

BROOKHAVEN NATIONAL LABORATORY

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MEMORANDUM

REPOSITORY Records Holding Area, Bldg. 494
COLLECTION Meetings/Minutes/Agendas
BOX No. 2
FOLDER Governing Body, 1971-1974

R DATE: June 17, 1974

TO: Mr. J. Holder, Secretary of the
Governing Body
FROM: Dr. M. Pavlova, Chairman, M.P.
Infection Control Committee, HMRC
SUBJECT: Infection Control Committee
Annual Report to the Governing Body

I assumed my duties as Chairman of the Infection Control Committee in June 1973 after attending a course entitled "Infection Control in Hospitals and Health Care Facilities" at the Center for Disease Control, Atlanta, March 14-16, 1973. Pertinent literature obtained from the CDC at this time was distributed to the members of the ICC and discussed at a regular meeting of the committee.

Meetings of the committee were held on the following dates: July 11, 1973; September 13, 1973; October 18, 1973; November 27, 1973; December 18, 1973; January 23, 1974; February 14, 1974; March 26, 1974 and April 29, 1974. The next regularly scheduled meeting will take place on June 19, 1974. Copies of the Minutes of these meetings are attached for your perusal.

In accordance with the JCAH recommendations adopted by the Hospital of the Medical Research Center, the Infection Control Committee has been preparing periodical reports relative to (a) antibiotic usage and (b) antimicrobial susceptibility/resistance trends. Data on antimicrobial susceptibility of hospitalized patients with infections has been tabulated from September 1973, as has data on use of antibiotics in these patients, and the resulting reports have been analyzed and discussed by ICC members (see attachments). Mrs. Mary Orłowski (Central Supply Services) has assisted the ICC in gathering the necessary data from patients' charts for the preparation of the above-mentioned reports. Mrs. Orłowski attended a course entitled "Infection Control" at the Cleveland Clinic Educational Foundation, May 1-2, 1974, and is scheduled to present a report on this course at the next seminar for the nursing staff of the Hospital on June 19, 1974. In order to formalize Mrs. Orłowski's assistance to the Infection Control Committee, the committee has requested that Dr. Chanana appoint her Nurse-Epidemiologist and an active member of the ICC (Memorandum of May 10, 1974).

To clarify the question of proper use of antibiotics, Dr. Victor Lorian, Director of the Programs for Infection Control, Bronx-Lebanon Medical Center, Bronx, New York, has been invited to speak on "Mode of Action of Antibiotics and the Antibiotic of Choice for Treatment of Infections" at the Medical Department seminar scheduled for September 20, 1974.

Five new types of cards for Protective, Enteric, Respiratory, Strict, and Wound and Skin Isolation have been ordered from CDC and received for each of

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the Pavilions. This year (1974) there were two instances of enteric isolation for Salmonella, which was isolated from two patients in the hospital. The isolation was carried out properly and all precautions were taken to prevent hospital-acquired infections.

In July 1973, the Infection Control Committee requested that monthly samples of water be drawn for bacteriological testing - on a rotating basis - from Pavilions 1, 2, 3 and 4, from the Hospital kitchen, Central Supply and from the Industrial Medicine Clinic. Copies of the results of these bacteriological analyses are received regularly from Lauman Laboratories and are analyzed at the monthly ICC meetings.

Bacteriological surveillance of Pavilions 1, 3 and 4, Central Supply, dietary and kitchen facilities is carried out by the Bacteriology laboratory and the results are reviewed by the ICC on a monthly basis. Several meetings have been held with kitchen personnel in order to emphasize the importance and necessity of personal hygiene. Appropriate literature, describing methods of maintaining satisfactory standards of hygiene, was given to the Hospital Dietitian, Miss Gillespie.

The focal point of the Infection Control Committee's activities has been the prevention of infections, and, since the Hospital of the Medical Research Center is a research hospital whose staff physicians also work in the research laboratories, the ICC has served as an advisory committee to the Medical Research Center as well. Several problems related to infection control have arisen in the research laboratories and have been referred to the ICC for possible resolution (e.g., handling potentially infectious materials, hazard of serum hepatitis B for laboratory workers, biohazard in biomedical research involving mammalian cells and oncogenic viruses, etc.). These problems have been discussed by ICC members in great detail, the necessary bacteriological studies have been performed, and, if requested, written procedures and/or recommendations have been prepared.

