

Infectious Disease Syndromic Menu

NOT TYPICALLY DETECTED BY CULTURE

◆ Fungal
 ◆ Protozoal
 ◆ Slow Growing
 ◆ Streptococcus Species
 ◆ Anaerobe
 ◆ Not Typically Tested by Culture



COMMON BACTERIAL/VIRAL RESPIRATORY INFECTION

PANEL DESCRIPTION: Consider if patient presents with symptoms of an upper respiratory tract infection, including cough, moderate temperature elevation, and mucopurulent sputum.

BACTERIA

Bordetella pertussis, parapertussis, bronchiseptica
Chlamydia pneumoniae
 Haemophilus influenzae
 Moraxella catarrhalis

Mycoplasma pneumoniae
Streptococcus pneumoniae

VIRUS

Adenovirus HAdV-B
 COVID-19 Coronavirus (SARS-CoV-2)
 Enterovirus D68

Human metapneumovirus
 Influenza virus A, B
 Coronaviruses (229E, NL63, HKU1, OC43)
 Parainfluenza virus (types 1, 2, 3, 4)
 Respiratory syncytial virus
 Rhinovirus/Enterovirus

RESISTANCE

dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 tet B, tet M

+ **ADD-ON:** Epstein-Barr Virus (Human Herpesvirus 4)



TREATABLE RESPIRATORY VIRUSES

PANEL DESCRIPTION: Consider if patient presents with an acute upper respiratory tract infection, high grade fever, acute cough, runny nose, pain in throat, wheezing, nasal congestion, shortness of breath, malaise.

COVID-19 Coronavirus (SARS-CoV-2)

Influenza virus A, B

Respiratory syncytial virus



EXTENDED RESPIRATORY VIRAL/ACUTE RHINOSINUSITIS

PANEL DESCRIPTION: Consider for pediatric or complex immunocompromised patient with concern of communicable virus or meningitis, presenting with an Acute Upper Respiratory Tract Infection.

Adenovirus HAdV-B
 Coronavirus (229E, NL63, OC43, and HKU1)
 COVID-19 Coronavirus (SARS-CoV-2)

Enterovirus D68
 Human metapneumovirus
 Influenza virus A, B

Parainfluenza virus (types 1, 2, 3, 4)
 Respiratory syncytial virus
 Rhinovirus/Enterovirus



ACUTE OTITIS MEDIA/MASTOIDITIS

PANEL DESCRIPTION: Consider if patient presents with Acute Otitis Media Ear pain, decreased or muffled hearing & bulging eardrum, drainage from ear. Or if patient presents with Mastoiditis or redness or swelling behind ear lobe, fever, ear pain, headache, hearing loss.

BACTERIA

Enterobacter cloacae complex,
 Klebsiella (Enterobacter) aerogenes
 Haemophilus influenzae
 Klebsiella pneumoniae, oxytoca
 Moraxella catarrhalis
Mycoplasma pneumoniae
 Proteus mirabilis, vulgaris

Pseudomonas aeruginosa
 Staphylococcus aureus
Streptococcus pneumoniae
Streptococcus pyogenes (Group A Strep)

VIRUS

Adenovirus HAdV-B
 COVID-19 Coronavirus (SARS-CoV-2)
 Enterovirus D68

Human metapneumovirus
 Influenza virus A, B
 Coronaviruses (229E, NL63, HKU1, OC43)
 Enterovirus D68
 Respiratory syncytial virus
 Rhinovirus/Enterovirus

RESISTANCE

CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
 dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 IMP, NDM, VIM Groups
 mecA
 qnrA1, A2, B2
 SHV, KPC Groups
 tet B, tet M



PHARYNGITIS/LARYNGITIS

PANEL DESCRIPTION: Consider if patient presents with pain in throat, fever, pharyngeal edema, patchy tonsillar exudates, tender/swollen anterior cervical lymph nodes.

