IMSS LOG

SMEAT

IMSS

LOG

JULY 11, 1972

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IT IS REQUESTED THAT ANY ORGANIZATION HAVING COMMENTS, QUESTIONS, OR SUGGESTIONS CONCERNING THIS DOCUMENT CONTACT T. O. MONTGOMERY/GE, TELEPHONE 483-4637.

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ACKNOWLEDGEMENTS

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31 URINE/BLOOD	Dr. W. C. Alexander/MSC	483-4086
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32 MICROBIOLOGY	Dr. J. K. Ferguson/MSC	483-2031
	J. G. Carl/GE	332-4511, X2519
41 DRUGS	Dr. C. E. Ross/MSC	483-4021
	D. G. Fitzjerrell/GE	332-4511, X2519

IT IS REQUESTED THAT ANY ORGANIZATION HAVING SPECIFIC COMMENTS IN HIS (THEIR) AREA OF RESPONSIBILITY CONTACT THE INDIVIDUALS OF THE GENERAL ELECTRIC COMPANY LISTED ABOVE. THESE INDIVIDUALS PREPARED THEIR RESPECTIVE SECTIONS WITH TECHNICAL REVIEW BY THE MSC/LSD PERSONNEL LISTED FOR EACH SECTION.

SMEAT
IMSS
LOG

LIST OF EFFECTIVE PAGES

FINAL 7/11/72

TABLE OF CONTENTS

UB D

URINE/BLOOD DATA SHEET

UB D

URINE/BLOOD UB C

CREWMAN: CDR / SPT / PLT

DATE: _____/_____ TIME _____ GMT

NOTES:

URINE: CLEAR _____ CLOUDY _____ ①

SPECIFIC GRAVITY = 1 . 0 _ _ ②

HEMOCCULT SLIDE TEST: ③

BLUE (+) ____ (-) ____

(BLOOD IN STOOL)

MATCH WITH BILI-LABSTIK COLOR CHART Ø16 .

CHECK AFTER OBSERVED COLOR.

	5	6	7	8	9
NEG.	TRACE	30 +	100 ++	300 +++	OVER 1000
NEG			LT.	MED.	DARK
NEG.			SMALL	MOD.	LARGE
NEG.			SMALL	MOD.	LARGE
			SMALL +	MOD. ++	LARGE +++

④

BILI-LABSTIK DATA: =

READ:

(IMMEDIATELY) pH =

(IMMEDIATELY) PROTEIN =

(AFTER 10 SECS.) GLUCOSE =

(AFTER 15 SECS.) KETONE =

(AFTER 20 SECS.) BILIRUBEN =

(AFTER 30 SECS.) BLOOD =

BILI-LABSTIK

ORIGINAL COVER:

ORANGE

YELLOW (mg/100 ml)

RED

LIGHT BUFF

DARK BUFF

CREAM

⑤

WHITE CELL COUNT:

- COUNT WITHIN COUNTING AREA = _____
- ADD 1/10 OF COUNTED VALUE + ( )
- MULTIPLY BY 100 = X 100 ( )
  = WHITE BLOOD CELLS/mm^3

EXAMPLE:
55
5.5
60.5
100
6050

UROBILISTIX TEST ⑥

MATCH WITH UROBILISTIX COLOR CHART

CHECK AFTER OBSERVED COLOR.

0.1	1	4	8	12

⑦ WHITE BLOOD CELL DIFFERENTIAL COUNT (REFER TO BLOOD CELL CHART)

UB 12

	TYPE (TALLY)	% OF TYPE
SEGMENTED NEUTROPHIL		
NEUTROPHILIC STAB		
LYMPHOCYTE		
MONOCYTE		
EOSINOPHIL		
BASOPHIL		

⑧ HEMOGLOBIN CONCENTRATION:

_____ Hb / 100 ml

UB D

URINE/BLOOD DATA SHEET

UB D

CREWMAN: CDR / SPT / PLT
DATE: _____/_____ TIME _____ GMT
NOTES:

URINE: CLEAR _____ CLOUDY _____ ①
SPECIFIC GRAVITY = 1 . 0 _ _ ②

HEMOCCULT SLIDE TEST: ③
BLUE (+) ____ (-) ____
(BLOOD IN STOOL)

MATCH WITH BILI-LABSTIK COLOR CHART Ø16 .
CHECK AFTER OBSERVED COLOR.