In order to disseminate methodology for the prevention of infections in a medical research environment, the ICC has arranged for Dr. W. Emmett Barkley, Chairman of the Research Safety Committee, NCI Frederick Cancer Research Center, Fort Detrick, Frederick, Maryland, to present a seminar entitled "Biohazard Control in Biomedical Research" to the Medical Staff on September 6, 1974.

USE OF ANTIMICROBIAL AGENTS

SERVICE	SPECIMEN	Date of Culture	MICROORGANISM ISOLATED			ANTIBIOTIC			No. of Days	
			Name of Microorganism	Colony Count	Sensitivity Test	Name	Dosage	Time Administered		
IV	Urine	1/7/74	<i>E. coli</i>	100,000	Tetra, Declo, Amp, Mandel, Carb, Ceph, Gent, Gent, Chlor	GANTRISIN	1.0 gm 4 i.d.	1/9/74	1/23/74	16
IV	Urine	1/23/74	---NO GROWTH---							
IV	Urine	2/13/74	<i>E. coli</i>	100,000	Tetra, Declo, Amp, Mandel, Carb, Ceph, Gent, SSS, Gent, Chlor	MANDERLANINE	1.0 gm 4 i.d.	2/15/74	2/21/74	12
IV	Urine	2/25/74	<i>E. coli</i>	100,000	Tetra, Declo, Amp, Mandel, Carb, Ceph, Gent, SSS, Gent, Chlor	GANTRISIN	0.5 gm 4 i.d.	2/22/74	3/8/74	10
IV	Urine	3/7/74	---NO GROWTH---							
IV	Urine	3/25/74	<i>E. coli</i>	100,000	Tetra, Declo, Amp, Mandel, Carb, Ceph, Gent, SSS, Gent, Chlor	GANTRISIN	0.5 gm 4 i.d.	3/22/74	4/8/74	12
IV	Urine	4/8/74	---NO GROWTH---							
IV	Urine	4/18/74	<i>E. coli</i>	100,000	Tetra, Declo, Amp, Carb, Gent, SSS, Chlor	GANTRISIN	0.5 gm 4 i.d.	4/22/74	5/8/74	17
III	Throat	1/14/74	<i>Staph. aureus</i>		Peni, Erythro, Tetra, Ceph, Chlor, Methi, Linco, Oxa, Nitrof.	V-CILLIN-K	250 mg 4 i.d.	1/19/74	Discharged on medical on 1/25	
III	Throat	1/24/74	<i>E. coli</i>		Tetra, Declo, Ceph, Gent, Chlor	-- Enteric Isola (on only)				
III	Stool	1/16/74	<i>Salmonella paratyphi C</i>		Declo, Carb, Genta.					
III	Stool	1/21/74	---NO PATHOGENS ISOLATED---							
IV	Urine (cath)	1/17/74	<i>Gamma streptococci</i>	100,000	Erythro, Chlor, Nitrof.					
IV	Urine	1/21/74	<i>E. coli</i>	100,000	Amp, Mandel, Carb, Ceph, Gent, SSS, Genta, Chlor, Nitrof.	POLYCLININ	250 mg 4 i.d.	1/22/74	2/2/74	11
IV	Urine	1/21/74	Enterococci	100,000	Erythro, Tetra, Oxa, Ceph, Gent, Methi, Linco, Chlor, Nitrof.	MANDERLANINE	1.0 gm 4 i.d.	1/23/74	2/5/74	14
IV	Perineal area	2/2/74	<i>Citrobacter diversus</i>		Tetra, Declo, Mandel, Ceph, Genta, Chlor					
IV	Perineal area	2/2/74	Enterobacter cloacae		Genta					
IV	Urine	2/2/74	<i>Klebsiella pneumoniae</i>		Tetra, Mandel, Genta.					
IV	Urine	2/11/74	<i>Klebsiella pneumoniae</i>	< 10 ⁶ /ml						
IV	Urine	2/12/74	<i>Proteus mirabilis</i>	100,000	Amp, Mandel, Carb, Ceph, Gent, SSS, Chlor					
IV	Urine	2/12/74	Enterococci	100,000	Peni, Erythro, Amp, Ceph, Methi, Nitrof, Oxa, Chlor					
IV	Urine	2/12/74	<i>Staph. epidermidis</i>	100,000	Erythro, Ceph, Methi, Nitrof, Linco, Oxa, Chlor					
III	Sputum	2/21/74	<i>Pneumococci</i>		Peni, Erythro, Tetra, Amp, Ceph, Chlor, Methi, Oxa, Nitrof					
IV	Urine	2/12/74	<i>E. coli</i>	100,000	Amp, Mandel, Carb, Ceph, Gent, SSS, Genta, Chlor, Tetra, Methi	MANDERLANINE	1.0 gm 4 i.d.	2/13/74	3/24/74	40
IV	Urine	2/12/74	Enterococci	100,000	Erythro, Tetra, Amp, Ceph, Methi, Chlor, Linco					
IV	Urine	2/12/74	<i>Proteus mirabilis</i>	100,000	Amp, Mandel, Carb, Ceph, Gent, SSS, Genta, Chlor	GANTRISIN	500 mg 4 i.d.	3/23/74	4/2/74	9

