTATIN CALCIUM | 10 MG |
| 60429032390 | ATORVASTATIN CALCIUM | 10 MG |
| 60505257808 | ATORVASTATIN CALCIUM | 10 MG |
| 60505257809 | ATORVASTATIN CALCIUM | 10 MG |
| 60760035330 | ATORVASTATIN CALCIUM | 10 MG |
| 60760035390 | ATORVASTATIN CALCIUM | 10 MG |
| 60760090330 | ATORVASTATIN CALCIUM | 10 MG |
| 60760090390 | ATORVASTATIN CALCIUM | 10 MG |
| 61919054030 | ATORVASTATIN CALCIUM | 10 MG |
| 61919095630 | ATORVASTATIN CALCIUM | 10 MG |
| 61919095690 | ATORVASTATIN CALCIUM | 10 MG |
| 62175089043 | ATORVASTATIN CALCIUM | 10 MG |
| 62175089046 | ATORVASTATIN CALCIUM | 10 MG |
| 63304082705 | ATORVASTATIN CALCIUM | 10 MG |
| 63304082790 | ATORVASTATIN CALCIUM | 10 MG |
| 63629144601 | LIPITOR | 10 MG |
| 63629144602 | LIPITOR | 10 MG |
| 66105011309 | LIPITOR | 10 MG |
| 66116027630 | LIPITOR | 10 MG |
| 67801030103 | LIPITOR | 10 MG |
| 67877051110 | ATORVASTATIN CALCIUM | 10 MG |
| 67877051190 | ATORVASTATIN CALCIUM | 10 MG |
| 68071039930 | LIPITOR | 10 MG |
| 68071091430 | ATORVASTATIN CALCIUM | 10 MG |
| 68084009701 | ATORVASTATIN CALCIUM | 10 MG |
| 68084009711 | ATORVASTATIN CALCIUM | 10 MG |
| 68084056401 | ATORVASTATIN CALCIUM | 10 MG |
| 68115083630 | LIPITOR | 10 MG |
| 68115083690 | LIPITOR | 10 MG |
| 68258600003 | LIPITOR | 10 MG |

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| 68258600009 | LIPITOR | 10 MG |
| 68382024910 | ATORVASTATIN CALCIUM | 10 MG |
| 68382024916 | ATORVASTATIN CALCIUM | 10 MG |
| 68645040270 | ATORVASTATIN CALCIUM | 10 MG |
| 68645045854 | ATORVASTATIN CALCIUM | 10 MG |
| 68645045870 | ATORVASTATIN CALCIUM | 10 MG |
| 68645048054 | ATORVASTATIN CALCIUM | 10 MG |
| 68645048070 | ATORVASTATIN CALCIUM | 10 MG |
| 69097089705 | ATORVASTATIN CALCIUM | 10 MG |
| 69097089715 | ATORVASTATIN CALCIUM | 10 MG |
| 69097094405 | ATORVASTATIN CALCIUM | 10 MG |
| 69097094415 | ATORVASTATIN CALCIUM | 10 MG |
| 70377002711 | ATORVASTATIN CALCIUM | 10 MG |
| 70377002713 | ATORVASTATIN CALCIUM | 10 MG |
| 70882010630 | ATORVASTATIN CALCIUM | 10 MG |
| 70882011930 | ATORVASTATIN CALCIUM | 10 MG |
| 70934007030 | ATORVASTATIN CALCIUM | 10 MG |
| 71205024630 | ATORVASTATIN CALCIUM | 10 MG |
| 71205024690 | ATORVASTATIN CALCIUM | 10 MG |
| 71335016901 | ATORVASTATIN CALCIUM | 10 MG |
| 71335016902 | ATORVASTATIN CALCIUM | 10 MG |
| 71335016903 | ATORVASTATIN CALCIUM | 10 MG |
| 71335016904 | ATORVASTATIN CALCIUM | 10 MG |
| 71399051001 | ATORVASTATIN CALCIUM | 10 MG |
| 72205002205 | ATORVASTATIN CALCIUM | 10 MG |
| 72205002290 | ATORVASTATIN CALCIUM | 10 MG |
| 76519107503 | ATORVASTATIN CALCIUM | 10 MG |
| 00006073061 | MEVACOR | 10 MG |
| 00093092606 | LOVASTATIN | 10 MG |
| 00093092610 | LOVASTATIN | 10 MG |
| 00093092619 | LOVASTATIN | 10 MG |
| 00093092693 | LOVASTATIN | 10 MG |
| 00185007001 | LOVASTATIN | 10 MG |
| 00185007005 | LOVASTATIN | 10 MG |
| 00185007010 | LOVASTATIN | 10 MG |
| 00185007060 | LOVASTATIN | 10 MG |
| 00228263306 | LOVASTATIN | 10 MG |
| 00228263350 | LOVASTATIN | 10 MG |
| 00378651091 | LOVASTATIN | 10 MG |
| 00781132305 | LOVASTATIN | 10 MG |
| 00781132360 | LOVASTATIN | 10 MG |
| 00904558152 | LOVASTATIN | 10 MG |

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| 10544023590 | LOVASTATIN | 10 MG |
| 21695053430 | LOVASTATIN | 10 MG |
| 23490583802 | LOVASTATIN | 10 MG |
| 23490583806 | LOVASTATIN | 10 MG |
| 23490583809 | LOVASTATIN | 10 MG |
| 33261054702 | LOVASTATIN | 10 MG |
| 33261054730 | LOVASTATIN | 10 MG |
| 33261054760 | LOVASTATIN | 10 MG |
| 33261054790 | LOVASTATIN | 10 MG |
| 33358022330 | LOVASTATIN | 10 MG |
| 42254010630 | LOVASTATIN | 10 MG |
| 42254010690 | LOVASTATIN | 10 MG |
| 42291037590 | LOVASTATIN | 10 MG |
| 43063049330 | LOVASTATIN | 10 MG |
| 43063073190 | LOVASTATIN | 10 MG |
| 45963063301 | LOVASTATIN | 10 MG |
| 45963063304 | LOVASTATIN | 10 MG |
| 49884075401 | LOVASTATIN | 10 MG |
| 49884075402 | LOVASTATIN | 10 MG |
| 49884075410 | LOVASTATIN | 10 MG |
| 49999029330 | LOVASTATIN | 10 MG |
| 49999029360 | LOVASTATIN | 10 MG |
| 49999029390 | LOVASTATIN | 10 MG |
| 50090256300 | LOVASTATIN | 10 MG |
| 50090256301 | LOVASTATIN | 10 MG |
| 50090326800 | LOVASTATIN | 10 MG |
| 50090326801 | LOVASTATIN | 10 MG |
| 50090339601 | LOVASTATIN | 10 MG |
| 50268051011 | LOVASTATIN AVPAK | 10 MG |
| 50268051015 | LOVASTATIN AVPAK | 10 MG |
| 51079097401 | LOVASTATIN | 10 MG |
| 51079097420 | LOVASTATIN | 10 MG |
| 51655001326 | LOVASTATIN | 10 MG |
| 52959097400 | LOVASTATIN | 10 MG |
| 52959097430 | LOVASTATIN | 10 MG |
| 53217030402 | LOVASTATIN | 10 MG |
| 53217030430 | LOVASTATIN | 10 MG |
| 53217030490 | LOVASTATIN | 10 MG |
| 53489060701 | LOVASTATIN | 10 MG |
| 53489060706 | LOVASTATIN | 10 MG |
| 54458084616 | LOVASTATIN | 10 MG |
| 54458091610 | LOVASTATIN | 10 MG |

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| 54458093810 | LOVASTATIN | 10 MG |
| 54458093816 | LOVASTATIN | 10 MG |
| 54458098410 | LOVASTATIN | 10 MG |
| 54569458400 | MEVACOR | 10 MG |
| 54569534500 | LOVASTATIN | 10 MG |
| 54569534501 | LOVASTATIN | 10 MG |
| 54868196800 | MEVACOR | 10 MG |
| 54868459300 | LOVASTATIN | 10 MG |
| 54868459301 | LOVASTATIN | 10 MG |
| 54868459302 | LOVASTATIN | 10 MG |
| 55887035030 | LOVASTATIN | 10 MG |
| 57866640001 | LOVASTATIN | 10 MG |
| 58016097900 | LOVASTATIN | 10 MG |
| 58016097902 | LOVASTATIN | 10 MG |
| 58016097920 | LOVASTATIN | 10 MG |
| 58016097930 | LOVASTATIN | 10 MG |
| 58016097960 | LOVASTATIN | 10 MG |
| 58016097990 | LOVASTATIN | 10 MG |
| 58864078130 | LOVASTATIN | 10 MG |
| 60429024810 | LOVASTATIN | 10 MG |
| 60429024860 | LOVASTATIN | 10 MG |
| 60429040010 | LOVASTATIN | 10 MG |
| 60429040060 | LOVASTATIN | 10 MG |
| 60429040090 | LOVASTATIN | 10 MG |
| 60505017700 | LOVASTATIN | 10 MG |
| 60760037130 | LOVASTATIN | 10 MG |
| 61442014101 | LOVASTATIN | 10 MG |
| 61442014110 | LOVASTATIN | 10 MG |
| 61442014160 | LOVASTATIN | 10 MG |
| 61919031190 | LOVASTATIN | 10 MG |
| 62022062730 | ALTOPREV | 10 MG |
| 62037079101 | LOVASTATIN | 10 MG |
| 62037079160 | LOVASTATIN | 10 MG |
| 63187081430 | LOVASTATIN | 10 MG |
| 63187081490 | LOVASTATIN | 10 MG |
| 63629358301 | LOVASTATIN | 10 MG |
| 63629358302 | LOVASTATIN | 10 MG |
| 63629358303 | LOVASTATIN | 10 MG |
| 63739028010 | LOVASTATIN | 10 MG |
| 63739028015 | LOVASTATIN | 10 MG |
| 66336060205 | LOVASTATIN | 10 MG |
| 66336060230 | LOVASTATIN | 10 MG |

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| 66336060290 | LOVASTATIN | 10 MG |
| 68001021300 | LOVASTATIN | 10 MG |
| 68001021306 | LOVASTATIN | 10 MG |
| 68001021308 | LOVASTATIN | 10 MG |
| 68001031400 | LOVASTATIN | 10 MG |
| 68001031408 | LOVASTATIN | 10 MG |
| 68084013101 | LOVASTATIN | 10 MG |
| 68084055801 | LOVASTATIN | 10 MG |
| 68084055811 | LOVASTATIN | 10 MG |
| 68115021830 | LOVASTATIN | 10 MG |
| 68180046701 | LOVASTATIN | 10 MG |
| 68180046703 | LOVASTATIN | 10 MG |
| 68180046707 | LOVASTATIN | 10 MG |
| 68645057690 | LOVASTATIN | 10 MG |
| 00003015450 | PRAVACHOL | 10 MG |
| 00003015451 | PRAVACHOL | 10 MG |
| 00003515405 | PRAVACHOL | 10 MG |
| 00003515406 | PRAVACHOL | 10 MG |
| 00093077110 | PRAVASTATIN SODIUM | 10 MG |
| 00093077198 | PRAVASTATIN SODIUM | 10 MG |
| 00378055277 | PRAVASTATIN SODIUM | 10 MG |
| 00378821010 | PRAVASTATIN SODIUM | 10 MG |
| 00378821077 | PRAVASTATIN SODIUM | 10 MG |
| 00591001310 | PRAVASTATIN SODIUM | 10 MG |
| 00591001319 | PRAVASTATIN SODIUM | 10 MG |
| 00781523110 | PRAVASTATIN SODIUM | 10 MG |
| 00781523192 | PRAVASTATIN SODIUM | 10 MG |
| 00904589161 | PRAVASTATIN SODIUM | 10 MG |
| 00904611361 | PRAVASTATIN SODIUM | 10 MG |
| 10544044030 | PRAVASTATIN SODIUM | 10 MG |
| 12280003890 | PRAVACHOL | 10 MG |
| 16252052690 | PRAVASTATIN SODIUM | 10 MG |
| 16729000815 | PRAVASTATIN SODIUM | 10 MG |
| 16729000816 | PRAVASTATIN SODIUM | 10 MG |
| 21695017830 | PRAVASTATIN SODIUM | 10 MG |
| 23490935003 | PRAVASTATIN SODIUM | 10 MG |
| 23490935006 | PRAVASTATIN SODIUM | 10 MG |
| 23490935009 | PRAVASTATIN SODIUM | 10 MG |
| 35356092130 | PRAVASTATIN SODIUM | 10 MG |
| 42254042430 | PRAVASTATIN SODIUM | 10 MG |
| 42291066510 | PRAVASTATIN SODIUM | 10 MG |
| 42291066590 | PRAVASTATIN SODIUM | 10 MG |

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| 42549070830 | PRAVASTATIN SODIUM | 10 MG |
| 49884017609 | PRAVASTATIN SODIUM | 10 MG |
| 49884017610 | PRAVASTATIN SODIUM | 10 MG |
| 50090159400 | PRAVASTATIN SODIUM | 10 MG |
| 50090159401 | PRAVASTATIN SODIUM | 10 MG |
| 50090325800 | PRAVASTATIN SODIUM | 10 MG |
| 50090325801 | PRAVASTATIN SODIUM | 10 MG |
| 50111076117 | PRAVASTATIN SODIUM | 10 MG |
| 50268067211 | PRAVASTATIN SODIUM AVPAK | 10 MG |
| 50268067215 | PRAVASTATIN SODIUM AVPAK | 10 MG |
| 53217020330 | PRAVASTATIN SODIUM | 10 MG |
| 53217020390 | PRAVASTATIN SODIUM | 10 MG |
| 54458092710 | PRAVASTATIN SODIUM | 10 MG |
| 54458092712 | PRAVASTATIN SODIUM | 10 MG |
| 54458092716 | PRAVASTATIN SODIUM | 10 MG |
| 54458098709 | PRAVASTATIN SODIUM | 10 MG |
| 54569384000 | PRAVACHOL | 10 MG |
| 54569434600 | PRAVACHOL | 10 MG |
| 54569434601 | PRAVACHOL | 10 MG |
| 54569642800 | PRAVASTATIN SODIUM | 10 MG |
| 54569642801 | PRAVASTATIN SODIUM | 10 MG |
| 54569859800 | PRAVACHOL | 10 MG |
| 54868228701 | PRAVACHOL | 10 MG |
| 54868228702 | PRAVACHOL | 10 MG |
| 54868557600 | PRAVASTATIN SODIUM | 10 MG |
| 54868557601 | PRAVASTATIN SODIUM | 10 MG |
| 55111022905 | PRAVASTATIN SODIUM | 10 MG |
| 55111022990 | PRAVASTATIN SODIUM | 10 MG |
| 55289010430 | PRAVACHOL | 10 MG |
| 57237016405 | PRAVASTATIN SODIUM | 10 MG |
| 57237016490 | PRAVASTATIN SODIUM | 10 MG |
| 58864065330 | PRAVACHOL | 10 MG |
| 60429036705 | PRAVASTATIN SODIUM | 10 MG |
| 60429036745 | PRAVASTATIN SODIUM | 10 MG |
| 60429036790 | PRAVASTATIN SODIUM | 10 MG |
| 60505016805 | PRAVASTATIN SODIUM | 10 MG |
| 60505016809 | PRAVASTATIN SODIUM | 10 MG |
| 60687016901 | PRAVASTATIN SODIUM | 10 MG |
| 60687016911 | PRAVASTATIN SODIUM | 10 MG |
| 63304059590 | PRAVASTATIN SODIUM | 10 MG |
| 63629458801 | PRAVASTATIN SODIUM | 10 MG |
| 66105012001 | PRAVACHOL | 10 MG |

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| 66105012003 | PRAVACHOL | 10 MG |
| 66105012006 | PRAVACHOL | 10 MG |
| 66105012009 | PRAVACHOL | 10 MG |
| 66105012015 | PRAVACHOL | 10 MG |
| 66105515405 | PRAVACHOL | 10 MG |
| 68084018601 | PRAVASTATIN SODIUM | 10 MG |
| 68084050001 | PRAVASTATIN SODIUM | 10 MG |
| 68084050011 | PRAVASTATIN SODIUM | 10 MG |
| 68180048502 | PRAVASTATIN SODIUM | 10 MG |
| 68180048509 | PRAVASTATIN SODIUM | 10 MG |
| 68258604903 | PRAVASTATIN SODIUM | 10 MG |
| 68382007005 | PRAVASTATIN SODIUM | 10 MG |
| 68382007016 | PRAVASTATIN SODIUM | 10 MG |
| 68462019505 | PRAVASTATIN SODIUM | 10 MG |
| 68462019590 | PRAVASTATIN SODIUM | 10 MG |
| 68788741303 | PRAVASTATIN SODIUM | 10 MG |
| 68788741306 | PRAVASTATIN SODIUM | 10 MG |
| 68788741309 | PRAVASTATIN SODIUM | 10 MG |
| 71335005601 | PRAVASTATIN SODIUM | 10 MG |
| 00093757198 | ROSUVASTATIN CALCIUM | 10 MG |
| 00310075139 | CRESTOR | 10 MG |
| 00310075190 | CRESTOR | 10 MG |
| 00378220377 | ROSUVASTATIN CALCIUM | 10 MG |
| 00781540192 | ROSUVASTATIN CALCIUM | 10 MG |
| 00904660361 | ROSUVASTATIN CALCIUM | 10 MG |
| 00904677961 | ROSUVASTATIN CALCIUM | 10 MG |
| 12280016415 | CRESTOR | 10 MG |
| 12280016490 | CRESTOR | 10 MG |
| 13668018030 | ROSUVASTATIN CALCIUM | 10 MG |
| 13668018090 | ROSUVASTATIN CALCIUM | 10 MG |
| 16252061630 | ROSUVASTATIN CALCIUM | 10 MG |
| 16252061650 | ROSUVASTATIN CALCIUM | 10 MG |
| 16252061690 | ROSUVASTATIN CALCIUM | 10 MG |
| 16590041130 | CRESTOR | 10 MG |
| 16729028515 | ROSUVASTATIN CALCIUM | 10 MG |
| 16729028517 | ROSUVASTATIN CALCIUM | 10 MG |
| 21695028790 | CRESTOR | 10 MG |
| 27808015601 | ROSUVASTATIN CALCIUM | 10 MG |
| 31722088390 | ROSUVASTATIN CALCIUM | 10 MG |
| 42291074390 | ROSUVASTATIN CALCIUM | 10 MG |
| 42292003001 | ROSUVASTATIN CALCIUM | 10 MG |
| 42292003020 | ROSUVASTATIN CALCIUM | 10 MG |

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| 47335058381 | ROSUVASTATIN CALCIUM | 10 MG |
| 47335098583 | EZALLOR SPRINKLE | 10 MG |
| 47463009630 | CRESTOR | 10 MG |
| 49884026109 | ROSUVASTATIN CALCIUM | 10 MG |
| 49999087330 | CRESTOR | 10 MG |
| 49999087390 | CRESTOR | 10 MG |
| 50090245101 | ROSUVASTATIN CALCIUM | 10 MG |
| 50090272300 | ROSUVASTATIN CALCIUM | 10 MG |
| 50090272301 | ROSUVASTATIN CALCIUM | 10 MG |
| 50090317700 | ROSUVASTATIN CALCIUM | 10 MG |
| 50090317701 | ROSUVASTATIN CALCIUM | 10 MG |
| 50268070911 | ROSUVASTATIN CALCIUM AVPAK | 10 MG |
| 50268070915 | ROSUVASTATIN CALCIUM AVPAK | 10 MG |
| 51407015490 | ROSUVASTATIN CALCIUM | 10 MG |
| 53217029530 | ROSUVASTATIN CALCIUM | 10 MG |
| 53217029590 | ROSUVASTATIN CALCIUM | 10 MG |
| 54569560000 | CRESTOR | 10 MG |
| 54569560001 | CRESTOR | 10 MG |
| 54569667400 | ROSUVASTATIN CALCIUM | 10 MG |
| 54569667401 | ROSUVASTATIN CALCIUM | 10 MG |
| 54868496300 | CRESTOR | 10 MG |
| 54868496301 | CRESTOR | 10 MG |
| 54868496302 | CRESTOR | 10 MG |
| 54868496303 | CRESTOR | 10 MG |
| 55048009630 | CRESTOR | 10 MG |
| 55289093530 | CRESTOR | 10 MG |
| 55700051618 | ROSUVASTATIN CALCIUM | 10 MG |
| 55700057430 | ROSUVASTATIN CALCIUM | 10 MG |
| 57237016990 | ROSUVASTATIN CALCIUM | 10 MG |
| 57237016999 | ROSUVASTATIN CALCIUM | 10 MG |
| 58016003700 | CRESTOR | 10 MG |
| 58016003730 | CRESTOR | 10 MG |
| 58016003760 | CRESTOR | 10 MG |
| 58016003790 | CRESTOR | 10 MG |
| 60429084390 | ROSUVASTATIN CALCIUM | 10 MG |
| 60505450309 | ROSUVASTATIN CALCIUM | 10 MG |
| 60687024501 | ROSUVASTATIN CALCIUM | 10 MG |
| 60687024511 | ROSUVASTATIN CALCIUM | 10 MG |
| 63187086430 | ROSUVASTATIN CALCIUM | 10 MG |
| 63187086490 | ROSUVASTATIN CALCIUM | 10 MG |
| 63629338101 | CRESTOR | 10 MG |
| 63629338102 | CRESTOR | 10 MG |

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| 63629338103 | CRESTOR | 10 MG |
| 63629338104 | CRESTOR | 10 MG |
| 65862029490 | ROSUVASTATIN CALCIUM | 10 MG |
| 66105098803 | CRESTOR | 10 MG |
| 67877044005 | ROSUVASTATIN CALCIUM | 10 MG |
| 67877044090 | ROSUVASTATIN CALCIUM | 10 MG |
| 68071043330 | CRESTOR | 10 MG |
| 68258601603 | CRESTOR | 10 MG |
| 68462026290 | ROSUVASTATIN CALCIUM | 10 MG |
| 70377000712 | ROSUVASTATIN CALCIUM | 10 MG |
| 70377000713 | ROSUVASTATIN CALCIUM | 10 MG |
| 71205000830 | ROSUVASTATIN CALCIUM | 10 MG |
| 71205005230 | ROSUVASTATIN CALCIUM | 10 MG |
| 71205005290 | ROSUVASTATIN CALCIUM | 10 MG |
| 71335060601 | ROSUVASTATIN CALCIUM | 10 MG |
| 71335060602 | ROSUVASTATIN CALCIUM | 10 MG |
| 72205000390 | ROSUVASTATIN CALCIUM | 10 MG |
| 72205000399 | ROSUVASTATIN CALCIUM | 10 MG |
| 76519116209 | ROSUVASTATIN CALCIUM | 10 MG |
| 00006073528 | ZOCOR | 10 MG |
| 00006073531 | ZOCOR | 10 MG |
| 00006073554 | ZOCOR | 10 MG |
| 00006073561 | ZOCOR | 10 MG |
| 00006073582 | ZOCOR | 10 MG |
| 00006073587 | ZOCOR | 10 MG |
| 00093715310 | SIMVASTATIN | 10 MG |
| 00093715319 | SIMVASTATIN | 10 MG |
| 00093715331 | SIMVASTATIN | 10 MG |
| 00093715356 | SIMVASTATIN | 10 MG |
| 00093715393 | SIMVASTATIN | 10 MG |
| 00093715398 | SIMVASTATIN | 10 MG |
| 00406206603 | SIMVASTATIN | 10 MG |
| 00406206605 | SIMVASTATIN | 10 MG |
| 00406206610 | SIMVASTATIN | 10 MG |
| 00406206660 | SIMVASTATIN | 10 MG |
| 00406206690 | SIMVASTATIN | 10 MG |
| 00781507131 | SIMVASTATIN | 10 MG |
| 00781507192 | SIMVASTATIN | 10 MG |
| 00904580061 | SIMVASTATIN | 10 MG |
| 13411016201 | ZOCOR | 10 MG |
| 13411016203 | ZOCOR | 10 MG |
| 13411016206 | ZOCOR | 10 MG |

