

4 May 1982

Tom Moore - 317 923 2962

S. Pool wants ltr. detailing what he wants, etc.

Tech. utilization - N. Lamont Gama Ind. Ave
2255 Ted Dunham Dr
504 388 0800
Baton Rouge
Chynalok → Raines, M. 3191 (NA) → Norm Price, Boeing
→ Industrial Application Ctr.

Tech. Appln. Ctr. Univ. N.M. ABQ 87131 Stan Morain

5 May

Norm Price Reliability, Mgr. Boeing a 713-486-1300
called about Lamont's prob.

6 May -

Brought Lamont's hdwr. in for Boeing &
notified p Price who will return it by 1300 for Bond.

Science Fair -

524 entries M & H - 52

Cancellations: Dr. Meredith Morgan
Allen Grant

Meet in main ball room first / 12.5 B

1A - 5 investigator

1B - c "

Put P number on cards - also judge sign

Master - 1,2,3 is category

Φ I - elim. 50%

Φ II - remaining 50%

Bravence → Rm 105

Sen. Lloyd Bentsen
Steve Aguilar — congress-
Sen. John Tower
Don - Craddock
Bill Archer
Ron Paul

Nagle

24 May 82 T.E. mtg-

EKG monitoring - EVA - C.B. do not use for
real time monitoring - store for analysis -

WCS rework -
Seats "

Appl. for Dep. Pub. Safety Drug lic.

DPS Austin 512 465 2000 Triple Prescr. Sect.

Must reg. 2 DPS \$5.00 but must first have

DEA lic. from Washington 202-724-1013

512 465 2000 Austin

Requested Appln. from both -

DPS, Triple Prescr. Sect. Box 4087

Austin 78773

26 - Talk c Bazian on training for and ops. on
rescue at EDW. Need 'primary' Eng in EMT and
2° course if possible. Jack day has leave.
J. Wanderplough advised me to call UTM
(which has 35K Eng. contract) directly since
all L/S pers. are on lv. Contacted Schottstredt
in CME who did not have contract but

May '82

thought that Allied Health Sci. did & would find out. 5801

27. Call Schottstadt 765-2996 - he is unaware of any programs pastor present exercise at UTM B but Henry Cardoso 765-2041 has a curricula awaiting approval -

Called Dave Cole 5594 who will try to get info.

Jack Day not in

Quit tech is supposed to call on primary program for LLC - he was not in

Called Lacey & course is set for 3-4 June
Dave Cole contacted UTM B and they do have program & currently sched. 15-16 June - requested earlier date but UTM B refused. Referred to Anes Ch. Anesthesia for hands on pt. trng. after unsuccessful attempts to reach hosp. admin. as initially directed. ^{Arens} says Tues, Wed, Fri. AM at 0715 is good. Sched. for 3-4 Jun.

3- Jun. To UTM B at 0715. 22 rms. & 40 residents. Shown round by Sam Nichols asst. chief and in chg. monitoring, formerly St. Hall and told two pts. Will go to Sam Nichols Phil Abston, resid. (Sr) in AM. Hallfinch is ch. Emer. Med.

Dr. James Arens Ch. Anes. 765-1221

4. Back to UTM B at 0715 - nothing available in Anesthesia -

3 June

Cardio Pulmonary Resuscitation

Basic Cardiac Life Support

BCLS
ACLS

4-6 mins. brain damage

1. Heart

1 rescuer CPR

2.