BACTERIA

Chlamydia pneumoniae
Mycoplasma pneumoniae
Streptococcus pyogenes (Group A Strep)

VIRUS

Adenovirus HAdV-B
 COVID-19 Coronavirus (SARS-CoV-2)
 Enterovirus D68
 Human metapneumovirus

Influenza virus A, B
 Coronaviruses (229E, NL63, HKU1, OC43)
 Parainfluenza virus (types 1, 2, 3, 4)
 Respiratory syncytial virus
 Rhinovirus/Enterovirus

RESISTANCE

dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 tet B, tet M

+ **ADD-ON:** *Chlamydia trachomatis*, Epstein-Barr Virus (Human Herpesvirus 4), *Neisseria gonorrhoeae*



BRONCHITIS/BRONCHIOLITIS/PNEUMONIA

PANEL DESCRIPTION: Consider if patient presents with upper respiratory tract infection, high grade fever, dyspnea, cough, sputum production, hypoxia & chest X-ray opacity.

BACTERIA

Acinetobacter baumannii
Bordetella pertussis, parapertussis, bronchiseptica
Chlamydia pneumoniae
 Enterobacter cloacae complex,
 Klebsiella (Enterobacter) aerogenes
 Escherichia coli
 Haemophilus influenzae
 Klebsiella pneumoniae, oxytoca
 Legionella pneumophila

Moraxella catarrhalis
Mycoplasma pneumoniae
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
 Serratia marcescens
 Staphylococcus aureus
Streptococcus agalactiae (Group B Strep)
Streptococcus pneumoniae
Streptococcus pyogenes (Group A Strep)

VIRUS

Adenovirus HAdV-B
 COVID-19 Coronavirus (SARS-CoV-2)
 Enterovirus D68
 Human metapneumovirus
 Influenza virus A, B
 Coronaviruses (229E, NL63, HKU1, OC43)
 Parainfluenza virus (types 1, 2, 3, 4)
 Respiratory syncytial virus
 Rhinovirus/Enterovirus

RESISTANCE

ACT, MIR, FOX, ACC Groups
 CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
 dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 IMP, NDM, VIM Groups
 mecA
 OXA-48, OXA-51
 qnrA1, A2, B2
 SHV, KPC Groups
 tet B, tet M

+ **ADD-ON:** *Chlamydia trachomatis*, *Mycobacterium tuberculosis*, *Neisseria gonorrhoeae*

Infectious Disease Syndromic Menus

NOT TYPICALLY DETECTED BY CULTURE

◆ Fungal
 ◆ Protozoal
 ◆ Slow Growing
 ◆ Streptococcus Species
 ◆ Anaerobe
 ◆ Not Typically Tested by Culture



URINARY TRACT INFECTION

PANEL DESCRIPTION: Consider if patient presents with dysuria, hematuria, urgency of urination, frequency of micturition, bacteriuria, or pain of micturition.

| | | | |
|--|--|---|---|
| Acinetobacter baumannii Citrobacter freundii Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes Enterococcus faecalis, faecium Escherichia coli Klebsiella pneumoniae, oxytoca Morganella morganii | Proteus mirabilis, vulgaris Pseudomonas aeruginosa Serratia marcescens Staphylococcus aureus Staphylococcus epidermidis, haemolyticus, lugdunensis, saprophyticus Streptococcus agalactiae (Group B Strep) Streptococcus pyogenes (Group A Strep) | FUNGI Candida albicans, parapsilosis, tropicalis Candida glabrata Candida krusei RESISTANCE ACT, MIR, FOX, ACC Groups CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups dfr (A1, A5), sul (1, 2) | ermB, C; mefA IMP, NDM, VIM Groups mecA OXA-48, OXA-51 qnrA1, A2, B2 SHV, KPC Groups tet B, tet M VanA, VanB |
|--|--|---|---|



URINARY TRACT INFECTION + HIGH RISK SEXUAL BEHAVIOR

PANEL DESCRIPTION: Consider if patient presents with dysuria, hematuria, urgency of urination, frequency of micturition, bacteriuria, pain of micturition, and high risk sexual behavior.

