

# HealthTrackRx Syndromic Menu, Symptoms and Order Chart

HealthTrackRx is an industry leading infectious disease laboratory providing accurate, targeted molecular diagnostics. With over 4,000,000 samples processed and a turn around time within 24 hours of sample receipt, our technological advances in PCR testing reshape patient care by mobilizing faster clinical decisions and helping providers treat patients quickly and accurately.

### OPHTHALMOLOGY INFECTION

**SAMPLE TYPE:** Eye Swab, Lacrimal Fluid, Vitreous Fluid

<ul style="list-style-type: none"> <li>Acinetobacter baumannii</li> <li>Adenovirus HAdV-B</li> <li>Aspergillus flavus, fumigatus, niger, terreus</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Candida auris</li> <li>Chlamydia pneumoniae</li> <li>Chlamydia trachomatis</li> <li>Coronavirus (229E, NL63, OC43, and HKU1)</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterovirus A,B,C</li> <li>Enterovirus D68</li> <li>Escherichia coli</li> <li>Haemophilus influenzae</li> <li>Herpes simplex virus 1 &amp; 2<sup>1</sup></li> <li>Human metapneumovirus</li> <li>Influenza virus A, B</li> <li>Klebsiella pneumoniae, oxytoca</li> </ul>	<ul style="list-style-type: none"> <li>Moraxella catarrhalis</li> <li>Mycoplasma genitalium, hominis</li> <li>Mycoplasma pneumoniae</li> <li>Neisseria gonorrhoeae</li> <li>Parainfluenza virus (types 1, 2, 3, 4)</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Respiratory syncytial virus</li> <li>Rhinovirus A, C</li> <li>Rhizopus spp., Mucor spp.</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus</li> <li>Staphylococcus spp.<sup>2</sup></li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pneumoniae</li> <li>Streptococcus pyogenes<sup>4</sup></li> <li>Ureaplasma urealyticum, parvum</li> <li>Varicella zoster virus<sup>5</sup></li> </ul>
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### OTOLARYNGOLOGY INFECTION

**SAMPLE TYPE:** Ear Swab, Tympanocentesis Fluid, Nasopharynx Swab, Throat Swab

<ul style="list-style-type: none"> <li>Acinetobacter baumannii</li> <li>Adenovirus HAdV-B</li> <li>Aspergillus flavus, fumigatus, niger, terreus</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Candida auris</li> <li>Chlamydia pneumoniae</li> <li>Chlamydia trachomatis</li> <li>Coronavirus (229E, NL63, OC43, and HKU1)</li> <li>COVID-19 Coronavirus (SARS- CoV-2)</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterovirus A,B,C</li> <li>Enterovirus D68</li> <li>Escherichia coli</li> <li>Haemophilus influenzae</li> <li>Human metapneumovirus</li> <li>Influenza virus A, B</li> </ul>	<ul style="list-style-type: none"> <li>Klebsiella pneumoniae, oxytoca</li> <li>Moraxella catarrhalis</li> <li>Mycoplasma genitalium, hominis</li> <li>Mycoplasma pneumoniae</li> <li>Neisseria gonorrhoeae</li> <li>Parainfluenza virus (types 1, 2, 3, 4)</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Respiratory syncytial virus</li> <li>Rhinovirus A,C</li> <li>Rhizopus spp., Mucor spp.</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus</li> <li>Staphylococcus spp.<sup>2</sup></li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pneumoniae</li> <li>Streptococcus pyogenes<sup>4</sup></li> <li>Ureaplasma urealyticum, parvum</li> <li>Varicella zoster virus<sup>5</sup></li> </ul>
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### RESPIRATORY TRACT INFECTION PLUS