	5	6	7	8	9
NEG.	TRACE	30 +	100 ++	300 +++	OVER 1000
NEG			LT.	MED.	DARK
NEG.			SMALL	MOD.	LARGE
NEG.			SMALL	MOD.	LARGE
			SMALL +	MOD. ++	LARGE +++

④
BILI-LABSTIK DATA: =
READ:
(IMMEDIATELY) pH =
(IMMEDIATELY) PROTEIN =
(AFTER 10 SECS.) GLUCOSE =
(AFTER 15 SECS.) KETONE =
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BILI-LABSTIK

ORIGINAL COVER:
ORANGE
YELLOW (mg/100 ml)
RED
LIGHT BUFF
DARK BUFF
CREAM

⑤
WHITE CELL COUNT:
- COUNT WITHIN COUNTING AREA = _____
- ADD 1/10 OF COUNTED VALUE + ( )
- MULTIPLY BY 100 = X 100 ( )
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EXAMPLE:
55
5.5
60.5
100
6050

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MATCH WITH UROBILISTIX COLOR CHART
CHECK AFTER OBSERVED COLOR.

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⑦ WHITE BLOOD CELL DIFFERENTIAL COUNT (REFER TO BLOOD CELL CHART)

UB 12

	TYPE (TALLY)	% OF TYPE
SEGMENTED NEUTROPHIL		
NEUTROPHILIC STAB		
LYMPHOCYTE		
MONOCYTE		
EOSINOPHIL		
BASOPHIL		

⑧ HEMOGLOBIN CONCENTRATION:

_____ Hb / 100 ml

UB D

URINE/BLOOD DATA SHEET

UB D

CREWMAN: CDR / SPT / PLT
DATE: 256 TIME 1600 GMT
NOTES:

URINE: CLEAR ✓ CLOUDY ____ ①
SPECIFIC GRAVITY = 1.033 ②

HEMOCCULT SLIDE TEST: ③
BLUE (+) ____ (-) ____
(BLOOD IN STOOL)

MATCH WITH BILI-LABSTIK COLOR CHART 016 .
CHECK AFTER OBSERVED COLOR.

	5	6	7	8	9
NEG.	TRACE	30 +	100 ++	300 +++	OVER 1000
NEG			LT.	MED.	DARK
NEG.			SMALL	MOD.	LARGE
NEG.			SMALL	MOD.	LARGE
			SMALL +	MOD. ++	LARGE +++

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BILI-LABSTIK DATA: =
READ:
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(AFTER 10 SECS.) GLUCOSE =
(AFTER 15 SECS.) KETONE =
(AFTER 20 SECS.) BILIRUBEN =
(AFTER 30 SECS.) BLOOD =

BILI-LABSTIK

ORIGINAL COVER:
ORANGE
YELLOW (mg/100 ml)
RED
LIGHT BUFF
DARK BUFF
CREAM

⑤
WHITE CELL COUNT:
- COUNT WITHIN COUNTING AREA = ____
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60.5
100
6050

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0.1	1	4	8	12

⑦ WHITE BLOOD CELL DIFFERENTIAL COUNT (REFER TO BLOOD CELL CHART) UB 12

	TYPE (TALLY)	% OF TYPE
SEGMENTED NEUTROPHIL		
NEUTROPHILIC STAB		
LYMPHOCYTE		
MONOCYTE		
EOSINOPHIL		
BASOPHIL		

⑧ HEMOGLOBIN CONCENTRATION:

____ Hb / 100 ml

UB D

URINE/BLOOD DATA SHEET

UB D

CREWMAN: CDR / SPT / PLT
DATE: ____/____ TIME _____ GMT
NOTES:

URINE: CLEAR _____ CLOUDY _____ ①
SPECIFIC GRAVITY = 1 . 0 _ _ ②

HEMOCCULT SLIDE TEST: ③
BLUE (+) ____ (-) ____
(BLOOD IN STOOL)

④

BILI-LABSTIK DATA: =
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(AFTER 20 SECS.) BILIRUBEN =
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BILI-LABSTIK

ORIGINAL COVER:
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YELLOW (mg/100 ml)
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DARK BUFF
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MONOCYTE		
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BASOPHIL		

