



Test Fast.

Treat Faster.

**NEXT-MORNING RESULTS
FOR ALL COMMON INFECTIONS**

FASTER RESULTS MEAN BE

Traditional SOC Clinic Workflow

Initial Patient Visit

- ▶ Use of relevant POC testing
- ▶ Consideration of relevant send out test options
- ▶ Decision to prescribe antibiotics empirically

Patient takes first round of broad-spectrum antibiotics

Lab Results Received

- ▶ Determination if initial treatment was appropriate
- ▶ If needed, additional round of antibiotics

Additional Follow-Up Visits Due To:

- ▶ Lack of symptom resolution from appropriate treatment
- ▶ Antibiotic related adverse events

DAY 0

DAY 1

DAY 2

DAY 3

DAY 5+



HealthTrackRx Clinic Workflow

DAY 0

DAY 1

DAY 2

Initial Patient Visit

- ▶ Use of relevant POC testing
- ▶ Consideration of relevant send out test options

HealthTrackRx Lab

- ▶ Appropriate treatment decision made

Completion of a Single Round of Effective Antibiotics (if needed)



HealthTrackRx Shortens the Clinic Workflow

30%

of outpatient antibiotics prescribed are unnecessary

While the world is sleeping...

HealthTrackRx and UPS are working around the clock to deliver fast, accurate results

50%

antibiotic resistance can occur up to 50% of the time



BETTER CLINICAL OUTCOMES

Next-Morning PCR Results Reduce Empiric Therapy

Empiric Therapy



Limited test options available to drive rapid pathogen targeted treatment

DETECTION



Rapid detection of organisms such as fungi, anaerobes, & resistance genes



Reliance on broad spectrum antibiotics

ANTIBIOTICS

Pathogen specific therapy leads to fewer broad spectrum antibiotics



Multiple lab tests needed to test for all relevant pathogens

COLLECTION

ONE Universal Collection Device for ALL collection types!



Slow time to result for send-out lab tests promotes reliance on empiric treatment

TURNAROUND TIME

NEXT-MORNING RESULTS!



► Reduced Duplicative Testing

► Enhanced Clinical Workflow

► Fast & Accurate Results

► Pathogen Targeted Treatment

93%

of test results are delivered by noon the next day

98%

Improved patient outcomes

76%

faster time to accurate treatment

64%

fewer unnecessary antibiotic treatments

52%

fewer return visits

55%

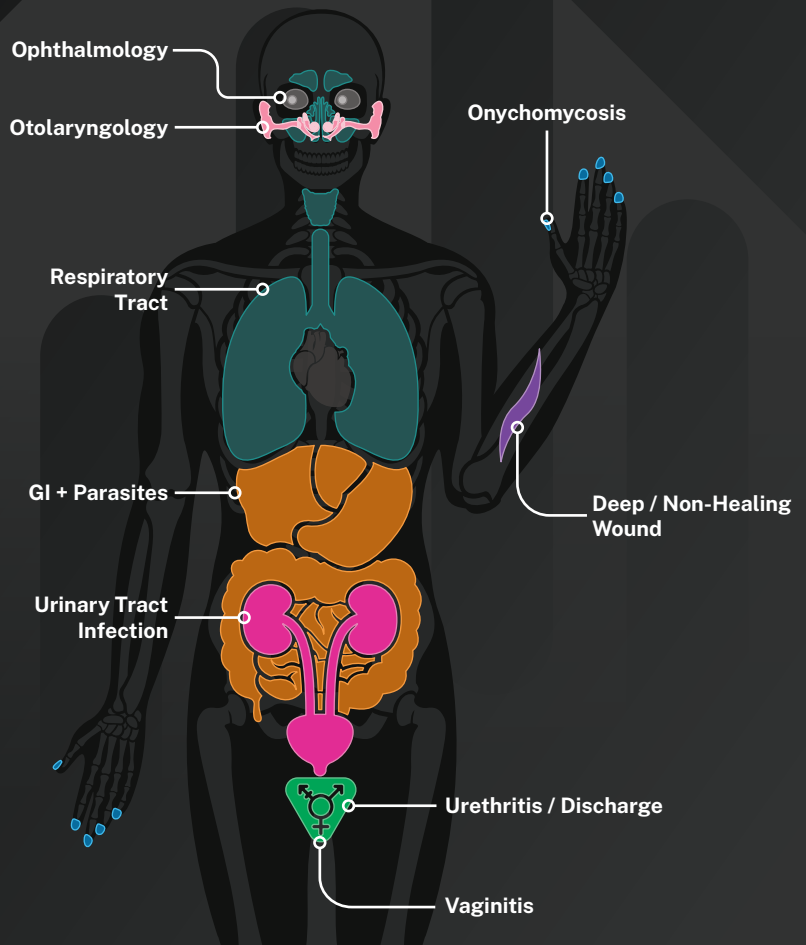
providers have seen improved antibiotic prescription accuracy

47%

providers prescribed fewer antibiotics

Head-to-Toe Molecular Diagnostic Testing

HealthTrackRx's testing technology gives providers the ability to test for pathogens with greater accuracy across a complete menu of common infections. We even make sample collection easy and deliver reporting with antibiotic-resistance genes so patients receive the right treatment the first time.



ONE UNIVERSAL COLLECTION DEVICE



The simplest system imaginable, requiring just one vial regardless of the pathogen.



A collection medium that is not affected by temperature.



A collection medium that doesn't require special refrigeration.



Hyperstable collection medium that inactivates the pathogens for safer, easier processing.