| | | | |
|---|--|--|--|
| Acinetobacter baumannii Chlamydia trachomatis Citrobacter freundii Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes Enterococcus faecalis, faecium Escherichia coli Klebsiella pneumoniae, oxytoca Morganella morganii Mycoplasma genitalium, hominis | Neisseria gonorrhoeae Proteus mirabilis, vulgaris Pseudomonas aeruginosa Serratia marcescens Staphylococcus aureus Staphylococcus epidermidis, haemolyticus, lugdunensis, saprophyticus Streptococcus agalactiae (Group B Strep) Streptococcus pyogenes (Group A Strep) Trichomonas vaginalis | Ureaplasma urealyticum, parvum FUNGI Candida albicans, parapsilosis, tropicalis Candida glabrata Candida krusei RESISTANCE ACT, MIR, FOX, ACC Groups CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups dfr (A1, A5), sul (1, 2) ermB, C; mefA | IMP, NDM, VIM Groups mecA OXA-48, OXA-51 qnrA1, A2, B2 SHV, KPC Groups tet B, tet M VanA, VanB |
|---|--|--|--|



GENITOURINARY INFECTION

PANEL DESCRIPTION: Consider if patient presents with dysuria, hematuria, urgency of urination, frequency of micturition, fever, abdominal pain.

| | | | |
|--|---|---|---|
| Acinetobacter baumannii Atopobium vaginae BVAB2,3 (Bacterial vaginosis associated bacteria 2,3); Mobiluncus spp Chlamydia trachomatis Citrobacter freundii Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes Enterococcus faecalis, faecium Escherichia coli Gardnerella vaginalis Klebsiella pneumoniae, oxytoca Megasphaera (types 1, 2) | Morganella morganii Mycoplasma genitalium, hominis Neisseria gonorrhoeae Proteus mirabilis, vulgaris Pseudomonas aeruginosa Serratia marcescens Staphylococcus aureus Staphylococcus epidermidis, haemolyticus, lugdunensis, saprophyticus Streptococcus agalactiae (Group B Strep) Streptococcus pyogenes (Group A Strep) Trichomonas vaginalis Ureaplasma urealyticum, parvum | FUNGI Candida albicans, parapsilosis, tropicalis Candida glabrata Candida krusei RESISTANCE ACT, MIR, FOX, ACC Groups CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups dfr (A1, A5), sul (1, 2) ermB, C; mefA IMP, NDM, VIM Groups mecA OXA-48, OXA-51 qnrA1, A2, B2 | SHV, KPC Groups tet B, tet M VanA, VanB ADD-ON GENITAL LESION Haemophilus ducreyi (Chancroid) Treponema pallidum (Syphilis) Herpes simplex virus 1 Herpes simplex virus 2 Mpox (Monkeypox) |
|--|---|---|---|

+ **ADD-ON:** High Risk HPV types 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 67, 68, 69, 70, 73, 82



URETHRITIS/DISCHARGE

PANEL DESCRIPTION: Consider if patient has pain with urination, pruritus, burning, and discharge.

| | | | |
|--|--|--|--|
| BACTERIA Chlamydia trachomatis Mycoplasma genitalium, hominis | Neisseria gonorrhoeae Trichomonas vaginalis Ureaplasma urealyticum, parvum | VIRUS Herpes simplex virus 1 Herpes simplex virus 2 | RESISTANCE dfr (A1, A5), sul (1, 2) ermB, C; mefA tet B, tet M |
|--|--|--|--|



VAGINITIS

PANEL DESCRIPTION: Consider if patient presents with vaginal discharge, odor, itching, and/or discomfort, Bacterial Vaginosis, VulvoVaginal Candidiasis.

| | | | |
|---|--|--|--|
| VIRUS Atopobium vaginae BVAB2,3 (Bacterial vaginosis associated bacteria 2,3); Mobiluncus spp Candida albicans, parapsilosis, tropicalis | Candida glabrata Candida krusei Chlamydia trachomatis Gardnerella vaginalis Herpes simplex virus 1 | Herpes simplex virus 2 Megasphaera (types 1, 2) Neisseria gonorrhoeae Trichomonas vaginalis | RESISTANCE dfr (A1, A5), sul (1, 2) ermB, C; mefA tet B, tet M |
|---|--|--|--|

