



PATIENT		SPECIMEN		PHYSICIAN	
<b>Name:</b>	Last, First	<b>Specimen Type:</b>	Urine	<b>Name:</b>	Last, First
<b>D.O.B.:</b>	xx/xx/xxxx	<b>Collection:</b>	xx/xx/xxxx	<b>Address:</b>	xx/xx/xxxx
<b>Age:</b>	yrs	<b>Received:</b>	xx/xx/xxxx	<b>Phone:</b>	xx
<b>Gender:</b>	Female	<b>Reported:</b>	xx/xx/xxxx		
<b>Accession:</b>	SAID1427				

## UTI by Molecular Method Testing Results: **Positive**

### Result Summary

#### Pathogens Detected:

- > Escherichia coli >100,000CFU/mL
- > Enterococcus faecalis 10,000 - 100,000CFU/mL

#### Antibiotic Resistance Genes Detected:

- > Macrolide/Clindamycin

### Suggested Treatment

#### Drug of Choice:

##### **Ampicillin**

Acute simple cystitis: 500mg PO Q6hrs x 5-7 days. Complicated UTI: 1-2g PO q4-6hrs; can be used in combination with aminoglycoside for critical illness  
Not recommended for empiric therapy - decreased efficacy compared to other first-line agents

#### Alternative drugs/combination:

##### **Amoxicillin**

Asymptomatic bacteriuria: 500mg PO q8hr or 875mg PO q12hrs for 4-7 days. Acute uncomplicated Cystitis: 500mg PO q8hrs

##### **Cephalexin**

Acute simple cystitis: 250-500mg PO q6hrs x 5-7 days

#### Drugs not tested for ABR but Commonly Use:

##### **Trimethoprim/Sulfamethoxazole**

Acute simple cystitis: 1 double strength tab (160/800mg) PO BID x 3 days (female) x 7 days (male). Complicated infection: 1 DS tab PO BID x 14 days

No hepatic adjustment necessary but if drug induced liver injury is suspected then consider discontinuing

##### **Nitrofurantoin**

Acute simple cystitis treatment: Nitrofurantoin monohydrate/macrocrystals (Macrobid) 100mg PO BID x 5 days (female) x 7 days (male). Nitrofurantoin macrocrystals (Furadantin or Microdantin): 50-100mg PO q6hrs x 5 days (female) x 10 days (male)

There are 2 forms of nitrofurantoin and dosing will differ depending on brand - most commonly prescribed is Macrobid. This medication is CONTRAINDICATED in CrCl 30-60 per manufacturer labeling but there is limited data that a short course for acute treatment in eGFR 30-60 ml/min is safe and effective. At CrCl<30 - avoid use!

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## UTI by Molecular Method

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<b>Gender:</b>	Female	<b>Reported:</b>	xx/xx/xxxx		
<b>Accession:</b>	SAID1427				

## UTI 2 by Molecular Method Result Summary

PATHOGENS	RESULTS	MICROBIAL LOAD (CFU/ML)	GRADE	REFERENCE RANGE
<b>GRAM NEGATIVE BACTERIA</b>				
Staphylococcus aureus	Not Detected			Not Detected
→ <b>Enterococcus faecalis</b>	<b>Detected</b>	<b>10,000 - 100,000</b>	<b>Medium</b>	Not Detected
Enterococcus faecium	Not Detected			Not Detected
Staphylococcus saprophyticus	Not Detected			Not Detected
Streptococcus agalactiae	Not Detected			Not Detected
<b>GRAM POSITIVE BACTERIA</b>				
Klebsiella pneumoniae	Not Detected			Not Detected
Acinetobacter baumannii	Not Detected			Not Detected
Citrobacter freundii	Not Detected			Not Detected
Enterobacter cloacae	Not Detected			Not Detected
→ <b>Escherichia coli</b>	<b>Detected</b>	<b>&gt;100,000</b>	<b>High</b>	Not Detected
Klebsiella aerogenes	Not Detected			Not Detected
Klebsiella oxytoca	Not Detected			Not Detected
Morganella morganii	Not Detected			Not Detected
Mycoplasma hominis	Not Detected			Not Detected
Proteus mirabilis	Not Detected			Not Detected
Proteus vulgaris	Not Detected			Not Detected
Providencia stuartii	Not Detected			Not Detected
Pseudomonas aeruginosa	Not Detected			Not Detected
Serratia marcescens	Not Detected			Not Detected
Ureaplasma urealyticum	Not Detected			Not Detected
<b>FUNGI</b>				
Candida albicans	Not Detected			Not Detected
Candida auris	Not Detected			Not Detected
Candida glabrata	Not Detected			Not Detected
Candida krusei	Not Detected			Not Detected
Candida lusitanae	Not Detected			Not Detected
Candida parapsilosis	Not Detected			Not Detected
Candida tropicalis	Not Detected			Not Detected