IDENTIFYING INFECTIONS

Syndromic Menu Ordering Reference Guide



Extended Respiratory Viral / Acute Rhinosinusitis **RVIRO**

SPECIMEN TYPES: Nasopharyngeal/Nares, Oropharynx/Throat/Oral, Cough Sputum

COMMON SIGNS & SYMPTOMS: Acute upper respiratory tract infection, high-grade fever, acute cough, runny nose, pain in throat, wheezing, or nasal congestion
J00, J06.9, R05.1, R50.9, Z20.828, Z20.822

Viral Adenovirus Coronaviruses (229E, HKU1, NL63, & OC43) 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
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Treatable Respiratory Viruses **SMRPP**

SPECIMEN TYPES: Nasopharyngeal/Nares, Oropharynx/Throat/Oral, Cough Sputum

COMMON SIGNS & SYMPTOMS: Acute upper respiratory tract infection, high-grade fever, cough, runny nose, pain in throat, wheezing, nasal congestion, shortness of breath, malaise
J00, J06.9, J10.1, R05.1, R06.2, R50.9, Z20.822

Viral COVID-19 Coronavirus (SARS-CoV-2)	Influenza virus A, B Respiratory syncytial virus
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Pharyngitis / Laryngitis **NWPHG**

SPECIMEN TYPES: Oropharynx/Throat/Oral

COMMON SIGNS & SYMPTOMS: Pain in throat, fever, pharyngeal edema, patchy tonsillar exudates, and tender/swollen anterior cervical lymph nodes
J00, J02.9, J06.0, R05.1, R05.2, R50.9

Bacterial Chlamydia pneumoniae Fusobacterium nucleatum, necrophorum Mycoplasma pneumoniae Streptococcus dysgalactiae (Group C & G Strep) Streptococcus pyogenes (Group A Strep)	Coronaviruses (229E, HKU1, NL63, & OC43) 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	Resistance dfr (A1, A5), sul (1, 2) ermB, C; mefA tet B, tet M
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+ ADD-ON: Epstein-Barr Virus (Human Herpesvirus 4, EBV) (NWPHG478), Herpes simplex virus 1 (NWPHG533), Herpes simplex virus 2 (NWPHG534)

Bronchitis **RBVBP**

SPECIMEN TYPES: Nasopharyngeal/Nares, Oropharynx/Throat/Oral, Cough Sputum

COMMON SIGNS & SYMPTOMS: Upper or lower respiratory tract infection, including cough, moderate temperature elevation, and mucopurulent sputum
J20.8, J06.9, J10.1, J22, R05.1, R06.02, R06.2, R07.1, R50.9

Bacterial Haemophilus influenzae Moraxella catarrhalis Streptococcus pneumoniae Atypical Bacteria Bordetella pertussis, parapertussis, bronchiseptica Chlamydia pneumoniae Mycoplasma pneumoniae	Viral Adenovirus Coronaviruses (229E, HKU1, NL63, & OC43) 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 Resistance dfr (A1, A5), sul (1, 2) ermB, C; mefA tet B, tet M
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+ ADD-ON: Epstein-Barr Virus (Human Herpesvirus 4, EBV) (RBVBP478)

Pneumonia **RESPI**

SPECIMEN TYPES: Cough Sputum, Oropharynx/Throat/Oral, Nasopharyngeal/Nares

COMMON SIGNS & SYMPTOMS: Lower respiratory tract infection, high-grade fever, dyspnea, cough, sputum production, or hypoxia & chest x-ray opacity
J18.9, J22, R06.02, R06.2, R07.1, R50.9, R91.8

Bacterial Acinetobacter baumannii Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes Escherichia coli Haemophilus influenzae Klebsiella pneumoniae, oxytoca Moraxella catarrhalis Proteus mirabilis, vulgaris Pseudomonas aeruginosa Serratia marcescens Staphylococcus aureus Streptococcus agalactiae (Group B Strep) Streptococcus pneumoniae Streptococcus pyogenes (Group A Strep)	Atypical Bacteria Bordetella pertussis, parapertussis, bronchiseptica Chlamydia pneumoniae Legionella pneumophila Mycoplasma pneumoniae Viral Adenovirus Coronaviruses (229E, HKU1, NL63, & OC43) 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	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
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Acute Otitis Media / Mastoiditis **AOTMM**

SPECIMEN TYPES: Ear, Nasopharyngeal/Nares

COMMON SIGNS & SYMPTOMS: Otitis media, ear pain, decreased or muffled hearing, bulging ear drum, drainage from ear, mastoiditis, redness or swelling behind ear lobe, fever, headache, or hearing loss
H65.23, H66.9, H70.0, H73.93, H92.09

Bacterial Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes Fusobacterium nucleatum, necrophorum Haemophilus influenzae Klebsiella pneumoniae, oxytoca Moraxella catarrhalis Mycoplasma pneumoniae Proteus mirabilis, vulgaris Pseudomonas aeruginosa Staphylococcus aureus Streptococcus pneumoniae	Streptococcus pyogenes (Group A Strep) Viral Adenovirus Coronaviruses (229E, HKU1, NL63, & OC43) 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	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
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IDENTIFYING INFECTIONS

Syndromic Menu Ordering Reference Guide



Urinary Tract Infection **UBASE**

SPECIMEN TYPES: Urine (voided), Urine (catheter), Internal Urethra

COMMON SIGNS & SYMPTOMS: Dysuria, hematuria, urgency of urination, frequency of micturition, or pain of micturition
N30.00, N30.01, N39.1, R30.0, R30.9, R31.0, R35.0, R82.9, R82.998, Z87.440

Bacterial

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
Staphylococcus saprophyticus
Streptococcus agalactiae (Group B Strep)
Streptococcus pyogenes (Group A Strep)

Fungal

Candida albicans, parapsilosis, tropicalis
Candida glabrata (Nakaseomyces glabratus)
Candida krusei (Pichia kudriavzevii)

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 **URINE**

SPECIMEN TYPES: Urine (voided), Urine (catheter), Internal Urethra

COMMON SIGNS & SYMPTOMS: Dysuria, hematuria, urgency of urination, frequency of micturition, pain of micturition, and high risk sexual behavior
N30.00, N30.01, N39.0, N39.1, R30.0, R30.9, R31.0, R35.0, R82.9, R82.998, Z87.440, Z20.2, Z72.51, Z72.52

Bacterial

Acinetobacter baumannii
Chlamydia trachomatis
Citrobacter freundii
Enterobacter cloacae complex, Klebsiella
(Enterobacter) aerogenes
Enterococcus faecalis, faecium
Escherichia coli
Klebsiella pneumoniae, oxytoca
Morganella morganii
Mycoplasma genitalium
Mycoplasma hominis
Neisseria gonorrhoeae
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa

