

## Pathogenic Organisms According to Body System<sup>1</sup>:

System	Disease	Possible Causative Organism [c] = community acquired infection [n] = nosocomial infection (acquired in a hospital)
Central Nervous System	Meningitis	Coagulase negative <i>Staphylococci</i> , <i>Staph. aureus</i> , <i>Strep. agalactiae</i> , <i>Strep. pneumoniae</i> , <i>Haemophilus influenzae</i> , <i>Listeria monocytogenes</i> , <i>Mycobacterium tuberculosis</i> , <i>Neisseria meningitidis</i> , <i>Pseudomonas aeruginosa</i> , <i>E. coli</i> , <i>Klebsiella</i> spp., Gram negative bacilli, Anaerobic bacteria, Coxsackievirus
Eye	Conjunctivitis	<i>Haemophilus influenzae</i> , <i>Strep. pneumoniae</i> , <i>Staph. aureus</i> , <i>Moraxella lacunata</i> , <i>Mycobacterium tuberculosis</i> , <i>Francisella tularensis</i> , <i>Treponema pallidum</i> , <i>Yersinia enterocolitica</i> , Fungi, Foreign body
Eye	Blepharitis	<i>Staph. aureus</i> , <i>Staph. epidermidis</i> , Herpes Simplex Virus, <i>Phthirus pubis</i>
Gastrointestinal tract	Diarrhea	<i>Salmonella</i> spp., <i>Shigella</i> spp., <i>E. coli</i> , <i>B. cereus</i> , <i>Staph. aureus</i> , <i>Campylobacter</i> spp., <i>Clostridium difficile</i> , <i>Vibrio</i> spp., <i>Yersinia enterocolitica</i> , <i>Ascaris lumbricoides</i> , <i>Cryptosporidium parvum</i> , <i>Cyclospora</i> spp., <i>Entamoeba histolytica</i> , <i>Giardia lamblia</i> , Enterovirus, Norwalk agent (calicivirus), Rotavirus
Genitourinary tract	Urinary tract infection (uti) and urethritis	<i>Pseudomonas aeruginosa</i> [n], <i>Proteus mirabilis</i> [c,n], <i>Staph. saprophyticus</i> [c], <i>Enterococcus</i> spp. [n], <i>Enterobacter</i> spp., <i>Escherichia coli</i> [c,n], <i>Klebsiella pneumoniae</i> [c,n], <i>Chlamydia trachomatis</i> , <i>Candida</i> spp., <i>Neisseria gonorrhoeae</i> , <i>Morganella morganii</i>
Respiratory tract	Lung abscess	<i>K. pneumoniae</i> , <i>Actinomyces</i> spp. (from aspiration)
Respiratory tract	Pneumonia	<i>Chlamydia</i> spp., <i>Strep. pneumoniae</i> [c], <i>Strep. agalactiae</i> , <i>Strep. pyogenes</i> , <i>Staph. aureus</i> [n], Enterobacteriaceae including <i>E. coli</i> [n], <i>Pseudomonas aeruginosa</i> [n], <i>Klebsiella pneumoniae</i> [c,n], <i>Haemophilus influenzae</i> , <i>Mycoplasma pneumoniae</i> , <i>Neisseria meningitidis</i> , <i>Nocardia</i> spp., <i>Aspergillus</i> spp., Non-fermenting Gram negative bacilli [n], and many more including fungi, bacteria, parasites and viruses.
Respiratory tract	Bronchitis	<i>Strep. pneumoniae</i> [c], <i>Strep. pyogenes</i> [c], <i>Staph. aureus</i> [c,n], <i>P. aeruginosa</i> [n]
Skin and Soft Tissue	Skin infections	<i>Pseudomonas aeruginosa</i> , <i>Staph. aureus</i> , <i>Strep. pyogenes</i> , <i>Strep. agalactiae</i> , <i>Pasteurella multocida</i> , <i>Candida albicans</i> (diaper rash), <i>Cryptococcus neoformans</i> , <i>Mycobacterium smegmatis</i> , Enteroviruses
Systemic	Endocarditis	<i>Staph. aureus</i> , <i>Strep. pneumoniae</i> , <i>Strep. Viridans</i>
Sytemic	Bacteremia	Coagulase negative <i>Staphylococcus</i> , <i>Staph. aureus</i> , <i>Strep. pyogenes</i> , <i>Strep. pneumoniae</i> , <i>Enterococcus</i> spp., <i>Enterobacter</i> spp., <i>E. coli</i> , <i>Klebsiella pneumoniae</i> , <i>Proteus mirabilis</i> , <i>Pseudomonas aeruginosa</i> , <i>Salmonella typhi</i> , <i>Acinetobacter</i> spp., <i>Francisella tularensis</i> , <i>Neisseria meningitidis</i> , <i>Pasteurella multocida</i> , <i>Yersinia pestis</i> , <i>Candida</i> spp., <i>Mycobacterium smegmatis</i>

<sup>1</sup> Adapted from:

Gilligan, P.H. et.al. Cases in Medical Microbiology and Infectious Diseases. 2nd ed. American Society for Microbiology, Washington, D.C. 1997.

Murray, Patrick R. Editor. Manual of Clinical Microbiology. 8th ed. ASM Press. Washington, D.C. 2003

Strohl, W.A. et.al. Lippincott's Illustrated Reviews: Microbiology. Lippincott Williams & Wilkins. Baltimore, MD. 2001