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SEPTEMBER 1973

MICROORGANISM	SPECIES
<i>E. coli</i>	Urine
<i>E. coli</i>	Sputum
<i>E. coli</i>	Sputum
<i>E. coli</i>	Throat
<i>E. coli</i>	Urine
<i>Staph. aureus</i>	Exudate
<i>Staph. aureus</i>	Right ear
<i>Staph. aureus</i>	Throat
<i>Staph. epidermidis</i>	Urine
<i>Enterococci</i>	Sputum
<i>Enterococci</i>	Throat
<i>Enterococci</i>	Urine
<i>Enterobacter liquefaciens</i>	Sputum
<i>Enterobacter liquefaciens</i>	Sputum
<i>Enterobacter liquefaciens</i>	Throat
<i>Flavobacterium pneumoniae</i>	Throat
<i>Klebsiella pneumoniae</i>	Urine
<i>Proteus mirabilis</i>	Urine
<i>Proteus vulgaris</i>	Urine
<i>Alpha streptococci</i>	Urine

ANTIMICROBIAL SENSITIVITY PATTERN

SERVICE	AMPI	CARB	CEPH	CHLOR	DECLO	ERYTHRO	GANT	CENTA	KANA	LINCO	MANDEL	METRI	NITROF	OXA	PENI	STREP	SSS	TEIC
III	S	S	I	S	S	(R)	S	S			S				(R)	S	S	S
III	(R)	S	(R)	(R)	I	(R)		S	S		S				(R)	S	S	I
III	(R)	(R)	(R)	S	S	(R)		S	S		S				(R)	S	S	S
IV	(R)	(R)	I	S	(R)	(R)		S			S				(R)	S	S	(R)
OP	S	(R)	S	S	S	(R)		S			S				(R)	S	S	S
I	S		S	S	S	S				S			S	S	S			S
III	(R)		S	S	S	S			S				S	S	(R)			S
IV	(R)		S	S	S	S			S				S	S	(R)			S
IV	S		S	S	S	S			S				S	S	S	(R)		S
III	S		S	S	S	S			(R)	S			S	S	S	(R)		S
III	S		S	S	S	S			(R)	S			S	S	S	(R)		S
IV	S		S	S	S	S	(R)		(R)	S			S	S	(R)	S		S
III	(R)	S	(R)	(R)	I	(R)		S	S		S		S	S	(R)	S		S
III	(R)	I	(R)	(R)	(R)	(R)		S	S		S		S	S	(R)	S		S
III	(R)	(R)	(R)	(R)	S	(R)		S	S		S		S	S	(R)	S		S
IV	(R)	(R)	(R)	(R)	S	(R)		S	S		S		S	S	(R)	S		S
IV	(R)	(R)	(R)	(R)	S	(R)		S	S		S		S	S	(R)	S		S
IV	S	S	(R)	(R)	(R)	(R)		S	S		S		S	S	(R)	S		S
IV	(R)	S	(R)	(R)	(R)	(R)		S	S		S		S	S	(R)	S		S
OP	S	S	S	S	S	S		S	S		S		S	S	(R)	S		S