Serratia marcescens
Staphylococcus aureus
Staphylococcus epidermidis, haemolyticus, lugdunensis
Staphylococcus saprophyticus
Streptococcus agalactiae (Group B Strep)
Streptococcus pyogenes (Group A Strep)
Ureaplasma urealyticum
Ureaplasma parvum

Protozoal

Trichomonas vaginalis

Fungal

Candida albicans, parapsilosis, tropicalis
Candida glabrata (Nakaseomyces glabratus)
Candida krusei (Pichia kudriavzevii)

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



Urethritis / Discharge **URSDC**

SPECIMEN TYPES: Urine (voided), Internal Urethra

COMMON SIGNS & SYMPTOMS: Pain with urination, itching, burning, and discharge
R36.9, R30.0, R30.9, R31.9, Z20.2, Z72.51, Z72.52

Bacterial

Chlamydia trachomatis
Mycoplasma genitalium
Mycoplasma hominis
Neisseria gonorrhoeae
Ureaplasma urealyticum
Ureaplasma parvum

Viral

Herpes simplex virus 1
Herpes simplex virus 2

Protozoal

Trichomonas vaginalis

Resistance

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

Vaginitis **VGITS**

SPECIMEN TYPES: Vaginal, Cervical/Endometrial, Vulva/Labia/Vestibule/Perineal, Urine (voided)

COMMON SIGNS & SYMPTOMS: Vaginal discharge, odor, itching, irritation, bacterial vaginosis, vulvovaginal candidiasis
N76.0, N76.1, N76.89, N77.1, N93.9, R30.0, Z72.51

Bacterial

Atopobium vaginae
BVAB2, 3 (Bacterial vaginosis-associated bacteria 2, 3);
Mobiluncus spp.
Chlamydia trachomatis
Gardnerella vaginalis
Megasphaera (types 1, 2)
Neisseria gonorrhoeae

Viral

Herpes simplex virus 1
Herpes simplex virus 2

Protozoal

Trichomonas vaginalis

Fungal

Candida albicans, parapsilosis, tropicalis

Candida glabrata (Nakaseomyces glabratus)
Candida krusei (Pichia kudriavzevii)

Resistance

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

Recurrent Vaginitis **URDVS**

SPECIMEN TYPES: Vaginal, Cervical/Endometrial, Vulva/Labia/Vestibule/Perineal, Urine (voided)

COMMON SIGNS & SYMPTOMS: Pain with urination, burning, urethral discharge, vaginal discharge, odor, itching, irritation, or recurrent vaginitis
N76.0, N76.1, N76.89, N77.1, N93.9, R30.0, Z72.51

Bacterial

Atopobium vaginae
BVAB2, 3 (Bacterial vaginosis-associated bacteria 2, 3);
Mobiluncus spp.
Chlamydia trachomatis
Gardnerella vaginalis
Megasphaera (types 1, 2)
Mycoplasma genitalium
Mycoplasma hominis

Neisseria gonorrhoeae
Ureaplasma urealyticum
Ureaplasma parvum

Viral

Herpes simplex virus 1
Herpes simplex virus 2

Protozoal

Trichomonas vaginalis

Fungal

Candida albicans, parapsilosis, tropicalis
Candida glabrata (Nakaseomyces glabratus)
Candida krusei (Pichia kudriavzevii)

Resistance

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

IDENTIFYING INFECTIONS

Syndromic Menu Ordering Reference Guide



Genital Lesion GNLSN

SPECIMEN TYPES: Genital Ulcer/Lesion, Vaginal, Cervical/Endometrial, Rectal/Anal/Peri-Anal, Oropharynx/Throat/Oral, Ulcer/lesion

COMMON SIGNS & SYMPTOMS: Genital ulcer or lesion
N48.5, N76.6, N50.9, N90.89, Z20.2, Z72.51, Z72.52

Bacterial

Chlamydia trachomatis
Haemophilus ducreyi
Treponema pallidum (Syphilis)

Viral

Herpes simplex virus 1
Herpes simplex virus 2
Mpox (Monkeypox)
Varicella zoster virus (Human Herpesvirus 3, VZV)

Resistance

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

Pelvic Inflammatory Disease GUPID

SPECIMEN TYPES: Vaginal, Cervical/Endometrial

COMMON SIGNS & SYMPTOMS: Lower abdominal pain, abnormal vaginal bleeding, urinary frequency, and vaginal discharge
R10.30, N93.9, R35.0, R30.0

Bacterial

Actinomyces israelii
Chlamydia trachomatis
Mycoplasma genitalium

Mycoplasma hominis

Neisseria gonorrhoeae
Treponema pallidum (Syphilis)

Resistance

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

Proctitis GUPRS

SWAB SITES: Rectal/Anal

COMMON SIGNS & SYMPTOMS: Rectal pain, rectal bleeding, and purulent rectal discharge
K62.89, K62.5, Z72.51, Z72.52, Z20.2

Bacterial

Chlamydia trachomatis
Neisseria gonorrhoeae
Treponema pallidum (Syphilis)

Viral

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

Resistance

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

Complicated Genitourinary Infection GNURI

SPECIMEN TYPES: Urine (voided), Urine (catheter), Internal Urethra, Vaginal, Cervical/Endometrial, Vulva/Labia/Vestibule/Perineal, Rectal/Anal, Penile Meatus, Genital Skin, Oropharynx/Throat/Oral

COMMON SIGNS & SYMPTOMS: Dysuria, hematuria, urgency of urination, frequency of micturition, fever, abdominal pain, and aerobic vaginitis
N89.9, R10.9, R30.0, R30.9, R31.9, R36.9, Z20.2, Z72.51, Z72.52

Bacterial

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)
Mycoplasma genitalium
Mycoplasma hominis

Morganella morganii

Neisseria gonorrhoeae
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
Serratia marcescens
Staphylococcus aureus
Staphylococcus epidermidis, haemolyticus, lugdunensis
Staphylococcus saprophyticus
Streptococcus agalactiae (Group B Strep)
Streptococcus pyogenes (Group A Strep)
Ureaplasma parvum
Ureaplasma urealyticum