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Gender:	Female	Reported:	xx/xx/xxxx		
Accession:	SAID1427				

## Antibiotic Resistance Genotyping Result Summary

ANTIBIOTIC RESISTANT GENE	ANTIBIOTIC CLASS	RESULTS	REFERENCE RANGE
NDM	Carbapenem	Not Detected	Not Detected
KPC	Carbapenem	Not Detected	Not Detected
oxa-48	Carbapenem	Not Detected	Not Detected
VIM, IMP-7	Carbapenem	Not Detected	Not Detected
ermA	Macrolide/Clindamycin	Not Detected	Not Detected
→ <b>ermB</b>	<b>Macrolide/Clindamycin</b>	<b>Detected</b>	Not Detected
mefA	Macrolide/Clindamycin	Not Detected	Not Detected
mecA	Methicillin	Not Detected	Not Detected
femA	Methicillin	Not Detected	Not Detected
CTX-MG2	Penicillin & B-lactam	Not Detected	Not Detected
CTX-MG1	Penicillin & B-lactam	Not Detected	Not Detected
ampC	Penicillin & B-lactam	Not Detected	Not Detected
SHV	Penicillin & B-lactam	Not Detected	Not Detected
TEM	Penicillin & B-lactam	Not Detected	Not Detected
qnrA	Quinolone	Not Detected	Not Detected
qnrB	Quinolone	Not Detected	Not Detected
vanA1, vanA2	Vancomycin	Not Detected	Not Detected
vanB	Vancomycin	Not Detected	Not Detected

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<b>Gender:</b>	Female	<b>Reported:</b>	xx/xx/xxxx		
<b>Accession:</b>	SAID1427				

## Antibiotic List and Recommendations

ANTIBIOTIC CLASS	RESULT	RECOMMENDED	NOT RECOMMENDED
Carbapenem	Not Detected	Meropenem/Vaborbactam Panipenem/Betamipron Imipenem/Cilastatin Biapenem Doripenem Meropenem Ertapenem Imipenem/Cilastatin/Relebactam	
→ <b>Macrolide/Clindamycin</b>	<b>Detected</b>		<b>Fidaxomicin</b> <b>Azithromycin</b> <b>Clarithromycin</b> <b>Clindamycin</b>
Methicillin	Not Detected	Oxacillin Nafcillin Methicillin	
Penicillin & B-lactam	Not Detected	Amoxicillin Piperacillin Penicillin V ticarcillin Ceftazidime/Avibactam Dicloxacillin Amoxicillin/Clavulanate Piperacillin/Tazobactam Ampicillin Penicillin Carbenicillin Ampicillin/Sulbactam Avibactam/Ceftazidime Penicillin G	
Quinolone	Not Detected	Nalidixic acid Gemifloxacin Trovafoxacin Moxifloxacin Ofloxacin Delafloxacin Levofloxacin Sparfloxacin Cinoxacin Lomefloxacin Gatifloxacin Norfloxacin Flumequine Ciprofloxacin	
Vancomycin	Not Detected	Vancomycin	



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<b>Age:</b>	yrs	<b>Received:</b>	xx/xx/xxxx	<b>Phone:</b>	xx
<b>Gender:</b>	Female	<b>Reported:</b>	2024-02-03		
<b>Accession:</b>	TD000435201				

