

# Microbiology

STARTING DATE: \_\_\_\_\_

RATING: ☆☆☆☆☆

## HIGH YIELD TOPICS:

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## PART 1: BASIC BACTERIOLOGY

- NORMAL FLORA
- BACTERIAL STRUCTURE
- VIRULENCE FACTORS
- GRAM STAIN
- GRAM STAIN LIMITATIONS
- MICROBIAL CULTURE
- OXYGEN REQUIREMENT
- INTRACELLULAR BACTERIA
- EXTRACELLULAR BACTERIA
- ENCAPSULATED BACTERIA
- TOXINS
- BACTERIAL GROWTH

## PART 1: BASIC BACTERIOLOGY

- BACTERIAL GENETICS
- BACTERIAL VIRUSES
- TRANSFORMATION
- CONJUGATION
- TRANSDUCTION
- TRANSPOSITION
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## PART 2: GRAM POSITIVE BACTERIA

- STAPHYLOCOCCUS AUREUS
- STAPHYLOCOCCUS EPIDERMIDIS
- STAPHYLOCOCCUS SAPROPHYTICUS
- STREPTOCOCCUS PYOGENES
- STREPTOCOCCUS AGALACTIAE
- VIRIDANS STREPTOCOCCI
- STREPTOCOCCUS PNEUMONIAE
- ENTEROCOCCUS FAECALIS/ FAECIUM
- NON ENTEROCOCCAL (S. BOVIS)
- BACILLUS ANTHRAX
- BACILLUS CEREUS
- CLOSTRIDIUM TETANI

## PART 2: GRAM POSITIVE BACTERIA

- CLOSTRIDIUM BOTULINUM
- CLOSTRIDIUM PERFRINGENS
- CLOSTRIDIUM DIFFICILE
- LISTERIA MONOCYTOGENES
- CORYNEBACTERIUM DIPHTHERIAE
- ACTINOMYCES ISRAELII
- NOCARDIA ASTEROIDES & BRASILIENSIS
- MYCOBACTERIUM TUBERCULOSIS
- MYCOBACTERIA LEBRAE
- \_\_\_\_\_
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## PART 3: GRAM NEGATIVE BACTERIA

- NEISSERIA MENINGITIDIS
- NEISSERIA GONORRHOEAE
- MORAXELLA CATARRHALIS
- HAEMOPHILUS INFLUENZAE
- HAEMOPHILUS DUCREYI
- PASTEURELLA MULTOCIDA
- FRANCISELLA TULARENSIS
- BORDETALLA PERTUSSIS
- BRUCELLA SPECIES
- LEGIONELLA PNEUMOPHILA
- CAMPYLOBACTER JEJUNI
- HELICOBACTER PYLORI

## PART 3: GRAM NEGATIVE BACTERIA

- VIBRIO CHOLERAEE
- PSEUDOMONAS AERUGINOSA
- SHIGELLA SPECIES
- YERSINIA PESTIS
- YERSINIA ENTEROCOLITICA
- SALMONELLA ENTERICA SUBSP
- PROTEUS MIRABILIS & VULGARIS
- ESCHERICHIA COLI
- KLEBSIELLA PNEUMONIAE
- GARDNERELLA VIGNALIS
- BACTEROIDES FRAGILIS
- TREPONEMA PALLIDUM

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## PART 3: GRAM NEGATIVE BACTERIA

- SYPHILIS
- LEPTOSPIRA INTERROGANS
- BORRELIA BURGDORFERI
- LYME DISEASE
- BORRELIA RECUURENTIS
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## PART 4: UNUSUAL BACTERIA

- CHLAMYDIA TRACHOMATIS
- CHILAMYDOPHOILA
- RICKETTSIA
- MYCOPLASMA PNEUMONIA
- UREAPLASMA UREALYTICUM
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## PART 5: MYCOLOGY