Protozoal

Trichomonas vaginalis

Fungal

Candida albicans, parapsilosis, tropicalis
Candida glabrata (Nakaseomyces glabratus)
Candida krusei (Pichia kudriavzevii)

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

CGT (Asymptomatic) NWCCT

SPECIMEN TYPES: Urine (voided), Urine (catheter), Internal Urethra, Vaginal, Cervical/Endometrial, Vulva/Labia/Vestibule/Perineal, Rectal/Anal, Penile Meatus, Genital skin, Oropharynx/Throat/Oral

COMMON SIGNS & SYMPTOMS: High risk heterosexual behavior, high risk homosexual behavior, or suspected exposure to a sexually transmitted infection
Z11.3, Z20.2, Z72.51, Z72.52

Bacterial

Chlamydia trachomatis
Neisseria gonorrhoeae

Protozoal

Trichomonas vaginalis



Diarrheal Disease GSTRO

SPECIMEN TYPES: Rectal (fecal), Stool

COMMON SIGNS & SYMPTOMS: Community-acquired diarrhea, pt has significant fever + bloody stools, <7 days of symptoms. Concern of parasitic infection if patient has symptoms >14 days
R19.7, R10.13, R10.30, A09

Bacterial

Campylobacter coli, jejuni, upsaliensis
Clostridioides difficile (toxins A, B)
Clostridium perfringens
Enteroinvasive E. coli (EIEC) / Shigella spp.
Salmonella
Shiga toxin producing E. coli (STEC)
Shiga toxin producing E. coli O157 (STEC O157)
Vibrio cholerae, parahaemolyticus, vulnificus
Yersinia enterocolitica

Viral

Norovirus (Genogroup 1, 2)
Rotavirus A, B, C

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
VanA, VanB

+ **ADD-ON: (ALL PARASITES: GSTROAO)** (GSTRO475), Cyclospora cayetanensis (GSTRO476), Dientamoeba fragilis (GSTRO477), Entamoeba fragilis (GSTRO559), Giardia lamblia (intestinalis) (GSTRO481), Microsporidium (Enterocytozoon bienusi, Encephalitozoon intestinalis) (GSTRO483)

IDENTIFYING INFECTIONS

Syndromic Menu Ordering Reference Guide



GASTRO
ONE
Universal
Collection Device

Traveler's Diarrheal Disease **GSTRP**

SPECIMEN TYPES: Rectal (fecal), Stool

COMMON SIGNS & SYMPTOMS: Traveler's diarrhea, pt has significant fever + bloody stools, <7 days of symptoms. Concern of parasitic infection if patient has symptoms >14 days.
R19.7, R10.13, R10.30, A09

Bacterial

Campylobacter coli, jejuni, upsaliensis
Enterotoxigenic E. coli (EPEC)
Enteroinvasive E. coli (EIEC) / Shigella spp.
Enteropathogenic E. coli (EPEC)
Enterotoxigenic E. coli (ETEC)
Salmonella
Shiga toxin producing E. coli (STEC)
Shiga toxin producing E. coli O157 (STEC O157)

Viral

Adenovirus F40/41
Norovirus (Genogroup 1, 2)
Rotavirus A, B, C
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

+ ADD-ON: (ALL PARASITES: GSTRPAO) Cryptosporidium (GSTRP475), Cyclospora cayetanensis (GSTRP476), Dientamoeba fragilis (GSTRP477), Entamoeba fragilis (GSTRP559), Giardia lamblia (intestinalis) (GSTRP481), Microsporidium (Enterocytozoon bienusi, Encephalitozoon intestinalis) (GSTRP483)

Pediatric Diarrheal Disease **PEDGI**

SPECIMEN TYPES: Rectal (fecal), Stool

COMMON SIGNS & SYMPTOMS: Community-acquired pediatric diarrhea, pt has significant fever + bloody stools, <7 days of symptoms. Concern of parasitic infection if patient has symptoms >14 days.
R19.7, R10.13, R10.30, A09

Bacterial

Campylobacter coli, jejuni, upsaliensis
Enteroinvasive E. coli (EIEC) / Shigella spp
Salmonella
Shiga toxin producing E. coli (STEC)
Shiga toxin producing E. coli O157 (STEC O157)
Vibrio cholerae, parahaemolyticus, vulnificus

Norovirus (Genogroup 1, 2)
Rotavirus A, B, C
Sapovirus

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

+ ADD-ON: (ALL PARASITES: PEDGIAO) Cryptosporidium (PEDGI475), Cyclospora cayetanensis (PEDGI476), Dientamoeba fragilis (PEDGI477), Entamoeba fragilis (PEDGI559), Giardia lamblia (intestinalis) (PEDGI481), Microsporidium (Enterocytozoon bienusi, Encephalitozoon intestinalis) (PEDGI483)



WOUND
ONE
Universal
Collection Device

Superficial Wound **ACWUN**

SWAB SITES: Wound Swabs (all locations)

COMMON SIGNS & SYMPTOMS: Recent wound from trauma with erythema, edema, heat, purulent exudate, and/or pain
B00.9, B02.9, L01.00, L08.9, L30.9, L53.9, R60.0, S81.802A, S81.801A

Bacterial

Acinetobacter baumannii
Bacteroides fragilis, Phocaeicola vulgatus
Citrobacter freundii
Clostridium perfringens, novyi, septicum
Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes
Enterococcus faecalis, faecium
Escherichia coli
Klebsiella pneumoniae, oxytoca

Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
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

+ ADD-ON: Mpox (Monkeypox) (ACWUN536), Herpes simplex virus 1 (ACWUN533), Herpes simplex virus 2 (ACWUN534), Varicella zoster virus (Human Herpesvirus 3, VZV) (ACWUN412)

Deep / Non-Healing Wound **WOUND**

SPECIMEN TYPES: Wound Swabs (all locations)

COMMON SIGNS & SYMPTOMS: Diabetic ulcer, tunneling wound, skin erythema, edema, warmth, abscess, or cellulitis
B00.9, B02.9, L01.00, L02.214, L02.818, L03.113, L03.114, L03.115, L03.116, L03.90, L30.4, L30.8, L89.144, L97.512, L97.522, S81.802A, S81.801

