

# **Antibiogram 2022 Gram Negative/Gram Positive**

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## **Revision Insight**

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Owner: Janet Schade, Pharmacy Director

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Revision Note:

Annual update to 2022 data

## forks Community Hospital 530 Bogachiel Way - Forks, WA

#### **GRAM NEGATIVE ANTIBIOGRAM - 2022**

2022	# of isolates	Amikacin	Ampicillin	Ampicillin/Sulbactam	Cefazolin	Cefepime	Ceftazidime	Ceftriaxone	Ciprofloxacin	Ertapenem	Gentamicin	Levofloxacin	Мегорепат	Nitrofurantoin (1125).		Tobramycin	Trim/Sulfa
Gram Negative Isolates																	
Citrobacter freundi	8						100%	100%	100%	100%	100%	100%	100%	100%	100%		100%
Citrobacter koseri	2						100%	100%	100%	100%	100%	100%	100%	50%	100%		100%
Enterobacter cloacae	6			0%	0%	100%	83%	83%	100%	83%	83%	100%	100%	50%	83%		83%
Escherichia coli	202		67%	69%	94%	99%	99%	98%	83%	100%	99%	87%	100%	97%	98%		79%
Klebsiella oxytoca	7			14%	71%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		100%
Klebsiella pneumoniae	30			86%	90%	90%	90%	90%	86%	100%	100%	90%	100%	45%	97%		90%
Klebsiella aerogenes	7			0%	0%	86%	86%	86%	100%	100%	100%	100%	100%	14%	86%		100%
Proteus mirabilis	12		92%	92%	92%	100%	100%	100%	83%	100%	100%	83%			100%		83%
Pseudomonas aeruginosa	9	100%				100%	100%		67%		100%	63%	100%		100%	100%	

### **General Notes:**

- Antibiogram for Gram Negative Bacteria isolated from January 01, 2022 to December 31, 2022.
- \* All data is derived from the Epicenter Microbiological Management Program.
- \* Data is from specimens collected from the Emergency Department, Acute Care, Out Patients, and Clinic Patients.
- \* Susceptibility is based on CLSI (Clinical Laboraory Standards Institute) breakpoints for the individual microorganisms.
- \* The antibiotics reported for each microorganisms group is based on the CLSI M100 publication.
- Only the first isolate of a given species per patient, per analysis period, should be included in antibiogram reporting.
- \* The numbers represent the percentage of isolates that are susceptible to the antimicrobal. Antibiotics that are less than 75% are not to be considered a drug of choice.
- \* If <30 isolates, use caution extrapolating results: data may be inconclusive for therapeutic efficacy and selection of empiric treatment.
- \* Antibiotics for Urine Specimens: Nitrofurantoin is only reported on urine through the Electronic Helath Record.

#### **SUMMARY:**

- 1. CRE: 0 CRE identified in 2022, 1 in 2021, 0 in 2020, 2019, 2018, 2016, 2015, 2014, 2013. One CRE identified in 2017.
- 2. ESBL: 9 (4 new patients) identified in 2022, 2 in 2021, 7 in 2020, 6 In 2019, 5 in 2018, 1 in 2017, 4 in 2016, 4 in 2015, 4 in 2014.
- 3. Levofloxacin is to be given ONY if all other antibiotics are resistant.
- 4. No significant change in sensitivity pattern for gram negative organisms in 2022.
- 5. Continue antibiotic formulary.

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# forks Community Hospital 530 Bogachiel Way - Forks, WA

# **GRAM NEGATIVE ANTIBIOGRAM - 2022**

# 2021 numbers for comparison

2021	# of isolar.	Amikaci <sub>n</sub>	Ampicillin	Ampicilling	Cefazoli <sub>n</sub>	Cefepline	Ceffazidim	Ceffriakono	Cibrofloyani	Ertapenem	Gentamicin	Levofloxaci	Nitrofurant	Piperaciliis	Tobramycis	Trim/Sulfa	
Gram Negative Isolates																	
Citrobacter freundii/C koseri	11						100%	94%	100%	100%	100%	100%	100%	100%		100%	
Enterobacter cloacae	12			100%	100%	100%	100%	100%	100%	100%	100%	100%	50%	100%		100%	
Escherichia coli	237		69%	71%	95%	98%	98%	98%	86%	99%	98%	86%	99%	100%		83%	
Klebsiella oxytoca	8			63%	88%	100%	100%	100%	100%	100%	100%	100%	100%	100%		100%	
Klebsiella pneumoniae	29			75%	77%	79%	79%	82%	81%	98%	89%	89%	54%	89%		79%	
Klebsiella aerogenes	8			0%	0%	100%	83%	83%	100%	100%	100%	100%	67%	83%		100%	
Proteus mirabilis	12		75%	75%	55%	100%	100%	92%	75%	100%	83%	75%		75%		75%	
Pseudomonas aeruginosa	13	100%				92%	85%		69%		92%	62%		92%	100%		