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_____ Hb / 100 ml

UB D

URINE/BLOOD DATA SHEET

UB D

CREWMAN: CDR / SPT / PLT

DATE: _____/_____ TIME _____ GMT

NOTES:

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6050

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0.1	1	4	8	12

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NEUTROPHILIC STAB		
LYMPHOCYTE		
MONOCYTE		
EOSINOPHIL		
BASOPHIL		

⑧ HEMOGLOBIN CONCENTRATION:

_____ Hb / 100 ml

UB D

URINE/BLOOD DATA SHEET

UB D

CREWMAN: CDR / SPT / PLT
DATE: _____/_____ TIME _____ GMT
NOTES:

URINE: CLEAR _____ CLOUDY _____ ①
SPECIFIC GRAVITY = 1 . 0 _ _ ②

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(BLOOD IN STOOL)

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CHECK AFTER OBSERVED COLOR.

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NEG			LT.	MED.	DARK
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BILI-LABSTIK

ORIGINAL COVER:
ORANGE
YELLOW (mg/100 ml)
RED
LIGHT BUFF
DARK BUFF
CREAM

⑤

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- COUNT WITHIN COUNTING AREA = _____
- ADD 1/10 OF COUNTED VALUE + ( )
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60.5
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6050

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CHECK AFTER OBSERVED COLOR.

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⑦ WHITE BLOOD CELL DIFFERENTIAL COUNT (REFER TO BLOOD CELL CHART)

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	TYPE (TALLY)	% OF TYPE
SEGMENTED NEUTROPHIL		
NEUTROPHILIC STAB		
LYMPHOCYTE		
MONOCYTE		
EOSINOPHIL		
BASOPHIL		

⑧ HEMOGLOBIN CONCENTRATION:

_____ Hb / 100 ml

MB D

MICROBIOLOGY DATA SHEET

MB D

MICROBIOLOGY MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE /2/4 TIME 1540 GMT

NOTES:

Initial Isolation control blank, unopened, overgrown - photo 14,15 1st roll
Colonies more distinct, esp. ~~B+C~~ 2&3 on control plate

CIRCLE OR WRITE IN

SAMPLE: (A) B C D

SAMPLE SITE: EAR, NOSE, URINE, (THROAT), FOOT, OTHER CDR

(2) •URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

Can - 1019 contam. 2 passed out + 2 incub
Can - 1020 incub

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) • INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1		C	K	S	2,5			✓
	2		I	JJ	S	1	✓		
	3		C	K	S	1-2			✓
	4		There appeared to be 4-5 B colonies but						
LEAST PRESENT	5		these were in dense growth + impossible to gr						
	6		separate						

(4) •ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM) dia. 1	2	3	4	RESISTANT (GROWTH) 1	2	3	4
AMPICILLIN (Am)	23	35	>30					
PENICILLIN (P)	22	30	>30					
TETRACYLENE (Te)	20	0	14					
GANTRISIN (G)	32	24	30					
CEPHALOTHIN (KEFLEX) (C)	18	30	>30					
Furadantin	26	25	>30					
					CHECK ✓			

(6) •TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1		2		3		4	
A - DISC (A)	+	X	+	X	+	-	+	-
P - DISC (P)	+	X	+	X	+	X	+	-
*+ (NO GROWTH) ; - (GROWTH)								

X = growth
3A - contam overgrowth
* possible

(7) •CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	O	✓	✓	✓		
SMALL ROD	⬭			*	✓	
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE		✓				
PAIRS						
PACKETS OF 4						
CLUMPED		✓	✓	✓	✓	
CHAINS			✓	✓		

(5) •TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-

CIRCLE FOR EACH TEST

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE ____/____ TIME _____ GMT

NOTES:

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1								
	2								
↓	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM)				RESISTANT (GROWTH)			
	1	2	3	4	1	2	3	4
AMPICILLIN (Am)								
PENICILLIN (P)								
TETRACYLENE (Te)								
GANTRISIN (G)								
CEPHALOTHIN (KEFLEX) (C)								
					CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO.							
	1		2		3		4	
A - DISC (A)	+	-	+	-	+	-	+	-
P - DISC (P)	+	-	+	-	+	-	+	-
*+ (NO GROWTH) ; - (GROWTH)								

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-
		CIRCLE FOR EACH TEST							

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE						
SMALL ROD						
LARGE ROD						
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED						
CHAINS						

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: (CDR) / SPT / PLT /

DATE 22/1 TIME 1530 GMT

NOTES: Control Initial isol. had app. contam. mid plate & many diff orgs.