Bacterial

Acinetobacter baumannii
Bacteroides fragilis, Phocaeicola vulgatus
Citrobacter freundii
Clostridium perfringens, novyi, septicum
Corynebacterium jeikeium, striatum, tuberculostrictum
Cutibacterium (Propionibacterium) acnes
Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes
Enterococcus faecalis, faecium
Escherichia coli
Klebsiella pneumoniae, oxytoca
Peptostreptococcus anaerobius, Peptoniphilus asaccharolyticus, Finegoldia magna, Anaerococcus prevotii

Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
Serratia marcescens
Staphylococcus aureus
Staphylococcus epidermidis, haemolyticus, lugdunensis, saprophyticus
Streptococcus agalactiae (Group B Strep)
Streptococcus pyogenes (Group A Strep)
Vibrio cholerae, parahaemolyticus, vulnificus

Viral

Herpes simplex virus 1
Herpes simplex virus 2
Varicella zoster virus (Human Herpesvirus 3, VZV)

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

Tinea **TNWUN**

SPECIMEN TYPES: Wound Swabs (all locations)

COMMON SIGNS & SYMPTOMS: Scaly ring-shaped area, itchiness, scaly skin, or noninflamed dermatosis on the body or hair follicle (tinea capitis or tinea barbae)
B35.0, B35.1, B35.3, B35.4, B35.8

Fungal

Candida albicans, glabrata, parapsilosis, tropicalis
Epidermophyton floccosum
Malassezia furfur, restricta, sympodialis, globosa

Microsporium audouinii, canis; Nannizzia gypsea
Trichophyton mentagrophytes/interdigitale, rubrum, tonsurans, violaceum

+ ADD-ON: Candida auris (TNWUN506)

IDENTIFYING INFECTIONS

Syndromic Menu Ordering Reference Guide



ONYCHO
ONE
Universal
Collection Device

Onychomycosis **FNGNL**

SPECIMEN TYPES: Nail (toe), Nail (finger)

COMMON SIGNS & SYMPTOMS: Skin disorder presenting with nail discoloration (yellow, white, or brown), dystrophy (deformed), thickening, onycholysis (separation from nail bed) B35.1, B35.3, B35.4, B35.8

Bacterial

Pseudomonas aeruginosa

Fungal

Aspergillus flavus, fumigatus, niger, terreus
Candida albicans, glabrata, parapsilosis, tropicalis
Cutaneotrichosporon mucoides, Trichosporon asahii
Epidermophyton floccosum
Fusarium oxysporum, Neocosmospora solani

Malassezia furfur, restricta, sympodialis, globosa
Microsporum audouinii, canis; Nannizzia gypsea
Trichophyton mentagrophytes/interdigitale, rubrum, tonsurans, violaceum

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



ENT
ONE
Universal
Collection Device

Otolaryngology **AURAL**

SPECIMEN TYPES: Nasopharyngeal/Nares, Oropharynx/Throat/Oral, Ear, Sino-Nasal

COMMON SIGNS & SYMPTOMS: Chronic or complicated ear, nose, or throat infection J32.0, J32.8, J32.9, K12.2, B37.0, R05.3

Bacterial

Cutibacterium (Propionibacterium) acnes
Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes
Enterococcus faecalis, faecium
Escherichia coli
Fusarium oxysporum, Neocosmospora solani
Haemophilus influenzae
Klebsiella pneumoniae, oxytoca
Moraxella catarrhalis
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa
Staphylococcus aureus
Streptococcus agalactiae (Group B Strep)

Streptococcus pneumoniae
Streptococcus pyogenes (Group A Strep)
Viral
Adenovirus
Cytomegalovirus (Human Herpesvirus 5, CMV)
Enterovirus (pan)
Epstein-Barr Virus (Human Herpesvirus 4, EBV)
Herpes simplex virus 1, 2
Varicella zoster virus (Human Herpesvirus 3, VZV)
Fungal
Aspergillus flavus, fumigatus, niger, terreus
Candida albicans, glabrata, parapsilosis, tropicalis
Fusarium oxysporum, Neocosmospora solani

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



EYE
ONE
Universal
Collection Device

Ophthalmology **OPTIC**

SPECIMEN TYPES: Eye (external)

COMMON SIGNS & SYMPTOMS: Eye pain, eye redness, blurred vision, sensitivity to light, excessive tearing, and/or eye discharge B00.50, B00.52, H10.31, H10.32, H10.33, H16.001, H16.002, H16.011, H16.012, H16.041, H16.042

Bacterial

Acinetobacter baumannii
Chlamydia trachomatis
Citrobacter freundii
Cutibacterium (Propionibacterium) acnes
Enterobacter cloacae complex, Klebsiella (Enterobacter) aerogenes
Enterococcus faecalis, faecium
Escherichia coli
Fusobacterium nucleatum, necrophorum
Haemophilus influenzae
Klebsiella pneumoniae, oxytoca
Moraxella catarrhalis
Neisseria gonorrhoeae
Proteus mirabilis, vulgaris
Pseudomonas aeruginosa

Staphylococcus aureus
Streptococcus agalactiae (Group B Strep)
Streptococcus pneumoniae
Streptococcus pyogenes (Group A Strep)
Viral
Adenovirus
Cytomegalovirus (Human Herpesvirus 5, CMV)
Enterovirus (pan)
Epstein-Barr virus (Human Herpesvirus 4, EBV)
Herpes simplex virus 1, 2
Varicella zoster virus (Human Herpesvirus 3, VZV)
Protozoal
Acanthamoeba castellanii, polyphaga; Vermamoeba (Hartmannella) vermiformis
Microsporidia (Encephalitozoon hellum, cuniculi, Nosema (Vittaforma) ocularum)

Fungal

Aspergillus flavus, fumigatus, niger, terreus
Candida albicans, glabrata, parapsilosis, tropicalis
Fusarium oxysporum, Neocosmospora solani
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