3. Obstruction of airway

4. Infant resuscitation

Standard Procedures

Sudden death synonymous $\hat{=}$ Cardiac Arrest =

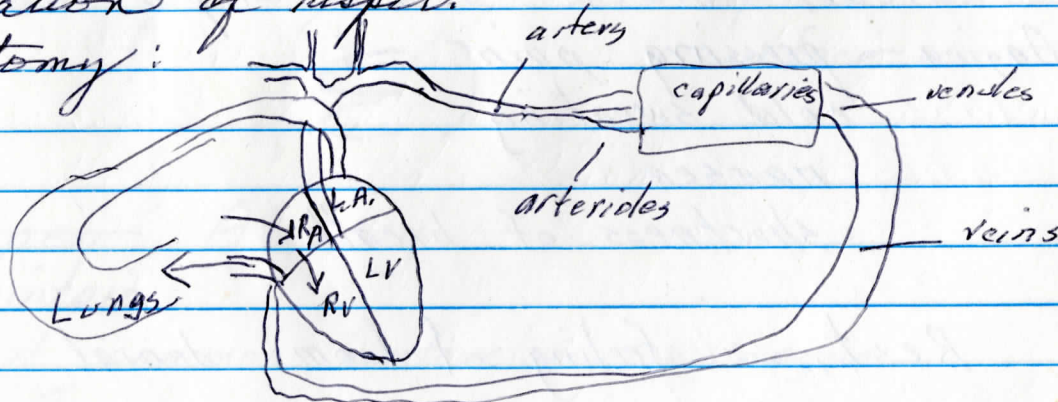
blood no longer moving + carrying O_2

1000 people/day die before reaching ER.

CPR is intervention.

Cardiac arrest - detected by absence of pulse,
cessation of respir.

Anatomy:



Electrically triggered mus. contractions.

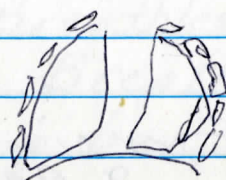
Voluntary Resp



damaged $\rightarrow$ Invol. Ctr Medulla driven
by trauma by O_2

drugs

cardiac arrest



	respiratory	muscles
in	21%	16%
neg CO_2		5%

3. June B C P R

Coronary Artery Disease

1. asymptomatic
2. symptomatic CAD

M.I.

Pain > 2 mins,
Press

CAD, Risk Factors
EMT-

Cardiac arrest = no heart action

Heart Attack: death of portion myocard.

Angina - pressing pain

cold sweating

nausea

shortness of breath

Rest, Feeling of doom - denial

Risk Factors:

Associated $\bar{c}$ CAD

- | | | |
|------------------|---|---------|
| 1. Smoking | } | Primary |
| 2. $\uparrow$ BP | | |
| 3. Cholesterol | | |

4. Diabetes

5. Heredity

6. Diabetes

7. Lack of regular Exercise

8. $\uparrow$ Trigly

9. Age

11. sex

10. obesity

3. Jun- Lacey -

Respiratory Resuscitation

Drugs including ETOH

Drowning

Electrocution

Aspiration

45 Gary

McFadyen

1. Establish level of consciousness

2. Call for help -

3. Position Victim



Supine on firm surface -

4. ~~Open~~ Airway
Maintain

most common obstruction is tongue

To open airway;

1. head tilt / neck lift

put base of hand (R) on forehead & (L)
hand under neck

2. head tilt / chin lift

forehead & chin lift

3. Jaw Thrust

5. Establish Breathlessness

6. (4) Quick Breaths

7. Check for pulse (carotid)

Circulatory Resuscitation

Monitor

80 min

15/2

NB. Older pts. may crunch, ch. posn

Keep going



2 fingers over thyroid

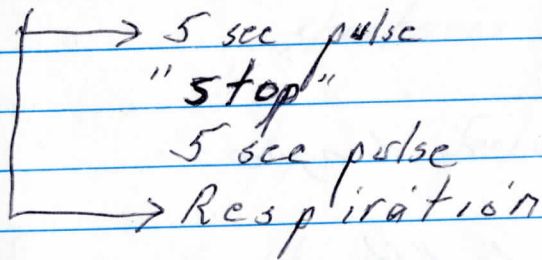
2 man resuscitation

60 min cardiac compression 12 breaths min

5:1 "blow hand up"

15:2

New man - 15 count



ck. posn

0 ne man

2° man

15 "one and two and---"

2 breathe

15 "one & two

" "can I help"

yes

carotid 5 sec

stop

stop

carotid 5 sec.

two one breath

"resume"

"one, one thousand two one thousand"

five one thousand"

breathe at end
of 4 and blow
up five.

Obstructed Airway -
primary obstruct. tongue

2° is meat; risk factors, dent ETOH,
dentures,

4 breaths obstructed,

Throat Clutch

Try to elicit speech

watch

partial
complete

good
exchange
poor

Don't leave pt.