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| 13411016209 | ZOCOR | 10 MG |
| 13411016215 | ZOCOR | 10 MG |
| 16252050630 | SIMVASTATIN | 10 MG |
| 16252050650 | SIMVASTATIN | 10 MG |
| 16252050690 | SIMVASTATIN | 10 MG |
| 16714068201 | SIMVASTATIN | 10 MG |
| 16714068202 | SIMVASTATIN | 10 MG |
| 16714068203 | SIMVASTATIN | 10 MG |
| 16729000410 | SIMVASTATIN | 10 MG |
| 16729000415 | SIMVASTATIN | 10 MG |
| 16729000417 | SIMVASTATIN | 10 MG |
| 21695073930 | SIMVASTATIN | 10 MG |
| 21695073990 | SIMVASTATIN | 10 MG |
| 23490935303 | SIMVASTATIN | 10 MG |
| 23490935306 | SIMVASTATIN | 10 MG |
| 23490935309 | SIMVASTATIN | 10 MG |
| 24658021110 | SIMVASTATIN | 10 MG |
| 24658021130 | SIMVASTATIN | 10 MG |
| 24658021145 | SIMVASTATIN | 10 MG |
| 24658021190 | SIMVASTATIN | 10 MG |
| 24658030110 | SIMVASTATIN | 10 MG |
| 24658030115 | SIMVASTATIN | 10 MG |
| 24658030130 | SIMVASTATIN | 10 MG |
| 24658030145 | SIMVASTATIN | 10 MG |
| 24658030190 | SIMVASTATIN | 10 MG |
| 31722051110 | SIMVASTATIN | 10 MG |
| 31722051190 | SIMVASTATIN | 10 MG |
| 33261054600 | SIMVASTATIN | 10 MG |
| 33261054602 | SIMVASTATIN | 10 MG |
| 33261054630 | SIMVASTATIN | 10 MG |
| 33261054660 | SIMVASTATIN | 10 MG |
| 33261054690 | SIMVASTATIN | 10 MG |
| 35356060430 | SIMVASTATIN | 10 MG |
| 42254012930 | SIMVASTATIN | 10 MG |
| 42254012990 | SIMVASTATIN | 10 MG |
| 42549071590 | SIMVASTATIN | 10 MG |
| 42571001005 | SIMVASTATIN | 10 MG |
| 42571001090 | SIMVASTATIN | 10 MG |
| 43063016230 | SIMVASTATIN | 10 MG |
| 43063072730 | SIMVASTATIN | 10 MG |
| 43063072790 | SIMVASTATIN | 10 MG |
| 45802009301 | SIMVASTATIN | 10 MG |

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| 45802009365 | SIMVASTATIN | 10 MG |
| 45802009375 | SIMVASTATIN | 10 MG |
| 50090127700 | SIMVASTATIN | 10 MG |
| 50090127701 | SIMVASTATIN | 10 MG |
| 50268071311 | SIMVASTATIN AVPAK | 10 MG |
| 50268071315 | SIMVASTATIN AVPAK | 10 MG |
| 50742013710 | SIMVASTATIN | 10 MG |
| 51079045401 | SIMVASTATIN | 10 MG |
| 51079045420 | SIMVASTATIN | 10 MG |
| 51079068601 | SIMVASTATIN | 10 MG |
| 51079068620 | SIMVASTATIN | 10 MG |
| 52343002299 | SIMVASTATIN | 10 MG |
| 52959098830 | SIMVASTATIN | 10 MG |
| 54458090010 | SIMVASTATIN | 10 MG |
| 54458093410 | SIMVASTATIN | 10 MG |
| 54458093416 | SIMVASTATIN | 10 MG |
| 54569418000 | ZOCOR | 10 MG |
| 54569418001 | ZOCOR | 10 MG |
| 54569630200 | SIMVASTATIN | 10 MG |
| 54569630201 | SIMVASTATIN | 10 MG |
| 54868263900 | ZOCOR | 10 MG |
| 54868263901 | ZOCOR | 10 MG |
| 54868562700 | SIMVASTATIN | 10 MG |
| 54868562701 | SIMVASTATIN | 10 MG |
| 55045365508 | SIMVASTATIN | 10 MG |
| 55111019805 | SIMVASTATIN | 10 MG |
| 55111019830 | SIMVASTATIN | 10 MG |
| 55111019890 | SIMVASTATIN | 10 MG |
| 55111073510 | SIMVASTATIN | 10 MG |
| 55111073530 | SIMVASTATIN | 10 MG |
| 55111073590 | SIMVASTATIN | 10 MG |
| 55289033814 | SIMVASTATIN | 10 MG |
| 55289033830 | SIMVASTATIN | 10 MG |
| 55289033890 | SIMVASTATIN | 10 MG |
| 55700022330 | SIMVASTATIN | 10 MG |
| 55700051590 | SIMVASTATIN | 10 MG |
| 55887086130 | SIMVASTATIN | 10 MG |
| 55887086160 | SIMVASTATIN | 10 MG |
| 55887086190 | SIMVASTATIN | 10 MG |
| 57866798601 | ZOCOR | 10 MG |
| 58016000800 | SIMVASTATIN | 10 MG |
| 58016000830 | SIMVASTATIN | 10 MG |

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| 58016000860 | SIMVASTATIN | 10 MG |
| 58016000890 | SIMVASTATIN | 10 MG |
| 58016036400 | ZOCOR | 10 MG |
| 58016036430 | ZOCOR | 10 MG |
| 58016036460 | ZOCOR | 10 MG |
| 58016036490 | ZOCOR | 10 MG |
| 60760037930 | SIMVASTATIN | 10 MG |
| 60760037990 | SIMVASTATIN | 10 MG |
| 63304079010 | SIMVASTATIN | 10 MG |
| 63304079030 | SIMVASTATIN | 10 MG |
| 63304079090 | SIMVASTATIN | 10 MG |
| 63739042010 | SIMVASTATIN | 10 MG |
| 63739043610 | SIMVASTATIN | 10 MG |
| 63739057110 | SIMVASTATIN | 10 MG |
| 65862005126 | SIMVASTATIN | 10 MG |
| 65862005130 | SIMVASTATIN | 10 MG |
| 65862005190 | SIMVASTATIN | 10 MG |
| 65862005199 | SIMVASTATIN | 10 MG |
| 66267126001 | SIMVASTATIN | 10 MG |
| 68071071630 | SIMVASTATIN | 10 MG |
| 68071171109 | SIMVASTATIN | 10 MG |
| 68084016201 | SIMVASTATIN | 10 MG |
| 68084051101 | SIMVASTATIN | 10 MG |
| 68084051111 | SIMVASTATIN | 10 MG |
| 68115072030 | ZOCOR | 10 MG |
| 68180047801 | SIMVASTATIN | 10 MG |
| 68180047802 | SIMVASTATIN | 10 MG |
| 68180047803 | SIMVASTATIN | 10 MG |
| 68258600903 | SIMVASTATIN | 10 MG |
| 68258600909 | SIMVASTATIN | 10 MG |
| 68382006605 | SIMVASTATIN | 10 MG |
| 68382006606 | SIMVASTATIN | 10 MG |
| 68382006610 | SIMVASTATIN | 10 MG |
| 68382006614 | SIMVASTATIN | 10 MG |
| 68382006616 | SIMVASTATIN | 10 MG |
| 68382006624 | SIMVASTATIN | 10 MG |
| 70377000212 | SIMVASTATIN | 10 MG |
| 70377000214 | SIMVASTATIN | 10 MG |
| 70377000215 | SIMVASTATIN | 10 MG |
| 00069216030 | CADUET | 10 MG-10 MG |
| 00378451705 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |

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| 00378451793 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 00378616805 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 00378616877 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 00378616893 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 12280039730 | CADUET | 10 MG-10 MG |
| 43598032130 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 43598032190 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 54569588100 | CADUET | 10 MG-10 MG |
| 54868556700 | CADUET | 10 MG-10 MG |
| 59762673001 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 59762673005 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 59762673007 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 63304059030 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-10 MG |
| 66582032030 | LIPTRUZET | 10 MG-10 MG |
| 66582032054 | LIPTRUZET | 10 MG-10 MG |
| 00115138503 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 00115138508 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 00115138510 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 12280038630 | VYTORIN | 10 MG-10 MG |
| 43598058310 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 43598058330 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 43598058390 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 43598074210 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 43598074230 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 43598074290 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 45963056508 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 45963056530 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 51407019010 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 51407019030 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 51407019090 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 54569576800 | VYTORIN | 10 MG-10 MG |
| 54868525000 | VYTORIN | 10 MG-10 MG |
| 60429087910 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 60429087930 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 60429087990 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 62559070030 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |

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| 62559070090 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 66582031128 | VYTORIN | 10 MG-10 MG |
| 66582031131 | VYTORIN | 10 MG-10 MG |
| 66582031154 | VYTORIN | 10 MG-10 MG |
| 66582031182 | VYTORIN | 10 MG-10 MG |
| 67877050730 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 67877050790 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 69238115503 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 69238115509 | EZETIMIBE-SIMVASTATIN | 10 MG-10 MG |
| 00006075331 | JUVISYNC | 10 MG-100 MG |
| 00006075354 | JUVISYNC | 10 MG-100 MG |
| 00006075382 | JUVISYNC | 10 MG-100 MG |
| 00069218030 | CADUET | 10 MG-20 MG |
| 00378451805 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 00378451893 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 00378616905 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 00378616977 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 00378616993 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 12280039830 | CADUET | 10 MG-20 MG |
| 43598031830 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 43598031890 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 54569595100 | CADUET | 10 MG-20 MG |
| 54868520900 | CADUET | 10 MG-20 MG |
| 54868520901 | CADUET | 10 MG-20 MG |
| 59762673101 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 59762673105 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 59762673107 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 63304059130 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-20 MG |
| 00115138603 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 00115138608 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 00115138610 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 12280038530 | VYTORIN | 10 MG-20 MG |
| 12280038590 | VYTORIN | 10 MG-20 MG |
| 21695032530 | VYTORIN | 10 MG-20 MG |
| 43598058410 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 43598058430 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |

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| 43598058490 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 43598074410 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 43598074430 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 43598074490 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 45963056608 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 45963056630 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 49999095730 | VYTORIN | 10 MG-20 MG |
| 51407019110 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 51407019130 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 51407019190 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 54569576600 | VYTORIN | 10 MG-20 MG |
| 54868518700 | VYTORIN | 10 MG-20 MG |
| 54868518701 | VYTORIN | 10 MG-20 MG |
| 54868518702 | VYTORIN | 10 MG-20 MG |
| 55048082130 | VYTORIN | 10 MG-20 MG |
| 55289098021 | VYTORIN | 10 MG-20 MG |
| 55887088230 | VYTORIN | 10 MG-20 MG |
| 60429088010 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 60429088030 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 60429088090 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 62559070130 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 62559070190 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 66582031228 | VYTORIN | 10 MG-20 MG |
| 66582031231 | VYTORIN | 10 MG-20 MG |
| 66582031254 | VYTORIN | 10 MG-20 MG |
| 66582031282 | VYTORIN | 10 MG-20 MG |
| 66582031287 | VYTORIN | 10 MG-20 MG |
| 67877050830 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 67877050890 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 68258697003 | VYTORIN | 10 MG-20 MG |
| 69238115603 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 69238115609 | EZETIMIBE-SIMVASTATIN | 10 MG-20 MG |
| 00069225030 | CADUET | 10 MG-40 MG |
| 00378451905 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 00378451993 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 00378617005 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 00378617077 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 00378617093 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |

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| 43598031530 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 43598031590 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 54569609900 | CADUET | 10 MG-40 MG |
| 54868520000 | CADUET | 10 MG-40 MG |
| 54868520001 | CADUET | 10 MG-40 MG |
| 59762673201 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 59762673205 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 59762673207 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 63304050030 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-40 MG |
| 00115138702 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 00115138708 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 00115138710 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 12280018130 | VYTORIN | 10 MG-40 MG |
| 12280018190 | VYTORIN | 10 MG-40 MG |
| 21695033930 | VYTORIN | 10 MG-40 MG |
| 43598058510 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 43598058530 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 43598058590 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 43598074305 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 43598074330 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 43598074390 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 45963056708 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 45963056730 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 49999095830 | VYTORIN | 10 MG-40 MG |
| 51407019205 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 51407019230 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 51407019290 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 54569564800 | VYTORIN | 10 MG-40 MG |
| 54868518900 | VYTORIN | 10 MG-40 MG |
| 54868518901 | VYTORIN | 10 MG-40 MG |
| 55048082230 | VYTORIN | 10 MG-40 MG |
| 55289028030 | VYTORIN | 10 MG-40 MG |
| 55887033330 | VYTORIN | 10 MG-40 MG |
| 60429088105 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 60429088110 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 60429088130 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 60429088190 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 62559070230 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |

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| 62559070290 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 66582031331 | VYTORIN | 10 MG-40 MG |
| 66582031352 | VYTORIN | 10 MG-40 MG |
| 66582031354 | VYTORIN | 10 MG-40 MG |
| 66582031374 | VYTORIN | 10 MG-40 MG |
| 66582031386 | VYTORIN | 10 MG-40 MG |
| 67877050930 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 67877050990 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 68258698403 | VYTORIN | 10 MG-40 MG |
| 69238115703 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 69238115709 | EZETIMIBE-SIMVASTATIN | 10 MG-40 MG |
| 00006053331 | JUVISYNC | 10 MG-50 MG |
| 00006053354 | JUVISYNC | 10 MG-50 MG |
| 00069227030 | CADUET | 10 MG-80 MG |
| 00378452093 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 00378617177 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 00378617193 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 43598031330 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 54868552300 | CADUET | 10 MG-80 MG |
| 54868552301 | CADUET | 10 MG-80 MG |
| 54868633500 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 59762673301 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 63304060330 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 10 MG-80 MG |
| 00115138802 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 00115138808 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 00115138810 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 21695082730 | VYTORIN | 10 MG-80 MG |
| 43598058610 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 43598058630 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 43598058690 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 43598074530 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 43598074590 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 45963056808 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 45963056830 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 51407019305 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 51407019330 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 51407019390 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 54868525900 | VYTORIN | 10 MG-80 MG |

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| 54868525901 | VYTORIN | 10 MG-80 MG |
| 55048082330 | VYTORIN | 10 MG-80 MG |
| 55289052030 | VYTORIN | 10 MG-80 MG |
| 60429088205 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 60429088230 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 60429088290 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 62559070330 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 62559070390 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 66582031531 | VYTORIN | 10 MG-80 MG |
| 66582031552 | VYTORIN | 10 MG-80 MG |
| 66582031554 | VYTORIN | 10 MG-80 MG |
| 66582031566 | VYTORIN | 10 MG-80 MG |
| 66582031574 | VYTORIN | 10 MG-80 MG |
| 67877051030 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 67877051090 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 69238115803 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 69238115809 | EZETIMIBE-SIMVASTATIN | 10 MG-80 MG |
| 00074331690 | SIMCOR | 1000 MG-20 MG |
| 00074345590 | SIMCOR | 1000 MG-20 MG |
| 54868590400 | SIMCOR | 1000 MG-20 MG |
| 54868590401 | SIMCOR | 1000 MG-20 MG |
| 00074345790 | SIMCOR | 1000 MG-40 MG |
| 54868616900 | SIMCOR | 1000 MG-40 MG |
| 00002477190 | LIVALO | 2 MG |
| 25208020109 | ZYPITAMAG | 2 MG |
| 66869020407 | LIVALO | 2 MG |
| 66869020490 | LIVALO | 2 MG |
| 00069296030 | CADUET | 2.5 MG-10 MG |
| 00378451093 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-10 MG |
| 00378616177 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-10 MG |
| 00378616193 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-10 MG |
| 43598032330 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-10 MG |
| 59762671001 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-10 MG |
| 63304050130 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-10 MG |
| 00069297030 | CADUET | 2.5 MG-20 MG |
| 00378451193 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-20 MG |
| 00378616277 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-20 MG |

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| 00378616293 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-20 MG |
| 43598032030 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-20 MG |
| 59762671101 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-20 MG |
| 63304050230 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-20 MG |
| 00069298030 | CADUET | 2.5 MG-40 MG |
| 00378451293 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-40 MG |
| 00378616377 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-40 MG |
| 00378616393 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-40 MG |
| 43598031730 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-40 MG |
| 54868569900 | CADUET | 2.5 MG-40 MG |
| 59762671201 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-40 MG |
| 63304050330 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 2.5 MG-40 MG |
| 00071015623 | LIPITOR | 20 MG |
| 00071015640 | LIPITOR | 20 MG |
| 00071015694 | LIPITOR | 20 MG |
| 00093505998 | ATORVASTATIN CALCIUM | 20 MG |
| 00378201705 | ATORVASTATIN CALCIUM | 20 MG |
| 00378201777 | ATORVASTATIN CALCIUM | 20 MG |
| 00378395105 | ATORVASTATIN CALCIUM | 20 MG |
| 00378395107 | ATORVASTATIN CALCIUM | 20 MG |
| 00378395109 | ATORVASTATIN CALCIUM | 20 MG |
| 00378395177 | ATORVASTATIN CALCIUM | 20 MG |
| 00591377510 | ATORVASTATIN CALCIUM | 20 MG |
| 00591377519 | ATORVASTATIN CALCIUM | 20 MG |
| 00781538292 | ATORVASTATIN CALCIUM | 20 MG |
| 00904629161 | ATORVASTATIN CALCIUM | 20 MG |
| 10135065005 | ATORVASTATIN CALCIUM | 20 MG |
| 13411011401 | LIPITOR | 20 MG |
| 13411011403 | LIPITOR | 20 MG |
| 13411011406 | LIPITOR | 20 MG |
| 13411011409 | LIPITOR | 20 MG |
| 13411011415 | LIPITOR | 20 MG |
| 16714087501 | ATORVASTATIN CALCIUM | 20 MG |
| 16714087502 | ATORVASTATIN CALCIUM | 20 MG |
| 16714087503 | ATORVASTATIN CALCIUM | 20 MG |
| 16729004517 | ATORVASTATIN CALCIUM | 20 MG |

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| 33261097200 | ATORVASTATIN CALCIUM | 20 MG |
| 33261097230 | ATORVASTATIN CALCIUM | 20 MG |
| 33261097260 | ATORVASTATIN CALCIUM | 20 MG |
| 33261097290 | ATORVASTATIN CALCIUM | 20 MG |
| 33261097299 | ATORVASTATIN CALCIUM | 20 MG |
| 35356089418 | ATORVASTATIN CALCIUM | 20 MG |
| 35356089430 | ATORVASTATIN CALCIUM | 20 MG |
| 35356089490 | ATORVASTATIN CALCIUM | 20 MG |
| 42254026130 | ATORVASTATIN CALCIUM | 20 MG |
| 42254026145 | ATORVASTATIN CALCIUM | 20 MG |
| 42254026190 | ATORVASTATIN CALCIUM | 20 MG |
| 42254038230 | ATORVASTATIN CALCIUM | 20 MG |
| 42254038290 | ATORVASTATIN CALCIUM | 20 MG |
| 42291014410 | ATORVASTATIN CALCIUM | 20 MG |
| 42291014490 | ATORVASTATIN CALCIUM | 20 MG |
| 43063049630 | ATORVASTATIN CALCIUM | 20 MG |
| 43063049660 | ATORVASTATIN CALCIUM | 20 MG |
| 49999046730 | LIPITOR | 20 MG |
| 49999046790 | LIPITOR | 20 MG |
| 50090125700 | ATORVASTATIN CALCIUM | 20 MG |
| 50090125701 | ATORVASTATIN CALCIUM | 20 MG |
| 50090125800 | ATORVASTATIN CALCIUM | 20 MG |
| 50090125801 | ATORVASTATIN CALCIUM | 20 MG |
| 50268009411 | ATORVASTATIN CALCIUM AVPAK | 20 MG |
| 50268009415 | ATORVASTATIN CALCIUM AVPAK | 20 MG |
| 50436998803 | ATORVASTATIN CALCIUM | 20 MG |
| 51079020901 | ATORVASTATIN CALCIUM | 20 MG |
| 51079020920 | ATORVASTATIN CALCIUM | 20 MG |
| 51079041001 | ATORVASTATIN CALCIUM | 20 MG |
| 51079041020 | ATORVASTATIN CALCIUM | 20 MG |
| 51407007905 | ATORVASTATIN CALCIUM | 20 MG |
| 51407007990 | ATORVASTATIN CALCIUM | 20 MG |
| 51655092030 | ATORVASTATIN CALCIUM | 20 MG |
| 52959076090 | LIPITOR | 20 MG |
| 53217020930 | ATORVASTATIN CALCIUM | 20 MG |
| 53217020960 | ATORVASTATIN CALCIUM | 20 MG |
| 53217020990 | ATORVASTATIN CALCIUM | 20 MG |
| 53217020999 | ATORVASTATIN CALCIUM | 20 MG |
| 54569446700 | LIPITOR | 20 MG |
| 54569446701 | LIPITOR | 20 MG |
| 54569628300 | ATORVASTATIN CALCIUM | 20 MG |
| 54569628301 | ATORVASTATIN CALCIUM | 20 MG |

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| 54868394600 | LIPITOR | 20 MG |
| 54868394601 | LIPITOR | 20 MG |
| 54868394602 | LIPITOR | 20 MG |
| 54868394603 | LIPITOR | 20 MG |
| 54868394604 | LIPITOR | 20 MG |
| 54868632000 | ATORVASTATIN CALCIUM | 20 MG |
| 55111012205 | ATORVASTATIN CALCIUM | 20 MG |
| 55111012290 | ATORVASTATIN CALCIUM | 20 MG |
| 55289080030 | LIPITOR | 20 MG |
| 55700054830 | ATORVASTATIN CALCIUM | 20 MG |
| 55700054890 | ATORVASTATIN CALCIUM | 20 MG |
| 55887073030 | LIPITOR | 20 MG |
| 55887073060 | LIPITOR | 20 MG |
| 55887073090 | LIPITOR | 20 MG |
| 58864068530 | LIPITOR | 20 MG |
| 59762015601 | ATORVASTATIN CALCIUM | 20 MG |
| 59762015602 | ATORVASTATIN CALCIUM | 20 MG |
| 60429032401 | ATORVASTATIN CALCIUM | 20 MG |
| 60429032410 | ATORVASTATIN CALCIUM | 20 MG |
| 60429032477 | ATORVASTATIN CALCIUM | 20 MG |
| 60429032490 | ATORVASTATIN CALCIUM | 20 MG |
| 60505257908 | ATORVASTATIN CALCIUM | 20 MG |
| 60505257909 | ATORVASTATIN CALCIUM | 20 MG |
| 60760035430 | ATORVASTATIN CALCIUM | 20 MG |
| 60760035490 | ATORVASTATIN CALCIUM | 20 MG |
| 60760090430 | ATORVASTATIN CALCIUM | 20 MG |
| 61919025830 | ATORVASTATIN CALCIUM | 20 MG |
| 61919025890 | ATORVASTATIN CALCIUM | 20 MG |
| 61919063230 | ATORVASTATIN CALCIUM | 20 MG |
| 61919091630 | ATORVASTATIN CALCIUM | 20 MG |
| 62175089143 | ATORVASTATIN CALCIUM | 20 MG |
| 62175089146 | ATORVASTATIN CALCIUM | 20 MG |
| 63304082805 | ATORVASTATIN CALCIUM | 20 MG |
| 63304082890 | ATORVASTATIN CALCIUM | 20 MG |
| 63629144701 | LIPITOR | 20 MG |
| 63629484901 | ATORVASTATIN CALCIUM | 20 MG |
| 63629484902 | ATORVASTATIN CALCIUM | 20 MG |
| 63629484903 | ATORVASTATIN CALCIUM | 20 MG |
| 66105011409 | LIPITOR | 20 MG |
| 67801040230 | LIPITOR | 20 MG |
| 67877051210 | ATORVASTATIN CALCIUM | 20 MG |
| 67877051290 | ATORVASTATIN CALCIUM | 20 MG |