- NON-SYSTEMIC FUNGAL INFECTION
- FUNGAL MORPHOLOGY
- MALASSEZIA FURFUR
- DERMATOPHYTES
- SUBCUTANEOUS MYCOSES
- SYSTEMIC FUNGAL INFECTIONS
- HISTOPLASMA CAPSULATUM
- COCCIDIODES IMMITIS
- BLASTOMYCES DERMATITIDIS
- PARACOCCIDIODES BRASILIENSIS
- OPPORTUNISTIC FUNGI
- ASPERGILLUS FUMIGATUS

## PART 5: MYCOLOGY

- CANDIDA ALBICANS
- CRYPTOCOCCUS NOEFORMANS
- MUCOR , RHIZOPUS , ABSIDIA
- PNEUMOCYSTIS JIRIVECII
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## PART 6: PARASITOLOGY

### GI INFECTIONS

- GIARDIA LAMBLIA
- ENTAMOEBIA HISTOLYTICA
- CRYPTOSPORIDIUM

### CNS INFECTIONS

- TOXOPLASMA GONDII
- NAEGLERIA FOWLERI
- TRYPANOSOMA BRUCEI

### HEMATOLOGIC INFECTIONS

- PLASMODIUM
- MALARIA
- BABESIA

## PART 6: PARASITOLOGY

### VISCERAL INFECTIONS

- TRYPANOSOMA CRUZI
- LEISHMANIA DONOVANI

### SEXUALLY TRANSMITTED INFECTIONS

- TRICHOMONAS VAGINALIS:

### NEMATODES

### INTESTINAL INFECTIONS

- ENTEROBIUS VERMICULARIS (PINWORM)
- ASCARIS LUMBRICOIDES (ROUNDWORM)
- STRONGYLOIDES STERCORALIS
- HOOKWORMS
- TRICHINELLA SPIRALIS

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## PART 6: PARASITOLOGY

- TISSUE INFECTION** \_\_\_\_\_
- ONCHOCERCA VOLVULUS \_\_\_\_\_
- LOA LOA \_\_\_\_\_
- WUCHERERIA BANCROFTI \_\_\_\_\_
- TOXOCARA CANIS \_\_\_\_\_
- CESTODES ( TAPEWORMS )** \_\_\_\_\_
- TAENIA SOLIUM \_\_\_\_\_
- DIPHYLLOBOTHRIUM LATUM \_\_\_\_\_
- ECHINOCOCCUS GRANULOSUS \_\_\_\_\_
- TREMATODES ( FLUKES )** \_\_\_\_\_
- SCHISTOSOMA \_\_\_\_\_
- CLONORCHIS SINENSIS \_\_\_\_\_

## PART 6: PARASITOLOGY

- ECTOPARASITES** \_\_\_\_\_
- SARCOPTES SCABIEI \_\_\_\_\_
- PEDICULUS HUMANUS/ PHTHIRUS PUBIS \_\_\_\_\_
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## PART 7: VIROLOGY

- NATURE OF HUMAN VIRUSES
- DNA VIRUSES**
- PARVOVIRUS (B19)
- HUMAN PAPILOMA VIRUS (HPV)
- BK VIRUS
- JC VIRUS
- ADENOVIRUS
- HEPADNAVIRIDAE
- HSV-1 AND HSV-2
- VARICELLA ZOSTER VIRUS (HHV-3)
- EPSTEIN- BARR VIRUS (HHV-4)
- CYTOMEGALOVIRUS (HHV-5)

## PART 7: VIROLOGY

- HUMAN HERPESIVIRUSES 6 ANS 7
- HHV-8
- VARIOLA/ SMALLPOX
- MOLLUSCUM CONTAGIOSUM
- RNA VIRUSES**
- NOROVIRUS
- HEPERIRIDAE
- ENTEROVIRUSES
- POLIO VIRUS
- COXSACKIEVIRUS
- ECHOVIRUSES
- RHINOVIRUSES

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## PART 7: VIROLOGY

- HEPARNAVIRUSES
- FLAVIRIDAE
- YELLOW FEVER
- DENGUA VIRUS
- ZIKA VIRUS
- CHIKUNGUNYA VIRUS
- RUBELLA VIRUS
- CORONAVIRUS
- SARS-COV
- HUMAN IMMUNODEFICIENCY VIRUS
- MEASLES VIRUS
- MUMPS VIRUS