+ **ADD-ON:** High Risk HPV types 16, 18, 26, 31, 33, 35, 39, 45, 51, 52, 53, 56, 58, 59, 66, 67, 68, 69, 70, 73, 82

Infectious Disease Syndromic Menus

NOT TYPICALLY DETECTED BY CULTURE

◆ Fungal
 ◆ Protozoal
 ◆ Slow Growing
 ◆ Streptococcus Species
 ◆ Anaerobe
 ◆ Not Typically Tested by Culture

♀ URETHRITIS/DISCHARGE + VAGINITIS

PANEL DESCRIPTION: Consider if patient has pain with urination, pruritus, burning, urethra discharge, vaginal discharge, odor, itching, and/or discomfort.

VIRUS

Atopobium vaginae
BVAB2,3 (Bacterial vaginosis associated bacteria 2,3); Mobiluncus spp
Candida albicans, parapsilosis, tropicalis

Candida glabrata
Candida krusei
Chlamydia trachomatis
Gardnerella vaginalis
Herpes simplex virus 1

Herpes simplex virus 2
Megaspheara (types 1, 2)
Mycoplasma genitalium, hominis
Neisseria gonorrhoeae
Trichomonas vaginalis

Ureaplasma urealyticum, parvum
RESISTANCE
dfr (A1, A5), sul (1, 2)
ermB, C; mefA
tet B, tet M

♀ GENITAL LESION

PANEL DESCRIPTION: Consider if patient presents with genital ulcer.

BACTERIA

Chlamydia trachomatis
Haemophilus ducreyi (Chancroid)
Treponema pallidum (Syphilis)

VIRUS

Herpes simplex virus 1
Herpes simplex virus 2
Mpox (Monkeypox)

RESISTANCE

dfr (A1, A5), sul (1, 2)
ermB, C; mefA
tet B, tet M

♀ PELVIC INFLAMMATORY DISEASE

PANEL DESCRIPTION: Consider if patient presents with lower abdominal pain, abnormal vaginal bleeding, urinary frequency, vaginal discharge.

Actinomyces israelii
Chlamydia trachomatis
Mycoplasma genitalium, hominis

Neisseria gonorrhoeae
Treponema pallidum (Syphilis)

RESISTANCE

dfr (A1, A5), sul (1, 2)
ermB, C; mefA
tet B, tet M

♀ PROCTITIS

PANEL DESCRIPTION: Consider if patient presents with rectal pain, bleeding, and/or bloody or purulent rectal discharge.

BACTERIA

Chlamydia trachomatis
Neisseria gonorrhoeae
Treponema pallidum (Syphilis)

VIRUS

Herpes simplex virus 1
Herpes simplex virus 2
Mpox (Monkeypox)

RESISTANCE

dfr (A1, A5), sul (1, 2)
ermB, C; mefA
tet B, tet M

♀ HIGH RISK SEXUAL BEHAVIOR (ASYMPTOMATIC)

PANEL DESCRIPTION: Consider if patient has high risk heterosexual behavior, high risk homosexual behavior, or suspected exposure to a sexually transmitted infection.

Chlamydia trachomatis

Neisseria gonorrhoeae

Trichomonas vaginalis

♀ GASTROINTESTINAL

PANEL DESCRIPTION: Consider if patient presents with acute diarrhea, +/-nausea, vomiting, fever, or abdominal pain that lasts < 14 days.

BACTERIA

Campylobacter jejuni, coli
Clostridioides difficile (toxins A, B)
Enteroaggregative E coli (EAEC)
Enteroinvasive E coli (EIEC)/Shigella spp
Enteropathogenic E. coli (EPEC)
Enterotoxigenic E coli (ETEC)
Listeria monocytogenes

Salmonella enterica
Shiga toxin-producing E coli (STEC)
Shiga toxin-producing E coli O157 (STEC O157)
Vibrio cholerae, parahaemolyticus, vulnificus
Yersinia enterocolitica