CIRCLE OR WRITE IN

SAMPLE: A (B) C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER Hand

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1		C	K	S	2			✓
	2		C	K	S	1-2			✓
↓	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM) Dia 1	2	3	4	RESISTANT (GROWTH) 1	2	3	4
AMPICILLIN (Am)	16	>30						
PENICILLIN (P)	14	>30						
TETRACYLENE (Te)	23	28						
GANTRISIN (G)		30			✓			
CEPHALOTHIN (KEFLEX) (C)	30	>30						
Furadantin F/M	20	18			CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1	2	3	4
A - DISC (A)	+ (-) (+)	-	+	-	+	-
P - DISC (P)	+ (-) +	(-)	+	-	+	-

*+ (NO GROWTH) ; - (GROWTH)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	(-)	+	(-)	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	(-)	+	(-)	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	(-)	+	(-)	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-

CIRCLE FOR EACH TEST

Note: incompletely decol. possibly pleomorphic 2, possible spores

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	○	✓				
SMALL ROD	⬭		✓			
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED		✓				
CHAINS			✓			

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE 25 Oct TIME 1600 GMT

NOTES: 90, 92-94-90

2° colony type was small clearer colony and may have simply been young colonies of predominant type.

(2) partial inhibition (3) definite difference in colonies

(4) short double red, short chains of 2-3 + clumped

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

MICROORGANISMS* (✓)	
PRESENT	ABSENT
✓	

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
✓ + (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1	~170	C	J	S	2			✓
	2	~10	C	J	S	1-2			✓
↓	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM) Dia. 1	2	3	4	RESISTANT (GROWTH) 1	2	3	4
AMPICILLIN (Am)	26	15						
PENICILLIN (P)	24	25						
TETRACYLENE (Te) (2)	22	30						
(2) GANTRISIN (G)	20	730						
CEPHALOTHIN (KEFLEX) (C)	26	20						
F/M	15	15						

CHECK ✓

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1	2	3	4
A - DISC (A)	+ (-) (+) -	+ -	+ -	+ -
P - DISC (P)	+ (-) + (-)	+ -	+ -	+ -

*+ (NO GROWTH) ; - (GROWTH)

2nd culture was not transferred to slide -

* diplococci - variable size - ?

short rod (doubt)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	(+)	-	+	(-)	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	(-)	+	(-)	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	(+)	-	(+)	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	(+)	-	+	(-)	+	-	+	-

CIRCLE FOR EACH TEST

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2 (4)	3	4	URINE SMEAR
SPHERE	○	✓				✓ ?
SMALL ROD	⬭		✓			✓ ?
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS		✓				✓
PACKETS OF 4						
CLUMPED		✓	✓			
CHAINS						✓

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE 235 TIME 1410 GMT

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

NOTES:

1. Plate 1 showed some α hemolysis - ? contam. Gantrisin produced partial inhibition - colonies did not appear different in this area
2. Plate 3,4 showed partial inhibition of Gantrisin
3. 4 organism was very adherent

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1		C	J	S	2			G
	2		C	J	S	5-1	A		
	3		C	K	S	1-2			G
	4		C	J-L ?	S	1-2			G
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM) dia. 1	2	3	4	RESISTANT (GROWTH) 1	2	3	4
AMPICILLIN (Am)	30	30	22	25				
PENICILLIN (P)	28	28	20	20				
TETRACYLENE (Te)	20	24	20	16				
GANTRISIN (G) see 1,2	18	27	15	15				
CEPHALOTHIN (KEFLEX) (C)	>30	30	22	22				
F/M	15	24	14	16	CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1	2	3	4
A - DISC (A)	+ (-)	+ (-)	+ (-)	(+) -
P - DISC (P)	+ (-)	+ (-)	+ (-)	+ (-)

*+ (NO GROWTH) ; - (GROWTH)

1. short, fat double rods

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	(+)	-	(+)	-	(+)	-	(+)	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	(-)	+	(-)	+	(-)	+	(-)
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	(-)	+	(-)	+	(-)	+	(-)
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	(-)	(+)	(-)	+	(-)	+	(-)