## PART 7: VIROLOGY

- PARAINFLUENZA
- RESPIRATORY SYNCTIAL VIRUS (RSV)
- RABIES VIRUS
- EBOLA VIRUS
- INFLUENZA VIRUS
- BUNYAVIRIDAE
- ARENAVIRIDAE
- REOVIRIDAE
- ROTAVIRUS
- HEPATITIS A VIRUS
- HEPATITIS B VIRUS
- HEPATITIS C VIRUS

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## PART 7: VIROLOGY

- HEPATITIS D VIRUS \_\_\_\_\_
- HEPATITIS E VIRUS \_\_\_\_\_
- VIRAL GENETICS** \_\_\_\_\_
- RECOMBINATION \_\_\_\_\_
- REASSORTMENT \_\_\_\_\_
- COMPLEMENTATION \_\_\_\_\_
- PHENOTYPIC MIXING \_\_\_\_\_
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## PART 8: ANTIBIOTICS

### **INHIBITORS OF CELL WALL SYNTHESIS**

- PENICILLINS \_\_\_\_\_
- B-LACTAMASE INHIBITORS \_\_\_\_\_
- CEPHALOSPORINS \_\_\_\_\_
- IMIPENEM AND MEROPENEM (PENEMS) \_\_\_\_\_
- MONOBACTAM \_\_\_\_\_
- VANCOMYCIN \_\_\_\_\_

### **INHIBITORS OF BACTERIA PROTEIN SYNTHESIS**

- AMINOGLYCOSIDE \_\_\_\_\_
- TETRACYCLINES \_\_\_\_\_
- GLYCYLTYCINE \_\_\_\_\_
- CHLORAMPHENICOL \_\_\_\_\_

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## PART 8: ANTIBIOTICS

- CLINDAMYCIN \_\_\_\_\_
- MACROLIDE \_\_\_\_\_
- OXAZOLIDINONES \_\_\_\_\_
- INHIBITORS OF NUCLEIC ACID SYNTH.** \_\_\_\_\_
- SULFONAMIDES \_\_\_\_\_
- DAPSONE \_\_\_\_\_
- TRIMETHOPRIM \_\_\_\_\_
- QUINOLONES \_\_\_\_\_
- UNCLASSIFIED ANTIBIOTIC** \_\_\_\_\_
- METRONIDAZOLE \_\_\_\_\_
- POLYMYXINS \_\_\_\_\_
- \_\_\_\_\_

## PART 8: ANTIBIOTICS

- ANTITUBERCULAR DRUGS** \_\_\_\_\_
- RIFAMYCINS \_\_\_\_\_
- ISONIAZID \_\_\_\_\_
- PYRAZINAMID \_\_\_\_\_
- ETHAMBUTOL \_\_\_\_\_
- ANTIFUNGAL THERAPY** \_\_\_\_\_
- AMPHOTERICIN B \_\_\_\_\_
- NYSTATIN \_\_\_\_\_
- AZOLES \_\_\_\_\_
- FLUCYTOSINE \_\_\_\_\_
- TERBINAFINE \_\_\_\_\_
- ECHINOCANDIN \_\_\_\_\_

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### PART 8: ANTIBIOTICS

- GRISEOFULVIN
- ANTIPROTOZOAL THERAPY
- ANTHELMINTHIC THERAPY
- ANTIMALARIAL DRUGS
- CHLOROQUINE
- ANTI-MITE/LOUSE THERAPY
- ANTIVIRAL THERAPY**
- ACYCLOVIR , FAMCICLOVIR,...
- GANCICLOVIR
- FOSCARNET
- CIDOFAVIR
- AMANRADINE

### PART 8: ANTIBIOTICS

- ZANAMIVIR AND OSELTAMVIR
- REMDESIVIR
- HIV THERAPY
- HEPATITIS C THERAPY
- INTERFERONS
- INFECTION CONTROL TECHNIQUES
- ANTIBIOTICS TO AVOID IN PREGNANCY
- ANTIMICROBIAL PROPHYLAXIS
- \_\_\_\_\_
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