**SAMPLE TYPE:** Nasopharynx Swab, Cough Sputum Swab, Throat Swab

<ul style="list-style-type: none"> <li>Acinetobacter baumannii</li> <li>Adenovirus HAdV-B</li> <li>Aspergillus flavus, fumigatus, niger, terreus</li> <li>Bordetella pertussis, parapertussis, bronchiseptica</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Chlamydia pneumoniae</li> <li>Coronavirus (229E, NL63, OC43, and HKU1)</li> <li>COVID-19 Coronavirus (SARS-CoV-2)</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterovirus A, B, C</li> <li>Enterovirus D68</li> <li>Escherichia coli</li> <li>Haemophilus influenzae</li> <li>Human metapneumovirus</li> <li>Influenza virus A, B</li> <li>Klebsiella pneumoniae, oxytoca</li> <li>Legionella pneumophila</li> <li>Moraxella catarrhalis</li> </ul>	<ul style="list-style-type: none"> <li>Mycoplasma pneumoniae</li> <li>Parainfluenza virus (types 1, 2, 3, 4)</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Respiratory syncytial virus</li> <li>Rhinovirus A, C</li> <li>Rhizopus spp., Mucor spp.</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus</li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pneumoniae</li> <li>Streptococcus pyogenes<sup>4</sup></li> </ul>
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**Add-on Only**

- Mycobacterium avium-intracellulare, kansasii
- Mycobacterium tuberculosis
- Candida auris

### GASTROINTESTINAL INFECTION

**SAMPLE TYPE:** Rectal Swab, Stool Swab

<ul style="list-style-type: none"> <li>Adenovirus HAdV-F, HAdV-G</li> <li>Astrovirus, Sapovirus G1, G2</li> <li>Bacteroides fragilis</li> <li>Campylobacter jejuni, coli</li> <li>Clostridioides difficile (toxins A, B)</li> <li>Clostridium perfringens, novyi, septicum</li> <li>Cryptosporidium hominis, parvum, felis</li> <li>Cyclospora cayetanensis,</li> <li>Cystoisospora belli</li> <li>Dientamoeba fragilis, Entamoeba histolytica</li> <li>Enteroggregative E. coli (EAEC)</li> <li>Enteroinvasive E. coli (EIEC) /</li> <li>Enteropathogenic E. coli (EPEC)</li> <li>Enterotoxigenic E. coli (ETEC)</li> <li>Enterovirus A, B, C</li> <li>Enterovirus D68</li> <li>Giardia intestinalis</li> <li>Helicobacter pylori</li> </ul>	<ul style="list-style-type: none"> <li>Listeria monocytogenes</li> <li>Microsporidium (Enterocytozoon bienensis, Epenhalitozoon intestinalis)</li> <li>Norovirus (Genogroup 1, 2)</li> <li>O157 (STEC 0157)</li> <li>Rotavirus A, B</li> <li>Salmonella enterica</li> <li>Shigella spp.</li> <li>Shiga toxin-producing E. coli (STEC)</li> <li>Shiga toxin-producing E. coli</li> <li>Vibrio parahaemolyticus, vulnificus, cholerae</li> <li>Yersinia enterocolitica</li> </ul>
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### URINARY TRACT INFECTION PLUS

**SAMPLE TYPE:** Urine Swab, Catheter Swab

<ul style="list-style-type: none"> <li>Acinetobacter baumannii</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Citrobacter freundii</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterococcus faecalis, faecium</li> <li>Escherichia coli</li> <li>Klebsiella pneumoniae, oxytoca</li> <li>Morganella morganii</li> <li>Mycoplasma genitalium, hominis</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> </ul>	<ul style="list-style-type: none"> <li>Serratia marcescens</li> <li>Staphylococcus aureus</li> <li>Staphylococcus spp.<sup>2</sup></li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pyogenes<sup>4</sup></li> <li>Trichomonas vaginalis</li> <li>Ureaplasma urealyticum, parvum</li> </ul>
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**Add-on Only**