CIRCLE FOR EACH TEST

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	○	✓		✓	✓	
SMALL ROD	▭		1.			
LARGE ROD	⬭					
FILAMENTOUS	⤳					
ARRANGEMENT:						
SINGLE	∴				✓	
PAIRS	⁝	✓				
PACKETS OF 4	⁞⁞			✓		
CLUMPED				✓		
CHAINS			✓	✓		

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE ____ / ____ TIME _____ GMT

NOTES:

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1								
	2								
↓	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM)				RESISTANT (GROWTH)			
	1	2	3	4	1	2	3	4
AMPICILLIN (Am)								
PENICILLIN (P)								
TETRACYLENE (Te)								
GANTRISIN (G)								
CEPHALOTHIN (KEFLEX) (C)								
					CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1		2		3		4	
A - DISC (A)	+	-	+	-	+	-	+	-
P - DISC (P)	+	-	+	-	+	-	+	-

*+ (NO GROWTH) ; - (GROWTH)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-
		CIRCLE FOR EACH TEST							

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	○					
SMALL ROD	⬭					
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED						
CHAINS						

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE ___/___ TIME _____ GMT

NOTES:

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1								
	2								
	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM)				RESISTANT (GROWTH)			
	1	2	3	4	1	2	3	4
AMPICILLIN (Am)								
PENICILLIN (P)								
TETRACYLENE (Te)								
GANTRISIN (G)								
CEPHALOTHIN (KEFLEX) (C)								
					CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO.							
	1		2		3		4	
A - DISC (A)	+	-	+	-	+	-	+	-
P - DISC (P)	+	-	+	-	+	-	+	-

*+ (NO GROWTH) ; - (GROWTH)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-
		CIRCLE FOR EACH TEST							

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	O					
SMALL ROD	⬭					
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED						
CHAINS						

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE ____/____ TIME _____ GMT

NOTES:

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1								
	2								
	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM) 1	2	3	4	RESISTANT (GROWTH) 1	2	3	4
AMPICILLIN (Am)								
PENICILLIN (P)								
TETRACYLENE (Te)								
GANTRISIN (G)								
CEPHALOTHIN (KEFLEX) (C)								
					CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1		2		3		4	
A - DISC (A)	+	-	+	-	+	-	+	-
P - DISC (P)	+	-	+	-	+	-	+	-

*+ (NO GROWTH) ; - (GROWTH)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-
		CIRCLE FOR EACH TEST							

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE						
SMALL ROD						
LARGE ROD						
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED						
CHAINS						

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE ___/___ TIME _____ GMT

NOTES:

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓) A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1								
	2								
	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM) 1	2	3	4	RESISTANT (GROWTH) 1	2	3	4
AMPICILLIN (Am)								
PENICILLIN (P)								
TETRACYLENE (Te)								
GANTRISIN (G)								
CEPHALOTHIN (KEFLEX) (C)								
					CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO. 1		2		3		4	
A - DISC (A)	+	-	+	-	+	-	+	-
P - DISC (P)	+	-	+	-	+	-	+	-

*+ (NO GROWTH) ; - (GROWTH)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-
		CIRCLE FOR EACH TEST							

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	○					
SMALL ROD	⬭					
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED						
CHAINS						

MB D

MICROBIOLOGY DATA SHEET

MB D

(1) INITIAL ISOLATION PLATE

CREWMAN: CDR / SPT / PLT /

DATE ___/___ TIME _____ GMT

NOTES:

CIRCLE OR WRITE IN

SAMPLE: A B C D

SAMPLE SITE: EAR, NOSE, URINE THROAT, FOOT, OTHER _____

(2) ●URINE SMEAR OBSERVATIONS:

(✓) MICROORGANISMS*	
PRESENT	ABSENT

*IF PRESENT RECORD AND REPORT:

- GRAM STAIN REACTION →

GRAM REACTION	
+ (BLUE)	- (RED)

- CELLULAR MORPHOLOGY. SEE (7)

(3) ● INITIAL ISOLATION PLATE COLONY OBSERVATIONS:

FORM		ELEVATION			TEXTURE			COLOR
CIRCULAR (C)	IRREGULAR (I)	J	K	L	SMOOTH (S)	ROUGH (R)	FUZZY (F)	1. TRANSPARENT 2. WHITE 3. YELLOW 4. GREEN 5. GREY "NAME". OTHER