MOLECULAR PATHOLOGY REPORT

FACILITY INFORMATION Facility Name: Facility Demo, LLC Provider Name: PHYSICIAN DEMONSTRATION M.D. NPI: 1000000000 Address: 1500 I-35W, Denton, TX 76207 Phone: 940-383-2223	PATIENT INFORMATION Name: HTRXTEST, TEST DOB: 03/31/1982 Gender at Birth: Female Address: 1500 Interstate 35W Denton, TX 76207, , Phone: (940) 383-2223 Race: White Ethnicity: Not Hispanic or Latino	SPECIMEN INFORMATION Lab Accession Number: 9433672 Date Collected: 11/15/2023 Date Received by Lab: 11/16/2023 Date Reported: 11/16/2023 Sample Type: Urinary Tract Area of Interest: Urine (Voided) Cross Reference #: Order Category: Urinary Tract Infection; Antibiotic Resistance
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Urinary Tract Infection Pathogens Detected

Bacterial Pathogens

Enterococcus spp (faecalis, faecium)
Escherichia coli

Results

Detected
Detected

Microbial Load*

>100,000 CFU/mL Equivalent
<100,000 CFU/mL Equivalent

Quick Summary Antibiotic Table Legend:

(++): BEST ACTIVITY
(+): GOOD ACTIVITY
(±): VARIABLE ACTIVITY

		Enterococcus spp	Escherichia coli
Penicillins	Ampicillin (IV/IM/po)	+	±
	Amoxicillin (po)	+	±
	Amoxicillin Clavulanic acid (po)	+	+
Fluoroquinolones	Ciprofloxacin (po/OT/OP/IV)	±	+
	Delafloxacin (po/IV)	+	+
	Ofloxacin (po/OT/OP)	±	+
	Levofloxacin (po/OP/IV)	+	+
	Moxifloxacin (po/OP/IV)	+	+
	Norfloxacin (po)	+	+
	Gemifloxacin (po)	+	+
Tetracyclines	Doxycycline (po/IV)	±	±
	Minocycline (po/IV)	±	±
	Omadacycline (po/IV)	+	+
	Tetracycline (po)	±	±
Nitrofurantoin	Nitrofurantoin (Macrobid) (po)	+	+
Phosphidic acid derivative	Fosfomycin (po)	±	+

Quick Summary Table above shows potentially effective oral antibiotic(s) for the above-noted bacteria (assumes mono-antimicrobial therapy, unless otherwise specified). Detected antimicrobial resistance gene(s) (as applicable) has(have) been integrated into antibiotic selection. Based on patient-specific clinical data, multi-antimicrobial therapy might be indicated in some cases (see Summary Antibigram below).***

Antimicrobial Resistance Genes Detected

dfr (A1, A5), sul (1,2)

! Potential resistance to Trimethoprim and/or Sulfamethoxazole.

PERSONALIZED SUMMARY ANTIBIOGRAM

Antibiotic Table Legend:

(++): BEST ACTIVITY, >90% of bacterial cultural isolates are sensitive.
(+): GOOD ACTIVITY, 70-90% of bacterial cultural isolates are sensitive.
(±): VARIABLE ACTIVITY, 50-70% of bacterial cultural isolates are sensitive.
(0): Non-Recommended antimicrobial;

Note: Personalized (patient specific) data included in this report, are a correlation of detected microbes and antimicrobial resistance genes (if any), with national antimicrobial sensitivity data.

Administration Mode: po = oral, IV = intravenous, IM = intramuscular, OP = ophthalmic, OT = otic.

Some antibiotics might not be available in the US (see www.pdr.net, www.drugs.com, or www.rxlist.com for current information).

		Enterococcus spp	Escherichia coli
Penicillins	Penicillin G (IV/IM)	+	0
	Ampicillin (IV/IM/po)	+	±
	Amoxicillin (po)	+	±
	Amoxicillin Clavulanic acid (po)	+	+
	Ampicillin Sulbactam (IV/IM)	+	+
	Piperacillin Tazobactam (IV)	+	+
Carbapenems	Doripenem (IV)	±	+
	Ertapenem (IV/IM)	±	+
	Imipenem (IV/IM)	±	+
	Imipenem Cilastatin Relebactam (IV)	±	+
	Meropenem (IV)	±	+
	Meropenem Vaborbactam (IV)	±	+
Monobactam	Aztreonam (IV/IM)	0	+
Fluoroquinolones	Ciprofloxacin (po/OT/OP/IV)	±	+
	Delafloxacin (po/IV)	+	+
	Ofloxacin (po/OT/OP)	±	+
	Levofloxacin (po/OP/IV)	+	+
	Moxifloxacin (po/OP/IV)	+	+
	Norfloxacin (po)	+	+
	Gemifloxacin (po)	+	+
	Gatifloxacin (OP)	+	+
Parenteral Cephalosporins	Cefazolin (IV/IM)	0	+
	Cefotetan (IV/IM)	0	+
	Cefoxitin (IV)	0	+
	Cefuroxime (po/IV/IM)	0	+
	Cefotaxime (IV/IM)	0	+
	Ceftizoxime (IV/IM)	0	+
	Ceftriaxone (IV/IM)	±	+
	Ceftazidime (IV/IM)	0	+
	Cefepime (IV/IM)	0	+
	Ceftazidime Avibactam (IV)	0	+
	Ceftaroline (IV)	0	+
	Ceftobiprole (IV)	0	+

	Ceftolozane Tazobactam (IV)	0	+
	Cefiderocol (IV)	0	+
Oral Cephalosporins	Cefadroxil (po)	0	±
	Cephalexin (po)	0	±
	Cefaclor (po)	0	±
	Cefprozil (po)	0	+
	Cefuroxime Axetil (po/IV/IM)	0	+
	Cefixime (po)	0	+
	Ceftibuten (po)	0	+
	Cefpodoxime (po)	0	+
	Cefdinir (po)	0	+
Aminoglycosides	Gentamicin (IV/IM/OP)	±	+
	Tobramycin (IV/IM/OP)	0	+
	Amikacin (IV/IM)	0	+
	Plazomicin (IV)	0	+
Macrolides	Azithromycin (po/IV/OP)	0	±
Tetracyclines	Doxycycline (po/IV)	±	±
	Eravacycline (IV)	+	+
	Minocycline (po/IV)	±	±
	Omadacycline (po/IV)	+	+
	Tetracycline (po)	±	±
Glycylcycline	Tigecycline (IV)	+	+
Glycopeptides Lipopeptide Lipoglycopeptide	Daptomycin (IV)	+	0
	Vancomycin (po/IV/OP)	++	0
	Telavancin (IV)	+	0
	Oritavancin (IV)	+	0
	Dalbavancin (IV)	+	0
Oxazolidinones	Linezolid (po/IV)	+	0
	Tedizolid (po/IV)	+	0
Polymyxin Peptides	Polymyxin B (IV/IM/OP)	0	+
	Colistin (IV/IM/OT)	0	+
Peptidyl transferase inhibitor	Chloramphenicol (OP)	±	+
Nitrofurantoin	Nitrofurantoin (Macrobid) (po)	+	+