- Candida auris

### NAIL/PARONYCHIA, HAIR

**SAMPLE TYPE:** Nail Clipping, Paronychia Tissue, Hair

<p><b>Bacterial/Viral</b></p> <ul style="list-style-type: none"> <li>Bacteroides fragilis, vulgaris</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterococcus faecalis, faecium</li> <li>Escherichia coli</li> <li>Klebsiella pneumoniae, oxytoca</li> <li>Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus</li> <li>Staphylococcus spp.<sup>2</sup></li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pyogenes<sup>4</sup></li> </ul>	<p><b>Fungal</b></p> <ul style="list-style-type: none"> <li>Aspergillus flavus, fumigatus, niger, terreus</li> <li>Blastomyces dermatitidis</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Epidermophyton floccosum</li> <li>Fusarium oxysporum, solani</li> <li>Malassezia furfur, restricta, sympodialis, globosa</li> <li>Microsporium audouinii, canis, gypseum</li> <li>Trichophyton mentagrophytes/interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum</li> <li>Trichosporon mucoides, asahii</li> </ul>
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**Add-on Only**

- Candida auris

### GENITO/STI

**SAMPLE TYPE:** Urine Swab, Prostatic Fluid, Penile Swab, Anorectal Swab, Vaginal Swab, Pelvic Abscess Material, Endometrial Sampling, Cervical Brushing, Genital Region Ulcer Swab, Endocervical Brushing, Urethral Swab

<ul style="list-style-type: none"> <li>Acinetobacter baumannii</li> <li>Actinomyces israelii</li> <li>Atopobium vaginae</li> <li>Bacteroides fragilis</li> <li>BVAB 2, 3 (bacterial vaginosis associated bacteria 2, 3); Mobiluncus spp.</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Chlamydia trachomatis</li> <li>Citrobacter freundii</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterococcus faecalis, faecium</li> <li>Escherichia coli</li> <li>Gardnerella vaginalis</li> <li>Haemophilus ducreyi</li> <li>Herpes simplex virus 1 &amp; 2<sup>1</sup></li> <li>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</li> <li>Klebsiella (Calymmatobacterium) granulomatis</li> </ul>	<ul style="list-style-type: none"> <li>Klebsiella pneumoniae, oxytoca</li> <li>Megaspheera (Types 1, 2)</li> <li>Morganella morganii</li> <li>Mycoplasma genitalium, hominis</li> <li>Neisseria gonorrhoeae</li> <li>Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Serratia marcescens</li> <li>Staphylococcus aureus</li> <li>Staphylococcus spp.<sup>2</sup></li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pyogenes<sup>4</sup></li> <li>Treponema pallidum</li> <li>Trichomonas vaginalis</li> <li>Ureaplasma urealyticum, parvum</li> </ul>
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**Add-on Only**

- Candida auris
- Cytomegalovirus (CMV, Human Herpesvirus 5)