COLONY TYPE		COLONY COUNT (URINE)	FORM	ELEVATION	TEXTURE	COLOR	TYPE HEMOLYSIS (✓)		
							A- GREEN	B-CLEARING	G - NONE
MOST PRESENT	1								
	2								
↓	3								
	4								
LEAST PRESENT	5								
	6								

(4) ●ANTIBIOTIC SENSITIVITY PLATE OBSERVATIONS:

ANTIBIOTIC \ PLATE NO.	SENSITIVE (NO GROWTH) SIZE (MM)				RESISTANT (GROWTH)			
	1	2	3	4	1	2	3	4
AMPICILLIN (Am)								
PENICILLIN (P)								
TETRACYLENE (Te)								
GANTRISIN (G)								
CEPHALOTHIN (KEFLEX) (C)								
					CHECK ✓			

(6) ●TAXOS SENSITIVITY OBSERVATIONS:

	CIRCLE ONE* PLATE NO.							
	1		2		3		4	
A - DISC (A)	+	-	+	-	+	-	+	-
P - DISC (P)	+	-	+	-	+	-	+	-

*+ (NO GROWTH) ; - (GROWTH)

(5) ●TESTING EACH CULTURE:

		1		2		3		4	
GRAM STAIN	+ (BLUE) - (RED)	+	-	+	-	+	-	+	-
OXIDASE	+ (BLACK) - (NO CHANGE)	+	-	+	-	+	-	+	-
CATALASE	+ (BUBBLING) - (NO BUBBLING)	+	-	+	-	+	-	+	-
COAGULASE	+ (CLUMPING) - (NO CLUMPING)	+	-	+	-	+	-	+	-
		CIRCLE FOR EACH TEST							

(7) ●CELLULAR MORPHOLOGY:

CHECK ✓		1	2	3	4	URINE SMEAR
SPHERE	○					
SMALL ROD	⬭					
LARGE ROD	⬭					
FILAMENTOUS						
ARRANGEMENT:						
SINGLE						
PAIRS						
PACKETS OF 4						
CLUMPED						
CHAINS						

GENERAL DATA SHEET

CREWMAN: CDR / SPT / PLT

DATE: _____/_____ TIME: _____ GMT

GENERAL

216- culture ident plates IMSS 4C
The incubator had condensate on interior which pooled in the bottom, was discolored + smelled (? staph) 3 plates, control, had overgrowth from bottom of incubator -
Plate 1A appeared to be completely overgrown + had no resemblance to original morphology + 3A partially overgrown -

H_2O drop disp
Brackets
Problems IMSS:
Brackets not rivets hang up on can rack in resupply module making it almost impossible to use. Rack was bent trying to use it.
Required materials are scattered allover the cabinets, in odd containers and the like.
On first opening the incubator a rotten, possibly staph, odor was noticed but not investigated. In view of previous experience a sample plate was incubated without being opened. Yesterday this plate was found to be overgrown so plates were examined more closely and found to have a good bit of foreign material on the surface so three more were incubated and all grew a confluent culture from the bottom edge.
At this time condensed water was found in the incubator top and 5-10 ml. of purulent water found in the bottom of the incubator. This probably contaminated the plates. In the absence of adequate sterilization facilities the EO + PI were contacted with the request to pass this item out which was done. It was reccomended that

Comments on IMSS blood-

Urine collection bag was & is not available. There was some difficulty in emptying the capillary into the unopette ~~volume~~ diluent. Doubt that this method method will work in ~~zero G.~~ weightlessness since the fluid will not be in the bottom of the bottle. Blood spreader assy. was not in kit but slides were used to spread the blood without difficulty. The RBC's were well stained but WBC's not at all. The Japanese toy microscope is a continuing source of frustrations c̄ no stage, poor illumination & poor optics. IMSS check list ~~was~~ was not c̄ consistent c̄ hard ware. Japanese counting chambers had no fill ports, the clip on cover was unstable & one chamber was broken trying to get it out of its holder. This holder grips every slide too well. Counter layout format was different from cf & complex. Cables holding the chamber to the hemoglobin meter seriously interfere c̄ its operation. The microscopes optics ~~were~~ / slide chamber were so dirty that it was impossible to distinguish RBC's from motes. Lens tissue supplied simply left more dirt.