Meet Our Clinical Advisory Team



Barbara D Alexander
MD, FACP, FIDSA
HealthTrackRx Chief Medical
Advisor & Chair of the Clinical
Advisory Board



Cornelius (Neil) J Clancy
MD



Barry Eisenstein
MD



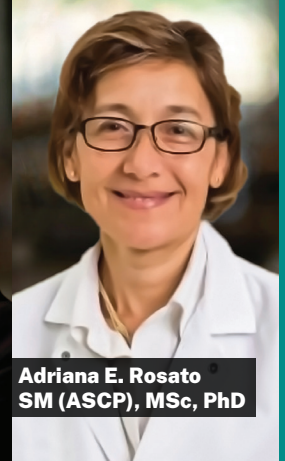
Thomas M File, Jr. MD
MSc, MACP, FIDSA,
FCCP



Kimberly E Hanson
MD, MHS, FIDSA



Robin Patel
MD



Adriana E. Rosato
SM (ASCP), MSc, PhD

As the nation's premier PCR-based infectious disease laboratory, we are committed to transforming diagnostics with custom solutions that provide rapid, clinically-actionable results to providers and their patients.

Our Clinical Advisory Board, composed of leading infectious disease (ID) and antimicrobial resistance (AMR) experts, guides the development of new tests and menus, advocates for guideline-based molecular testing, and facilitates clinical trials. Insights from the Board not only advance our PCR testing program, but also demonstrate its utility in improving ID patient outcomes and combating AMR.

Have Clinical Questions Regarding our Testing?

The HealthTrackRx Medical Science Liaison team is here to help!

- ▶ Menu education
- ▶ Patient Report Reviews
- ▶ Specific Pathogen Questions
- ▶ Information on Relevant Guidelines
- ▶ Research Questions
- ▶ And much more!

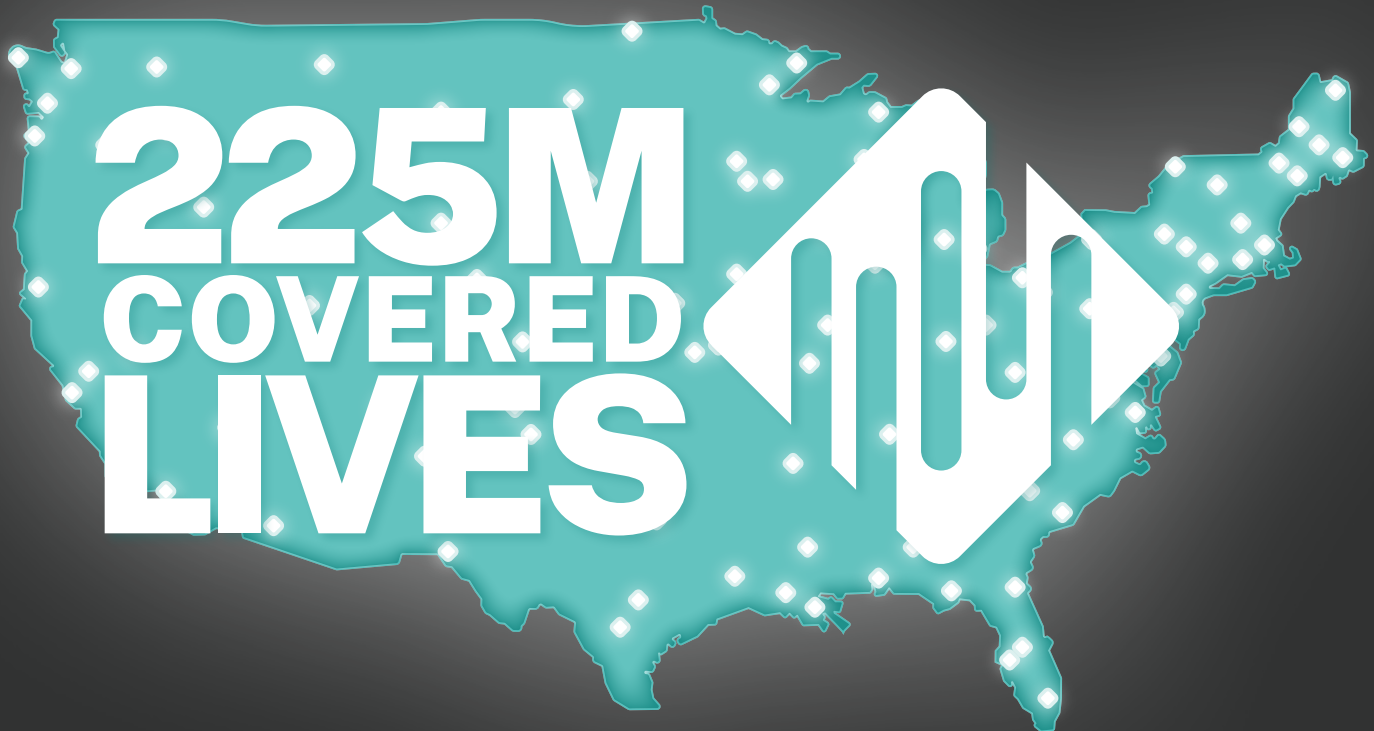
Clinical Expert Line: 940-383-2223



Accessibility Through Health Plan Partnerships

Hundreds of national and regional health plans contract with HealthTrackRx!

In-network status may not apply for all health plan types, in all geographies, or for all health plan network products. We encourage ordering providers and patients to check the patient's health plan before services are ordered.