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| 68071015430 | LIPITOR | 20 MG |
| 68071091530 | ATORVASTATIN CALCIUM | 20 MG |
| 68084009801 | ATORVASTATIN CALCIUM | 20 MG |
| 68084009811 | ATORVASTATIN CALCIUM | 20 MG |
| 68084056501 | ATORVASTATIN CALCIUM | 20 MG |
| 68115049430 | LIPITOR | 20 MG |
| 68115049460 | LIPITOR | 20 MG |
| 68115080090 | LIPITOR | 20 MG |
| 68258600103 | LIPITOR | 20 MG |
| 68258600109 | LIPITOR | 20 MG |
| 68382025010 | ATORVASTATIN CALCIUM | 20 MG |
| 68382025016 | ATORVASTATIN CALCIUM | 20 MG |
| 68645040370 | ATORVASTATIN CALCIUM | 20 MG |
| 68645045954 | ATORVASTATIN CALCIUM | 20 MG |
| 68645045970 | ATORVASTATIN CALCIUM | 20 MG |
| 68645048154 | ATORVASTATIN CALCIUM | 20 MG |
| 68645048170 | ATORVASTATIN CALCIUM | 20 MG |
| 68645048254 | ATORVASTATIN CALCIUM | 20 MG |
| 69097089805 | ATORVASTATIN CALCIUM | 20 MG |
| 69097089812 | ATORVASTATIN CALCIUM | 20 MG |
| 69097094505 | ATORVASTATIN CALCIUM | 20 MG |
| 69097094512 | ATORVASTATIN CALCIUM | 20 MG |
| 70377002811 | ATORVASTATIN CALCIUM | 20 MG |
| 70377002813 | ATORVASTATIN CALCIUM | 20 MG |
| 70882010230 | ATORVASTATIN CALCIUM | 20 MG |
| 70882012030 | ATORVASTATIN CALCIUM | 20 MG |
| 70934006930 | ATORVASTATIN CALCIUM | 20 MG |
| 71205024730 | ATORVASTATIN CALCIUM | 20 MG |
| 71205024790 | ATORVASTATIN CALCIUM | 20 MG |
| 71335000401 | ATORVASTATIN CALCIUM | 20 MG |
| 71335000402 | ATORVASTATIN CALCIUM | 20 MG |
| 71335000403 | ATORVASTATIN CALCIUM | 20 MG |
| 71335000404 | ATORVASTATIN CALCIUM | 20 MG |
| 71335000405 | ATORVASTATIN CALCIUM | 20 MG |
| 71399052005 | ATORVASTATIN CALCIUM | 20 MG |
| 72205002305 | ATORVASTATIN CALCIUM | 20 MG |
| 72205002390 | ATORVASTATIN CALCIUM | 20 MG |
| 76519107809 | ATORVASTATIN CALCIUM | 20 MG |
| 00078017605 | LESCOL | 20 MG |
| 00078017615 | LESCOL | 20 MG |
| 00093744201 | FLUVASTATIN | 20 MG |
| 00093744256 | FLUVASTATIN | 20 MG |

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| 00378802077 | FLUVASTATIN | 20 MG |
| 00378802093 | FLUVASTATIN | 20 MG |
| 13411011101 | LESCOL | 20 MG |
| 13411011102 | LESCOL | 20 MG |
| 13411011103 | LESCOL | 20 MG |
| 13411011106 | LESCOL | 20 MG |
| 13411011110 | LESCOL | 20 MG |
| 54569382100 | LESCOL | 20 MG |
| 54569382101 | LESCOL | 20 MG |
| 54868332900 | LESCOL | 20 MG |
| 55175300203 | LESCOL | 20 MG |
| 55289074060 | LESCOL | 20 MG |
| 66105014701 | LESCOL | 20 MG |
| 66105014703 | LESCOL | 20 MG |
| 66105014706 | LESCOL | 20 MG |
| 66105014709 | LESCOL | 20 MG |
| 66105014710 | LESCOL | 20 MG |
| 00006073128 | MEVACOR | 20 MG |
| 00006073137 | MEVACOR | 20 MG |
| 00006073161 | MEVACOR | 20 MG |
| 00006073178 | MEVACOR | 20 MG |
| 00006073182 | MEVACOR | 20 MG |
| 00006073187 | MEVACOR | 20 MG |
| 00006073194 | MEVACOR | 20 MG |
| 00006073198 | MEVACOR | 20 MG |
| 00093057606 | LOVASTATIN | 20 MG |
| 00093057610 | LOVASTATIN | 20 MG |
| 00093057619 | LOVASTATIN | 20 MG |
| 00093057693 | LOVASTATIN | 20 MG |
| 00185007201 | LOVASTATIN | 20 MG |
| 00185007210 | LOVASTATIN | 20 MG |
| 00185007260 | LOVASTATIN | 20 MG |
| 00228263406 | LOVASTATIN | 20 MG |
| 00228263450 | LOVASTATIN | 20 MG |
| 00378652005 | LOVASTATIN | 20 MG |
| 00378652091 | LOVASTATIN | 20 MG |
| 00781121010 | LOVASTATIN | 20 MG |
| 00781121060 | LOVASTATIN | 20 MG |
| 00904558252 | LOVASTATIN | 20 MG |
| 10544024130 | LOVASTATIN | 20 MG |
| 10544024630 | LOVASTATIN | 20 MG |
| 12280010860 | LOVASTATIN | 20 MG |

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| 16590054730 | LOVASTATIN | 20 MG |
| 16590054760 | LOVASTATIN | 20 MG |
| 16590054772 | LOVASTATIN | 20 MG |
| 16590054790 | LOVASTATIN | 20 MG |
| 21695053530 | LOVASTATIN | 20 MG |
| 21695053590 | LOVASTATIN | 20 MG |
| 23490583900 | LOVASTATIN | 20 MG |
| 23490583901 | LOVASTATIN | 20 MG |
| 33261054802 | LOVASTATIN | 20 MG |
| 33261054830 | LOVASTATIN | 20 MG |
| 33261054860 | LOVASTATIN | 20 MG |
| 33261054890 | LOVASTATIN | 20 MG |
| 33358022500 | LOVASTATIN | 20 MG |
| 33358022530 | LOVASTATIN | 20 MG |
| 33358022560 | LOVASTATIN | 20 MG |
| 35356088530 | LOVASTATIN | 20 MG |
| 35356088560 | LOVASTATIN | 20 MG |
| 35356088590 | LOVASTATIN | 20 MG |
| 42254002830 | LOVASTATIN | 20 MG |
| 42254002890 | LOVASTATIN | 20 MG |
| 42291037690 | LOVASTATIN | 20 MG |
| 42554002830 | LOVASTATIN | 20 MG |
| 43063069290 | LOVASTATIN | 20 MG |
| 43063069293 | LOVASTATIN | 20 MG |
| 43063098330 | LOVASTATIN | 20 MG |
| 45963063401 | LOVASTATIN | 20 MG |
| 45963063404 | LOVASTATIN | 20 MG |
| 49884075501 | LOVASTATIN | 20 MG |
| 49884075502 | LOVASTATIN | 20 MG |
| 49884075510 | LOVASTATIN | 20 MG |
| 49999047030 | LOVASTATIN | 20 MG |
| 49999047060 | LOVASTATIN | 20 MG |
| 49999047090 | LOVASTATIN | 20 MG |
| 50090075900 | LOVASTATIN | 20 MG |
| 50090075902 | LOVASTATIN | 20 MG |
| 50268051111 | LOVASTATIN AVPAK | 20 MG |
| 50268051115 | LOVASTATIN AVPAK | 20 MG |
| 51079097501 | LOVASTATIN | 20 MG |
| 51079097520 | LOVASTATIN | 20 MG |
| 51079097530 | LOVASTATIN | 20 MG |
| 51079097556 | LOVASTATIN | 20 MG |
| 52959072030 | LOVASTATIN | 20 MG |

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| 52959072060 | LOVASTATIN | 20 MG |
| 52959072090 | LOVASTATIN | 20 MG |
| 53489060801 | LOVASTATIN | 20 MG |
| 53489060806 | LOVASTATIN | 20 MG |
| 53489060810 | LOVASTATIN | 20 MG |
| 54458084516 | LOVASTATIN | 20 MG |
| 54458087110 | LOVASTATIN | 20 MG |
| 54458091510 | LOVASTATIN | 20 MG |
| 54458093710 | LOVASTATIN | 20 MG |
| 54458093716 | LOVASTATIN | 20 MG |
| 54458098310 | LOVASTATIN | 20 MG |
| 54569061300 | MEVACOR | 20 MG |
| 54569061301 | MEVACOR | 20 MG |
| 54569061302 | MEVACOR | 20 MG |
| 54569061303 | MEVACOR | 20 MG |
| 54569061304 | MEVACOR | 20 MG |
| 54569534600 | LOVASTATIN | 20 MG |
| 54569534602 | LOVASTATIN | 20 MG |
| 54569801100 | MEVACOR | 20 MG |
| 54569886600 | LOVASTATIN | 20 MG |
| 54868068601 | MEVACOR | 20 MG |
| 54868068602 | MEVACOR | 20 MG |
| 54868068603 | MEVACOR | 20 MG |
| 54868068604 | MEVACOR | 20 MG |
| 54868458500 | LOVASTATIN | 20 MG |
| 54868458501 | LOVASTATIN | 20 MG |
| 54868458502 | LOVASTATIN | 20 MG |
| 54868458503 | LOVASTATIN | 20 MG |
| 55045301401 | LOVASTATIN | 20 MG |
| 55045301402 | LOVASTATIN | 20 MG |
| 55045301406 | LOVASTATIN | 20 MG |
| 55045301408 | LOVASTATIN | 20 MG |
| 55045301409 | LOVASTATIN | 20 MG |
| 55048039530 | LOVASTATIN | 20 MG |
| 55175504606 | MEVACOR | 20 MG |
| 55289040030 | MEVACOR | 20 MG |
| 55289088130 | LOVASTATIN | 20 MG |
| 55289088190 | LOVASTATIN | 20 MG |
| 55700024430 | LOVASTATIN | 20 MG |
| 55700024460 | LOVASTATIN | 20 MG |
| 55700024490 | LOVASTATIN | 20 MG |
| 55887097430 | LOVASTATIN | 20 MG |

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| 57866660101 | LOVASTATIN | 20 MG |
| 58016090000 | LOVASTATIN | 20 MG |
| 58016090002 | LOVASTATIN | 20 MG |
| 58016090030 | LOVASTATIN | 20 MG |
| 58016090060 | LOVASTATIN | 20 MG |
| 58016090090 | LOVASTATIN | 20 MG |
| 58864078030 | LOVASTATIN | 20 MG |
| 58864078060 | LOVASTATIN | 20 MG |
| 59630062830 | ALTOPREV | 20 MG |
| 60429024910 | LOVASTATIN | 20 MG |
| 60429024960 | LOVASTATIN | 20 MG |
| 60429040110 | LOVASTATIN | 20 MG |
| 60429040160 | LOVASTATIN | 20 MG |
| 60429040190 | LOVASTATIN | 20 MG |
| 60505017800 | LOVASTATIN | 20 MG |
| 60760037030 | LOVASTATIN | 20 MG |
| 61442014201 | LOVASTATIN | 20 MG |
| 61442014205 | LOVASTATIN | 20 MG |
| 61442014210 | LOVASTATIN | 20 MG |
| 61442014260 | LOVASTATIN | 20 MG |
| 61919054730 | LOVASTATIN | 20 MG |
| 61919054790 | LOVASTATIN | 20 MG |
| 61919067671 | LOVASTATIN | 20 MG |
| 62022062830 | ALTOPREV | 20 MG |
| 62022077030 | ALTOCOR | 20 MG |
| 62037079201 | LOVASTATIN | 20 MG |
| 62037079260 | LOVASTATIN | 20 MG |
| 63629146401 | LOVASTATIN | 20 MG |
| 63629146402 | LOVASTATIN | 20 MG |
| 63629146403 | LOVASTATIN | 20 MG |
| 63739028103 | LOVASTATIN | 20 MG |
| 63739028110 | LOVASTATIN | 20 MG |
| 63739028115 | LOVASTATIN | 20 MG |
| 63874036301 | LOVASTATIN | 20 MG |
| 63874036310 | LOVASTATIN | 20 MG |
| 63874036320 | LOVASTATIN | 20 MG |
| 63874036330 | LOVASTATIN | 20 MG |
| 63874036360 | LOVASTATIN | 20 MG |
| 63874036390 | LOVASTATIN | 20 MG |
| 66116027730 | LOVASTATIN | 20 MG |
| 66336031005 | LOVASTATIN | 20 MG |
| 66336031030 | LOVASTATIN | 20 MG |

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| 66336031060 | LOVASTATIN | 20 MG |
| 66336031090 | LOVASTATIN | 20 MG |
| 67046045030 | LOVASTATIN | 20 MG |
| 68001022400 | LOVASTATIN | 20 MG |
| 68001022406 | LOVASTATIN | 20 MG |
| 68001022408 | LOVASTATIN | 20 MG |
| 68001031500 | LOVASTATIN | 20 MG |
| 68001031508 | LOVASTATIN | 20 MG |
| 68084013201 | LOVASTATIN | 20 MG |
| 68084055901 | LOVASTATIN | 20 MG |
| 68084055911 | LOVASTATIN | 20 MG |
| 68115021930 | LOVASTATIN | 20 MG |
| 68115021960 | LOVASTATIN | 20 MG |
| 68180046801 | LOVASTATIN | 20 MG |
| 68180046803 | LOVASTATIN | 20 MG |
| 68180046805 | LOVASTATIN | 20 MG |
| 68180046807 | LOVASTATIN | 20 MG |
| 68645056690 | LOVASTATIN | 20 MG |
| 70515062830 | ALTOPREV | 20 MG |
| 00003017850 | PRAVACHOL | 20 MG |
| 00003017851 | PRAVACHOL | 20 MG |
| 00003517805 | PRAVACHOL | 20 MG |
| 00003517806 | PRAVACHOL | 20 MG |
| 00003517875 | PRAVACHOL | 20 MG |
| 00093720110 | PRAVASTATIN SODIUM | 20 MG |
| 00093720198 | PRAVASTATIN SODIUM | 20 MG |
| 00378055477 | PRAVASTATIN SODIUM | 20 MG |
| 00378822010 | PRAVASTATIN SODIUM | 20 MG |
| 00378822077 | PRAVASTATIN SODIUM | 20 MG |
| 00591001410 | PRAVASTATIN SODIUM | 20 MG |
| 00591001419 | PRAVASTATIN SODIUM | 20 MG |
| 00781523210 | PRAVASTATIN SODIUM | 20 MG |
| 00781523292 | PRAVASTATIN SODIUM | 20 MG |
| 00904589261 | PRAVASTATIN SODIUM | 20 MG |
| 00904611461 | PRAVASTATIN SODIUM | 20 MG |
| 10544050530 | PRAVASTATIN SODIUM | 20 MG |
| 13411011801 | PRAVACHOL | 20 MG |
| 13411011802 | PRAVACHOL | 20 MG |
| 13411011803 | PRAVACHOL | 20 MG |
| 13411011806 | PRAVACHOL | 20 MG |
| 13411011809 | PRAVACHOL | 20 MG |
| 16252052750 | PRAVASTATIN SODIUM | 20 MG |

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| 16252052790 | PRAVASTATIN SODIUM | 20 MG |
| 16729000915 | PRAVASTATIN SODIUM | 20 MG |
| 16729000916 | PRAVASTATIN SODIUM | 20 MG |
| 16729000917 | PRAVASTATIN SODIUM | 20 MG |
| 21695017930 | PRAVASTATIN SODIUM | 20 MG |
| 21695017990 | PRAVASTATIN SODIUM | 20 MG |
| 23490935103 | PRAVASTATIN SODIUM | 20 MG |
| 23490935106 | PRAVASTATIN SODIUM | 20 MG |
| 23490935109 | PRAVASTATIN SODIUM | 20 MG |
| 33261086700 | PRAVASTATIN SODIUM | 20 MG |
| 33261086730 | PRAVASTATIN SODIUM | 20 MG |
| 33261086760 | PRAVASTATIN SODIUM | 20 MG |
| 33261086790 | PRAVASTATIN SODIUM | 20 MG |
| 35356091930 | PRAVASTATIN SODIUM | 20 MG |
| 35356091990 | PRAVASTATIN SODIUM | 20 MG |
| 42254020230 | PRAVASTATIN SODIUM | 20 MG |
| 42254020290 | PRAVASTATIN SODIUM | 20 MG |
| 42254042530 | PRAVASTATIN SODIUM | 20 MG |
| 42254042590 | PRAVASTATIN SODIUM | 20 MG |
| 42291066710 | PRAVASTATIN SODIUM | 20 MG |
| 42291066790 | PRAVASTATIN SODIUM | 20 MG |
| 43063014330 | PRAVASTATIN SODIUM | 20 MG |
| 43063044330 | PRAVASTATIN SODIUM | 20 MG |
| 43063080730 | PRAVASTATIN SODIUM | 20 MG |
| 49884017909 | PRAVASTATIN SODIUM | 20 MG |
| 49884017910 | PRAVASTATIN SODIUM | 20 MG |
| 50090202500 | PRAVASTATIN SODIUM | 20 MG |
| 50090202501 | PRAVASTATIN SODIUM | 20 MG |
| 50090254500 | PRAVASTATIN SODIUM | 20 MG |
| 50090254501 | PRAVASTATIN SODIUM | 20 MG |
| 50111076203 | PRAVASTATIN SODIUM | 20 MG |
| 50111076217 | PRAVASTATIN SODIUM | 20 MG |
| 50268067311 | PRAVASTATIN SODIUM AVPAK | 20 MG |
| 50268067315 | PRAVASTATIN SODIUM AVPAK | 20 MG |
| 51079045801 | PRAVASTATIN SODIUM | 20 MG |
| 51079045820 | PRAVASTATIN SODIUM | 20 MG |
| 51655007152 | PRAVASTATIN SODIUM | 20 MG |
| 52959099030 | PRAVASTATIN SODIUM | 20 MG |
| 52959099090 | PRAVASTATIN SODIUM | 20 MG |
| 54458086910 | PRAVASTATIN SODIUM | 20 MG |
| 54458090802 | PRAVASTATIN SODIUM | 20 MG |
| 54458092610 | PRAVASTATIN SODIUM | 20 MG |

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| 54458092616 | PRAVASTATIN SODIUM | 20 MG |
| 54458098610 | PRAVASTATIN SODIUM | 20 MG |
| 54569371500 | PRAVACHOL | 20 MG |
| 54569371501 | PRAVACHOL | 20 MG |
| 54569371502 | PRAVACHOL | 20 MG |
| 54569371503 | PRAVACHOL | 20 MG |
| 54569407100 | PRAVACHOL | 20 MG |
| 54569579300 | PRAVASTATIN SODIUM | 20 MG |
| 54569579301 | PRAVASTATIN SODIUM | 20 MG |
| 54569851000 | PRAVACHOL | 20 MG |
| 54569851001 | PRAVACHOL | 20 MG |
| 54868228800 | PRAVACHOL | 20 MG |
| 54868228801 | PRAVACHOL | 20 MG |
| 54868228802 | PRAVACHOL | 20 MG |
| 54868557700 | PRAVASTATIN SODIUM | 20 MG |
| 54868557701 | PRAVASTATIN SODIUM | 20 MG |
| 55048059730 | PRAVASTATIN SODIUM | 20 MG |
| 55111023005 | PRAVASTATIN SODIUM | 20 MG |
| 55111023090 | PRAVASTATIN SODIUM | 20 MG |
| 55175539003 | PRAVACHOL | 20 MG |
| 55289087130 | PRAVACHOL | 20 MG |
| 55887020330 | PRAVASTATIN | 20 MG |
| 55887020390 | PRAVASTATIN | 20 MG |
| 57237016505 | PRAVASTATIN SODIUM | 20 MG |
| 57237016590 | PRAVASTATIN SODIUM | 20 MG |
| 58016001300 | PRAVASTATIN | 20 MG |
| 58016001330 | PRAVASTATIN | 20 MG |
| 58016001360 | PRAVASTATIN | 20 MG |
| 58016001390 | PRAVASTATIN | 20 MG |
| 58016042500 | PRAVACHOL | 20 MG |
| 58016042530 | PRAVACHOL | 20 MG |
| 58016042560 | PRAVACHOL | 20 MG |
| 58016042590 | PRAVACHOL | 20 MG |
| 60429036805 | PRAVASTATIN SODIUM | 20 MG |
| 60429036845 | PRAVASTATIN SODIUM | 20 MG |
| 60429036890 | PRAVASTATIN SODIUM | 20 MG |
| 60505016907 | PRAVASTATIN SODIUM | 20 MG |
| 60505016909 | PRAVASTATIN SODIUM | 20 MG |
| 60687017801 | PRAVASTATIN SODIUM | 20 MG |
| 60687017811 | PRAVASTATIN SODIUM | 20 MG |
| 60760007730 | PRAVASTATIN SODIUM | 20 MG |
| 60760007790 | PRAVASTATIN SODIUM | 20 MG |

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| 60760042190 | PRAVASTATIN SODIUM | 20 MG |
| 61919073190 | PRAVASTATIN SODIUM | 20 MG |
| 63304059690 | PRAVASTATIN SODIUM | 20 MG |
| 63629356301 | PRAVASTATIN SODIUM | 20 MG |
| 63739064910 | PRAVASTATIN SODIUM | 20 MG |
| 63739064941 | PRAVASTATIN SODIUM | 20 MG |
| 66105012101 | PRAVACHOL | 20 MG |
| 66105012103 | PRAVACHOL | 20 MG |
| 66105012106 | PRAVACHOL | 20 MG |
| 66105012109 | PRAVACHOL | 20 MG |
| 66105012115 | PRAVACHOL | 20 MG |
| 66116023830 | PRAVACHOL | 20 MG |
| 66336068530 | PRAVASTATIN SODIUM | 20 MG |
| 66336068590 | PRAVASTATIN SODIUM | 20 MG |
| 68084018701 | PRAVASTATIN SODIUM | 20 MG |
| 68084050101 | PRAVASTATIN SODIUM | 20 MG |
| 68084050111 | PRAVASTATIN SODIUM | 20 MG |
| 68180048602 | PRAVASTATIN SODIUM | 20 MG |
| 68180048609 | PRAVASTATIN SODIUM | 20 MG |
| 68382007105 | PRAVASTATIN SODIUM | 20 MG |
| 68382007116 | PRAVASTATIN SODIUM | 20 MG |
| 68462019605 | PRAVASTATIN SODIUM | 20 MG |
| 68462019690 | PRAVASTATIN SODIUM | 20 MG |
| 71205014930 | PRAVASTATIN SODIUM | 20 MG |
| 00093757298 | ROSUVASTATIN CALCIUM | 20 MG |
| 00310075239 | CRESTOR | 20 MG |
| 00310075290 | CRESTOR | 20 MG |
| 00378220477 | ROSUVASTATIN CALCIUM | 20 MG |
| 00781540292 | ROSUVASTATIN CALCIUM | 20 MG |
| 00904660461 | ROSUVASTATIN CALCIUM | 20 MG |
| 00904678061 | ROSUVASTATIN CALCIUM | 20 MG |
| 12280035130 | CRESTOR | 20 MG |
| 12280035190 | CRESTOR | 20 MG |
| 13668018130 | ROSUVASTATIN CALCIUM | 20 MG |
| 13668018190 | ROSUVASTATIN CALCIUM | 20 MG |
| 16252061730 | ROSUVASTATIN CALCIUM | 20 MG |
| 16252061750 | ROSUVASTATIN CALCIUM | 20 MG |
| 16252061790 | ROSUVASTATIN CALCIUM | 20 MG |
| 16729028615 | ROSUVASTATIN CALCIUM | 20 MG |
| 16729028617 | ROSUVASTATIN CALCIUM | 20 MG |
| 21695028890 | CRESTOR | 20 MG |
| 27808015701 | ROSUVASTATIN CALCIUM | 20 MG |