Micro - Gram stains appeared to be inadequately decolorized and the alcohol had large amounts of gas or vapor on discharge ~~and if on resp~~ the reservoir had a large quantity of vapor in it & was replaced. This would be a serious weightless problem.

The incubator mod. appears to work well.

Charlie your information on the 1M55 was garbled as most gets on pass out. Maybe this will help.

It was first reported that rivets were hanging up on the can racks in the micro resupply and this was later changed to the major cause which is the cross members hanging up. The matter is simple enough - there is no clearance between the filled can rack and the inside of the resupply cans. This first shows up in trying to remove it initially when a variety of tools and techniques plus 30 mins. time are required to pry them out. There were pull tabs to aid in this but one had been pulled off prior to our receiving it and the second pulled off in the first attempt. Neither was replaced. The up shot of this is that the rack/can - container dimension is too tight.

On replacement of the rack this

From C. Chassay To SMEAT CREWMEN

#10

IMSS EQUIPMENT QUESTIONS

DR 1S260234 (8/1/72) - Crew reports that riveting on IMSS trays is bad, resulting in trays hanging.

Q1. What trays have bad rivets- Resupply Kit Racks, In-use Drug Module drawers?

DR 1S260235 (8/1/72) - Crew states that velcro came off of IMSS bags.

Q1. Please identify bags that velcro came off of. Micro Trash bags, Rucksacks (Rits)

Q2. Size wise how large were velcro patches (i.e. Complete patches or shredding)?

DR 1S260249 (8/2/72) - Rivets on side of IMSS Kit cause difficulty in using kit. Reported by SPT.

Q1. Could rivets (Term used on DR) Actually be snaps on the side or the IMSS kits?

DR 1S260250 also DR 1S260261 - Metal ~~silver~~ sliver approximately 1 centrimeter long exist in IMSS can. Noted by crew when top was open.

Q1. What area of can yielded metal sliver?
- A. Top of ridge around canister
- B. Inside of ridge around canister
- C. Other

Q2. Have different procedures been utilized to open can ?

Need more locations for light mounting

DR 1S260256 ~~IMSS can opener leaves a small sliver of STUBBL as it opens the can~~

Q1. Is crew requesting more locations for mounting a lighting fixture on the IMSS work table.

Q2. Is crew requesting more attachments for securing instruments to the work table.

DR 1S260264- The racks on IMSS resupply module have become impossible to remove and install.

Q1. Please try to determine if the discrepant condition is due to:
- A. The rack inside of the resupply container not being circular
- B. The inside of the resupply container being bent
- C. The outside diameter of the can rims causing the canisters when place into the rack to expand the rack outward into the inside wall of the resupply container.
- D. Rivets on rack interfacing
  - (A) No. 1 above can be accomplished by using a full rack (i.e. All canisters can be included or as many as are available), partially filled rack and an empty rack.
  - (B) Suggest insertion of rack filled as in note A be inserted at 90° rotations to each other. (i.e. 4 insertions per condition)

(C) Minimize the time the canisters are outside the chiller.

(D) Above observations can be run at crews convenience and can be broken into several periods to reduce the heat load drawn from the chiller.

DR 1S260290 (8/4/72) - Water drop dispenser on slide stainer is inoperative and stop is missing.

Q1. Was finger held over slide stainer water drop port when the water drop button was unscrewed?

Q2. Could water drop button unscrew all the way out?

DR 1S260308 (8/5/72) - IMSS H2 O dispenser did not work

Q1. Is this the water dispenser on the slide stainer or the water accumulator in the microbiology kit.

Q2. If it's the accumulator in the microbiology kit is it
A. Broken at the tip of the syringe.
B. Plugged in the 3 way valve
C. Other

DR 1S260338 (8/8/72) - Crew debriefing SPT reported there were no blue stains on white blood cells on slides.

Q1. Is there some means of measuring the PH of the H2 O in the slide stainer whenever no blue or purple stains appear on the stained slides inside the white blood dispenser?

DR 1S260340 (8/8/72) - Crew (SPT) states that microscope is very difficult to set up.

Q1 . Is the difficulty occuring during the use of the microscope itself or

Q2. In the removal of the microscope from the microscope kit and installing it on the work table?

DR 1S260341 (8/8/72) - Crew stated wet wipes are very difficult to remove.

Q1. Are these wet wipes (zephrin wipe) in the IMSS?