* Please refer to our In-Network Payor List for additional information.

AFFORDABLE TESTING. FAST RESULTS.

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Compassionate billing practices including payment plans, prompt pay discounts, and financial hardship considerations available.



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Our laboratory testing is covered by most insurance companies, including Medicare and Medicaid.



Payment Options

Pay online, by text, or by mobile—Paying your bill is fast and easy!*



* (An Explanation of Benefits (EOB) is not a bill; please wait until a statement arrives)

RIGHTTRACK Performance Report



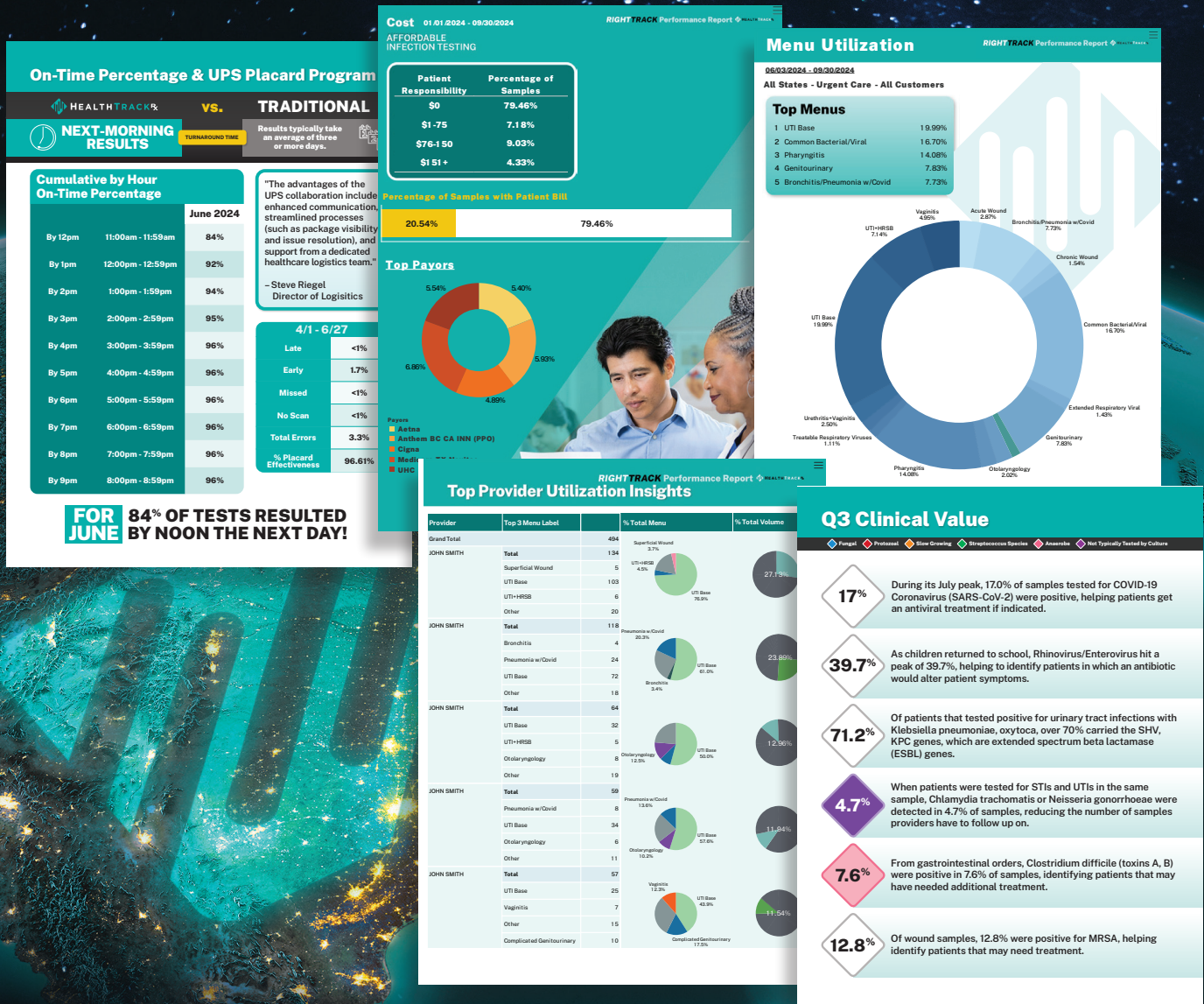
KEY INSIGHTS TO HELP HEALTHCARE PROVIDERS IMPROVE PATIENT CARE

On-time performance: from test to result

Clinical value: menu usage and pathogen positivity

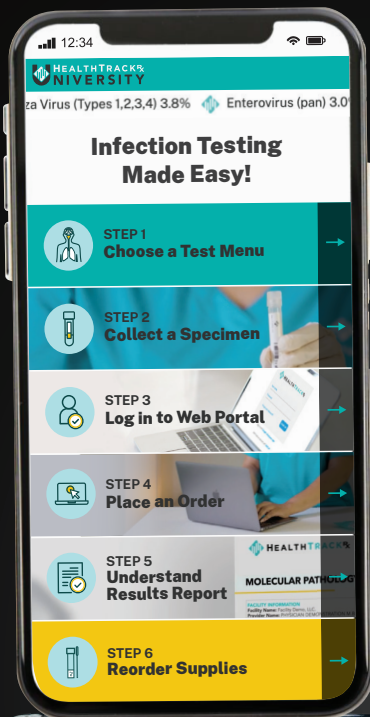
Test affordability and payor landscape

Specimen error report: handling or ordering issues that impact next-morning results



* Data is available at national, state, and clinic levels.

Not sure where to start? We can help with that.



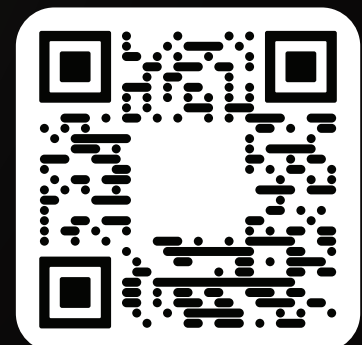
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