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| 31722088490 | ROSUVASTATIN CALCIUM | 20 MG |
| 42291074490 | ROSUVASTATIN CALCIUM | 20 MG |
| 42292003101 | ROSUVASTATIN CALCIUM | 20 MG |
| 42292003120 | ROSUVASTATIN CALCIUM | 20 MG |
| 47335058481 | ROSUVASTATIN CALCIUM | 20 MG |
| 47335098683 | EZALLOR SPRINKLE | 20 MG |
| 49884026209 | ROSUVASTATIN CALCIUM | 20 MG |
| 49999099230 | CRESTOR | 20 MG |
| 49999099290 | CRESTOR | 20 MG |
| 50090272400 | ROSUVASTATIN CALCIUM | 20 MG |
| 50090272401 | ROSUVASTATIN CALCIUM | 20 MG |
| 50268071011 | ROSUVASTATIN CALCIUM AVPAK | 20 MG |
| 50268071015 | ROSUVASTATIN CALCIUM AVPAK | 20 MG |
| 51407015590 | ROSUVASTATIN CALCIUM | 20 MG |
| 53217011330 | CRESTOR | 20 MG |
| 53217011390 | CRESTOR | 20 MG |
| 53217029630 | ROSUVASTATIN CALCIUM | 20 MG |
| 53217029690 | ROSUVASTATIN CALCIUM | 20 MG |
| 54569567200 | CRESTOR | 20 MG |
| 54569567202 | CRESTOR | 20 MG |
| 54569667500 | ROSUVASTATIN CALCIUM | 20 MG |
| 54569667501 | ROSUVASTATIN CALCIUM | 20 MG |
| 54868508500 | CRESTOR | 20 MG |
| 54868508501 | CRESTOR | 20 MG |
| 54868508502 | CRESTOR | 20 MG |
| 54868508503 | CRESTOR | 20 MG |
| 54868508504 | CRESTOR | 20 MG |
| 55048009730 | CRESTOR | 20 MG |
| 55289093230 | CRESTOR | 20 MG |
| 55700057530 | ROSUVASTATIN CALCIUM | 20 MG |
| 57237017090 | ROSUVASTATIN CALCIUM | 20 MG |
| 57237017099 | ROSUVASTATIN CALCIUM | 20 MG |
| 58016005200 | CRESTOR | 20 MG |
| 58016005230 | CRESTOR | 20 MG |
| 58016005260 | CRESTOR | 20 MG |
| 58016005290 | CRESTOR | 20 MG |
| 60429084490 | ROSUVASTATIN CALCIUM | 20 MG |
| 60505450409 | ROSUVASTATIN CALCIUM | 20 MG |
| 60687025601 | ROSUVASTATIN CALCIUM | 20 MG |
| 60687025611 | ROSUVASTATIN CALCIUM | 20 MG |
| 63187086530 | ROSUVASTATIN CALCIUM | 20 MG |
| 63187086590 | ROSUVASTATIN CALCIUM | 20 MG |

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| 65862029590 | ROSUVASTATIN CALCIUM | 20 MG |
| 66336067430 | CRESTOR | 20 MG |
| 67877044105 | ROSUVASTATIN CALCIUM | 20 MG |
| 67877044190 | ROSUVASTATIN CALCIUM | 20 MG |
| 68071026330 | CRESTOR | 20 MG |
| 68462026390 | ROSUVASTATIN CALCIUM | 20 MG |
| 70377000812 | ROSUVASTATIN CALCIUM | 20 MG |
| 70377000813 | ROSUVASTATIN CALCIUM | 20 MG |
| 71205004490 | ROSUVASTATIN CALCIUM | 20 MG |
| 71205007730 | ROSUVASTATIN CALCIUM | 20 MG |
| 71205009990 | ROSUVASTATIN CALCIUM | 20 MG |
| 71205027930 | ROSUVASTATIN CALCIUM | 20 MG |
| 71335030201 | ROSUVASTATIN CALCIUM | 20 MG |
| 71335030202 | ROSUVASTATIN CALCIUM | 20 MG |
| 71335030203 | ROSUVASTATIN CALCIUM | 20 MG |
| 72205000490 | ROSUVASTATIN CALCIUM | 20 MG |
| 72205000499 | ROSUVASTATIN CALCIUM | 20 MG |
| 76519114903 | ROSUVASTATIN CALCIUM | 20 MG |
| 00006074028 | ZOCOR | 20 MG |
| 00006074031 | ZOCOR | 20 MG |
| 00006074054 | ZOCOR | 20 MG |
| 00006074061 | ZOCOR | 20 MG |
| 00006074082 | ZOCOR | 20 MG |
| 00006074087 | ZOCOR | 20 MG |
| 00093715410 | SIMVASTATIN | 20 MG |
| 00093715419 | SIMVASTATIN | 20 MG |
| 00093715431 | SIMVASTATIN | 20 MG |
| 00093715456 | SIMVASTATIN | 20 MG |
| 00093715493 | SIMVASTATIN | 20 MG |
| 00093715498 | SIMVASTATIN | 20 MG |
| 00406206703 | SIMVASTATIN | 20 MG |
| 00406206705 | SIMVASTATIN | 20 MG |
| 00406206710 | SIMVASTATIN | 20 MG |
| 00406206760 | SIMVASTATIN | 20 MG |
| 00406206790 | SIMVASTATIN | 20 MG |
| 00781507231 | SIMVASTATIN | 20 MG |
| 00781507292 | SIMVASTATIN | 20 MG |
| 00904580161 | SIMVASTATIN | 20 MG |
| 10544048630 | SIMVASTATIN | 20 MG |
| 13411013201 | ZOCOR | 20 MG |
| 13411013203 | ZOCOR | 20 MG |
| 13411013206 | ZOCOR | 20 MG |

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| 13411013209 | ZOCOR | 20 MG |
| 13411013215 | ZOCOR | 20 MG |
| 16252050730 | SIMVASTATIN | 20 MG |
| 16252050750 | SIMVASTATIN | 20 MG |
| 16252050790 | SIMVASTATIN | 20 MG |
| 16590044630 | SIMVASTATIN | 20 MG |
| 16714068301 | SIMVASTATIN | 20 MG |
| 16714068302 | SIMVASTATIN | 20 MG |
| 16714068303 | SIMVASTATIN | 20 MG |
| 16729000510 | SIMVASTATIN | 20 MG |
| 16729000515 | SIMVASTATIN | 20 MG |
| 16729000517 | SIMVASTATIN | 20 MG |
| 21695074030 | SIMVASTATIN | 20 MG |
| 21695074090 | SIMVASTATIN | 20 MG |
| 23490935403 | SIMVASTATIN | 20 MG |
| 23490935406 | SIMVASTATIN | 20 MG |
| 23490935409 | SIMVASTATIN | 20 MG |
| 24658021210 | SIMVASTATIN | 20 MG |
| 24658021230 | SIMVASTATIN | 20 MG |
| 24658021245 | SIMVASTATIN | 20 MG |
| 24658021290 | SIMVASTATIN | 20 MG |
| 24658030210 | SIMVASTATIN | 20 MG |
| 24658030215 | SIMVASTATIN | 20 MG |
| 24658030230 | SIMVASTATIN | 20 MG |
| 24658030245 | SIMVASTATIN | 20 MG |
| 24658030290 | SIMVASTATIN | 20 MG |
| 31722051210 | SIMVASTATIN | 20 MG |
| 31722051290 | SIMVASTATIN | 20 MG |
| 33261054102 | SIMVASTATIN | 20 MG |
| 33261054130 | SIMVASTATIN | 20 MG |
| 33261054160 | SIMVASTATIN | 20 MG |
| 33261054190 | SIMVASTATIN | 20 MG |
| 35356066730 | SIMVASTATIN | 20 MG |
| 35356078118 | SIMVASTATIN | 20 MG |
| 35356078130 | SIMVASTATIN | 20 MG |
| 35356078190 | SIMVASTATIN | 20 MG |
| 42254006030 | SIMVASTATIN | 20 MG |
| 42254006090 | SIMVASTATIN | 20 MG |
| 42571002010 | SIMVASTATIN | 20 MG |
| 42571002090 | SIMVASTATIN | 20 MG |
| 43063000801 | SIMVASTATIN | 20 MG |
| 43063000830 | SIMVASTATIN | 20 MG |

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| 43063000890 | SIMVASTATIN | 20 MG |
| 45802038401 | SIMVASTATIN | 20 MG |
| 45802038465 | SIMVASTATIN | 20 MG |
| 45802038475 | SIMVASTATIN | 20 MG |
| 45802038493 | SIMVASTATIN | 20 MG |
| 45865042130 | SIMVASTATIN | 20 MG |
| 45865042151 | SIMVASTATIN | 20 MG |
| 45865042160 | SIMVASTATIN | 20 MG |
| 45865042190 | SIMVASTATIN | 20 MG |
| 49999030630 | ZOCOR | 20 MG |
| 49999088930 | SIMVASTATIN | 20 MG |
| 49999088960 | SIMVASTATIN | 20 MG |
| 49999088990 | SIMVASTATIN | 20 MG |
| 50090099901 | SIMVASTATIN | 20 MG |
| 50090099902 | SIMVASTATIN | 20 MG |
| 50090099903 | SIMVASTATIN | 20 MG |
| 50268071411 | SIMVASTATIN AVPAK | 20 MG |
| 50268071415 | SIMVASTATIN AVPAK | 20 MG |
| 50436012202 | SIMVASTATIN | 20 MG |
| 50742013810 | SIMVASTATIN | 20 MG |
| 51079039301 | SIMVASTATIN | 20 MG |
| 51079039320 | SIMVASTATIN | 20 MG |
| 51079045501 | SIMVASTATIN | 20 MG |
| 51079045520 | SIMVASTATIN | 20 MG |
| 52343002390 | SIMVASTATIN | 20 MG |
| 52343002399 | SIMVASTATIN | 20 MG |
| 52959098930 | SIMVASTATIN | 20 MG |
| 52959098990 | SIMVASTATIN | 20 MG |
| 54458089910 | SIMVASTATIN | 20 MG |
| 54458092804 | SIMVASTATIN | 20 MG |
| 54458093310 | SIMVASTATIN | 20 MG |
| 54458093316 | SIMVASTATIN | 20 MG |
| 54569440300 | ZOCOR | 20 MG |
| 54569583300 | SIMVASTATIN | 20 MG |
| 54569583301 | SIMVASTATIN | 20 MG |
| 54569583302 | SIMVASTATIN | 20 MG |
| 54569583303 | SIMVASTATIN | 20 MG |
| 54868310400 | ZOCOR | 20 MG |
| 54868310401 | ZOCOR | 20 MG |
| 54868562800 | SIMVASTATIN | 20 MG |
| 54868562801 | SIMVASTATIN | 20 MG |
| 54868562802 | SIMVASTATIN | 20 MG |

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| 55048077530 | SIMVASTATIN | 20 MG |
| 55048077590 | SIMVASTATIN | 20 MG |
| 55111019905 | SIMVASTATIN | 20 MG |
| 55111019910 | SIMVASTATIN | 20 MG |
| 55111019930 | SIMVASTATIN | 20 MG |
| 55111019990 | SIMVASTATIN | 20 MG |
| 55111074010 | SIMVASTATIN | 20 MG |
| 55111074030 | SIMVASTATIN | 20 MG |
| 55111074090 | SIMVASTATIN | 20 MG |
| 55289029314 | SIMVASTATIN | 20 MG |
| 55289029330 | SIMVASTATIN | 20 MG |
| 55289029390 | SIMVASTATIN | 20 MG |
| 55700002130 | SIMVASTATIN | 20 MG |
| 55700002190 | SIMVASTATIN | 20 MG |
| 55700017830 | SIMVASTATIN | 20 MG |
| 55700054990 | SIMVASTATIN | 20 MG |
| 55887032730 | SIMVASTATIN | 20 MG |
| 55887032760 | SIMVASTATIN | 20 MG |
| 55887032790 | SIMVASTATIN | 20 MG |
| 57866393601 | SIMVASTATIN | 20 MG |
| 57866798201 | ZOCOR | 20 MG |
| 58016000700 | SIMVASTATIN | 20 MG |
| 58016000730 | SIMVASTATIN | 20 MG |
| 58016000760 | SIMVASTATIN | 20 MG |
| 58016000790 | SIMVASTATIN | 20 MG |
| 58016038500 | ZOCOR | 20 MG |
| 58016038530 | ZOCOR | 20 MG |
| 58016038560 | ZOCOR | 20 MG |
| 58016038590 | ZOCOR | 20 MG |
| 58864076030 | ZOCOR | 20 MG |
| 60760000530 | SIMVASTATIN | 20 MG |
| 60760000590 | SIMVASTATIN | 20 MG |
| 61919044630 | SIMVASTATIN | 20 MG |
| 61919044660 | SIMVASTATIN | 20 MG |
| 61919044690 | SIMVASTATIN | 20 MG |
| 63304079110 | SIMVASTATIN | 20 MG |
| 63304079130 | SIMVASTATIN | 20 MG |
| 63304079190 | SIMVASTATIN | 20 MG |
| 63629339301 | SIMVASTATIN | 20 MG |
| 63629339302 | SIMVASTATIN | 20 MG |
| 63629339303 | SIMVASTATIN | 20 MG |
| 63629339304 | SIMVASTATIN | 20 MG |

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| 63739042110 | SIMVASTATIN | 20 MG |
| 63739043704 | SIMVASTATIN | 20 MG |
| 63739043710 | SIMVASTATIN | 20 MG |
| 63739057210 | SIMVASTATIN | 20 MG |
| 65862005226 | SIMVASTATIN | 20 MG |
| 65862005230 | SIMVASTATIN | 20 MG |
| 65862005290 | SIMVASTATIN | 20 MG |
| 65862005299 | SIMVASTATIN | 20 MG |
| 66105050503 | ZOCOR | 20 MG |
| 66267126101 | SIMVASTATIN | 20 MG |
| 66336095430 | SIMVASTATIN | 20 MG |
| 66336095490 | SIMVASTATIN | 20 MG |
| 68071069930 | SIMVASTATIN | 20 MG |
| 68084016301 | SIMVASTATIN | 20 MG |
| 68084051201 | SIMVASTATIN | 20 MG |
| 68084051211 | SIMVASTATIN | 20 MG |
| 68115067230 | ZOCOR | 20 MG |
| 68180047901 | SIMVASTATIN | 20 MG |
| 68180047902 | SIMVASTATIN | 20 MG |
| 68180047903 | SIMVASTATIN | 20 MG |
| 68382006705 | SIMVASTATIN | 20 MG |
| 68382006706 | SIMVASTATIN | 20 MG |
| 68382006710 | SIMVASTATIN | 20 MG |
| 68382006714 | SIMVASTATIN | 20 MG |
| 68382006716 | SIMVASTATIN | 20 MG |
| 68382006724 | SIMVASTATIN | 20 MG |
| 68645026154 | SIMVASTATIN | 20 MG |
| 68645047054 | SIMVASTATIN | 20 MG |
| 70377000312 | SIMVASTATIN | 20 MG |
| 70377000314 | SIMVASTATIN | 20 MG |
| 70377000315 | SIMVASTATIN | 20 MG |
| 29273040104 | FLOLIPID | 20 MG/5 ML |
| 66582032130 | LIPTRUZET | 20 MG-10 MG |
| 66582032154 | LIPTRUZET | 20 MG-10 MG |
| 00006075731 | JUVISYNC | 20 MG-100 MG |
| 00006075754 | JUVISYNC | 20 MG-100 MG |
| 00006075782 | JUVISYNC | 20 MG-100 MG |
| 00074300790 | ADVICOR | 20 MG-1000 MG |
| 54868508700 | ADVICOR | 20 MG-1000 MG |
| 60598000890 | ADVICOR | 20 MG-1000 MG |
| 00006053531 | JUVISYNC | 20 MG-50 MG |
| 00006053554 | JUVISYNC | 20 MG-50 MG |

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| 00074300590 | ADVICOR | 20 MG-500 MG |
| 54868480700 | ADVICOR | 20 MG-500 MG |
| 54868480701 | ADVICOR | 20 MG-500 MG |
| 60598000690 | ADVICOR | 20 MG-500 MG |
| 00074307290 | ADVICOR | 20 MG-750 MG |
| 54868480702 | ADVICOR | 20 MG-750 MG |
| 54868499900 | ADVICOR | 20 MG-750 MG |
| 54868499901 | ADVICOR | 20 MG-750 MG |
| 60598000790 | ADVICOR | 20 MG-750 MG |
| 00003516911 | PRAVIGARD PAC | 325 MG; 20 MG |
| 00003517411 | PRAVIGARD PAC | 325 MG; 40 MG |
| 00003518411 | PRAVIGARD PAC | 325 MG; 80 MG |
| 00002477290 | LIVALO | 4 MG |
| 25208020209 | ZYPITAMAG | 4 MG |
| 66869040407 | LIVALO | 4 MG |
| 66869040490 | LIVALO | 4 MG |
| 00071015723 | LIPITOR | 40 MG |
| 00071015740 | LIPITOR | 40 MG |
| 00071015773 | LIPITOR | 40 MG |
| 00071015788 | LIPITOR | 40 MG |
| 00093505898 | ATORVASTATIN CALCIUM | 40 MG |
| 00378212105 | ATORVASTATIN CALCIUM | 40 MG |
| 00378212177 | ATORVASTATIN CALCIUM | 40 MG |
| 00378395205 | ATORVASTATIN CALCIUM | 40 MG |
| 00378395207 | ATORVASTATIN CALCIUM | 40 MG |
| 00378395209 | ATORVASTATIN CALCIUM | 40 MG |
| 00378395277 | ATORVASTATIN CALCIUM | 40 MG |
| 00591377605 | ATORVASTATIN CALCIUM | 40 MG |
| 00591377619 | ATORVASTATIN CALCIUM | 40 MG |
| 00781538492 | ATORVASTATIN CALCIUM | 40 MG |
| 00904629261 | ATORVASTATIN CALCIUM | 40 MG |
| 10135065110 | ATORVASTATIN CALCIUM | 40 MG |
| 13411011501 | LIPITOR | 40 MG |
| 13411011503 | LIPITOR | 40 MG |
| 13411011506 | LIPITOR | 40 MG |
| 13411011509 | LIPITOR | 40 MG |
| 13411011515 | LIPITOR | 40 MG |
| 16714087601 | ATORVASTATIN CALCIUM | 40 MG |
| 16714087602 | ATORVASTATIN CALCIUM | 40 MG |
| 16714087603 | ATORVASTATIN CALCIUM | 40 MG |
| 16729004617 | ATORVASTATIN CALCIUM | 40 MG |
| 21695025590 | LIPITOR | 40 MG |

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| 33261097300 | ATORVASTATIN CALCIUM | 40 MG |
| 33261097330 | ATORVASTATIN CALCIUM | 40 MG |
| 33261097360 | ATORVASTATIN CALCIUM | 40 MG |
| 33261097390 | ATORVASTATIN CALCIUM | 40 MG |
| 35356092930 | ATORVASTATIN CALCIUM | 40 MG |
| 42254001930 | ATORVASTATIN CALCIUM | 40 MG |
| 42254001945 | ATORVASTATIN CALCIUM | 40 MG |
| 42254001990 | ATORVASTATIN CALCIUM | 40 MG |
| 42254037930 | ATORVASTATIN CALCIUM | 40 MG |
| 42254037990 | ATORVASTATIN CALCIUM | 40 MG |
| 42291014550 | ATORVASTATIN CALCIUM | 40 MG |
| 42291014590 | ATORVASTATIN CALCIUM | 40 MG |
| 43063045330 | ATORVASTATIN CALCIUM | 40 MG |
| 49999046830 | LIPITOR | 40 MG |
| 49999046890 | LIPITOR | 40 MG |
| 50090126000 | ATORVASTATIN CALCIUM | 40 MG |
| 50090126001 | ATORVASTATIN CALCIUM | 40 MG |
| 50090126100 | ATORVASTATIN CALCIUM | 40 MG |
| 50090126101 | ATORVASTATIN CALCIUM | 40 MG |
| 50090343800 | ATORVASTATIN CALCIUM | 40 MG |
| 50090343801 | ATORVASTATIN CALCIUM | 40 MG |
| 50268009511 | ATORVASTATIN CALCIUM AVPAK | 40 MG |
| 50268009515 | ATORVASTATIN CALCIUM AVPAK | 40 MG |
| 50436998901 | ATORVASTATIN CALCIUM | 40 MG |
| 51079021001 | ATORVASTATIN CALCIUM | 40 MG |
| 51079021020 | ATORVASTATIN CALCIUM | 40 MG |
| 51079041101 | ATORVASTATIN CALCIUM | 40 MG |
| 51079041120 | ATORVASTATIN CALCIUM | 40 MG |
| 51407008010 | ATORVASTATIN CALCIUM | 40 MG |
| 51407008090 | ATORVASTATIN CALCIUM | 40 MG |
| 51655064030 | ATORVASTATIN CALCIUM | 40 MG |
| 51655065152 | ATORVASTATIN CALCIUM | 40 MG |
| 52959004630 | LIPITOR | 40 MG |
| 54458088110 | ATORVASTATIN CALCIUM | 40 MG |
| 54458088116 | ATORVASTATIN CALCIUM | 40 MG |
| 54569458700 | LIPITOR | 40 MG |
| 54569458701 | LIPITOR | 40 MG |
| 54569628400 | ATORVASTATIN CALCIUM | 40 MG |
| 54569628401 | ATORVASTATIN CALCIUM | 40 MG |
| 54868422900 | LIPITOR | 40 MG |
| 54868422901 | LIPITOR | 40 MG |
| 54868422902 | LIPITOR | 40 MG |