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FEBRUARY 1974

ANTIMICROBIAL SENSITIVITY PATTERNS

SERVICE	AMPI	CARB	CFR	CHEOR	DECLO	ENTHRO	GANT	GENTA	KANA	LINCO	MALICEL	NITROF	OMA	PTM	SIMPZ	SSS	TRISA
IV	S	S	S	S	S	R	S	S			S			R		S	S
IV	S	S	S	S	S	R	S	S			S			R		S	S
IV	S	S	S	S	R	R	S	S			S			S		S	R
III	S	S	S	S	S	S	S	S			S			R		S	R
III	S	S	S	S	R	R	S	S			S			R		S	S
IV	S	S	S	S	S	R	S	S			S			R		S	R
III	S	S	S	S	S	S	S	S			S			S		S	S
IV	S	S	S	S	S	S	S	S			S			R		S	R
III	R		S	S	S	S	S	S			S			R		S	S
IV	R	R	S	S	S	R	S	S			S			R		S	R
IV	R	R	R	R	I	R	S	S			R			R		S	R
IV	R	R	R	R	R	R	S	S			S			R		S	S
III	S	I	S	S	S	R	S	S			S			R		S	S
IV	S	S	S	S	S	R	S	S			S			R		S	S
I	S	S	S	S	S	S	R	S			S			S		S	S
III	S	S	S	S	S	S	S	S			S			S		S	S
III	S	S	S	S	S	S	S	S			S			S		S	S
IV	R		S	S	S	R	S	S			S			R		S	R
IV	S	S	S	S	S	R	S	S			S			R		S	R
IV	S	S	I	S	S	R	S	S			S			R		S	R

MICROORGANISM	SPECIES
<i>E. coli</i>	Urine
<i>E. coli</i>	Urine
<i>E. coli</i>	Urine
<i>Pneumococci</i>	Sputum
<i>Proteus mirabilis</i>	Urine
<i>Proteus mirabilis</i>	Urine
<i>Enterococci</i>	Urine
<i>Enterococci</i>	Urine
<i>Staph. pyodermid</i>	Urine
<i>Citrobacter diversus</i>	Perinea area
<i>Enterobacter cloacae</i>	Perinea area
<i>Klebsiella pneumoniae</i>	Perinea area
<i>Staph. aureus</i>	Sputum
<i>E. coli</i>	Urine
<i>Beta streptococci</i>	Urine
<i>Pneumococci</i>	Sputum
<i>Staph. aureus</i>	Toe
<i>Staph. aureus</i>	Sputum
<i>Proteus mirabilis</i>	Urine
<i>Enterococci</i>	Urine

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ANTI-BIOTIC SENSITIVITY

STRAIN	SPECIES	ISOLATION SOURCE	AGE	SEX	DATE	CITY	COUNTRY	PROV.	LABOR.	ANT.	GANT.	AMPC.	MAN.	LMCO.	MORPH.	SMITH.	REILOG.	USA.	REF.	DIAGN.	SSS.	TTM.
1	Streptococcus	Throat	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
111	E. coli	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
112	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
113	E. coli	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
114	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
116	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
117	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
118	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
119	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
120	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
121	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
122	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
123	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
124	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
125	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
126	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
127	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
128	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
129	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
130	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
131	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
132	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
133	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
134	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
135	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
136	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
137	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
138	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
139	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
140	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
141	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
142	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
143	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
144	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
145	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
146	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
147	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
148	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
149	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1
150	Staph. aureus	Urine	1	M	1948	Manila	Philippines	Manila	1	1	1	1	1	1	1	1	1	1	1	1	1	1

ANTI-BIOTIC SENSITIVITY

ANZI = Ampicillin
 GATA = Gentamicin
 CEFK = Cephalosporin
 CHDA = Chloramphenicol
 ERYTH = Erythromycin
 GANT = Gentamicin
 GENT = Gentamicin
 KANU = Kanamycin
 METM = Metronidazole
 MITRO = Nitrofurantoin
 OXA = Oxacillin
 PENI = Penicillin
 STRE = Streptomycin
 TETRA = Tetracycline

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