

**MEDICAL MICROBIOLOGY AND IMMUNOLOGY
2009**

AUGUST

26	Wednesday	1:00	Introduction to course	Streips
		1:30	Introduction to immunology	Stout
		2:00	Innate immune system	Stout
27	Thursday	1:00	Cell trafficking:migration	Stout
		2:00	Antibodies and antigens	Streips
28	Friday	9:00	Ig genes and rearrangement	Streips
		10:00	Ig gene and T-cell receptor rearrangement	Streips
		11:00	Major histocompatibility complex (MHC)	Stout
31	Monday	9:00	T-cell recognition of antigen	Stout
		10:00	T-cell, B-cell development and activation	Stout
		11:00	<i>Video: Immunology in focus</i>	[Streips]
		1:00	Inflammation	Stout
		3:00	Phagocytosis mechanisms	Miller

SEPTEMBER

1	Tuesday	9:00	The antibody response	Stout
		10:00	The cell mediated response	Stout
		1:00	Complement	Yan
		2:00	Complement, <i>Video</i> , discussion	Yan
		3:00	Complement receptors and disease	Yan
2	Wednesday	1:00	Cytokines and chemokines	Fernandez
3	Thursday	9:00	Tumor immunology	Kosciwicz
		10:00	Transplantation	Shirwan
		11:00	Tolerance and immune regulation	Stout
		3:00	Autoimmunity	Stout
4	Friday	8:00	QUIZ I (10pts) and retake (5pts)	
		9:00	Hypersensitivity I	Stout
		10:00	<i>Kimsey Lecture</i> [0.2%]	Taylor
		11:00	Hypersensitivities II-IV	Stout
		3:00	Immunological assays	Stout
7	Monday	LABOR DAY (NO CLASS)		
8	Tuesday	11:00	<i>ISICS: Transplantation</i> (0.1%)	Kaufman
		1:00	Developmental immunodeficiency and impact of aging on immune system	Stout
		2:00	Human virus structure/classification	Hunt

Required materials:

Textbooks: Parham-The Immune System, Third Edition, Garland Science
Bos and Somers-USMLE Road Map-Microbiology and Inf. Disease

Notes: From the course available in copy center, including Virology 2008

Highly Recommended:

Textbooks: Mims- Medical Microbiology and Board Review (bacteriology section organized according to this textbook and on reserve in the library)

Lange et al.- Medical Microbiology and Board Review

SEPTEMBER

8	Tuesday	3:00	<i>POPS</i> : Bee Careful	[Streips]
		4:00	<i>POPS</i> : Bee Careful (0.1%)	[Streips]
10	Thursday	1:00	Introduction to bacteriology	Streips
		2:00	Introduction to antibiotics	Streips
11	Friday	8:00	Quiz II (10pts) and retake (5pts)	
		9:00	Antibiotics	Streips
		10:00	Virus-cell interactions, replication of DNA-containing viruses	Hunt
		11:00	Replication of RNA-containing viruses, viral genetics and diagnostic virology	Hunt
14	Monday	10:00	Retroviruses and oncogenes	Hunt
		11:00	Anti-viral drugs and human interferons	Hunt
		1:00	Viral immunology and human vaccines	Hunt
		2:00	Epidemiology and pathogenesis of human virus infections	Hunt
15	Tuesday	8:00	<i>ISICS</i> ; antibiotics and use (0.1%)	Huang
		11:00	High yield bacterial physiology	Streips
		1:00	High yield bacterial physiology	Streips
		2:00	Operon structure and control	Streips
16	Wednesday	1:00	Operons	Streips
		2:00	Clinical antibiotic resistance and nosocomial infections	Summersgill/ Streips
17	Thursday	1:00	<i>Clinical DG</i> : senior-led discussion (0.1%)	[Streips]
		2:00	Block 1 question demo	Streips
			(Self study) Sterilization and disinfection	Streips

Study week and Block 1 Examination Friday September 25

OCTOBER

5	Monday	11:00	Mutation and DNA repair in bacteria	Streips
		1:00	Genetic exchange in bacteria	Streips
		2:00	Genetic exchange-more ways	Streips
6	Tuesday	1:00	Genetic exchange-even more	Streips
		2:00	Normal flora and pathogenic mechanisms	Miller
			RESPIRATORY PATHOGENS MIMS CH. 18 AND 19	
			UPPER RESPIRATORY INFECTIONS-MIMS CH. 18	
			Infectious diseases-Robbins Chapter 8, Pulmonary, pp. 710-720	
		3:00	Streptococci- <i>Streptococcus pyogenes</i>	Miller