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| 54868422903 | LIPITOR | 40 MG |
| 54868632100 | ATORVASTATIN CALCIUM | 40 MG |
| 55111012305 | ATORVASTATIN CALCIUM | 40 MG |
| 55111012390 | ATORVASTATIN CALCIUM | 40 MG |
| 55289086130 | LIPITOR | 40 MG |
| 55887092990 | LIPITOR | 40 MG |
| 58864062315 | LIPITOR | 40 MG |
| 58864062330 | LIPITOR | 40 MG |
| 59762015701 | ATORVASTATIN CALCIUM | 40 MG |
| 59762015702 | ATORVASTATIN CALCIUM | 40 MG |
| 60429032501 | ATORVASTATIN CALCIUM | 40 MG |
| 60429032505 | ATORVASTATIN CALCIUM | 40 MG |
| 60429032577 | ATORVASTATIN CALCIUM | 40 MG |
| 60429032590 | ATORVASTATIN CALCIUM | 40 MG |
| 60505258008 | ATORVASTATIN CALCIUM | 40 MG |
| 60505258009 | ATORVASTATIN CALCIUM | 40 MG |
| 60760035530 | ATORVASTATIN CALCIUM | 40 MG |
| 60760035590 | ATORVASTATIN CALCIUM | 40 MG |
| 60760070930 | ATORVASTATIN CALCIUM | 40 MG |
| 60760090530 | ATORVASTATIN CALCIUM | 40 MG |
| 60760090590 | ATORVASTATIN CALCIUM | 40 MG |
| 61919030330 | ATORVASTATIN CALCIUM | 40 MG |
| 61919030390 | ATORVASTATIN CALCIUM | 40 MG |
| 62175089241 | ATORVASTATIN CALCIUM | 40 MG |
| 62175089246 | ATORVASTATIN CALCIUM | 40 MG |
| 63304082905 | ATORVASTATIN CALCIUM | 40 MG |
| 63304082990 | ATORVASTATIN CALCIUM | 40 MG |
| 63629486501 | ATORVASTATIN CALCIUM | 40 MG |
| 66105011509 | LIPITOR | 40 MG |
| 67801031403 | LIPITOR | 40 MG |
| 67877051310 | ATORVASTATIN CALCIUM | 40 MG |
| 67877051390 | ATORVASTATIN CALCIUM | 40 MG |
| 68071031030 | LIPITOR | 40 MG |
| 68071091630 | ATORVASTATIN CALCIUM | 40 MG |
| 68084009901 | ATORVASTATIN CALCIUM | 40 MG |
| 68084009911 | ATORVASTATIN CALCIUM | 40 MG |
| 68084058901 | ATORVASTATIN CALCIUM | 40 MG |
| 68115066815 | LIPITOR | 40 MG |
| 68115066830 | LIPITOR | 40 MG |
| 68115066890 | LIPITOR | 40 MG |
| 68258600203 | LIPITOR | 40 MG |
| 68258600209 | LIPITOR | 40 MG |

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| 68382025110 | ATORVASTATIN CALCIUM | 40 MG |
| 68382025116 | ATORVASTATIN CALCIUM | 40 MG |
| 68645041754 | ATORVASTATIN CALCIUM | 40 MG |
| 68645046054 | ATORVASTATIN CALCIUM | 40 MG |
| 68645048354 | ATORVASTATIN CALCIUM | 40 MG |
| 68645056854 | ATORVASTATIN CALCIUM | 40 MG |
| 69097089905 | ATORVASTATIN CALCIUM | 40 MG |
| 69097089915 | ATORVASTATIN CALCIUM | 40 MG |
| 69097094605 | ATORVASTATIN CALCIUM | 40 MG |
| 69097094615 | ATORVASTATIN CALCIUM | 40 MG |
| 70377002911 | ATORVASTATIN CALCIUM | 40 MG |
| 70377002913 | ATORVASTATIN CALCIUM | 40 MG |
| 70882010930 | ATORVASTATIN CALCIUM | 40 MG |
| 70934009130 | ATORVASTATIN CALCIUM | 40 MG |
| 71205026490 | ATORVASTATIN CALCIUM | 40 MG |
| 71335010201 | ATORVASTATIN CALCIUM | 40 MG |
| 71335010202 | ATORVASTATIN CALCIUM | 40 MG |
| 71335010203 | ATORVASTATIN CALCIUM | 40 MG |
| 71335010204 | ATORVASTATIN CALCIUM | 40 MG |
| 71399054001 | ATORVASTATIN CALCIUM | 40 MG |
| 72205002405 | ATORVASTATIN CALCIUM | 40 MG |
| 72205002490 | ATORVASTATIN CALCIUM | 40 MG |
| 76519106303 | ATORVASTATIN CALCIUM | 40 MG |
| 00078023405 | LESCOL | 40 MG |
| 00078023415 | LESCOL | 40 MG |
| 00093744301 | FLUVASTATIN | 40 MG |
| 00093744356 | FLUVASTATIN | 40 MG |
| 00378802177 | FLUVASTATIN | 40 MG |
| 00378802193 | FLUVASTATIN | 40 MG |
| 54569476100 | LESCOL | 40 MG |
| 54569476101 | LESCOL | 40 MG |
| 54868422400 | LESCOL | 40 MG |
| 54868422401 | LESCOL | 40 MG |
| 55289047630 | LESCOL | 40 MG |
| 00006073261 | MEVACOR | 40 MG |
| 00006073282 | MEVACOR | 40 MG |
| 00006073287 | MEVACOR | 40 MG |
| 00006073294 | MEVACOR | 40 MG |
| 00093092806 | LOVASTATIN | 40 MG |
| 00093092810 | LOVASTATIN | 40 MG |
| 00093092819 | LOVASTATIN | 40 MG |
| 00093092893 | LOVASTATIN | 40 MG |

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| 00185007401 | LOVASTATIN | 40 MG |
| 00185007410 | LOVASTATIN | 40 MG |
| 00185007460 | LOVASTATIN | 40 MG |
| 00228263506 | LOVASTATIN | 40 MG |
| 00228263550 | LOVASTATIN | 40 MG |
| 00378654005 | LOVASTATIN | 40 MG |
| 00378654091 | LOVASTATIN | 40 MG |
| 00781121310 | LOVASTATIN | 40 MG |
| 00781121360 | LOVASTATIN | 40 MG |
| 00904558352 | LOVASTATIN | 40 MG |
| 10544024230 | LOVASTATIN | 40 MG |
| 16590094130 | LOVASTATIN | 40 MG |
| 21695053630 | LOVASTATIN | 40 MG |
| 21695053690 | LOVASTATIN | 40 MG |
| 23490584001 | LOVASTATIN | 40 MG |
| 23490584002 | LOVASTATIN | 40 MG |
| 33261054900 | LOVASTATIN | 40 MG |
| 33261054902 | LOVASTATIN | 40 MG |
| 33261054930 | LOVASTATIN | 40 MG |
| 33261054960 | LOVASTATIN | 40 MG |
| 33261054990 | LOVASTATIN | 40 MG |
| 33358022630 | LOVASTATIN | 40 MG |
| 42254002530 | LOVASTATIN | 40 MG |
| 42254002590 | LOVASTATIN | 40 MG |
| 42291037710 | LOVASTATIN | 40 MG |
| 42291037790 | LOVASTATIN | 40 MG |
| 43063054814 | LOVASTATIN | 40 MG |
| 43063054830 | LOVASTATIN | 40 MG |
| 43063054890 | LOVASTATIN | 40 MG |
| 43063093930 | LOVASTATIN | 40 MG |
| 45963063501 | LOVASTATIN | 40 MG |
| 45963063504 | LOVASTATIN | 40 MG |
| 49884075601 | LOVASTATIN | 40 MG |
| 49884075602 | LOVASTATIN | 40 MG |
| 49884075610 | LOVASTATIN | 40 MG |
| 49999047100 | LOVASTATIN | 40 MG |
| 49999047130 | LOVASTATIN | 40 MG |
| 49999047160 | LOVASTATIN | 40 MG |
| 49999047190 | LOVASTATIN | 40 MG |
| 50090076200 | LOVASTATIN | 40 MG |
| 50090076202 | LOVASTATIN | 40 MG |
| 50090321600 | LOVASTATIN | 40 MG |

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|-------------|------------------|-------|
| 50090321602 | LOVASTATIN | 40 MG |
| 50268051211 | LOVASTATIN AVPAK | 40 MG |
| 50268051215 | LOVASTATIN AVPAK | 40 MG |
| 51079097601 | LOVASTATIN | 40 MG |
| 51079097620 | LOVASTATIN | 40 MG |
| 51079097630 | LOVASTATIN | 40 MG |
| 51079097656 | LOVASTATIN | 40 MG |
| 51655028124 | LOVASTATIN | 40 MG |
| 53489060901 | LOVASTATIN | 40 MG |
| 53489060906 | LOVASTATIN | 40 MG |
| 53489060910 | LOVASTATIN | 40 MG |
| 54458084416 | LOVASTATIN | 40 MG |
| 54458087010 | LOVASTATIN | 40 MG |
| 54458091410 | LOVASTATIN | 40 MG |
| 54458093610 | LOVASTATIN | 40 MG |
| 54458093616 | LOVASTATIN | 40 MG |
| 54458098210 | LOVASTATIN | 40 MG |
| 54569325600 | MEVACOR | 40 MG |
| 54569325601 | MEVACOR | 40 MG |
| 54569534700 | LOVASTATIN | 40 MG |
| 54569534702 | LOVASTATIN | 40 MG |
| 54868108700 | MEVACOR | 40 MG |
| 54868108701 | MEVACOR | 40 MG |
| 54868477400 | LOVASTATIN | 40 MG |
| 54868477401 | LOVASTATIN | 40 MG |
| 54868477402 | LOVASTATIN | 40 MG |
| 54868477403 | LOVASTATIN | 40 MG |
| 54868551300 | ALTOPREV | 40 MG |
| 55045301501 | LOVASTATIN | 40 MG |
| 55045301508 | LOVASTATIN | 40 MG |
| 55048039430 | LOVASTATIN | 40 MG |
| 55048039490 | LOVASTATIN | 40 MG |
| 55289054830 | MEVACOR | 40 MG |
| 55289069214 | LOVASTATIN | 40 MG |
| 55289069230 | LOVASTATIN | 40 MG |
| 55289069290 | LOVASTATIN | 40 MG |
| 55887036930 | LOVASTATIN | 40 MG |
| 55887036960 | LOVASTATIN | 40 MG |
| 55887036990 | LOVASTATIN | 40 MG |
| 57866650001 | LOVASTATIN | 40 MG |
| 58016092200 | LOVASTATIN | 40 MG |
| 58016092202 | LOVASTATIN | 40 MG |

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| 58016092230 | LOVASTATIN | 40 MG |
| 58016092260 | LOVASTATIN | 40 MG |
| 58016092290 | LOVASTATIN | 40 MG |
| 59630062930 | ALTOPREV | 40 MG |
| 60429025010 | LOVASTATIN | 40 MG |
| 60429025060 | LOVASTATIN | 40 MG |
| 60429025090 | LOVASTATIN | 40 MG |
| 60429040210 | LOVASTATIN | 40 MG |
| 60429040260 | LOVASTATIN | 40 MG |
| 60429040290 | LOVASTATIN | 40 MG |
| 60505017900 | LOVASTATIN | 40 MG |
| 60760037230 | LOVASTATIN | 40 MG |
| 61442014301 | LOVASTATIN | 40 MG |
| 61442014305 | LOVASTATIN | 40 MG |
| 61442014310 | LOVASTATIN | 40 MG |
| 61442014360 | LOVASTATIN | 40 MG |
| 61919094190 | LOVASTATIN | 40 MG |
| 62022062930 | ALTOPREV | 40 MG |
| 62022078030 | ALTOCOR | 40 MG |
| 62037079301 | LOVASTATIN | 40 MG |
| 62037079360 | LOVASTATIN | 40 MG |
| 63629178401 | LOVASTATIN | 40 MG |
| 63629178402 | LOVASTATIN | 40 MG |
| 63739028203 | LOVASTATIN | 40 MG |
| 63739028210 | LOVASTATIN | 40 MG |
| 66267056130 | LOVASTATIN | 40 MG |
| 66267056160 | LOVASTATIN | 40 MG |
| 66267056190 | LOVASTATIN | 40 MG |
| 66336041205 | LOVASTATIN | 40 MG |
| 66336041230 | LOVASTATIN | 40 MG |
| 66336041290 | LOVASTATIN | 40 MG |
| 67046045130 | LOVASTATIN | 40 MG |
| 68001021400 | LOVASTATIN | 40 MG |
| 68001021406 | LOVASTATIN | 40 MG |
| 68001021408 | LOVASTATIN | 40 MG |
| 68001031600 | LOVASTATIN | 40 MG |
| 68001031608 | LOVASTATIN | 40 MG |
| 68084013301 | LOVASTATIN | 40 MG |
| 68084056001 | LOVASTATIN | 40 MG |
| 68115065800 | LOVASTATIN | 40 MG |
| 68180046901 | LOVASTATIN | 40 MG |
| 68180046903 | LOVASTATIN | 40 MG |

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| 68180046905 | LOVASTATIN | 40 MG |
| 68180046907 | LOVASTATIN | 40 MG |
| 68645056790 | LOVASTATIN | 40 MG |
| 70515062930 | ALTOPREV | 40 MG |
| 71205019930 | LOVASTATIN | 40 MG |
| 71205019990 | LOVASTATIN | 40 MG |
| 71335004501 | LOVASTATIN | 40 MG |
| 00003019450 | PRAVACHOL | 40 MG |
| 00003519410 | PRAVACHOL | 40 MG |
| 00003519433 | PRAVACHOL | 40 MG |
| 00093720210 | PRAVASTATIN SODIUM | 40 MG |
| 00093720298 | PRAVASTATIN SODIUM | 40 MG |
| 00378055777 | PRAVASTATIN SODIUM | 40 MG |
| 00378824010 | PRAVASTATIN SODIUM | 40 MG |
| 00378824077 | PRAVASTATIN SODIUM | 40 MG |
| 00591001610 | PRAVASTATIN SODIUM | 40 MG |
| 00591001619 | PRAVASTATIN SODIUM | 40 MG |
| 00781523410 | PRAVASTATIN SODIUM | 40 MG |
| 00781523492 | PRAVASTATIN SODIUM | 40 MG |
| 00904589361 | PRAVASTATIN SODIUM | 40 MG |
| 00904611561 | PRAVASTATIN SODIUM | 40 MG |
| 10544050730 | PRAVASTATIN SODIUM | 40 MG |
| 12280033515 | PRAVASTATIN | 40 MG |
| 12280033530 | PRAVASTATIN | 40 MG |
| 12280033590 | PRAVASTATIN | 40 MG |
| 13411011901 | PRAVACHOL | 40 MG |
| 13411011902 | PRAVACHOL | 40 MG |
| 13411011903 | PRAVACHOL | 40 MG |
| 13411011906 | PRAVACHOL | 40 MG |
| 13411011909 | PRAVACHOL | 40 MG |
| 16252052850 | PRAVASTATIN SODIUM | 40 MG |
| 16252052890 | PRAVASTATIN SODIUM | 40 MG |
| 16590054630 | PRAVASTATIN SODIUM | 40 MG |
| 16590054660 | PRAVASTATIN SODIUM | 40 MG |
| 16590054690 | PRAVASTATIN SODIUM | 40 MG |
| 16729001015 | PRAVASTATIN SODIUM | 40 MG |
| 16729001016 | PRAVASTATIN SODIUM | 40 MG |
| 16729001017 | PRAVASTATIN SODIUM | 40 MG |
| 21695018030 | PRAVASTATIN SODIUM | 40 MG |
| 21695018090 | PRAVASTATIN SODIUM | 40 MG |
| 23490935203 | PRAVASTATIN SODIUM | 40 MG |
| 23490935206 | PRAVASTATIN SODIUM | 40 MG |

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| 23490935209 | PRAVASTATIN SODIUM | 40 MG |
| 33261086800 | PRAVASTATIN SODIUM | 40 MG |
| 33261086830 | PRAVASTATIN SODIUM | 40 MG |
| 33261086860 | PRAVASTATIN SODIUM | 40 MG |
| 33261086890 | PRAVASTATIN SODIUM | 40 MG |
| 35356012530 | PRAVASTATIN SODIUM | 40 MG |
| 42254013130 | PRAVASTATIN SODIUM | 40 MG |
| 42254013190 | PRAVASTATIN SODIUM | 40 MG |
| 42254043430 | PRAVASTATIN SODIUM | 40 MG |
| 42291066810 | PRAVASTATIN SODIUM | 40 MG |
| 42291066890 | PRAVASTATIN SODIUM | 40 MG |
| 43063019530 | PRAVASTATIN SODIUM | 40 MG |
| 43063044430 | PRAVASTATIN SODIUM | 40 MG |
| 43063080830 | PRAVASTATIN SODIUM | 40 MG |
| 49884018009 | PRAVASTATIN SODIUM | 40 MG |
| 49884018010 | PRAVASTATIN SODIUM | 40 MG |
| 50090202400 | PRAVASTATIN SODIUM | 40 MG |
| 50090202401 | PRAVASTATIN SODIUM | 40 MG |
| 50111076403 | PRAVASTATIN SODIUM | 40 MG |
| 50111076417 | PRAVASTATIN SODIUM | 40 MG |
| 51079078201 | PRAVASTATIN SODIUM | 40 MG |
| 51079078220 | PRAVASTATIN SODIUM | 40 MG |
| 51655007252 | PRAVASTATIN SODIUM | 40 MG |
| 51655007352 | PRAVASTATIN SODIUM | 40 MG |
| 54458086710 | PRAVASTATIN SODIUM | 40 MG |
| 54458092510 | PRAVASTATIN SODIUM | 40 MG |
| 54458092516 | PRAVASTATIN SODIUM | 40 MG |
| 54458098510 | PRAVASTATIN SODIUM | 40 MG |
| 54569461000 | PRAVACHOL | 40 MG |
| 54569579400 | PRAVASTATIN SODIUM | 40 MG |
| 54569579401 | PRAVASTATIN SODIUM | 40 MG |
| 54868327000 | PRAVACHOL | 40 MG |
| 54868327001 | PRAVACHOL | 40 MG |
| 54868327002 | PRAVACHOL | 40 MG |
| 54868557800 | PRAVASTATIN SODIUM | 40 MG |
| 54868557801 | PRAVASTATIN SODIUM | 40 MG |
| 54868557802 | PRAVASTATIN SODIUM | 40 MG |
| 55048059630 | PRAVASTATIN SODIUM | 40 MG |
| 55111023105 | PRAVASTATIN SODIUM | 40 MG |
| 55111023190 | PRAVASTATIN SODIUM | 40 MG |
| 55289087330 | PRAVACHOL | 40 MG |
| 55887019290 | PRAVASTATIN | 40 MG |

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| 57237016605 | PRAVASTATIN SODIUM | 40 MG |
| 57237016690 | PRAVASTATIN SODIUM | 40 MG |
| 57866393201 | PRAVASTATIN | 40 MG |
| 58016001200 | PRAVASTATIN | 40 MG |
| 58016001230 | PRAVASTATIN | 40 MG |
| 58016001260 | PRAVASTATIN | 40 MG |
| 58016001290 | PRAVASTATIN | 40 MG |
| 58864074315 | PRAVACHOL | 40 MG |
| 58864074330 | PRAVACHOL | 40 MG |
| 60429036905 | PRAVASTATIN SODIUM | 40 MG |
| 60429036945 | PRAVASTATIN SODIUM | 40 MG |
| 60429036990 | PRAVASTATIN SODIUM | 40 MG |
| 60505017007 | PRAVASTATIN SODIUM | 40 MG |
| 60505017008 | PRAVASTATIN SODIUM | 40 MG |
| 60505017009 | PRAVASTATIN SODIUM | 40 MG |
| 60687019001 | PRAVASTATIN SODIUM | 40 MG |
| 60687019011 | PRAVASTATIN SODIUM | 40 MG |
| 60760007830 | PRAVASTATIN SODIUM | 40 MG |
| 60760007890 | PRAVASTATIN SODIUM | 40 MG |
| 60760042290 | PRAVASTATIN SODIUM | 40 MG |
| 60760052890 | PRAVASTATIN SODIUM | 40 MG |
| 61919054690 | PRAVASTATIN SODIUM | 40 MG |
| 61919070830 | PRAVASTATIN SODIUM | 40 MG |
| 63304059790 | PRAVASTATIN SODIUM | 40 MG |
| 63629160601 | PRAVASTATIN SODIUM | 40 MG |
| 63629160602 | PRAVASTATIN SODIUM | 40 MG |
| 66105012201 | PRAVACHOL | 40 MG |
| 66105012203 | PRAVACHOL | 40 MG |
| 66105012206 | PRAVACHOL | 40 MG |
| 66105012209 | PRAVACHOL | 40 MG |
| 66105012215 | PRAVACHOL | 40 MG |
| 66336081330 | PRAVASTATIN SODIUM | 40 MG |
| 66336081390 | PRAVASTATIN SODIUM | 40 MG |
| 68084018801 | PRAVASTATIN SODIUM | 40 MG |
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| 68084050211 | PRAVASTATIN SODIUM | 40 MG |
| 68115066490 | PRAVACHOL | 40 MG |
| 68180048702 | PRAVASTATIN SODIUM | 40 MG |
| 68180048709 | PRAVASTATIN SODIUM | 40 MG |
| 68382007205 | PRAVASTATIN SODIUM | 40 MG |
| 68382007216 | PRAVASTATIN SODIUM | 40 MG |
| 68462019705 | PRAVASTATIN SODIUM | 40 MG |

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| 68462019790 | PRAVASTATIN SODIUM | 40 MG |
| 68788725301 | PRAVASTATIN SODIUM | 40 MG |
| 68788725302 | PRAVASTATIN SODIUM | 40 MG |
| 68788725303 | PRAVASTATIN SODIUM | 40 MG |
| 68788725306 | PRAVASTATIN SODIUM | 40 MG |
| 68788725308 | PRAVASTATIN SODIUM | 40 MG |
| 68788725309 | PRAVASTATIN SODIUM | 40 MG |
| 70934016130 | PRAVASTATIN SODIUM | 40 MG |
| 71205012130 | PRAVASTATIN SODIUM | 40 MG |
| 76519120009 | PRAVASTATIN SODIUM | 40 MG |
| 00093757356 | ROSUVASTATIN CALCIUM | 40 MG |
| 00310075430 | CRESTOR | 40 MG |
| 00378223293 | ROSUVASTATIN CALCIUM | 40 MG |
| 00781540331 | ROSUVASTATIN CALCIUM | 40 MG |
| 00904660561 | ROSUVASTATIN CALCIUM | 40 MG |
| 00904678161 | ROSUVASTATIN CALCIUM | 40 MG |
| 13668018230 | ROSUVASTATIN CALCIUM | 40 MG |
| 16252061830 | ROSUVASTATIN CALCIUM | 40 MG |
| 16252061850 | ROSUVASTATIN CALCIUM | 40 MG |
| 16252061890 | ROSUVASTATIN CALCIUM | 40 MG |
| 16729028710 | ROSUVASTATIN CALCIUM | 40 MG |
| 16729028715 | ROSUVASTATIN CALCIUM | 40 MG |
| 16729028717 | ROSUVASTATIN CALCIUM | 40 MG |
| 21695065930 | CRESTOR | 40 MG |
| 27808015801 | ROSUVASTATIN CALCIUM | 40 MG |
| 31722088530 | ROSUVASTATIN CALCIUM | 40 MG |
| 35356041330 | CRESTOR | 40 MG |
| 42291074590 | ROSUVASTATIN CALCIUM | 40 MG |
| 42292003201 | ROSUVASTATIN CALCIUM | 40 MG |
| 42292003220 | ROSUVASTATIN CALCIUM | 40 MG |
| 47335058583 | ROSUVASTATIN CALCIUM | 40 MG |
| 47335098783 | EZALLOR SPRINKLE | 40 MG |
| 49884026311 | ROSUVASTATIN CALCIUM | 40 MG |
| 50090272500 | ROSUVASTATIN CALCIUM | 40 MG |
| 50090272501 | ROSUVASTATIN CALCIUM | 40 MG |
| 50090343700 | ROSUVASTATIN CALCIUM | 40 MG |
| 50090343701 | ROSUVASTATIN CALCIUM | 40 MG |
| 50268071111 | ROSUVASTATIN CALCIUM AVPAK | 40 MG |
| 50268071115 | ROSUVASTATIN CALCIUM AVPAK | 40 MG |
| 51407015630 | ROSUVASTATIN CALCIUM | 40 MG |
| 54569605401 | CRESTOR | 40 MG |
| 54569667600 | ROSUVASTATIN CALCIUM | 40 MG |