## Sexually Transmitted Diseases (STI) Testing Results: **Positive**

### Result Summary

#### Pathogens Detected:

- > Ureaplasma parvum **Medium**  $1.72 \times 10^4$  -  $1.72 \times 10^5$
- > Gardnerella vaginalis **Low**  $<1.72 \times 10^4$

#### Antibiotic Resistance Genes Detected:

- > Not Tested

### Suggested Treatment

#### Drug of Choice:

#### Alternative drugs/combination:

#### Drugs not tested for ABR but Commonly Used:

##### **Metronidazole**

500mg PO BID x 7 days

For initial treatment of trichomonas, males can do a single dose of 2g PO once. For females and refractory infections 500mg PO BID is preferred.

##### **Doxycycline**

100mg PO BID x 7 days

Duration of therapy can vary depending on the type of infection.

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D.O.B.:	xx/xx/xxxx	Collection:	xx/xx/xxxx	Address:	xx/xx/xxxx
Age:	yrs	Received:	xx/xx/xxxx	Phone:	xx
Gender:	Female	Reported:	2024-02-03		
Accession:	TD000435201				

## STI by Molecular Method Result Summary

PATHOGENS	RESULTS	MICROBIAL LOAD (CFU/ML)	GRADE	REFERENCE RANGE
<b>GRAM NEGATIVE BACTERIA</b>				
→ <b>Gardnerella vaginalis</b>	<b>Detected</b>	<b>&lt;1.72 x 10<sup>4</sup></b>	<b>Low</b>	Not Detected
Streptococcus agalactiae	Not Detected			Not Detected
<b>GRAM POSITIVE BACTERIA</b>				
Chlamydia trachomatis	Not Detected			Not Detected
Haemophilus ducreyi	Not Detected			Not Detected
Mycoplasma genitalium	Not Detected			Not Detected
Mycoplasma hominis	Not Detected			Not Detected
Neisseria gonorrhoeae	Not Detected			Not Detected
Treponema pallidum	Not Detected			Not Detected
→ <b>Ureaplasma parvum</b>	<b>Detected</b>	<b>1.72 x 10<sup>4</sup> - 1.72 x 10<sup>5</sup></b>	<b>Medium</b>	Not Detected
<b>VIRUS</b>				
Herpes simplex virus 1	Not Detected			Not Detected
Herpes simplex virus 2	Not Detected			Not Detected
<b>PARASITES</b>				
Trichomonas vaginalis	Not Detected			Not Detected



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<b>D.O.B.:</b>	xx/xx/xxxx	<b>Collection:</b>	xx/xx/xxxx	<b>Address:</b>	xx/xx/xxxx
<b>Age:</b>	yrs	<b>Received:</b>	xx/xx/xxxx	<b>Phone:</b>	xx
<b>Gender:</b>	Female	<b>Reported:</b>	2024-02-03		
<b>Accession:</b>	CD000187251				

## Respiratory Panel Testing Results: **Positive**

### Result Summary

#### Pathogens Detected:

› Influenza A virus **High**  $>1.72 \times 10^5$

#### Antibiotic Resistance Genes Detected:

› Not Tested

### Suggested Treatment

#### Drug of Choice:

#### Alternative drugs/combination:

#### Drugs not tested for ABR but Commonly Used:

##### **Oseltamivir**

75mg PO BID

Off label use for Influenza A (avian) treatment

##### **Zanamivir**

2 inhalations (10mg) BID x 5-7 days

Begin treatment within 48hrs of symptom onset. If prophylaxis due to exposure in an institutional setting duration of therapy can be extended for  $\geq 2$  weeks and until  $\sim 7$  days after identification of illness onset in the last patient. Can also be used for pre-exposure prophylaxis but typically reserved for patients at very high risk of developing complications from influenza infection.