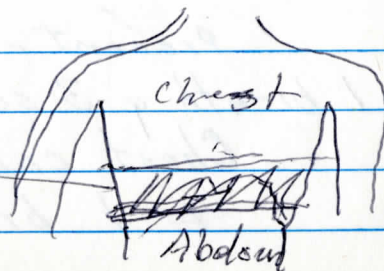
1. Back Blow - 4 ea

2. Manual Thrust X4

A. Chest.

B. Abdom.

unsafe



4 June

Unconscious - Victim -



Turn and 4 back blows

Supine " abdom. thrust

X finger & open mouth inspection

supine & chest thrust

Check pulse - only after airway

CPR if necessary (only after airway is established)

~~Supine & chest thrust~~

Side & back blows

Infant & child resuscitation -

Establish Responsiveness

Turn ^{while} supporting head.

Establish Airway & hyperexters -

4 breaths

Brachial Pulse

Present -

1 breath q 3 secs -

Chest compression (80 min)

& 1 breath q 5 compress.

Compression

A. 2 Fingers

B. $1\frac{1}{2}$ " to 1" depth

3. $\frac{1}{4}$ of chest between nipples

4. 100/min.

5. 5/1 "

Medico Legal

stomas -

7 June T.E. mtg. 8 PSI suit is being fabricated.

21 June EDW

Car - Called tow, who called Betty who called Mary Jane who knew nothing of rental - Betty called Heitz, Lancaster who sent a Car ~ 1300 to pick me up take me to Lancaster and finally back to EDW 1700+. Met M^{rs} Bride, M.D. who gave me sched. for tomorrow but disclaimed knowledge of photo. session. Tried out data terminal but I wasn't on it. Sched. for 0900 mtg. in AM.

M^{rs} Bride - FTS 984 8682 C-805 258 3311 X682

Tried to reach Lighter, not in, asst. busy, Jack? said I didn't need clearance/passes - I pressed. Called Belasco who concurred which was not impression given in directions.

22 June Brief - on simulated convoy badges.

No need badges for Dryden & USAF areas. Told to go to USAF visitors by Jerry Brandt X3457 this was countermanded by Behrig of ARS who promised to have badges waiting. On arrival told they would be ready this evening or in AM. Next tried to get Dryden badge from Dennis Bessette who went to incredible lengths to avoid issue. After much prodding found I need a walk through which was sched. by ISC rep. through Diane Proctor? 411 @ Bldg 5 entered @ 1400.

Walk through Helo. @ Richardson - I am "Air Doc" two riding on Helo. 3. There is a prepractice @ 1711 in A.M. and requested to be

on it and met reluctance - appears that USAF medics
have sched. themselves as the air medics but promised
seat at 0730 by Capt. Behrig, but check at 1400 today.
Reviewed chopper A.R.S. at ~1030 today.
Sched. to med. A.R.S. at 1100 sched. for suit
review at clinic to 1300 filming followed by
§ VII ? review.

Tues - 22 § VII at 0700 show time today -
Tawa hoist ops - nominal. Good try -
exercise - finally got badge to A.R.S.

Wed - 23 Went over kits to A.R.S. this A.M. and
filmed mock exam at 1300 and § VI at
1445 - Good learning exercise but pt. sim is
poor since hosp. wasn't told to continue it.
No suit exercise.

Fri. 25 § VII to Loma Linda - Good sim.
It would probably have did enroute to epid. bleed
since no burns/drills available at EDW - L.L. did
not (were not requested) to continue sim - Behrig
Discussion to M^c Bride & Bazian. Unanimous
in need for intermediate facility between EDW &
L.L. such as Antelope valley to trauma team -
Suit was problem today and tried to get
briefing on it and on EDW facilities this weekend.
Went to

ACLS

Betsy Brinkley -

Thurs

1100 Clinic

1300 Film

Sat. 0800 to EDW hosp. to see Skinslip (MOD) but
strange MOD on - still give up on it.

Sun. - To ARS 0700 - Nominal launch - m^sB. at
1130

Mon. - ARS 0700 - m^sB 1130 to A/V Hosp. Met 2p.
at 1900 + contact c MOCR JSC til. ~2200.

Tues. - ARS 0550 - T/E bringing data -

1 - R Side 1 V

~~1 Scissors~~

1 500 ml. R/Ds

2 70" 1V tubes

2 42" 1V extens.