VIRUS

Adenovirus HAdV-F, HAdV-G
Astrovirus, Sapovirus G1, G2

Norovirus (Genogroup 1, 2)
Rotavirus A, B

RESISTANCE

ACT, MIR, FOX, ACC Groups
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
dfr (A1, A5), sul (1, 2)
ermB, C; mefA
IMP, NDM, VIM Groups

mecA
OXA-48, OXA-51
qnrA1, A2, B2
SHV, KPC Groups
tet B, tet M
VanA, VanB

+ ADD-ON:

Candida albicans, parapsilosis, tropicalis
Candida glabrata
Candida krusei

Chlamydia trachomatis
Neisseria gonorrhoeae
Trichomonas vaginalis

Infectious Disease Syndromic Menu

NOT TYPICALLY DETECTED BY CULTURE

 Fungal  Protozoal  Slow Growing  Streptococcus Species  Anaerobe  Not Typically Tested by Culture

GASTROINTESTINAL + PARASITES

PANEL DESCRIPTION: Consider if patient presents with acute diarrhea, +/-nausea, vomiting, fever, or abdominal pain < 14 days.

BACTERIA

Campylobacter jejuni, coli
Clostridioides difficile (toxins A, B)
Enterogastric E coli (EAEC)
Enteroinvasive E coli (EIEC)/Shigella spp
Enteropathogenic E. coli (EPEC)
Enterotoxigenic E coli (ETEC)
Listeria monocytogenes
Salmonella enterica

Shiga toxin-producing E coli (STEC)
Shiga toxin-producing E coli O157 (STEC O157)
Vibrio cholerae, parahaemolyticus, vulnificus
Yersinia enterocolitica

VIRUS

Adenovirus HAoV-F, HAoV-G
Astrovirus, Sapovirus G1, G2
Norovirus (Genogroup 1, 2)
Rotavirus A, B

PARASITES

Cryptosporidium spp (parvum, hominis, felis)
Cyclospora cayentanensis, Cystoisospora belli
Dientamoeba fragilis, Entamoeba histolytica
Giardia lamblia (intestinalis)
Microsporidium (Enterocytozoon bieneusi,
Encephalitozoon intestinalis)

RESISTANCE

ACT, MIR, FOX, ACC Groups
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups

dfr (A1, A5), sul (1, 2)
ermB, C; mefA
IMP, NDM, VIM Groups
mecA
OXA-48, OXA-51
qnrA1, A2, B2
SHV, KPC Groups
tet B, tet M
VanA, VanB

+ ADD-ON:

Candida albicans, parapsilosis, tropicalis
Candida glabrata
Candida krusei
Chlamydia trachomatis
Neisseria gonorrhoeae
Trichomonas vaginalis

ACUTE WOUND/PUSTULAR LESIONS/SKIN ABSCESSSES

PANEL DESCRIPTION: Patient presents with a recent wound resulting from penetrating trauma or an animal or human bite with erythema, edema, heat, purulent exudate and/or pain.

Acinetobacter baumannii
Bacteroides fragilis, vulgatus
Citrobacter freundii
Clostridium perfringens, novyi, septicum
Enterobacter cloacae complex,
Klebsiella (Enterobacter) aerogenes
Escherichia coli

Klebsiella pneumoniae, oxytoca
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
Salmonella enterica
Serratia marcescens
Staphylococcus aureus
Streptococcus agalactiae (Group B Strep)

Streptococcus pyogenes (Group A Strep)
Vibrio cholerae, parahaemolyticus, vulnificus
RESISTANCE
ACT, MIR, FOX, ACC Groups
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
dfr (A1, A5), sul (1, 2)
ermB, C; mefA

IMP, NDM, VIM Groups
mecA
OXA-48, OXA-51
qnrA1, A2, B2
SHV, KPC Groups
tet B, tet M
VanA, VanB

BLISTERING SKIN LESIONS

PANEL DESCRIPTION: Patient presents with fluid-filled lesions on the skin.