## Forks Community Hospital 530 Bogachiel Way - Forks, WA

#### **GRAM POSTIVE ANTIBIOGRAM - 2022**

2022	# Of 1.c	Ampicii:	Amoxicinis	Cefepine	Cefotaxim	Ceftriaxon	Clindamuss	Erythropm	Gentamic:	Levorloxes	Linezolid	Moxifloxaci	Nitrofurans	Oxacillis.		Quinupri	Sulfamett.	Tetracyclis.	Vancomycir	
Gram Positive Isolates																				1
Staphylococcus aureus	72						89%	59%	97%		99%		100%	64%	0%		91%	97%	100%	l
Staphylococcus epidermidis	30						70%	100%	100%		88%		100%	30%	0%			100%	100%	l
Staphylococcus saprophyticus	8						88%	0%	100%		100%		100%	13%				100%		l
Staphylococcus haemolyticus	3						33%	0%	100%		100%		100%	67%				0%	100%	l
Staphylococcus hominis	4						0%	0%	67%		67%		100%	33%				100%		l
Streptococcus agalactiae (Group B)	30			94%	94%	94%	39%	33%							94%				100%	l
Streptococcus pyogenes (Group A)	8			100%	100%	100%	88%	88%							100%				100%	
Streptococcus pneumoniae	1			100%	100%		100%	100%		100%		100%			100%		100%	100%		İ
Streptococcus intermedus	2		100%	100%	100%	100%							1000		100%			1 - 2 - 6	100%	İ
Enterococcus faecalis	22	95%								86%	86%		100%			==0		18%	100%	İ
Enterococcus faecium	2	0%								100%	100%					75%		0%	100%	l

#### **General Notes:**

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- The antibiotics reported for each microorganisms group is based on the CLSI M100 publication.
- Only the first isolate of a given species per patient, per analysis period, should be included in antibiogram reporting.
- The numbers represent the percentage of isolates that are susceptible to the antimicoribal. Antibiotics that are less than 75% are not to be considered a drug of choice.
- If <30 isolates, use caution extrapolating results: data may be inconclusive for therapeutic efficacy and selection of empiric treatment.
- Antibiotics for Urine Specimens: Do not use Clindamycin and Erythromycin. These are not included in the report through the Electronic Health Records.

### **Summary:**

- 1. MRSA: 36% identified in 2022 compared to 32% in 2021, 31% in 2020, 39% in 2019, 45% in 2018, 49% in 2017 and 52% in 2016.
- 2. VISA & VRSA: 0% identified in 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2013, 2012 or in 2011. 3% identified in 2014.
- 3. VRE: 0% identified in 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012, or in 2011.
- No significant change in sensitivity pattern for gram positive organisms in 2021.
- 5. Continue antibiotic formulary.

# Forks Community Hospital 530 Bogachiel Way - Forks, WA

# **GRAM POSTIVE ANTIBIOGRAM - 2022**

2021 Numbers for Comparison

2021	# of ise.	Ampicina	Amoxicilli <sub>n</sub>	Cefepime	Cefotaxime	Ceftriaxone	Clindamycin	Erythromycin	Gentamicin	Levofloxacin	Linezolid	Moxifloxacin	Nitrofurantoir	Oxacillin	Penicillin G	Ouinupr <sub>ises</sub>	Sulfamethov	Tetracycline	Vancomycin
Gram Positive Isolates																			
Staphylococcus aureus	86						89%	48%	100%		100%		100%	69%	0%		88%	96%	100%
Staphylococcus epidermidis	21						75%	35%	100%		100%		100%	45%	0%			90%	100%
Staphylococcus saprophyticus	10						56%	22%	100%		100%		100%	0%	0%			100%	100%
Staphylococcus haemolyticus	7						100%	57%	86%		100%		100%	71%	0%			86%	100%
Staphylococcus lugdunensis	7						86%	86%	86%		100%		100%	100%	0%			100%	100%
Streptococcus agalactiae (Group B)	24			82%	91%	91%	64%	55%							86%				100%
Streptococcus pyogenes (Group A)	11			91%	91%	91%	64%	55%							86%				100%
Streptococcus pneumoniae	2			100%	100%	100%	100%	100%		100%		100%			100%		50	100%	100%
Streptococcus intermedus / saguinis	6		100%	100%	67%	100%									100%				100%
Enterococcus faecalis	25	88%								88%	96%		100%		100%			28%	100%
Enterococcus faecium	2	100%								100%	100%							100%	100%