

# Classification of Microorganisms

## Distinguishing between pathogenic, opportunistic, and normal flora organisms

### Respiratory

#### Pathogenic — Not considered normal flora.

Adenovirus  
Bordetella pertussis, parapertussis, bronchiseptica  
Chlamydia pneumoniae  
Coronavirus (229E, NL63, OC43, and HKU1)  
COVID-19 Coronavirus (SARS-CoV-2)  
Enterovirus D68  
Epstein-Barr virus (Human Herpesvirus 4)  
Human metapneumovirus  
Influenza virus A, B  
Measles  
Mycoplasma pneumoniae  
Parainfluenza virus (types 1,2,3,4)  
Respiratory syncytial virus  
Rhinovirus / Enterovirus  
Streptococcus pyogenes (Group A Strep)

#### Colonizer — Can become pathogenic. Interpret within the context of clinical signs and symptoms.

Fusobacterium nucleatum, necrophorum  
Haemophilus influenzae  
Moraxella catarrhalis  
Streptococcus dysgalactiae (Group C/G Strep)  
Streptococcus pneumoniae

### Genitourinary

#### Pathogenic — Not considered normal flora.

Chlamydia trachomatis  
Haemophilus ducreyi (Chancroid)  
Herpes simplex virus 1  
Herpes simplex virus 2  
Mpox (Monkeypox)  
Mycoplasma genitalium  
Neisseria gonorrhoeae  
Treponema pallidum (Syphilis)  
Trichomonas vaginalis

#### Colonizer — Can become pathogenic. Interpret within the context of clinical signs and symptoms.

Bacterial Vaginosis (Fannyhessea (Atopobium) vaginae, BVAB species, Gardnerella vaginalis, Megasphaera)  
Candida albicans, parapsilosis, tropicalis  
Candida dubliniensis  
Candida glabrata  
Candida krusei  
Mycoplasma hominis  
Ureaplasma parvum  
Ureaplasma urealyticum

### Urinary Tract Infection

#### Pathogenic — Not considered normal flora.

Chlamydia trachomatis  
Citrobacter freundii  
Enterococcus faecalis, faecium  
Escherichia coli  
Klebsiella pneumoniae, oxytoca  
Mycoplasma genitalium  
Neisseria gonorrhoeae  
Proteus mirabilis, vulgaris  
Pseudomonas aeruginosa  
Serratia marcescens  
Staphylococcus aureus  
Staphylococcus saprophyticus  
Trichomonas vaginalis

#### Colonizer — Can become pathogenic. Interpret within the context of clinical signs and symptoms.

Mycoplasma hominis  
Streptococcus agalactiae (Group B Strep)  
Ureaplasma parvum  
Ureaplasma urealyticum

#### Opportunistic — Uncommon outside of immunocompromised patients or a hospital care setting.

Acinetobacter baumannii  
Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes  
Candida albicans, parapsilosis, tropicalis  
Candida glabrata (Nakaseomyces glabratus)  
Candida krusei (Pichia kudriavzevii)  
Staphylococcus epidermidis, haemolyticus, lugdunensis