VIRUS

Herpes simplex virus 1, 2
Pseudomonas aeruginosa
Staphylococcus aureus
Streptococcus pyogenes (Group A Strep)

Varicella zoster virus (Human Herpesvirus 3)
Vibrio cholerae, parahaemolyticus, vulnificus
RESISTANCE
ACT, MIR, FOX, ACC Groups
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups

dfr (A1, A5), sul (1, 2)
ermB, C; mefA
IMP, NDM, VIM Groups
mecA
OXA-48, OXA-51

qnrA1, A2, B2
SHV, KPC Groups
tet B, tet M
VanA, VanB

+ ADD-ON: Mpox (Monkeypox)

TINEA

PANEL DESCRIPTION: Consider if patient presents with scaly ring-shaped area, itchiness, scaly skin, or noninflamed dermatosis on the body or hair follicle (tinea capitis or tinea barbae).

Candida albicans, glabrata, parapsilosis,
tropicalis
Epidermophyton floccosum

Malassezia furfur, restricta,
sympodialis, globosa
Microsporum audouinii, canis, gypseum

Trichophyton mentagraphophytes,
interdigitale, rubrum, soudanense, terrestre,
tonsurans, verrucosum, violaceum

CHRONIC WOUND/ULCER

PANEL DESCRIPTION: Consider if patient presents with skin erythema, edema, warmth, or cellulitis.

BACTERIA/VIRAL

Acinetobacter baumannii
Bacteroides fragilis, vulgatus
Citrobacter freundii
Clostridium perfringens, novyi, septicum
Corynebacterium jeikeium, striatum,
tuberculoostearicum
Cutibacterium (Propionibacterium) acnes
Enterobacter cloacae complex,
Klebsiella (Enterobacter) aerogenes
Enterococcus faecalis, faecium
Escherichia coli
Haemophilus influenzae
Herpes simplex virus 1, 2

Klebsiella pneumoniae, oxytoca
Mycoplasma genitalium, hominis
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
Salmonella enterica
Serratia marcescens
Staphylococcus aureus
Staphylococcus epidermidis,
haemolyticus, lugdunensis,
saprophyticus
Streptococcus agalactiae (Group B Strep)
Streptococcus pneumoniae
Streptococcus pyogenes (Group A Strep)
Varicella zoster virus (Human Herpesvirus 3)

Vibrio cholerae, parahaemolyticus, vulnificus
FUNGI
Aspergillus flavus, fumigatus, niger, terreus
Candida albicans, glabrata, parapsilosis,
tropicalis
Epidermophyton floccosum
Fusarium oxysporum, solani
Malassezia furfur, restricta, sympodialis,
globosa
Microsporum audouinii, canis, gypseum
Trichophyton mentagraphophytes/
interdigitale, rubrum, soudanense, terrestre,
tonsurans, verrucosum, violaceum
Trichosporon mucoides, asahii

RESISTANCE

ACT, MIR, FOX, ACC Groups
CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
dfr (A1, A5), sul (1, 2)
ermB, C; mefA
IMP, NDM, VIM Groups
mecA
OXA-48, OXA-51
qnrA1, A2, B2
SHV, KPC Groups
tet B, tet M
VanA, VanB

+ ADD-ON: Mpox (Monkeypox)

Infectious Disease Syndromic Menu

NOT TYPICALLY DETECTED BY CULTURE

◆ Fungal
 ◆ Protozoal
 ◆ Slow Growing
 ◆ Streptococcus Species
 ◆ Anaerobe
 ◆ Not Typically Tested by Culture



ONYCHOMYCOSIS

PANEL DESCRIPTION: Minor skin disorder presenting with nail discoloration (yellow, white, or brown), dystrophy (deformed), thickening, onycholysis (separation from nail bed)

Aspergillus flavus, fumigatus, niger, terreus
 Blastomyces dermatitidis
 Candida albicans, glabrata, parapsilosis, tropicalis
 Epidermophyton floccosum
 Fusarium oxysporum, solani
 Malassezia furfur, restricta, sympodialis, globosa

+ **ADD-ON:** Candida auris

Microsporium audouinii, canis, gypseum
 Pseudomonas aeruginosa
 Trichophyton mentagrophytes/
 interdigitale, rubrum, soudanense, terrestre,
 tonsurans, verrucosum, violaceum
 Trichosporon mucoides, asahii

RESISTANCE

ACT, MIR, FOX, ACC Groups
 CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
 dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 IMP, NDM, VIM Groups
 OXA-48, OXA-51
 qnrA1, A2, B2
 SHV, KPC Groups
 tet B, tet M