### WOUND

**SAMPLE TYPE:** Wound Swab, Joint Aspiration, Wound Tissue

<p><b>Bacterial/Viral</b></p> <ul style="list-style-type: none"> <li>Acinetobacter baumannii</li> <li>Bacteroides fragilis, vulgaris</li> <li>Burkholderia cepacia, pseudomallei</li> <li>Citrobacter freundii</li> <li>Clostridium perfringens, novyi, septicum</li> <li>Corynebacterium jeikeium, striatum, tuberculostearicum</li> <li>Cutibacterium (Propionibacterium) acnes</li> <li>Enterobacter aerogenes, cloacae</li> <li>Enterococcus faecalis, faecium</li> <li>Escherichia coli</li> <li>Finnegoldia magna</li> <li>Haemophilus influenzae</li> <li>Herpes simplex virus 1 &amp; 2<sup>1</sup></li> <li>Klebsiella pneumoniae, oxytoca</li> <li>Mycobacterium abscessus, chelonae, fortuitum</li> <li>Mycobacterium avium-intracellulare, kansasii</li> <li>Mycobacterium marinum, ulcerans</li> <li>Mycoplasma genitalium, hominis</li> <li>Peptostreptococcus anaerobius, asaccharolyticus, magnus, prevotii</li> <li>Proteus mirabilis, vulgaris</li> <li>Pseudomonas aeruginosa</li> <li>Salmonella enterica</li> <li>Serratia marcescens</li> </ul>	<ul style="list-style-type: none"> <li>Staphylococcus aureus</li> <li>Staphylococcus spp.<sup>2</sup></li> <li>Stenotrophomonas maltophilia</li> <li>Streptococcus agalactiae<sup>3</sup></li> <li>Streptococcus pneumoniae</li> <li>Streptococcus pyogenes<sup>4</sup></li> <li>Varicella zoster virus<sup>5</sup></li> <li>Vibrio cholerae,</li> <li>parahaemolyticus, vulnificus</li> </ul> <p><b>Fungal</b></p> <ul style="list-style-type: none"> <li>Aspergillus flavus, fumigatus, niger, terreus</li> <li>Blastomyces dermatitidis</li> <li>Candida albicans, glabrata, parapsilosis, tropicalis</li> <li>Epidermophyton floccosum</li> <li>Fusarium oxysporum, solani</li> <li>Malassezia furfur, restricta, sympodialis, globosa</li> <li>Microsporium audouinii, canis, gypseum</li> <li>Sporothrix schenckii</li> <li>Trichophyton mentagrophytes/interdigitale, rubrum, soudanense, terrestre, tonsurans, verrucosum, violaceum</li> <li>Trichosporon mucoides, asahii</li> </ul>
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**Add-on Only**

- Candida auris

### Not Typically Detected By Culture

<span style="color: magenta;">◆</span> <b>FUNGAL</b>	<span style="color: green;">◆</span> <b>STREPTOCOCCUS SPECIES</b>
<span style="color: red;">◆</span> <b>PROTOZOAL</b>	<span style="color: blue;">◆</span> <b>ANAEROBE</b>
<span style="color: orange;">◆</span> <b>SLOW GROWING</b>	<span style="color: cyan;">◆</span> <b>NOT TYPICALLY TESTED BY CULTURE</b>

### Antibiotic Resistance Genes

<ul style="list-style-type: none"> <li>VanA, VanB<sup>6</sup></li> <li>ermB, C, mefA<sup>7</sup></li> <li>SHV, KPC Groups<sup>8</sup></li> <li>dfr (A1, A5), sul (1, 2)<sup>9</sup></li> <li>mecA<sup>10</sup></li> <li>qnrA1, qnrA2, qnrB2<sup>11</sup></li> </ul>	<ul style="list-style-type: none"> <li>tet B, tet M<sup>12</sup></li> <li>IMP, NDM, VIM Groups<sup>13</sup></li> <li>ACT, MIR, FOX, ACC Groups<sup>14</sup></li> <li>OXA-48,-51<sup>15</sup></li> <li>CTX-M1 (15), M2 (2), M9 (9), M8/25 Groups<sup>8</sup></li> </ul>
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### Additional Menus Offered

<ul style="list-style-type: none"> <li>Sexually Transmitted Infection</li> <li>Vaginitis</li> <li>Chlamydia, Gonorrhea &amp; Trichomonas</li> <li>Urinary Tract Infection</li> <li>Viral Respiratory Infection</li> </ul>	<ul style="list-style-type: none"> <li>Influenza, COVID-19 &amp; RSV</li> <li>Onychomycosis</li> <li>Bacterial Pneumonia</li> <li>MRSA</li> </ul>
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# HealthTrackRx Syndromic Menu, Symptoms and Order Chart

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## OPHTHALMOLOGY INFECTION

### WHEN TO ORDER TEST

Indicated for patients experiencing symptoms of eye infection including swelling, redness, discharge, itchiness or signs of corneal ulcers.