**\*Antiviral medication is not routinely recommended to fight infection. General treatment should be symptom management such as maintaining adequate fluid status and using OTC treatment for pain or fever.**

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## Respiratory Panel

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PATIENT		SPECIMEN		PHYSICIAN	
Name:	Last, First	Specimen Type:	Urine	Name:	Last, First
D.O.B.:	xx/xx/xxxx	Collection:	xx/xx/xxxx	Address:	xx/xx/xxxx
Age:	yrs	Received:	xx/xx/xxxx	Phone:	xx
Gender:	Female	Reported:	2024-02-03		
Accession:	CD000187251				

## Respiratory by Molecular Method Result Summary

PATHOGENS	RESULTS	MICROBIAL LOAD (CFU/ML)	GRADE	REFERENCE RANGE
<b>GRAM NEGATIVE BACTERIA</b>				
Streptococcus pneumoniae	Not Detected			Not Detected
<b>GRAM POSITIVE BACTERIA</b>				
Bordetella pertussis	Not Detected			Not Detected
Chlamydia pneumoniae	Not Detected			Not Detected
Haemophilus influenzae	Not Detected			Not Detected
Legionella pneumophila	Not Detected			Not Detected
Mycoplasma pneumoniae	Not Detected			Not Detected
<b>VIRUS</b>				
Adenovirus	Not Detected			Not Detected
Enterovirus-Human-Rhinovirus (EV-HRV) 1	Not Detected			Not Detected
Enterovirus-Human-Rhinovirus (EV-HRV) 2	Not Detected			Not Detected
Human Bocavirus (HBoV)	Not Detected			Not Detected
Human coronavirus 229E	Not Detected			Not Detected
Human Coronavirus HKU1	Not Detected			Not Detected
Human coronavirus NL63	Not Detected			Not Detected
Human coronavirus OC43	Not Detected			Not Detected
Human metapneumovirus (HMPV)	Not Detected			Not Detected
Human parainfluenza-1 (HPIV-1)	Not Detected			Not Detected
Human parainfluenza-2 (HPIV-2)	Not Detected			Not Detected
Human parainfluenza-3 (HPIV-3)	Not Detected			Not Detected
Human parainfluenza-4 (HPIV-4)	Not Detected			Not Detected
Human parechoviruses (PeVs)	Not Detected			Not Detected
→ <b>Influenza A virus</b>	<b>Detected</b>	<b>&gt;1.72 x 10<sup>5</sup></b>	<b>High</b>	Not Detected
Influenza B virus	Not Detected			Not Detected
Respiratory Syncytial Virus (RSV) A/B	Not Detected			Not Detected
SARS-CoV-2	Not Detected			Not Detected





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<b>Gender:</b>	Female	<b>Reported:</b>	xx/xx/xxxx		
<b>Accession:</b>	CD000184991				

## Wound Testing Results: **Positive**

### Result Summary

#### Pathogens Detected:

- > Staphylococcus spp. **High**  $>1.72 \times 10^5$
- > Staphylococcus aureus **Medium**  $1.72 \times 10^4 - 1.72 \times 10^5$

#### Antibiotic Resistance Genes Detected:

- > Methicillin

### Suggested Treatment

#### Drug of Choice:

##### **Vancomycin**

15-20mg/kg IV q8-12hrs initially

PO formulation only indicated for prophylaxis or treatment of C. diff infections. IV formulation frequency requires monitoring of vancomycin levels (AUC or trough) due to vancomycin's narrow therapeutic index and risk for AKI

#### Alternative drugs/combination:

##### **Ertapenem**

1g IV once daily

Duration of therapy depends on severity and type of infection, ranging from 5 days to  $\geq 6$  weeks. Reserve for pts with resistant pathogens. Does NOT cover Pseudomonas unlike the other carbapenems

##### **Meropenem**

1g IV q8hrs

There are 2 methods of infusion: traditional and extended infusion. More severe infections can be dosed as high as 2g (i.e. meningitis). Duration of therapy varies depending on type and severity of infection.