2 ea 14, 16, 18 G Quik Cath

6 18 G needles

1 I Cath

1 Tourniquet

2 - L Side Airway

~~2 ea Esophageal Airway c masks~~

~~1 ea Laryngoscope c Mc + Str. Blades~~

T 4 ea Trach tubes c syringe 7 + 8 mm

a ~~2 ea Pen lights c swabs~~

c ~~1 ea Long Forceps~~

h 2 ea Small " , straight + curved

2 ea Naso Pharyngeal Airways 30 + 34 F

~~1 ea Oro " "~~

Cricothyrotomy c swabs

E { Esophageal A/W c mask/syr.

O, Light

Bag { Oro-pharyngeal A/W

Syringe, bulb

scope { Laryngoscope c 2 blades

Carry
Spare glasses -
Goggles -
Scissors
BP Cuff -
Stethoscope
Arterial T/Q

Back

{ Ambubag & O₂ line

1 L-D₅R & Pressure infusion

Cardiac Meds →

Bandage 2-6" elastic bandage

12-4"x4"

2 - gloves

2 - Kerlix

adhesive

'Surgery'

4 scalpels

Betadine

20 & 50 cc Syringe

Straight pickups

Curved pickups

Spinal Needle 18 G

21 G needles

Trochar & valves

Meds

Atropine - 2. mgm

Lidocaine - 200 mgm

Epinephrine - 10 ml. 10^{-4}

Na HCO₃ - 100 meq.

~~Isoptercinol - 1 mgm in 250 ml - 4 μ gm/ml~~

→ CaCl₂ - 10 ml - 10% soln -

Isuprel - 1 mgm.

Mannitol - 250 mgm

Expenses

Mi/Time
Golf course

21
1000 D - JSC Taxi

1030 A - EFD

1100 D - "

1400 A - EDW G/A

L

Mach

3.50

D

O.C.

10.50

VOQ

~30 1700

22

B

NASA

~30 1700

2.75

L

"

D

10.25

~29/1700

23

B

NASA

-

2.75

L

NCO

3.50

D

10.20

~ 29

24

B

NASA

36.46-9

27.4

3.30

L

5.60

D

8.80

VOQ

25

B

3.30

L

4.65

D

11.25

VOQ

$$\begin{array}{r} 7.6 \\ 1.27 \overline{) 9.65} \\ \underline{+ 6} \\ 809 \\ \underline{760} \\ 262 \end{array}$$

26 B. Hosp. Cafet. 1.10
 L. Ojai .75 + 9.75 + 1.00 11.50
 D - Carrols 8.75
 Gas \$9.65
 VOP

~ 2 hrs climbing

27 B NASA 3.10
 L Hosp 1.90
 D 8.75
 VOP

~ 2 1/2 Hrs climbing

28 ⁰⁶³⁰ B NASA 3.00
 L Hosp 1.90
 D JoJo's 10.84
 VOP 12.08

35 min - Long Course

Gas

29 0555 B NASA 3.00
 L 4.60
 D —

VOP

~ 37 ~ 4

30 (WED) NASA 3.31
 Carroways 6.80
 Dinner 12.15
 VOP

EDW Trip

1 July B- 3.31
 L- 6.25
 D- O Club 9.25
 VOP
 ~ 40 ~ 4

2 July
 B 3.30
 L 4.25
 D Coyote 8.75
 VOP
 ~ 36 ~ 4

3 July SAT B NASA 3.31
 L- Cal. City 6.25
 Dinner

4 July B 3.60
 L 5.25

~ 200 personal mi. on car
 EPD ~ 1830
 Arr -

D - " 1930 POV 9 mi
 A Resid 200

5 Aug. Margaret Anderson, Pat. Atty. - resched
appt. Tues - 1030
Ph. 266-5593 D, 683-9433 H, 765-975

10. Ames animal cage & S/L 3 trng. now
sched. for 16 Aug - (after many slips) - Have Cy.
sched. lv. to go. Yesterday a call from
Maria Junga 87-448-5682 apparently about
our getting a physical before mixing c the
animals. Since the entire question of animal/
crew interface is open called S. Pool who asked
that she contact him. Called back & "in meeting".
Left word.

Training - S-8
Robertson, Horton

12 Apr. '83

Schedule -

Abbey Brief - Charts -

Plan for S-7.

Trng. on Fri - S-7 (Tg)

Recorder -

Sched S-6