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| 54569667601 | ROSUVASTATIN CALCIUM | 40 MG |
| 54868189000 | CRESTOR | 40 MG |
| 54868189001 | CRESTOR | 40 MG |
| 55700053490 | ROSUVASTATIN CALCIUM | 40 MG |
| 57237017105 | ROSUVASTATIN CALCIUM | 40 MG |
| 57237017130 | ROSUVASTATIN CALCIUM | 40 MG |
| 57237017190 | ROSUVASTATIN CALCIUM | 40 MG |
| 58016007100 | CRESTOR | 40 MG |
| 58016007130 | CRESTOR | 40 MG |
| 58016007160 | CRESTOR | 40 MG |
| 58016007190 | CRESTOR | 40 MG |
| 60429084530 | ROSUVASTATIN CALCIUM | 40 MG |
| 60505450503 | ROSUVASTATIN CALCIUM | 40 MG |
| 63187086930 | ROSUVASTATIN CALCIUM | 40 MG |
| 63187087230 | ROSUVASTATIN CALCIUM | 40 MG |
| 65862029630 | ROSUVASTATIN CALCIUM | 40 MG |
| 67877044230 | ROSUVASTATIN CALCIUM | 40 MG |
| 67877044290 | ROSUVASTATIN CALCIUM | 40 MG |
| 68258698303 | CRESTOR | 40 MG |
| 68462026430 | ROSUVASTATIN CALCIUM | 40 MG |
| 70377000911 | ROSUVASTATIN CALCIUM | 40 MG |
| 70377000912 | ROSUVASTATIN CALCIUM | 40 MG |
| 70377000913 | ROSUVASTATIN CALCIUM | 40 MG |
| 71205007830 | ROSUVASTATIN CALCIUM | 40 MG |
| 71205017630 | ROSUVASTATIN CALCIUM | 40 MG |
| 71205017690 | ROSUVASTATIN CALCIUM | 40 MG |
| 71335039001 | ROSUVASTATIN CALCIUM | 40 MG |
| 72205000530 | ROSUVASTATIN CALCIUM | 40 MG |
| 72205000590 | ROSUVASTATIN CALCIUM | 40 MG |
| 72205000599 | ROSUVASTATIN CALCIUM | 40 MG |
| 76519115303 | ROSUVASTATIN CALCIUM | 40 MG |
| 00006074928 | ZOCOR | 40 MG |
| 00006074931 | ZOCOR | 40 MG |
| 00006074954 | ZOCOR | 40 MG |
| 00006074961 | ZOCOR | 40 MG |
| 00006074982 | ZOCOR | 40 MG |
| 00093715510 | SIMVASTATIN | 40 MG |
| 00093715519 | SIMVASTATIN | 40 MG |
| 00093715531 | SIMVASTATIN | 40 MG |
| 00093715556 | SIMVASTATIN | 40 MG |
| 00093715593 | SIMVASTATIN | 40 MG |
| 00093715598 | SIMVASTATIN | 40 MG |

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| 00406206803 | SIMVASTATIN | 40 MG |
| 00406206805 | SIMVASTATIN | 40 MG |
| 00406206810 | SIMVASTATIN | 40 MG |
| 00406206860 | SIMVASTATIN | 40 MG |
| 00406206890 | SIMVASTATIN | 40 MG |
| 00781507331 | SIMVASTATIN | 40 MG |
| 00781507392 | SIMVASTATIN | 40 MG |
| 00904580261 | SIMVASTATIN | 40 MG |
| 10544048790 | SIMVASTATIN | 40 MG |
| 13411013301 | ZOCOR | 40 MG |
| 13411013303 | ZOCOR | 40 MG |
| 13411013306 | ZOCOR | 40 MG |
| 13411013309 | ZOCOR | 40 MG |
| 13411013315 | ZOCOR | 40 MG |
| 16252050830 | SIMVASTATIN | 40 MG |
| 16252050850 | SIMVASTATIN | 40 MG |
| 16252050890 | SIMVASTATIN | 40 MG |
| 16590043130 | SIMVASTATIN | 40 MG |
| 16590043190 | SIMVASTATIN | 40 MG |
| 16714068401 | SIMVASTATIN | 40 MG |
| 16714068402 | SIMVASTATIN | 40 MG |
| 16714068403 | SIMVASTATIN | 40 MG |
| 16729000610 | SIMVASTATIN | 40 MG |
| 16729000615 | SIMVASTATIN | 40 MG |
| 16729000617 | SIMVASTATIN | 40 MG |
| 21695074130 | SIMVASTATIN | 40 MG |
| 21695074190 | SIMVASTATIN | 40 MG |
| 23490935503 | SIMVASTATIN | 40 MG |
| 23490935506 | SIMVASTATIN | 40 MG |
| 23490935509 | SIMVASTATIN | 40 MG |
| 24658021310 | SIMVASTATIN | 40 MG |
| 24658021330 | SIMVASTATIN | 40 MG |
| 24658021345 | SIMVASTATIN | 40 MG |
| 24658021390 | SIMVASTATIN | 40 MG |
| 24658030310 | SIMVASTATIN | 40 MG |
| 24658030315 | SIMVASTATIN | 40 MG |
| 24658030330 | SIMVASTATIN | 40 MG |
| 24658030345 | SIMVASTATIN | 40 MG |
| 24658030390 | SIMVASTATIN | 40 MG |
| 31722051310 | SIMVASTATIN | 40 MG |
| 31722051390 | SIMVASTATIN | 40 MG |
| 33261054202 | SIMVASTATIN | 40 MG |

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| 33261054230 | SIMVASTATIN | 40 MG |
| 33261054260 | SIMVASTATIN | 40 MG |
| 33261054290 | SIMVASTATIN | 40 MG |
| 35356077530 | SIMVASTATIN | 40 MG |
| 35356077590 | SIMVASTATIN | 40 MG |
| 42254003230 | SIMVASTATIN | 40 MG |
| 42254003245 | SIMVASTATIN | 40 MG |
| 42254003290 | SIMVASTATIN | 40 MG |
| 42254022530 | SIMVASTATIN | 40 MG |
| 42571004010 | SIMVASTATIN | 40 MG |
| 42571004090 | SIMVASTATIN | 40 MG |
| 43063059330 | SIMVASTATIN | 40 MG |
| 43063059390 | SIMVASTATIN | 40 MG |
| 43063072630 | SIMVASTATIN | 40 MG |
| 43063072690 | SIMVASTATIN | 40 MG |
| 45802087901 | SIMVASTATIN | 40 MG |
| 45802087965 | SIMVASTATIN | 40 MG |
| 45802087975 | SIMVASTATIN | 40 MG |
| 45802087993 | SIMVASTATIN | 40 MG |
| 45865046030 | SIMVASTATIN | 40 MG |
| 45865046051 | SIMVASTATIN | 40 MG |
| 45865046060 | SIMVASTATIN | 40 MG |
| 45865046090 | SIMVASTATIN | 40 MG |
| 49999048830 | ZOCOR | 40 MG |
| 49999090315 | SIMVASTATIN | 40 MG |
| 49999090330 | SIMVASTATIN | 40 MG |
| 49999090390 | SIMVASTATIN | 40 MG |
| 50090100001 | SIMVASTATIN | 40 MG |
| 50090100002 | SIMVASTATIN | 40 MG |
| 50090100003 | SIMVASTATIN | 40 MG |
| 50090100004 | SIMVASTATIN | 40 MG |
| 50268071511 | SIMVASTATIN AVPAK | 40 MG |
| 50268071515 | SIMVASTATIN AVPAK | 40 MG |
| 50742013910 | SIMVASTATIN | 40 MG |
| 51079039801 | SIMVASTATIN | 40 MG |
| 51079039820 | SIMVASTATIN | 40 MG |
| 51079045601 | SIMVASTATIN | 40 MG |
| 51079045620 | SIMVASTATIN | 40 MG |
| 52959011230 | ZOCOR | 40 MG |
| 52959094430 | SIMVASTATIN | 40 MG |
| 54458089410 | SIMVASTATIN | 40 MG |
| 54458093210 | SIMVASTATIN | 40 MG |

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| 54458093216 | SIMVASTATIN | 40 MG |
| 54569440400 | ZOCOR | 40 MG |
| 54569583400 | SIMVASTATIN | 40 MG |
| 54569583401 | SIMVASTATIN | 40 MG |
| 54569583402 | SIMVASTATIN | 40 MG |
| 54569583403 | SIMVASTATIN | 40 MG |
| 54569583404 | SIMVASTATIN | 40 MG |
| 54868415700 | ZOCOR | 40 MG |
| 54868415701 | ZOCOR | 40 MG |
| 54868415702 | ZOCOR | 40 MG |
| 54868562900 | SIMVASTATIN | 40 MG |
| 54868562901 | SIMVASTATIN | 40 MG |
| 54868562902 | SIMVASTATIN | 40 MG |
| 54868562903 | SIMVASTATIN | 40 MG |
| 54868562904 | SIMVASTATIN | 40 MG |
| 55045310008 | ZOCOR | 40 MG |
| 55048077430 | SIMVASTATIN | 40 MG |
| 55048077490 | SIMVASTATIN | 40 MG |
| 55111020005 | SIMVASTATIN | 40 MG |
| 55111020010 | SIMVASTATIN | 40 MG |
| 55111020030 | SIMVASTATIN | 40 MG |
| 55111020090 | SIMVASTATIN | 40 MG |
| 55111074910 | SIMVASTATIN | 40 MG |
| 55111074930 | SIMVASTATIN | 40 MG |
| 55111074990 | SIMVASTATIN | 40 MG |
| 55289039530 | SIMVASTATIN | 40 MG |
| 55289039590 | SIMVASTATIN | 40 MG |
| 55289087430 | ZOCOR | 40 MG |
| 55700026530 | SIMVASTATIN | 40 MG |
| 55700026590 | SIMVASTATIN | 40 MG |
| 55700042618 | SIMVASTATIN | 40 MG |
| 55700042630 | SIMVASTATIN | 40 MG |
| 55700042690 | SIMVASTATIN | 40 MG |
| 55700055090 | SIMVASTATIN | 40 MG |
| 55887085810 | SIMVASTATIN | 40 MG |
| 55887085830 | SIMVASTATIN | 40 MG |
| 55887085860 | SIMVASTATIN | 40 MG |
| 55887085890 | SIMVASTATIN | 40 MG |
| 57866394901 | SIMVASTATIN | 40 MG |
| 57866798301 | ZOCOR | 40 MG |
| 58016000600 | SIMVASTATIN | 40 MG |
| 58016000630 | SIMVASTATIN | 40 MG |

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| 58016000660 | SIMVASTATIN | 40 MG |
| 58016000690 | SIMVASTATIN | 40 MG |
| 58016036500 | ZOCOR | 40 MG |
| 58016036530 | ZOCOR | 40 MG |
| 58016036560 | ZOCOR | 40 MG |
| 58016036590 | ZOCOR | 40 MG |
| 58864068230 | ZOCOR | 40 MG |
| 60687021001 | SIMVASTATIN | 40 MG |
| 60687021011 | SIMVASTATIN | 40 MG |
| 60760000630 | SIMVASTATIN | 40 MG |
| 60760000690 | SIMVASTATIN | 40 MG |
| 61919043130 | SIMVASTATIN | 40 MG |
| 61919043190 | SIMVASTATIN | 40 MG |
| 63187044990 | SIMVASTATIN | 40 MG |
| 63304079210 | SIMVASTATIN | 40 MG |
| 63304079230 | SIMVASTATIN | 40 MG |
| 63304079290 | SIMVASTATIN | 40 MG |
| 63739042210 | SIMVASTATIN | 40 MG |
| 63739043810 | SIMVASTATIN | 40 MG |
| 63739057310 | SIMVASTATIN | 40 MG |
| 65862005322 | SIMVASTATIN | 40 MG |
| 65862005330 | SIMVASTATIN | 40 MG |
| 65862005390 | SIMVASTATIN | 40 MG |
| 65862005399 | SIMVASTATIN | 40 MG |
| 66105050601 | ZOCOR | 40 MG |
| 66105050603 | ZOCOR | 40 MG |
| 66105050606 | ZOCOR | 40 MG |
| 66105050609 | ZOCOR | 40 MG |
| 66105050610 | ZOCOR | 40 MG |
| 66336095330 | SIMVASTATIN | 40 MG |
| 66336095390 | SIMVASTATIN | 40 MG |
| 68084016401 | SIMVASTATIN | 40 MG |
| 68084051301 | SIMVASTATIN | 40 MG |
| 68115077730 | ZOCOR | 40 MG |
| 68115077790 | ZOCOR | 40 MG |
| 68180046403 | SIMVASTATIN | 40 MG |
| 68180046406 | SIMVASTATIN | 40 MG |
| 68180046409 | SIMVASTATIN | 40 MG |
| 68180048001 | SIMVASTATIN | 40 MG |
| 68180048002 | SIMVASTATIN | 40 MG |
| 68180048003 | SIMVASTATIN | 40 MG |
| 68382006805 | SIMVASTATIN | 40 MG |

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| 68382006806 | SIMVASTATIN | 40 MG |
| 68382006810 | SIMVASTATIN | 40 MG |
| 68382006814 | SIMVASTATIN | 40 MG |
| 68382006816 | SIMVASTATIN | 40 MG |
| 68382006840 | SIMVASTATIN | 40 MG |
| 68645026254 | SIMVASTATIN | 40 MG |
| 68645047154 | SIMVASTATIN | 40 MG |
| 68645052754 | SIMVASTATIN | 40 MG |
| 70377000412 | SIMVASTATIN | 40 MG |
| 70377000414 | SIMVASTATIN | 40 MG |
| 70377000415 | SIMVASTATIN | 40 MG |
| 71205019230 | SIMVASTATIN | 40 MG |
| 29273040204 | FLOLIPID | 40 MG/5 ML |
| 66582032230 | LIPTRUZET | 40 MG-10 MG |
| 66582032254 | LIPTRUZET | 40 MG-10 MG |
| 00006077331 | JUVISYNC | 40 MG-100 MG |
| 00006077354 | JUVISYNC | 40 MG-100 MG |
| 00006077382 | JUVISYNC | 40 MG-100 MG |
| 00074301090 | ADVICOR | 40 MG-1000 MG |
| 54868565300 | ADVICOR | 40 MG-1000 MG |
| 54868565301 | ADVICOR | 40 MG-1000 MG |
| 60598000990 | ADVICOR | 40 MG-1000 MG |
| 00006053731 | JUVISYNC | 40 MG-50 MG |
| 00006053754 | JUVISYNC | 40 MG-50 MG |
| 00093757098 | ROSUVASTATIN CALCIUM | 5 MG |
| 00310075590 | CRESTOR | 5 MG |
| 00378220177 | ROSUVASTATIN CALCIUM | 5 MG |
| 00781540092 | ROSUVASTATIN CALCIUM | 5 MG |
| 00904660261 | ROSUVASTATIN CALCIUM | 5 MG |
| 00904677861 | ROSUVASTATIN CALCIUM | 5 MG |
| 13668017930 | ROSUVASTATIN CALCIUM | 5 MG |
| 13668017990 | ROSUVASTATIN CALCIUM | 5 MG |
| 16252061530 | ROSUVASTATIN CALCIUM | 5 MG |
| 16252061550 | ROSUVASTATIN CALCIUM | 5 MG |
| 16252061590 | ROSUVASTATIN CALCIUM | 5 MG |
| 16729028415 | ROSUVASTATIN CALCIUM | 5 MG |
| 16729028417 | ROSUVASTATIN CALCIUM | 5 MG |
| 21695075990 | CRESTOR | 5 MG |
| 27808015501 | ROSUVASTATIN CALCIUM | 5 MG |
| 31722088290 | ROSUVASTATIN CALCIUM | 5 MG |
| 35356051930 | CRESTOR | 5 MG |
| 42291074290 | ROSUVASTATIN CALCIUM | 5 MG |

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| 42292002901 | ROSUVASTATIN CALCIUM | 5 MG |
| 42292002920 | ROSUVASTATIN CALCIUM | 5 MG |
| 47335058281 | ROSUVASTATIN CALCIUM | 5 MG |
| 47335098483 | EZALLOR SPRINKLE | 5 MG |
| 47463009530 | CRESTOR | 5 MG |
| 49884026009 | ROSUVASTATIN CALCIUM | 5 MG |
| 50090272200 | ROSUVASTATIN CALCIUM | 5 MG |
| 50090272201 | ROSUVASTATIN CALCIUM | 5 MG |
| 50090317600 | ROSUVASTATIN CALCIUM | 5 MG |
| 50090317601 | ROSUVASTATIN CALCIUM | 5 MG |
| 51407015390 | ROSUVASTATIN CALCIUM | 5 MG |
| 53217029730 | ROSUVASTATIN CALCIUM | 5 MG |
| 53217029790 | ROSUVASTATIN CALCIUM | 5 MG |
| 54569574600 | CRESTOR | 5 MG |
| 54569667300 | ROSUVASTATIN CALCIUM | 5 MG |
| 54569667301 | ROSUVASTATIN CALCIUM | 5 MG |
| 54868534100 | CRESTOR | 5 MG |
| 54868534101 | CRESTOR | 5 MG |
| 55048009530 | CRESTOR | 5 MG |
| 57237016805 | ROSUVASTATIN CALCIUM | 5 MG |
| 57237016890 | ROSUVASTATIN CALCIUM | 5 MG |
| 60429084290 | ROSUVASTATIN CALCIUM | 5 MG |
| 60505450209 | ROSUVASTATIN CALCIUM | 5 MG |
| 60687023401 | ROSUVASTATIN CALCIUM | 5 MG |
| 60687023411 | ROSUVASTATIN CALCIUM | 5 MG |
| 63187086090 | ROSUVASTATIN CALCIUM | 5 MG |
| 63629715801 | ROSUVASTATIN CALCIUM | 5 MG |
| 63629715802 | ROSUVASTATIN CALCIUM | 5 MG |
| 65862029390 | ROSUVASTATIN CALCIUM | 5 MG |
| 67877043990 | ROSUVASTATIN CALCIUM | 5 MG |
| 68071078430 | CRESTOR | 5 MG |
| 68258601703 | CRESTOR | 5 MG |
| 68462026190 | ROSUVASTATIN CALCIUM | 5 MG |
| 68788731002 | ROSUVASTATIN CALCIUM | 5 MG |
| 68788731003 | ROSUVASTATIN CALCIUM | 5 MG |
| 68788731006 | ROSUVASTATIN CALCIUM | 5 MG |
| 68788731009 | ROSUVASTATIN CALCIUM | 5 MG |
| 70377000612 | ROSUVASTATIN CALCIUM | 5 MG |
| 70377000613 | ROSUVASTATIN CALCIUM | 5 MG |
| 71335074901 | ROSUVASTATIN CALCIUM | 5 MG |
| 72205000290 | ROSUVASTATIN CALCIUM | 5 MG |
| 72205000299 | ROSUVASTATIN CALCIUM | 5 MG |

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| 00006072628 | ZOCOR | 5 MG |
| 00006072631 | ZOCOR | 5 MG |
| 00006072654 | ZOCOR | 5 MG |
| 00006072661 | ZOCOR | 5 MG |
| 00006072682 | ZOCOR | 5 MG |
| 00093715219 | SIMVASTATIN | 5 MG |
| 00093715256 | SIMVASTATIN | 5 MG |
| 00093715293 | SIMVASTATIN | 5 MG |
| 00093715298 | SIMVASTATIN | 5 MG |
| 00406206503 | SIMVASTATIN | 5 MG |
| 00406206505 | SIMVASTATIN | 5 MG |
| 00406206510 | SIMVASTATIN | 5 MG |
| 00406206560 | SIMVASTATIN | 5 MG |
| 00406206590 | SIMVASTATIN | 5 MG |
| 00781507031 | SIMVASTATIN | 5 MG |
| 00781507092 | SIMVASTATIN | 5 MG |
| 13411016101 | ZOCOR | 5 MG |
| 13411016103 | ZOCOR | 5 MG |
| 13411016106 | ZOCOR | 5 MG |
| 13411016109 | ZOCOR | 5 MG |
| 13411016115 | ZOCOR | 5 MG |
| 16252050530 | SIMVASTATIN | 5 MG |
| 16252050550 | SIMVASTATIN | 5 MG |
| 16252050590 | SIMVASTATIN | 5 MG |
| 16714068101 | SIMVASTATIN | 5 MG |
| 16714068102 | SIMVASTATIN | 5 MG |
| 16729015610 | SIMVASTATIN | 5 MG |
| 16729015615 | SIMVASTATIN | 5 MG |
| 16729015617 | SIMVASTATIN | 5 MG |
| 21695073890 | SIMVASTATIN | 5 MG |
| 23490935603 | SIMVASTATIN | 5 MG |
| 23490935606 | SIMVASTATIN | 5 MG |
| 23490935609 | SIMVASTATIN | 5 MG |
| 24658021010 | SIMVASTATIN | 5 MG |
| 24658021030 | SIMVASTATIN | 5 MG |
| 24658021045 | SIMVASTATIN | 5 MG |
| 24658021090 | SIMVASTATIN | 5 MG |
| 24658030010 | SIMVASTATIN | 5 MG |
| 24658030030 | SIMVASTATIN | 5 MG |
| 24658030045 | SIMVASTATIN | 5 MG |
| 24658030090 | SIMVASTATIN | 5 MG |
| 31722051010 | SIMVASTATIN | 5 MG |

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| 31722051090 | SIMVASTATIN | 5 MG |
| 42571000590 | SIMVASTATIN | 5 MG |
| 45802092465 | SIMVASTATIN | 5 MG |
| 49999090090 | SIMVASTATIN | 5 MG |
| 50090138700 | SIMVASTATIN | 5 MG |
| 50090254300 | SIMVASTATIN | 5 MG |
| 50268071211 | SIMVASTATIN AVPAK | 5 MG |
| 50268071215 | SIMVASTATIN AVPAK | 5 MG |
| 54569645000 | SIMVASTATIN | 5 MG |
| 54868606600 | SIMVASTATIN | 5 MG |
| 55111019705 | SIMVASTATIN | 5 MG |
| 55111019730 | SIMVASTATIN | 5 MG |
| 55111019790 | SIMVASTATIN | 5 MG |
| 55111072610 | SIMVASTATIN | 5 MG |
| 55111072630 | SIMVASTATIN | 5 MG |
| 55111072690 | SIMVASTATIN | 5 MG |
| 58864073930 | ZOCOR | 5 MG |
| 63304078910 | SIMVASTATIN | 5 MG |
| 63304078930 | SIMVASTATIN | 5 MG |
| 63304078990 | SIMVASTATIN | 5 MG |
| 63739041910 | SIMVASTATIN | 5 MG |
| 63739043510 | SIMVASTATIN | 5 MG |
| 63739057010 | SIMVASTATIN | 5 MG |
| 65862005030 | SIMVASTATIN | 5 MG |
| 65862005090 | SIMVASTATIN | 5 MG |
| 65862005099 | SIMVASTATIN | 5 MG |
| 68084016101 | SIMVASTATIN | 5 MG |
| 68084051001 | SIMVASTATIN | 5 MG |
| 68180048206 | SIMVASTATIN | 5 MG |
| 68180048209 | SIMVASTATIN | 5 MG |
| 68258605003 | SIMVASTATIN | 5 MG |
| 68258698509 | SIMVASTATIN | 5 MG |
| 68382006505 | SIMVASTATIN | 5 MG |
| 68382006506 | SIMVASTATIN | 5 MG |
| 68382006510 | SIMVASTATIN | 5 MG |
| 68382006514 | SIMVASTATIN | 5 MG |
| 68382006516 | SIMVASTATIN | 5 MG |
| 70377000112 | SIMVASTATIN | 5 MG |
| 70377000114 | SIMVASTATIN | 5 MG |
| 70377000115 | SIMVASTATIN | 5 MG |
| 71205007090 | SIMVASTATIN | 5 MG |
| 00069215030 | CADUET | 5 MG-10 MG |

