

➤ Classification of Clinically Significant Bacteria by Genus

Organisms unable to grow on artificial medium:

- Obligate intracellular: Coxiella, Chlamydia, Legionella, Ehrlichia
- No cell wall: Mycoplasma, Ureaplasma
- Spirochetes: Borrelia, Leptospira, Treponema, Rickettsia

GRAM POSITIVE BACTERIA				
Cocci		Bacilli		
Aerobic	Anaerobic	Aerobic	Anaerobic	
Enterococcus Staphylococcus Streptococcus Micrococcus	Peptococcus Peptostreptococcus Microaerophilic Streptococcus	Bacillus Corynebacterium (diphtheroids) Listeria Nocardia (partially acid fast) Gardnerella Lactobacillus	Actinomyces Clostridium Propionibacterium	
GRAM NEGATIVE BACTERIA				
Cocci		Coccobacillus	Bacilli	
Aerobic	Anaerobic	Aerobic	Aerobic	Anaerobic
Moraxella Neisseria	Veillonella	Haemophilus Acinetobacter spp HACEK organisms	Lactose fermenter/oxidase – • Enterobacteriaceae family* Nonlactose fermenter/oxidase + • Pseudomonas • Burkholderia • Vibrio • Campylobacter • Aeromonas Nonlactose fermenter/oxidase – • Shigella • Salmonella • Proteus • Stenotrophomonas • Acinetobacter	Bacteroides Fusobacterium Prevotella

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* Enterobacteriaceae family: Citrobacter, Serratia, Enterobacter, Escherichia, Klebsiella, Morganella

General Spectrum of Antibiotics