### SYMPTOMS

Pain or itching of the eye, sensitivity to light, burning, painful lump on the eyelid or the base of the eyelash tenderness, overproduction of tears, discharge from the eye, pink color of the eye, swollen or red eyelids

## RESPIRATORY TRACT INFECTION PLUS

### WHEN TO ORDER TEST

Testing is indicated in immunocompromised patients, either by age, diagnosed condition, or suppressive medication with fever and/or productive cough. Commonly used in high-risk patients exposed to nosocomial infection in Long Term Care facilities, Pulmonology practices, Pediatric care (under age 5), and for patients in other high-risk categories.

### SYMPTOMS

Nasal congestion, runny nose, sneezing, cough, painful swallowing, headache, fatigue, body aches, acute sinusitis

## URINARY TRACT INFECTION PLUS

### WHEN TO ORDER TEST

Indicated in patients with dysuria and classic UTI symptoms without discharge, who fall in a low-risk, non-sexually active age group, or patients with one sexual partner. Commonly ordered in Urology, Long Term Care, Urgent Care and Family Practice.

### SYMPTOMS

Urge to urinate, burning while urinating, frequent urination, cloudy urine, colored urine, pelvic pain, vaginitis

## GENITO/STI

### WHEN TO ORDER TEST

Commonly indicated in OB-GYN, to screen patients who have a variety of symptomatic infections. This test should be performed when non-gonococcal STI's are present in males.

### SYMPTOMS

Discharge from the genitals or anus, painful urination, rash, blisters, sores, bumps, growths on the genitals or anus, unusual vaginal bleeding, itchy genitals or anus, acute vaginitis

## CHLAMYDIA, GONORRHEA & TRICHOMONAS

### WHEN TO ORDER TEST

This is indicated test for sexually active adults without symptoms of an STI, especially if considered high-risk.

### SYMPTOMS

Discharge from the genitals or anus, pain while urinating, unusual vaginal bleeding, itchy genitals/anus, urethritis

## SEXUALLY TRANSMITTED INFECTION

### WHEN TO ORDER TEST

Indicated for patients with symptoms of an STI, including discharge, urethritis, and pain.

### SYMPTOMS

Discharge from the genitals or anus, painful urination, rash, blisters, sores, bumps, growths on the genitals or anus, unusual vaginal bleeding, itchy genitals or anus, acute vaginitis

## OTOLARYNGOLOGY INFECTION

### WHEN TO ORDER TEST

This test is indicated for ENT settings where symptoms of infection include acute or chronic sinusitis, inflammation in the ear, nose, or throat, loss of balance or hearing, and congestion.

### SYMPTOMS

Headache, facial pain, runny nose, nasal congestion, inflammation of the nasal passage, sore or dry throat, dry cough, hoarseness, weak or loss of voice, raw throat, difficulty swallowing, unusual taste, pain in the ear, swelling of the ear, loss of hearing, loss of balance, drainage from the ear and vertigo

## GASTROINTESTINAL INFECTION

### WHEN TO ORDER TEST

Testing is indicated for patients exhibiting symptoms of diarrhea, vomiting, and acute or chronic abdominal pain.

### SYMPTOMS

Diarrhea, vomiting, abdominal pain

## ONYCHOMYCOSIS

### WHEN TO ORDER TEST

Typically indicated in Podiatry and Long-term Care settings. For any nail discoloration, brittle nails, nail dystrophy, or suspected fungal infection of the nail without involvement of the paronychia.

### SYMPTOMS

Yellow, green or white discolored nail, nail thickening, brittle or crumbling nail, separation from the nail bed

## VAGINITIS

### WHEN TO ORDER TEST

Primarily used in OB-GYN, Women's Health and when patient presents with vaginitis and is non-sexually active or has only one sexual partner.

### SYMPTOMS

White, grey, or yellow discharge, unpleasant vaginal smell, itchy genital region, inflammation, burning or stinging during urination, painful intercourse, menopause, new sexual partner

## WOUND

### WHEN TO ORDER TEST

This test should be ordered when skin or soft tissue exhibit any of the symptoms of infection, or a wound or ulcer is non-healing.

### SYMPTOMS

Pain, swelling, redness, discharge, foul odor, itchiness, hot to the touch in skin or soft tissue