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| 00378451305 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 00378451393 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 00378616405 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 00378616477 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 00378616493 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 12280039930 | CADUET | 5 MG-10 MG |
| 43598032230 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 43598032290 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 49999098930 | CADUET | 5 MG-10 MG |
| 54569570400 | CADUET | 5 MG-10 MG |
| 54868328700 | CADUET | 5 MG-10 MG |
| 54868328701 | CADUET | 5 MG-10 MG |
| 59762672001 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 59762672005 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 59762672007 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 63304058730 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-10 MG |
| 00069217030 | CADUET | 5 MG-20 MG |
| 00378451405 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 00378451493 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 00378616505 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 00378616577 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 00378616593 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 43598031930 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 43598031990 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 54868120700 | CADUET | 5 MG-20 MG |
| 54868120701 | CADUET | 5 MG-20 MG |
| 59762672101 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 59762672105 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 59762672107 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |

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| 63304058830 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-20 MG |
| 00069219030 | CADUET | 5 MG-40 MG |
| 00378451505 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 00378451593 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 00378616605 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 00378616677 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 00378616693 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 43598031630 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 43598031690 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 54868517900 | CADUET | 5 MG-40 MG |
| 59762672201 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 59762672205 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 59762672207 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 63304058930 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-40 MG |
| 00069226030 | CADUET | 5 MG-80 MG |
| 00378451693 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-80 MG |
| 00378616777 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-80 MG |
| 00378616793 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-80 MG |
| 43598031430 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-80 MG |
| 54868542000 | CADUET | 5 MG-80 MG |
| 59762672301 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-80 MG |
| 63304049930 | AMLODIPINE BESYLATE- ATORVASTATIN CA | 5 MG-80 MG |
| 00074331290 | SIMCOR | 500 MG-20 MG |
| 54868588600 | SIMCOR | 500 MG-20 MG |
| 54868588601 | SIMCOR | 500 MG-20 MG |
| 00074345903 | SIMCOR | 500 MG-40 MG |
| 00074345990 | SIMCOR | 500 MG-40 MG |
| 54868535800 | ALTOPREV | 60 MG |
| 59630063030 | ALTOPREV | 60 MG |
| 62022063030 | ALTOPREV | 60 MG |
| 62022078130 | ALTOCOR | 60 MG |
| 70515063030 | ALTOPREV | 60 MG |

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| 00074331590 | SIMCOR | 750 MG-20 MG |
| 54868590700 | SIMCOR | 750 MG-20 MG |
| 54868590701 | SIMCOR | 750 MG-20 MG |
| 00071015823 | LIPITOR | 80 MG |
| 00071015873 | LIPITOR | 80 MG |
| 00071015888 | LIPITOR | 80 MG |
| 00071015892 | LIPITOR | 80 MG |
| 00093505798 | ATORVASTATIN CALCIUM | 80 MG |
| 00378212205 | ATORVASTATIN CALCIUM | 80 MG |
| 00378212277 | ATORVASTATIN CALCIUM | 80 MG |
| 00378395305 | ATORVASTATIN CALCIUM | 80 MG |
| 00378395307 | ATORVASTATIN CALCIUM | 80 MG |
| 00378395309 | ATORVASTATIN CALCIUM | 80 MG |
| 00378395377 | ATORVASTATIN CALCIUM | 80 MG |
| 00591377705 | ATORVASTATIN CALCIUM | 80 MG |
| 00591377719 | ATORVASTATIN CALCIUM | 80 MG |
| 00781538892 | ATORVASTATIN CALCIUM | 80 MG |
| 00904629304 | ATORVASTATIN CALCIUM | 80 MG |
| 10135065305 | ATORVASTATIN CALCIUM | 80 MG |
| 12280015030 | LIPITOR | 80 MG |
| 16714087701 | ATORVASTATIN CALCIUM | 80 MG |
| 16714087702 | ATORVASTATIN CALCIUM | 80 MG |
| 16714087703 | ATORVASTATIN CALCIUM | 80 MG |
| 16729004716 | ATORVASTATIN CALCIUM | 80 MG |
| 33261099530 | ATORVASTATIN CALCIUM | 80 MG |
| 33261099560 | ATORVASTATIN CALCIUM | 80 MG |
| 33261099590 | ATORVASTATIN CALCIUM | 80 MG |
| 42254026730 | ATORVASTATIN CALCIUM | 80 MG |
| 42254026745 | ATORVASTATIN CALCIUM | 80 MG |
| 42254026790 | ATORVASTATIN CALCIUM | 80 MG |
| 42254039290 | ATORVASTATIN CALCIUM | 80 MG |
| 42291014650 | ATORVASTATIN CALCIUM | 80 MG |
| 42291014690 | ATORVASTATIN CALCIUM | 80 MG |
| 49999088230 | LIPITOR | 80 MG |
| 49999088290 | LIPITOR | 80 MG |
| 50090126400 | ATORVASTATIN CALCIUM | 80 MG |
| 50090126401 | ATORVASTATIN CALCIUM | 80 MG |
| 50090126500 | ATORVASTATIN CALCIUM | 80 MG |
| 50090126501 | ATORVASTATIN CALCIUM | 80 MG |
| 50268009611 | ATORVASTATIN CALCIUM AVPAK | 80 MG |
| 50268009612 | ATORVASTATIN CALCIUM AVPAK | 80 MG |
| 51079021101 | ATORVASTATIN CALCIUM | 80 MG |

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| 51079021103 | ATORVASTATIN CALCIUM | 80 MG |
| 51079041201 | ATORVASTATIN CALCIUM | 80 MG |
| 51079041203 | ATORVASTATIN CALCIUM | 80 MG |
| 51407008105 | ATORVASTATIN CALCIUM | 80 MG |
| 51407008190 | ATORVASTATIN CALCIUM | 80 MG |
| 51655088030 | ATORVASTATIN CALCIUM | 80 MG |
| 53217031930 | ATORVASTATIN CALCIUM | 80 MG |
| 53217031990 | ATORVASTATIN CALCIUM | 80 MG |
| 54569538200 | LIPITOR | 80 MG |
| 54569628500 | ATORVASTATIN CALCIUM | 80 MG |
| 54569628501 | ATORVASTATIN CALCIUM | 80 MG |
| 54868493400 | LIPITOR | 80 MG |
| 54868493401 | LIPITOR | 80 MG |
| 54868493402 | LIPITOR | 80 MG |
| 54868493403 | LIPITOR | 80 MG |
| 54868632200 | ATORVASTATIN CALCIUM | 80 MG |
| 55111012405 | ATORVASTATIN CALCIUM | 80 MG |
| 55111012490 | ATORVASTATIN CALCIUM | 80 MG |
| 55700003430 | ATORVASTATIN CALCIUM | 80 MG |
| 58016005100 | LIPITOR | 80 MG |
| 58016005130 | LIPITOR | 80 MG |
| 58016005160 | LIPITOR | 80 MG |
| 58016005190 | LIPITOR | 80 MG |
| 58864083430 | LIPITOR | 80 MG |
| 59762015801 | ATORVASTATIN CALCIUM | 80 MG |
| 59762015802 | ATORVASTATIN CALCIUM | 80 MG |
| 60429032601 | ATORVASTATIN CALCIUM | 80 MG |
| 60429032605 | ATORVASTATIN CALCIUM | 80 MG |
| 60429032633 | ATORVASTATIN CALCIUM | 80 MG |
| 60429032690 | ATORVASTATIN CALCIUM | 80 MG |
| 60505267108 | ATORVASTATIN CALCIUM | 80 MG |
| 60505267109 | ATORVASTATIN CALCIUM | 80 MG |
| 60760035630 | ATORVASTATIN CALCIUM | 80 MG |
| 62175089741 | ATORVASTATIN CALCIUM | 80 MG |
| 62175089746 | ATORVASTATIN CALCIUM | 80 MG |
| 63187065690 | ATORVASTATIN CALCIUM | 80 MG |
| 63187090790 | ATORVASTATIN CALCIUM | 80 MG |
| 63304083005 | ATORVASTATIN CALCIUM | 80 MG |
| 63304083090 | ATORVASTATIN CALCIUM | 80 MG |
| 63629336601 | LIPITOR | 80 MG |
| 63629336602 | LIPITOR | 80 MG |
| 63629336603 | LIPITOR | 80 MG |

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| 63629336604 | LIPITOR | 80 MG |
| 67877051405 | ATORVASTATIN CALCIUM | 80 MG |
| 67877051490 | ATORVASTATIN CALCIUM | 80 MG |
| 68084059025 | ATORVASTATIN CALCIUM | 80 MG |
| 68084059095 | ATORVASTATIN CALCIUM | 80 MG |
| 68382025210 | ATORVASTATIN CALCIUM | 80 MG |
| 68382025216 | ATORVASTATIN CALCIUM | 80 MG |
| 68645041854 | ATORVASTATIN CALCIUM | 80 MG |
| 68645046154 | ATORVASTATIN CALCIUM | 80 MG |
| 68645049554 | ATORVASTATIN CALCIUM | 80 MG |
| 69097091105 | ATORVASTATIN CALCIUM | 80 MG |
| 69097091112 | ATORVASTATIN CALCIUM | 80 MG |
| 69097094705 | ATORVASTATIN CALCIUM | 80 MG |
| 69097094712 | ATORVASTATIN CALCIUM | 80 MG |
| 70377003012 | ATORVASTATIN CALCIUM | 80 MG |
| 70377003014 | ATORVASTATIN CALCIUM | 80 MG |
| 71205009890 | ATORVASTATIN CALCIUM | 80 MG |
| 71335029501 | ATORVASTATIN CALCIUM | 80 MG |
| 71335029502 | ATORVASTATIN CALCIUM | 80 MG |
| 71335029503 | ATORVASTATIN CALCIUM | 80 MG |
| 71335058301 | ATORVASTATIN CALCIUM | 80 MG |
| 71335058302 | ATORVASTATIN CALCIUM | 80 MG |
| 71335058303 | ATORVASTATIN CALCIUM | 80 MG |
| 72205002505 | ATORVASTATIN CALCIUM | 80 MG |
| 72205002590 | ATORVASTATIN CALCIUM | 80 MG |
| 76519108403 | ATORVASTATIN CALCIUM | 80 MG |
| 00078035405 | LESCOL XL | 80 MG |
| 00078035415 | LESCOL XL | 80 MG |
| 00093744601 | FLUVASTATIN SODIUM | 80 MG |
| 00093744656 | FLUVASTATIN SODIUM | 80 MG |
| 00378512101 | FLUVASTATIN SODIUM | 80 MG |
| 00378512193 | FLUVASTATIN SODIUM | 80 MG |
| 00781537001 | FLUVASTATIN SODIUM | 80 MG |
| 00781537031 | FLUVASTATIN SODIUM | 80 MG |
| 00781801701 | FLUVASTATIN SODIUM | 80 MG |
| 00781801731 | FLUVASTATIN SODIUM | 80 MG |
| 54569549800 | LESCOL XL | 80 MG |
| 54868460100 | LESCOL XL | 80 MG |
| 00003519510 | PRAVACHOL | 80 MG |
| 00003519533 | PRAVACHOL | 80 MG |
| 00093727010 | PRAVASTATIN SODIUM | 80 MG |
| 00093727098 | PRAVASTATIN SODIUM | 80 MG |

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| 00378055377 | PRAVASTATIN SODIUM | 80 MG |
| 00378828005 | PRAVASTATIN SODIUM | 80 MG |
| 00378828077 | PRAVASTATIN SODIUM | 80 MG |
| 00591001905 | PRAVASTATIN SODIUM | 80 MG |
| 00591001919 | PRAVASTATIN SODIUM | 80 MG |
| 00781523592 | PRAVASTATIN SODIUM | 80 MG |
| 16252052950 | PRAVASTATIN SODIUM | 80 MG |
| 16252052990 | PRAVASTATIN SODIUM | 80 MG |
| 16729001115 | PRAVASTATIN SODIUM | 80 MG |
| 16729001116 | PRAVASTATIN SODIUM | 80 MG |
| 33261095300 | PRAVASTATIN SODIUM | 80 MG |
| 33261095330 | PRAVASTATIN SODIUM | 80 MG |
| 33261095360 | PRAVASTATIN SODIUM | 80 MG |
| 33261095390 | PRAVASTATIN SODIUM | 80 MG |
| 42291066910 | PRAVASTATIN SODIUM | 80 MG |
| 42291066945 | PRAVASTATIN SODIUM | 80 MG |
| 42291066990 | PRAVASTATIN SODIUM | 80 MG |
| 42549049090 | PRAVASTATIN SODIUM | 80 MG |
| 50090278500 | PRAVASTATIN SODIUM | 80 MG |
| 50090278501 | PRAVASTATIN SODIUM | 80 MG |
| 50090320400 | PRAVASTATIN SODIUM | 80 MG |
| 50090320401 | PRAVASTATIN SODIUM | 80 MG |
| 54569651000 | PRAVASTATIN SODIUM | 80 MG |
| 54569651001 | PRAVASTATIN SODIUM | 80 MG |
| 54868463400 | PRAVACHOL | 80 MG |
| 54868557900 | PRAVASTATIN SODIUM | 80 MG |
| 54868557901 | PRAVASTATIN SODIUM | 80 MG |
| 55048059830 | PRAVASTATIN SODIUM | 80 MG |
| 55111027405 | PRAVASTATIN SODIUM | 80 MG |
| 55111027490 | PRAVASTATIN SODIUM | 80 MG |
| 57237016705 | PRAVASTATIN SODIUM | 80 MG |
| 57237016790 | PRAVASTATIN SODIUM | 80 MG |
| 60429037005 | PRAVASTATIN SODIUM | 80 MG |
| 60429037045 | PRAVASTATIN SODIUM | 80 MG |
| 60429037090 | PRAVASTATIN SODIUM | 80 MG |
| 60505132305 | PRAVASTATIN SODIUM | 80 MG |
| 60505132309 | PRAVASTATIN SODIUM | 80 MG |
| 61919073490 | PRAVASTATIN SODIUM | 80 MG |
| 63304059805 | PRAVASTATIN SODIUM | 80 MG |
| 63304059890 | PRAVASTATIN SODIUM | 80 MG |
| 68084074625 | PRAVASTATIN SODIUM | 80 MG |
| 68084074695 | PRAVASTATIN SODIUM | 80 MG |

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| 68180048802 | PRAVASTATIN SODIUM | 80 MG |
| 68180048809 | PRAVASTATIN SODIUM | 80 MG |
| 68258601303 | PRAVASTATIN SODIUM | 80 MG |
| 68258601309 | PRAVASTATIN SODIUM | 80 MG |
| 68382007305 | PRAVASTATIN SODIUM | 80 MG |
| 68382007316 | PRAVASTATIN SODIUM | 80 MG |
| 68462019805 | PRAVASTATIN SODIUM | 80 MG |
| 68462019890 | PRAVASTATIN SODIUM | 80 MG |
| 68788719301 | PRAVASTATIN SODIUM | 80 MG |
| 68788719302 | PRAVASTATIN SODIUM | 80 MG |
| 68788719303 | PRAVASTATIN SODIUM | 80 MG |
| 68788719306 | PRAVASTATIN SODIUM | 80 MG |
| 68788719308 | PRAVASTATIN SODIUM | 80 MG |
| 68788719309 | PRAVASTATIN SODIUM | 80 MG |
| 68788731601 | PRAVASTATIN SODIUM | 80 MG |
| 68788731602 | PRAVASTATIN SODIUM | 80 MG |
| 68788731603 | PRAVASTATIN SODIUM | 80 MG |
| 68788731606 | PRAVASTATIN SODIUM | 80 MG |
| 68788731608 | PRAVASTATIN SODIUM | 80 MG |
| 68788731609 | PRAVASTATIN SODIUM | 80 MG |
| 00006054328 | ZOCOR | 80 MG |
| 00006054331 | ZOCOR | 80 MG |
| 00006054354 | ZOCOR | 80 MG |
| 00006054361 | ZOCOR | 80 MG |
| 00006054382 | ZOCOR | 80 MG |
| 00093715610 | SIMVASTATIN | 80 MG |
| 00093715619 | SIMVASTATIN | 80 MG |
| 00093715656 | SIMVASTATIN | 80 MG |
| 00093715693 | SIMVASTATIN | 80 MG |
| 00093715698 | SIMVASTATIN | 80 MG |
| 00406206903 | SIMVASTATIN | 80 MG |
| 00406206905 | SIMVASTATIN | 80 MG |
| 00406206910 | SIMVASTATIN | 80 MG |
| 00406206960 | SIMVASTATIN | 80 MG |
| 00406206990 | SIMVASTATIN | 80 MG |
| 00781507431 | SIMVASTATIN | 80 MG |
| 00781507492 | SIMVASTATIN | 80 MG |
| 16252050930 | SIMVASTATIN | 80 MG |
| 16252050950 | SIMVASTATIN | 80 MG |
| 16252050990 | SIMVASTATIN | 80 MG |
| 16590072690 | SIMVASTATIN | 80 MG |
| 16714068501 | SIMVASTATIN | 80 MG |

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|-------------|-------------------|-------|
| 16714068502 | SIMVASTATIN | 80 MG |
| 16714068503 | SIMVASTATIN | 80 MG |
| 16729000710 | SIMVASTATIN | 80 MG |
| 16729000715 | SIMVASTATIN | 80 MG |
| 16729000717 | SIMVASTATIN | 80 MG |
| 21695074230 | SIMVASTATIN | 80 MG |
| 21695074290 | SIMVASTATIN | 80 MG |
| 23490935703 | SIMVASTATIN | 80 MG |
| 23490935706 | SIMVASTATIN | 80 MG |
| 23490935709 | SIMVASTATIN | 80 MG |
| 24658021410 | SIMVASTATIN | 80 MG |
| 24658021430 | SIMVASTATIN | 80 MG |
| 24658021445 | SIMVASTATIN | 80 MG |
| 24658021490 | SIMVASTATIN | 80 MG |
| 24658030410 | SIMVASTATIN | 80 MG |
| 24658030415 | SIMVASTATIN | 80 MG |
| 24658030430 | SIMVASTATIN | 80 MG |
| 24658030445 | SIMVASTATIN | 80 MG |
| 24658030490 | SIMVASTATIN | 80 MG |
| 31722051490 | SIMVASTATIN | 80 MG |
| 35356060030 | SIMVASTATIN | 80 MG |
| 42254016890 | SIMVASTATIN | 80 MG |
| 42571008005 | SIMVASTATIN | 80 MG |
| 42571008090 | SIMVASTATIN | 80 MG |
| 43063008030 | SIMVASTATIN | 80 MG |
| 43063008090 | SIMVASTATIN | 80 MG |
| 43063073330 | SIMVASTATIN | 80 MG |
| 45802029265 | SIMVASTATIN | 80 MG |
| 45802029275 | SIMVASTATIN | 80 MG |
| 50090112100 | SIMVASTATIN | 80 MG |
| 50090112101 | SIMVASTATIN | 80 MG |
| 50268071611 | SIMVASTATIN AVPAK | 80 MG |
| 50268071615 | SIMVASTATIN AVPAK | 80 MG |
| 50742014010 | SIMVASTATIN | 80 MG |
| 52343002545 | SIMVASTATIN | 80 MG |
| 52343002590 | SIMVASTATIN | 80 MG |
| 54569564000 | ZOCOR | 80 MG |
| 54569611300 | SIMVASTATIN | 80 MG |
| 54569611301 | SIMVASTATIN | 80 MG |
| 54868418100 | ZOCOR | 80 MG |
| 54868418101 | ZOCOR | 80 MG |
| 54868563000 | SIMVASTATIN | 80 MG |

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|-------------|-------------|-------|
| 54868563001 | SIMVASTATIN | 80 MG |
| 55048077630 | SIMVASTATIN | 80 MG |
| 55048077690 | SIMVASTATIN | 80 MG |
| 55111026805 | SIMVASTATIN | 80 MG |
| 55111026830 | SIMVASTATIN | 80 MG |
| 55111026890 | SIMVASTATIN | 80 MG |
| 55111075010 | SIMVASTATIN | 80 MG |
| 55111075030 | SIMVASTATIN | 80 MG |
| 55111075090 | SIMVASTATIN | 80 MG |
| 55887031830 | SIMVASTATIN | 80 MG |
| 55887031860 | SIMVASTATIN | 80 MG |
| 55887031890 | SIMVASTATIN | 80 MG |
| 60760001930 | SIMVASTATIN | 80 MG |
| 63304079310 | SIMVASTATIN | 80 MG |
| 63304079330 | SIMVASTATIN | 80 MG |
| 63304079350 | SIMVASTATIN | 80 MG |
| 63304079390 | SIMVASTATIN | 80 MG |
| 65862005430 | SIMVASTATIN | 80 MG |
| 65862005439 | SIMVASTATIN | 80 MG |
| 65862005490 | SIMVASTATIN | 80 MG |
| 65862005499 | SIMVASTATIN | 80 MG |
| 66336098630 | SIMVASTATIN | 80 MG |
| 66336098690 | SIMVASTATIN | 80 MG |
| 68084016501 | SIMVASTATIN | 80 MG |
| 68084051401 | SIMVASTATIN | 80 MG |
| 68084051411 | SIMVASTATIN | 80 MG |
| 68115075930 | ZOCOR | 80 MG |
| 68180046503 | SIMVASTATIN | 80 MG |
| 68180046506 | SIMVASTATIN | 80 MG |
| 68180046509 | SIMVASTATIN | 80 MG |
| 68180048101 | SIMVASTATIN | 80 MG |
| 68180048102 | SIMVASTATIN | 80 MG |
| 68180048103 | SIMVASTATIN | 80 MG |
| 68382006905 | SIMVASTATIN | 80 MG |
| 68382006906 | SIMVASTATIN | 80 MG |
| 68382006910 | SIMVASTATIN | 80 MG |
| 68382006914 | SIMVASTATIN | 80 MG |
| 68382006916 | SIMVASTATIN | 80 MG |
| 68645026354 | SIMVASTATIN | 80 MG |
| 68645047254 | SIMVASTATIN | 80 MG |
| 70377000512 | SIMVASTATIN | 80 MG |
| 70377000514 | SIMVASTATIN | 80 MG |

| | | |
|-------------|---------------|--------------|
| 70377000515 | SIMVASTATIN | 80 MG |
| 66582032330 | LIPTRUZET | 80 MG-10 MG |
| 66582032354 | LIPTRUZET | 80 MG-10 MG |
| 00003516811 | PRAVIGARD PAC | 81 MG; 20 MG |
| 00003517311 | PRAVIGARD PAC | 81 MG; 40 MG |
| 00003518311 | PRAVIGARD PAC | 81 MG; 80 MG |

APPENDIX TABLE B: ELIXHAUSER COMORBIDITY LIST

| Elixhauser Comorbidity List |
|--|
| Congestive heart failure |
| Cardiac arrhythmias |
| Valvular disease |
| Pulmonary Circulation Disorders |
| Peripheral vascular disorders |
| Hypertension, uncomplicated |
| Hypertension, complicated |
| Paralysis |
| Other neurological disorders |
| Chronic pulmonary disease |
| Diabetes, uncomplicated |
| Diabetes, complicated |
| Hypothyroidism |
| Renal failure |
| Liver disease |
| Peptic ulcer disease excluding bleeding |
| AIDS/HIV |
| Rheumatoid arthritis/ collagen vascular diseases |
| Obesity |
| Weight loss |
| Fluid and electrolyte |
| Blood loss anemia |
| Deficiency anemia |
| Alcohol abuse |
| Drug abuse |
| Psychoses |
| Depression |
| Psychoses |

APPENDIX TABLE C: EFFECT OF HT ON VTE (AGE AS CONTINUOUS VARIABLE)

| Variable | Model 1: Categorical Age* | Model 2: Continuous Age* |
|----------------------------------|----------------------------------|---------------------------------|
| Elixhauser Score: 0 (ref) | 1 | 1 |
| Elixhauser Score: 1-2 | 1.70 (1.62, 1.79) | 1.70 (1.62, 1.79) |
| Elixhauser Score: 3+ | 3.81 (3.61, 4.02) | 3.80 (3.60, 4.00) |
| Cancer: None (ref) | 1 | 1 |
| Cancer: Solid Tumor | 2.01 (1.90, 2.14) | 2.01 (1.90, 2.13) |
| Cancer: Metastatic Cancer | 12.99 (12.03, 14.03) | 12.99 (12.03, 14.03) |
| Hosp/Surgery | 8.53 (8.10, 8.97) | 8.54 (8.12, 8.99) |
| Trauma | 3.52 (3.32, 3.73) | 3.52 (3.32, 3.73) |
| Varicose Veins | 2.88 (2.57, 3.23) | 2.87 (2.56, 3.22) |
| Any Hypercoag | 3.07 (2.83, 3.32) | 3.07 (2.83, 3.32) |
| CAD | 1.26 (1.19, 1.34) | 1.26 (1.18, 1.34) |
| Stroke | 1.18 (1.09, 1.28) | 1.18 (1.09, 1.28) |
| Smoking | 1.28 (1.22, 1.34) | 1.28 (1.22, 1.34) |
| Lipid Disorder | 0.84 (0.81, 0.87) | 0.83 (0.80, 0.87) |

*Odds Ratios have been adjusted for age, comorbidity score, region, cancer, hospitalization/surgery, trauma, hypercoagulability, varicose veins, coronary artery disease, stroke, lipid disorders, and smoking history (except where noted as excluded).