#### Drugs not tested for ABR but Commonly Used:

##### **Trimethoprim/Sulfamethoxazole**

800/160mg PO BID

IV formulation and weight based dosing is preferred in more serious infections. If suspected MRSA infection, increase dose to 2 double strength tabs (800/160mg). Duration of therapy varies depending on severity and type of infection.

##### **Cephalexin**

250mg - 1000mg PO q6hrs or 500mg PO q12hrs (max 4000mg per day)

Duration of therapy varies depending on type of wound.

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## Wound

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Accession:	CD000184991				

## Wound by Molecular Method Result Summary

PATHOGENS	RESULTS	MICROBIAL LOAD (CFU/ML)	GRADE	REFERENCE RANGE
<b>GRAM NEGATIVE BACTERIA</b>				
→ <b>Staphylococcus aureus</b>	<b>Detected</b>	<b>1.72 x 10<sup>4</sup> - 1.72 x 10<sup>5</sup></b>	<b>Medium</b>	Not Detected
Enterococcus faecalis	Not Detected			Not Detected
Enterococcus faecium	Not Detected			Not Detected
Listeria monocytogenes	Not Detected			Not Detected
→ <b>Staphylococcus spp.</b>	<b>Detected</b>	<b>&gt;1.72 x 10<sup>5</sup></b>	<b>High</b>	Not Detected
Streptococcus pneumoniae	Not Detected			Not Detected
Streptococcus Spp.	Not Detected			Not Detected
<b>GRAM POSITIVE BACTERIA</b>				
Klebsiella pneumoniae	Not Detected			Not Detected
Acinetobacter baumannii	Not Detected			Not Detected
Enterobacteriaceae	Not Detected			Not Detected
Escherichia coli	Not Detected			Not Detected
Haemophilus influenzae	Not Detected			Not Detected
Klebsiella oxytoca	Not Detected			Not Detected
Neisseria meningitidis	Not Detected			Not Detected
Pseudomonas aeruginosa	Not Detected			Not Detected
Pseudomonas Spp.	Not Detected			Not Detected
Stenotrophomonas maltophilia	Not Detected			Not Detected
<b>FUNGI</b>				
Candida albicans	Not Detected			Not Detected
Candida glabrata	Not Detected			Not Detected
Candida krusei	Not Detected			Not Detected
Candida parapsilosis	Not Detected			Not Detected
Candida tropicalis	Not Detected			Not Detected

Wound

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## Antibiotic Resistance Genotyping Result Summary

ANTIBIOTIC RESISTANT GENE	ANTIBIOTIC CLASS	RESULTS	REFERENCE RANGE
oxa-48	Carbapenem	Not Detected	Not Detected
NDM	Carbapenem	Not Detected	Not Detected
KPC	Carbapenem	Not Detected	Not Detected
IMP	Carbapenem	Not Detected	Not Detected
→ <b>mecA/mecC</b>	<b>Methicillin</b>	<b>Detected</b>	Not Detected
VIM	Penicillin & B-lactam	Not Detected	Not Detected
vanA	Vancomycin	Not Detected	Not Detected
vanB	Vancomycin	Not Detected	Not Detected



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<b>Gender:</b>	Female	<b>Reported:</b>	xx/xx/xxxx		
<b>Accession:</b>	CD000184991				

### Antibiotic List and Recommendations

ANTIBIOTIC CLASS	RESULT	RECOMMENDED	NOT RECOMMENDED
Carbapenem	Not Detected	Meropenem/Vaborbactam Panipenem/Betamipron Imipenem/Cilastatin Biapenem Doripenem Meropenem Ertapenem Imipenem/Cilastatin/Relebactam	
→ Methicillin	Detected		Oxacillin Nafcillin Methicillin
→ Penicillin & B-lactam	Detected		Amoxicillin Piperacillin Penicillin V Penicillin VK ticarcillin Ceftazidime/Avibactam Dicloxacillin Amoxicillin/Clavulanate Piperacillin/Tazobactam Ampicillin Penicillin Carbenicillin Ampicillin/Sulbactam Avibactam/Ceftazidime Penicillin G
Vancomycin	Not Detected	Vancomycin	