OCTOBER

8	Thursday	8:00	Common cold viruses, adenovirus	Hunt
		9:00	Paramyxo and rubella viruses	Hunt
		3:00	<i>Corynebacterium/Nocardia</i>	Miller
9	Friday	8:00	<i>Haemophilus/Mycoplasma</i>	Miller
		9:00	Introduction to mycology	Miller
		10:00	<i>Candida</i> , candidiasis	Miller
		11:00	Introduction to parasites	Snyder

LOWER RESPIRATORY INFECTIONS-MIMS CH.19

12	Monday	1:00	<i>Bordetella</i>	Miller
		11:00	<i>Streptococcus pneumoniae</i> /viridans strep.	Miller
		1:00	<i>Pseudomonas/Legionella</i> /H ₂ O-borne bacteria	Miller
13	Tuesday	2:00	<i>Mycobacterium tuberculosis</i> and atypical	Miller
		10:00	ISICS: Respiratory virus infection (0.1%)	Rabalais
		11:00	Clinical DG: Senior-led case discussion [0.1%]	Streips
14	Wednesday	1:00	<i>Aspergillus</i> and zygomycetes	Miller
		1:00	<i>Histoplasma/Blastomyces/Coccidiomycoses</i>	Miller
		2:00	Nematodes	Snyder
16	Friday	8:00	QUIZ III (10pts) AND RETAKE (5pts)	
		1:00	Human influenza viruses, influenza vaccines	Hunt
		2:00	Video: "Influenza 1918" (1998) [quiz.0.1%]	Hunt
		3:00	ISICS; avian, swine flu & pandemic risk [0.1%]	Hunt

(Voluntary POPS: "An elderly man with fever and cough")

CNS INFECTIONS-MIMS CH.24

Robbins pp. 1299-1309

19	Monday	1:00	Picornaviruses: polio&other enteroviruses	Hunt
		2:00	Viral encephalitis	Hunt
		3:00	<i>Clostridia botulinum</i> and <i>tetani</i>	Miller
20	Tuesday	11:00	Rabies virus and "slow viruses"/ prions	Hunt
		1:00	Video: "The Brain Eater" (1998) [quiz,0.1%]	Hunt
		2:00	<i>Neisseria meningitides</i> /other bacterial meningitis	Miller

(Voluntary POPS: "Tetanus immunity")

IMMUNODEFICIENCY-RELATED PATHOGENS-MIMS CH. 30

23	Friday	9:00	Biology of human immunodeficiency virus (HIV)	Hunt
		10:00	Epidemiology&pathogenesis of HIV/AIDS	Hunt
		11:00	<i>Cryptococcus/Pneumocystis</i>	Miller

OCTOBER

26	Monday	11:00	Video: "Surviving AIDS" (1999) [quiz,0.1%]	Hunt
		1:00	Staphylococci	Miller
		2:00	ISICS: Congenital virus infections [0.1%]	Marshall
		3:00	ISICS: meningitis (0.1%)	Marshall

INFECTIONS OF SKIN, MUSCLE, SOFT TISSUES-MIMS CH.26

27	Tuesday	9:00	QUIZ IV (10pts) AND RETAKE (5pts)	
		10:00	Staphylococcus/Streptococci/ <i>Propionobacter</i>	Miller
		11:00	Human herpesviruses (summary, HSV-1,-2, VZV)	Hunt
		1:00	Human herpesviruses (CMV,EBV,HHV-6,KSHV)	Hunt
28	Wednesday	1:00	Microbiology-Pathology clinical correlation	Huang
		2:00	Poxviruses	Hunt
29	Thursday	9:00	Papilloma, parvo, and polyoma viruses	Hunt
		3:00	<i>Mycobacterium leprae</i>	Miller
			(Optional: 4:00PM Standardized patient video of pox lesions and presentation)	
			(Optional: POPS "Painful rash")	
30	Friday	9:00	Clinical DG: senior led case discussion [0.1%]	[Streips
		10:00	Superficial and cutaneous mycoses	Miller
		11:00	Subcutaneous mycoses	Miller