APPENDIX TABLE D: ASSESSING TYPE OF HT BY ELIXHAUSER SCORE

| HT Prescriptions by Elixhauser Score (Within-row percentages) | | | |
|--|------------------|-----------------|------------------|
| HT | EH Score | | |
| | <2 | ≥2 | Total |
| None | 115419 58.03% | 83478 41.97% | 198897 88.81% |
| Estrogen Only | 5109 53.04% | 4523 46.96% | 9632 4.3% |
| Estrogen + Progestogen | 3402 65.7% | 1776 34.3% | 5178 2.31% |
| Testosterone | 444 56.49% | 342 43.51% | 786 0.35% |
| Progestogen Only | 822 55.32% | 664 44.68% | 1486 0.66% |
| Contraceptive | 1849 74.68% | 627 25.32% | 2476 1.11% |
| Other | 3022 55.01% | 2472 44.99% | 5494 2.45% |
| Total | 130067 58.08% | 93882 41.92% | 223949 100% |

Chapter 4 The St. Vincent's Congestive Heart Failure Comprehensive Care Clinic Pilot Study

INTRODUCTION

Heart Failure (HF) hospitalization and readmissions remain a leading cause of morbidity, mortality, and cost-burden for the US healthcare system. It is estimated 35% of all 30-day readmissions reported to CMS are HF patients.⁶³ HF readmissions are particularly concerning for patients with no insurance due to the significant cost. Figures generated from the local health system (University of Texas Medical Branch at Galveston, UTMB) suggest that each readmission of an uninsured person results in approximately \$12,500 in losses.

National estimates for 30-day readmission rates for HF range from 18-23%, on average.⁶⁵ Fingar et al.⁶⁵ estimated that 23% of all HF admissions were readmitted within 30 days, making HF the most common cause for 30-day readmissions of all diagnoses. They reported that the uninsured were readmitted at similar rates (17%). Interventions such as disease management clinics, nurse home visits, and nurse-care clinics decrease HF readmissions,⁶⁸ but these programs can be costly to implement and maintain. The purpose of this study was to design a self-sustaining program to reduce readmissions in an uninsured patient population. We designed an interprofessional clinic, interspersed with vitals surveillance visits, aimed at reducing preventable causes of HF readmission. Because this program's sustainability is contingent on its cost-savings to the health system, the goal was that financial losses prevented should be at least equivalent

to the expense of program operations to maintain viability. Here, we report pilot results of that program.

METHODS

Setting. St. Vincent's Free Clinic (STVC) in Galveston Texas is sponsored by UTMB and provides free care to over 3,500 patients annually.⁴⁷ It is staffed entirely by volunteers, in addition to one paid nurse and medical provider. Services include, but are not limited to, primary care, case management (food/housing services), counseling, nutrition, pharmacist consultation, respiratory care, occupational/physical therapy, and social work services.

Subjects. Patients were identified by UTMB staff from UTMB prior to discharge as: 1) uninsured and 2) admitted for a HF diagnosis-related group (either reduced or preserved ejection fraction). The implementation study was determined to be IRB-exempt. Because all patients enrolled were uninsured, it ethically precluded randomization without alternative treatment options.

Patients were discharged from January 4-December 23, 2021, and subsequently offered enrollment in this program. All patients who attended at least the enrollment visit and a subsequent visit (at least two visits) within 30 days post-discharge were considered enrolled.

Procedure

The primary intervention was twice-weekly surveillance at the St. Vincent's Clinic for vitals and medication adherence. Within 3 days of hospital discharge, patients were scheduled to receive interprofessional care every Wednesday at STVC over a period of 60 days. Patients deemed "low risk" by their provider were eligible to decrease their visit frequency to weekly after 30 days. Risk was determined according to each patients' primary care provider's judgment. Patients were provided free medications, food, and transportation as needed.

At Visit 1, patients were queried on their interest in participation in CHFC3. The program provided free medications to all patients, consistent with the services provided to all other patients at St. Vincent's. Patients' vitals were measured at each visit and labs were collected weekly. The recommended schedule for interprofessional activities appears in **Table 1**.

MEASURES

Demographic and baseline medical characteristics were collected (**see Table 2**). Patients also were queried about transportation and food insecurity, specifically as to whether transportation unavailability had precluded them from attending medical visits and whether they had ever had to go without food because of financial reasons.

Outcomes

The primary outcomes were participation (measured by number of visits) and readmission at 30 days. Enrollment was defined as at least two visits in the

program within two weeks of discharge. Patient history at 30 days after discharge were coded as readmitted for any reason (or died, with or without hospitalization) or not readmitted. Patients' medical records were queried for any hospitalization or use of the emergency department, and findings were verbally confirmed with the patient at each visit. If patients missed their appointment, they were contacted by phone, text, email, or through the medical record (i.e., MyChart) to ascertain their admission status.

STATISTICAL ANALYSIS. In order to assess program feasibility, enrollment and participation (count of visits) were obtained. Possible selection bias was estimated by assessing differences in baseline characteristics (i.e., age, sex, severity of disease) by enrollment using measures of association (phi and eta). We also compared patients' baseline characteristics by readmission status using bivariate and multivariable regression.

To evaluate program 30-day readmission rates, first, the proportion of patients readmitted was compared to local (UTMB) rates. UTMB data indicate overall readmission rates in HF remained consistent with national rates throughout the pandemic (19.8%, 262/1326 during the 2020-21 pandemic era and 19.9% IN 2017-2019), suggesting it was reasonable to assess our program against previous years' estimates. Second, the crude proportion of patients readmitted within 30 days who did not enroll (0 or 1 visit) versus those who enrolled (2+ visits) was compared using Fisher exact test. Third, the association between enrollment and readmission was examined when controlling for disease severity with logistic regression. All analysis was performed in SAS (Version 9.4, Cary NC).¹⁴⁵

RESULTS

From January-December 2021, there were 88 uninsured patients admitted to UTMB facilities (n=29 League City, n=59 Galveston) for a primary diagnosis of HF. Patients admitted to League City were not initially eligible for referral at program initiation; thus, just 2 of 29 (7%) League City patients were referred to the program. Ultimately 61 (69%) total patients were referred to STVC for care, of whom 59 (97%) received at least one documented contact from the program. There are no data or information available for the 2 (3%) patients who were referred but not contacted.

Of those 59 patients referred and contacted, 47 (79.7%) completed at least two visits in the program, 3 (5.1%) attended just one visit, and 9 (15.3%) never attended any appointment (n=47 enrolled, n=12 not enrolled). The mean number of visits attended by patients who enrolled was 8.3 (95% CI: 7.2, 9.4), and ranged from 2 to 16 visits. **Table 3** shows baseline sample characteristics by patients' enrollment status. There were no suspected confounders that were meaningfully associated with enrollment ($\phi \geq 0.20$) or readmission (see **Table 4**), with the possible exception of disease severity.

Readmissions. Readmissions within 30 days of discharge were 8.5% (4/47, 95% CI: 2.5%, 20.5%) among enrolled and 33.3% (4/12, 95% CI: 13.6%, 61.2%) among the unenrolled. The readmission rate of participants was significantly less than the national estimate (8.5% with CHFC3 vs. 23% national⁶⁵, $p=0.02$).

Readmission also were significantly greater in unenrolled patients. Unadjusted odds of readmission were reduced by 81% (OR=0.19, 95% CI: 0.04, 0.90) in the enrolled versus unenrolled group.

Because program effectiveness might reflect severity of disease, if patients who did not enroll had more severe disease or complications and those patients were more likely to be readmitted, the third analysis compared enrollment with readmission while controlling for disease severity. A simple severity index was created (NYHA Class IV or EF \leq 15%). In the adjusted analysis, enrollment had a 79% reduction in odds of readmission at 30 days (OR=0.21, 95% CI: 0.04, 1.06). Although the effect was non-significant and the severity index had a large effect (OR=3.01, 95% CI: 0.33, 27.86). There was little change in the association between enrollment and readmission with (OR=0.21) and without (OR=0.19) adjustment for severity, suggesting that effect estimates were not due to disease severity differences.

DISCUSSION

This program was designed to create a new, cost-effective disease management clinic in an uninsured population. Patients who enrolled were significantly less likely to readmit at 30 days than national averages, despite higher social determinants of health burden and significant disease burden. Generalizations from this pilot are limited by selection bias and cohort characteristics when compared to the national population, but it provides support for more robustly evaluating this model. A comparable reduction in readmissions

at our institution (from 262 to 92) would **save approximately 2.12M dollars annually**. Thus, it would be a self-sustaining program, funded from the cost savings to the health system. The effect of enrollment appeared to be stable when controlling for disease severity, suggesting that the program may significantly reduce hospitalizations at 30 days post-discharge.

Thus, the program appears potentially effective and possibly self-sustaining. While scalability of the program with twice-weekly visits may be of concern for most major health systems, half of these visits were purely surveillance of vital signs. These will be shifted to nurse and telephone visits in future studies, and a randomized-controlled trial pilot evaluating the program is planned.

Limitations

Because this study did not have a control group, effectiveness could not be estimated. However, observed rates of enrollment and 30-day readmissions inform feasibility for future studies. There also may have been selection bias in who chooses to attend CHFC3 versus those who do not enroll. While results did not seem to be the result of disease severity differences in enrollment, a usual care group might have offered better comparison.

CONCLUSION

The CHFC3 program appears feasible and possibly effective in reducing HF readmissions at 30 days. More investigation is needed to assess whether the

program is scalable and effective in both the insured and uninsured. A randomized controlled trial pilot analyzing this program seems warranted.

Table 1: Weekly Activity Cadence

| WEEK/VISIT | ACTIVITY |
|-------------------|--|
| 1-1 | Medical evaluation with care provider, Vitals/Labs |
| 1-2 | Vitals review, medication adherence review |
| 2-1 | Occupational Therapy Initial Evaluation, Case Management (Social Work), Counseling (Psychologist), Vitals/Labs |
| 2-2 | Vitals review, medication adherence review |
| 3-1 | Pharmacist Consultation, Nutrition Consultation, Vitals/Labs |
| 3-2 | Vitals review, medication adherence review |
| 4-1 | Nurse visit, Vitals/Labs, Ad-Hoc Visits with other disciplines |
| 4-2 | Vitals review, medication adherence review |
| 5-1 | Medical evaluation (option for 'graduation if deemed medically appropriate'), Vitals/Labs |
| 5-2 | Vitals review, medication adherence review |
| 6-1 – 8-2 | Repeat from 2-1 to 4-2 |

Table 2: Key Measures

| Measure | Description | Visit 1-1 | Visit 5-1 | Visit 8-1 | Weekly | Every Visit |
|---|---|------------------|------------------|------------------|---------------|--------------------|
| <i>Basic Metabolic Panel</i> | Kidney function, sodium of key interest | X | X | X | X | |
| <i>Brain Natriuretic Peptide (BNP)</i> | Measure of atrial stretch, correlates with increased volume | X | X | X | | |
| <i>Weight</i> | Weight, in pounds | X | X | X | X | X |
| <i>Blood pressure</i> | Systolic and Diastolic, mmHg | X | X | X | X | X |
| <i>Heart Rate</i> | Beats per minute | X | X | X | X | X |
| <i>O2 Saturation</i> | % Saturation | X | X | X | X | X |
| <i>Respiration Rate</i> | Breaths per minute | X | X | X | X | X |
| <i>Age</i> | Age in years | X | X | X | | |
| <i>Sex</i> | Male, Female, Other | X | X | X | | |
| <i>NYHA Functional Class</i> | I (no limitations), II (mild), III (moderate), IV (severe) | X | X | X | | |
| <i>History of Diabetes Mellitus</i> | Yes/No (A1C >6.5%) | X | | X | | |
| <i>History of Food Insecurity</i> | Any versus none | X | | | | |
| <i>History of Transportation Insecurity</i> | Any versus none | X | | | | |

Table 3: Patient Characteristics by Enrollment Status

| | Not Enrolled (N=12) | Enrolled (N=47) | Overall (N=59) | Phi/Eta Coefficient (N=59) |
|--|--------------------------------|----------------------------|---------------------------|---|
| Age | | | | |
| Median [Min, Max] | 54.5 [36.0, 65.0] | 52.0 [23.0, 78.0] | 53.0 [23.0, 78.0] | 0.03 |
| Race/Ethnicity | | | | |
| Non-Hispanic Black | 1 (8.3%) | 14 (29.8%) | 15 (25.4%) | |
| Non-Hispanic White | 7 (58.3%) | 18 (38.3%) | 25 (42.4%) | |
| White Hispanic | 3 (25.0%) | 15 (31.9%) | 18 (30.5%) | |
| Unknown | 1 (8.3%) | 0 (0%) | 1 (1.7%) | 0.16 |
| Sex | | | | |
| Female | 6 (50.0%) | 14 (29.8%) | 20 (33.9%) | 0.17 |
| BMI (kg) | | | | |
| Median [Min, Max] | 31.0 [20.0, 67.8] | 29.9 [21.6, 66.7] | 29.9 [20.0, 67.8] | -0.09 |
| NYHA Class | | | | |
| Class I | 1 (8.3%) | 4 (8.5%) | 5 (8.5%) | |
| Class II | 0 (0%) | 8 (17.0%) | 8 (13.6%) | |
| Class III – IV | 9 (90.0%) | 35 (74.5%) | 44 (77.2%) | |
| Unknown | 2 (16.7%) | 0 (0%) | 2 (3.4%) | 0.19 |
| History of Diabetes Mellitus (A1C >= 6.5%) | | | | |
| Yes | 6 (50.0%) | 24 (51.1%) | 30 (50.8%) | |
| Not screened | 2 (16.7%) | 0 (0%) | 2 (3.4%) | -0.07 |

| | | | | |
|---|--------------------|--------------------|--------------------|-------|
| Discharge Ejection Fraction | | | | |
| Median [Min, Max] | 30.0 [15.0, 65.0] | 25.0 [10.0, 65.0] | 25.0 [10.0, 65.0] | |
| Not acquired | 3 (25.0%) | 0 (0%) | 3 (5.1%) | 0.11 |
| HFpEF | | | | |
| Preserved EF | 3 (25.0%) | 7 (14.9%) | 10 (16.9%) | -0.11 |
| Serum NT pro-BNP (mg/dL) | | | | |
| Median [Min, Max] | 1440 [294, 6050] | 2410 [70.0, 18600] | 2220 [70.0, 18600] | |
| Not acquired | 4 (33.3%) | 2 (4.3%) | 6 (10.2%) | 0.13 |
| Creatinine (mg/dL) | | | | |
| Median [Min, Max] | 1.08 [0.700, 1.98] | 1.18 [0.420, 3.86] | 1.17 [0.420, 3.86] | |
| Not acquired | 3 (25.0%) | 1 (2.1%) | 4 (6.8%) | 0.09 |
| History of Food Insecurity | | | | |
| Yes | 4 (33.3%) | 21 (44.7%) | 25 (42.4%) | 0.09 |
| History of Transportation Insecurity | | | | |
| Yes | 4 (33.3%) | 15 (31.9%) | 19 (32.2%) | -0.01 |
| Current Smoking | | | | |
| Smoker | 7 (58.3%) | 23 (48.9%) | 30 (50.8%) | -0.08 |
| Alcohol Consumption Frequency | | | | |
| Multiple times per week or daily | 3 (25.0%) | 16 (34.0%) | 19 (32.2%) | 0.08 |

Table 4: Patient Characteristics by Readmission Status

| | Readmitted (N=4) | Not Readmitted (N=43) | Overall (N=47) | Phi or Eta |
|--|-------------------|-----------------------|-------------------|------------|
| HFpEF | | | | |
| HFpEF | 2 (50.0%) | 5 (11.6%) | 7 (14.9%) | -0.30 |
| BMI (kg) | | | | |
| Median [Min, Max] | 42.6 [22.0, 51.7] | 29.6 [21.6, 66.7] | 29.9 [21.6, 66.7] | -0.24 |
| NYHA Class | | | | |
| Class I | 0 (0%) | 4 (9.3%) | 4 (8.5%) | |
| Class II | 1 (25.0%) | 7 (16.3%) | 8 (17.0%) | |
| Class III-IV | 3 (75.0%) | 32 (74.4%) | 35 (74.4%) | 0.05 |
| History of Diabetes Mellitus (A1C >= 6.5%) | | | | |
| Yes | 2 (50.0%) | 22 (51.2%) | 24 (51.1%) | 0.01 |
| Discharge Ejection Fraction | | | | |
| Median [Min, Max] | 47.5 [15.0, 60.0] | 25.0 [10.0, 65.0] | 25.0 [10.0, 65.0] | -0.22 |
| Baseline sodium | | | | |
| Median [Min, Max] | 138 [133, 140] | 137 [130, 142] | 137 [130, 142] | |
| Not acquired | 0 (0%) | 1 (2.3%) | 1 (2.1%) | -0.05 |
| Baseline Heart Rate | | | | |
| Median [Min, Max] | 82.5 [67.0, 98.0] | 85.0 [59.0, 137] | 85.0 [59.0, 137] | |
| Not acquired | 0 (0%) | 1 (2.3%) | 1 (2.1%) | 0.06 |
| Baseline SpO2 | | | | |
| Median [Min, Max] | 96.5 [95.0, 100] | 98.0 [88.0, 100] | 97.5 [88.0, 100] | |

| | | | | |
|-----------------------------------|-------------------|--------------------|--------------------|-------|
| Not acquired | 0 (0%) | 1 (2.3%) | 1 (2.1%) | -0.02 |
| Baseline Systolic BP | | | | |
| Median [Min, Max] | 115 [95.0, 118] | 117 [90.0, 174] | 117 [90.0, 174] | |
| Not acquired | 0 (0%) | 1 (2.3%) | 1 (2.1%) | 0.16 |
| Baseline Diastolic BP | | | | |
| Median [Min, Max] | 79.5 [70.0, 88.0] | 77.0 [51.0, 113] | 77.0 [51.0, 113] | |
| Not acquired | 0 (0%) | 1 (2.3%) | 1 (2.1%) | 0.02 |
| SGLT2 Prescription* | | | | |
| Taking | 1 (50.0%) | 24 (63.2%) | 25 (62.5%) | 0.03 |
| ARNI Prescription* | | | | |
| Taking | 0 (0%) | 3 (7.9%) | 3 (7.5%) | 0.08 |
| ACE/ARB Prescription* | | | | |
| Taking | 2 (100%) | 26 (68.4%) | 28 (70.0%) | 0.12 |
| MRA Prescription* | | | | |
| Checked | 1 (50.0%) | 26 (68.4%) | 27 (67.5%) | 0.09 |
| Beta Blocker Prescription* | | | | |
| Taking | 2 (100%) | 35 (92.1%) | 37 (92.5%) | 0.09 |
| Statin Prescription* | | | | |
| Taking | 2 (100%) | 26 (68.4%) | 28 (70.0%) | 0.08 |
| Creatinine (mg/dL) | | | | |
| Median [Min, Max] | 1.94 [1.06, 3.18] | 1.16 [0.420, 3.86] | 1.18 [0.420, 3.86] | |
| Not acquired | 0 (0%) | 1 (2.3%) | 1 (2.1%) | -0.30 |
| Serum NT pro-BNP (mg/dL) | | | | |
| Median [Min, Max] | 1900 [175, 3500] | 2790 [70.0, 18600] | 2410 [70.0, 18600] | |
| Not acquired | 0 (0%) | 2 (4.7%) | 2 (4.3%) | 0.15 |
| History of Food Insecurity | | | | |

| | | | | |
|--|-------------------|-------------------|-------------------|-------|
| Yes | 2 (50.0%) | 19 (44.2%) | 21 (44.7%) | -0.03 |
| History of Transportation Insecurity | | | | |
| Yes | 2 (50.0%) | 13 (30.2%) | 15 (31.9%) | -0.12 |
| Current Smoking | | | | |
| Smoker | 2 (50.0%) | 21 (48.8%) | 23 (48.9%) | -0.01 |
| Current Alcohol Consumption Frequency | | | | |
| Multiple times per week or daily | 2 (50.0%) | 14 (32.6%) | 16 (34.0%) | -0.10 |
| Number Visits Completed | | | | |
| Median [Min, Max] | 11.0 [4.00, 16.0] | 8.00 [2.00, 16.0] | 8.00 [2.00, 16.0] | -0.18 |
| 30-Day Emergency Department Admission | | | | |
| Yes | 4 (100%) | 4 (9.3%) | 8 (17.0%) | -0.67 |

**Indicates statistics taken from HFrEF sub-cohort (no HFpEF patients)*

Chapter 5 Concluding Remarks

This concludes the dissertation, a compilation of three distinct aims that are self-contained projects. The first aim estimated relative and absolute risk of adverse musculoskeletal symptoms/events in statin therapy, both crudely and by intensity of therapy. We demonstrated significant increases in risk of these events, but risk was substantially less than what had been previously reported in observational studies. The study has now been cited in guidelines on the step-by-step management of self-reported myalgias in statin therapy by the International Lipid Expert Panel,¹⁴⁶ among other high-impact publications.

Aim 2 assessed the odds of venous thromboembolism given statin and HT exposure in an administrative claims database. This represents a distinctly different area from Aim 1, but contributes to the evidence on prevention and management of vascular disease with statin therapy. Consistent with other studies, we found significantly increased odds of embolism in women who were taking HT, but have identified even stronger associations in women taking contraceptive HT. Notably, statin therapy mitigated approximately 150% of the odds increase in women taking contraceptive HT. While much more work is needed to fully elucidate what role statin therapy might play in embolism prevention, our work is suggestive that women taking contraceptive HT might benefit from high-intensity statin therapy. Even more, it suggests that women 50 or older may be at least relatively contraindicated for contraceptive HT in the first place, pending confirmation in more robust study designs (i.e., prospective cohort).

Aim 3, which details the design and implementation of the Congestive Heart Failure Comprehensive Care clinic, has been submitted for publication and has received funding for further study by the UTMB President's Cabinet, the Sealy and Smith Foundation, and GE Healthcare. We demonstrated a remarkable 65% reduction in 30-day readmission rates when compared to national estimates and to local UTMB estimates. While the pilot study is only suggestive, it is sufficient rationale for further estimating the intervention's possible effectiveness in a randomized controlled trial. An R34 application for a clinical trial pilot study will be submitted to further expand on this work.

Thus, this work serves as foundation for my future career as a physician-scientist, but also has contributed to the evidence base for cardiovascular disease prevention and management. I look forward to what is to come.

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