OPHTHALMOLOGY

PANEL DESCRIPTION: Consider if patient presents with eye pain, eye redness, blurred vision, sensitivity to light, excessive tearing, and/or eye discharge

Acanthamoeba castellanii, polyphaga;
 Vermamoeba (Hartmannella) vermiformis
 Acinetobacter baumannii
 Adenovirus
 Alternaria spp., Curvularia lunata,
 Penicillium spp.
 Aspergillus flavus, fumigatus, niger, terreus
 Bacillus cereus, thuringiensis
 Candida albicans, glabrata, parapsilosis,
 tropicalis
 Chlamydia trachomatis
 Citrobacter freundii
 Cutibacterium (Propionibacterium) acnes
 Cytomegalovirus (Human Herpesvirus 5)

Enterobacter cloacae complex,
 Klebsiella (Enterobacter) aerogenes
 Enterococcus faecalis, faecium
 Enterovirus (pan)
 Epstein-Barr Virus (Human Herpesvirus 4)
 Escherichia coli
 Fusarium oxysporum, solani
 Fusobacterium nucleatum, necrophorum
 Haemophilus influenzae
 Herpes simplex virus 1, 2
 Klebsiella pneumoniae, oxytoca
 Microsporidia (Encephalitozoon hellum,
 cuniculi, Nosema (Vittiforma) oculorum)
 Moraxella catarrhalis

Morganella morganii
 Neisseria gonorrhoeae
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
 Staphylococcus aureus
 Staphylococcus epidermidis,
 haemolyticus, lugdunensis,
 saprophyticus
 Streptococcus agalactiae (Group B Strep)
 Streptococcus pneumoniae
 Streptococcus pyogenes (Group A Strep)
 Varicella zoster virus (Human Herpesvirus 3)

RESISTANCE

ACT, MIR, FOX, ACC Groups
 CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
 dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 IMP, NDM, VIM Groups
 mecA
 OXA-48, OXA-51
 qnrA1, A2, B2
 SHV, KPC Groups
 tet B, tet M
 VanA, VanB



OTOLARYNGOLOGY

PANEL DESCRIPTION: Consider if patient presents with chronic or complicated ear, nose, or throat infection.

Acinetobacter baumannii
 Adenovirus
 Alternaria spp., Curvularia lunata,
 Penicillium spp.
 Aspergillus flavus, fumigatus, niger, terreus
 Bordetella pertussis, parapertussis,
 bronchiseptica
 Candida albicans, glabrata, parapsilosis,
 tropicalis
 Chlamydia trachomatis
 Cutibacterium (Propionibacterium) acnes
 Cytomegalovirus (Human Herpesvirus 5)

Enterobacter cloacae complex,
 Klebsiella (Enterobacter) aerogenes
 Enterococcus faecalis, faecium
 Enterovirus (pan)
 Epstein-Barr Virus (Human Herpesvirus 4)
 Escherichia coli
 Fusarium oxysporum, solani
 Fusobacterium nucleatum, necrophorum
 Haemophilus influenzae
 Herpes simplex virus 1, 2
 Klebsiella pneumoniae, oxytoca
 Moraxella catarrhalis

Neisseria gonorrhoeae
 Parainfluenza virus (types 1, 2, 3, 4)
 Proteus mirabilis, vulgaris
 Pseudomonas aeruginosa
 Staphylococcus aureus
 Staphylococcus epidermidis, haemolyticus,
 lugdunensis, saprophyticus
 Streptococcus agalactiae (Group B Strep)
 Streptococcus pneumoniae
 Streptococcus pyogenes (Group A Strep)
 Varicella zoster virus (Human Herpesvirus 3)

RESISTANCE

ACT, MIR, FOX, ACC Groups
 CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups
 dfr (A1, A5), sul (1, 2)
 ermB, C; mefA
 IMP, NDM, VIM Groups
 mecA
 OXA-48, OXA-51
 qnrA1, A2, B2
 SHV, KPC Groups
 tet B, tet M
 VanA, VanB