NOVEMBER

STUDY WEEK AND BLOCK EXAMINATION 2 Friday, November 6

GI TRACT INFECTIONS-MIMS CH.22

Robbins pp. 939-944

16	Monday	11:00	Rotavirus and noroviruses	Hunt
		1:00	ISICS: Viral gastroenteritis (0.1%)	Rabalais
		2:00	<i>Ameoba/Giardia/Cryptosporidium</i>	Snyder
17	Tuesday	1:00	ISICS: Intraabdominal infections (0.1%)	Cheadle
		2:00	Intestinal worms	Snyder
		3:00	Human hepatitis viruses A-E	Hunt
19	Thursday	8:00	Acute and chronic viral hepatitis	Hunt
		9:00	Anaerobes: <i>Clostridia difficile/perfringens</i>	Miller
20	Friday	11:00	Anaerobes: <i>Bacteroides/Peptostreptococcus</i> , etc.	Miller
		1:00	Gram-negative enterics	Miller
		2:00	Gram-negative enterics	Miller

NOVEMBER

URINARY TRACT INFECTIONS AND STDs-MIMS CH.20
Robbins pp.981,986-987, 993-994, 1009-1010, 1017, 1027-1309

23	Monday	1:00	Laboratory (dry)	[Streips]
		2:00	Laboratory (dry) (final report 0.1%)	[Streips]
24	Tuesday	1:00	UTI pathogens	Miller
		2:00	<i>Chlamydia</i>	Miller
26			THANKSGIVING BREAK	
30	Monday	1:00	<i>Neisseria gonorrhoeae</i>	Miller
		2:00	Spirochetes	Miller

DECEMBER

1	Tuesday	1:00	Human viruses and cancer	Hunt
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MISCELLANEOUS SUBJECTS

1	Tuesday	2:00	<i>Listeria</i> and other organisms (Self-study- Genetics of pathogenesis)	Miller Streips
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MULTISYSTEM ZONOSSES AND VECTOR-BORNE DISEASES-MIMS CH.28

3	Thursday	3:00	Parasitology- <i>Plasmodium</i>	Snyder
		3:00	Parasitology- <i>Plasmodium</i>	Snyder
4	Friday	8:00	QUIZ V (10pts) AND RETAKE (5pts)	
		9:30-10:00	Trypanosomes	Streips
		10:00	<i>Leishmania/Schistosoma</i>	Snyder
		11:00	<i>Rickettsia</i>	Miller
		1:00	<i>Borrelia/Leptospira</i>	Miller
		2:00	Video: "A New Hantavirus" (1993) [quiz, 0.1%]	Hunt
		3:00	Hemorrhagic fever viruses:arena, filo, bunya, hanta	Hunt
7	Monday	11:00	Video: "Ebola:The plague fighters" (1996) [quiz, 0.1%]	Hunt
		1:00	Human arboviruses, including West Nile	Hunt
		2:00	Clinical case discussion [0.1%]	Smock
		3:00-3:30	<i>Bacillus anthracis</i>	Miller
			(Optional: POPS "Immundeficiency Disease")	

8 Tuesday 1:00 Bacterial zoonoses (Not covered elsewhere) Miller

SUMMATION AND REVIEW

2:00 Viral vectors for human gene therapy (retrovirus
Adenovirus, lentivirus and parvovirus) Hunt

DECEMBER

9 Wednesday 1:00 *POPS: Opportunistic infections*
2:00 *POPS: Opportunistic infections* Streips
10 Thursday 8:00 **QUIZ VI (10pts) AND RETAKE (5pts)**
11 Friday 10:00 *Letitia Kimsey Lecture-medical microbiology* Huang
11:00 *Letitia Kimsey Lecture-medical microbiology(0.4%)*Huang
1:00 *Letitia Kimsey Lecture-vaccines* Marshall
2:00 *Letitia Kimsey Lecture-vaccines* Marshall
3:00 *Letitia Kimsey Lecture-vaccines* (0.6%) Marshall

STUDY WEEK AND BLOCK EXAMINATION 3 Friday December 18