



**PARTICIPANT STATISTICS**

Specimen 1 - 24 year old Female, flank pain

Organisms	Extent 1	2	3	4	5
250 <i>Corynebacterium</i> sp., NOS			1	3	
470 <i>Proteus</i> sp., NOS	1	5	3		
472 <i>Proteus mirabilis</i>	3	16	15	11	
542 <i>Staphylococcus</i> sp., coagulase-negative, NOS				1	
690 Aerobe found, but referred for ID	43	2	2		
697 No pathogens isolated	2				
698 No aerobic growth	4				
891 Organism is gram-negative	4	2	17	4	
913 <i>Proteus</i> or <i>Pseudomonas</i>		2	11		
991 Growth of gram-negative organisms	22	5	5		
992 Growth of gram-positive organisms	1		1		
TOTAL PARTICIPANTS	77	19	56	23	11

Extent 1, 2 and 3 flagging appears for failure to report 470, 472, 690, 891, 913 or 991.

Extent 4 and 5 flagging appears for failure to report 472.

In addition to the required organism, participants in all extents may report 250, 253, 892, 992 and any of the codes listed in Extent 1, 2 and 3.

This urine had *Proteus mirabilis* and *Corynebacterium* sp.

Proteus are highly motile, even swarming bacteria with a pungent odor that reveals itself when the incubator is opened. Positive urea and phenylalanine tests prove it to be a *Proteus*, and negative indol proves it to be *mirabilis*. Motile anal flora migrate from anus to the bladder quickly and multiply. Pain is proof of cystitis.

Do AST on the Urine Panel, as agents change quickly in institutions. Ampicillin or carbenicillin used to work. Diphtheroids are skin flora.

Specimen 2 - 27 year old Female, frequency pain

Organisms	Extent 1	2	3	4	5
310 <i>Escherichia</i> sp., NOS			7		
312 <i>Escherichia coli</i>	1	3	5		
690 Aerobe found, but referred for ID	43	1	2		
698 No aerobic growth	1				
891 Organism is gram-negative	1	2	2		
892 Organism is gram-positive			1		
911 <i>E. coli</i> , <i>Citrobacter</i> or <i>Enterobacter</i>	1	4	5		
991 Growth of gram-negative organisms	19	2	3		
TOTAL PARTICIPANTS	65	10	23	5	

Extent 1, 2 and 3 flagging appears for failure to report 310, 312, 690, 891, 911 or 991.

Extent 4 and 5 flagging appears for failure to report 312.

In addition to the required organism, participants in all extents may report any of the codes listed in Extent 1, 2 and 3.

This specimen contained only *Escherichia coli*.

The major sex, age, symptoms and causative-organism are united. *E. coli* is IDed by its flat, green-sheen colony on EMB agar, confirmed by ONPG, or lactose and indol positives, and urea and oxidase negatives.

Ampicillin is the first choice for treatment, resistance dictates AST Urine Panel to confirm, or choose alternatives.

Specimen 3 - 24 year old Female, frequency

Organisms	Extent 1	2	3	4	5
540 <i>Staphylococcus</i> sp., NOS			4		
542 <i>Staphylococcus</i> sp., coagulase-negative, NOS	2	19			
546 <i>Staphylococcus epidermidis</i>			6	3	
549 <i>Staphylococcus saprophyticus</i>			1		
690 Aerobe found, but referred for ID	41	2	3		
697 No pathogens isolated			2	2	
698 No aerobic growth	3				
892 Organism is gram-positive	2	2	3		
912 <i>Klebsiella</i> , <i>Staphylococcus</i> or <i>Streptococcus</i>			2		
992 Growth of gram-positive organisms	19	4	1		
TOTAL PARTICIPANTS	65	10	41	5	

Flagging in all extents appears for reporting other than 540, 542, 546, 690, 697, 698, 892, 912 and 992.

Only *Staphylococcus epidermidis* was in this urine.

More than half of urine specimens are "no growth," or, "no pathogens found" reports. An

**URINE CULTURE**

**SECOND QUADRIMESTER 2011**

"abused urine," collected early, but left unrefrigerated, allows small numbers of skin contaminants to grow to detectable numbers in colony-count dilutions. Request a repeat urine.

Do report, "No pathogens found." Do not report the staph - they may want to treat it

Specimen 4 - 10 year old Male, flank pain, fever

Organisms	Extent 1	2	3	4	5
250 <i>Corynebacterium</i> sp., NOS		1		2	
310 <i>Escherichia</i> sp., NOS			6		
312 <i>Escherichia coli</i>	1	3	15	4	
661 Neg for beta-hemolytic strep screen	2	2			
663 Neg for Grp A strep screen by culture	18	14	14		
664 Pos for Grp A strep screen by culture	1				
690 Aerobe found, but referred for ID	21	2	2		
698 No aerobic growth 1					
891 Organism is gram-negative		2	2		
892 Organism is gram-positive	1		1		
911 <i>E. coli</i> , <i>Citrobacter</i> or <i>Enterobacter</i>	1	1	5		
991 Growth of gram-negative organisms	7	1	2		
TOTAL PARTICIPANTS	53	26	47	6	

Extent 1, 2 and 3 flagging appears for failure to report 310, 312, 661, 663, 690, 891, 911 or 991.

Extent 4 and 5 flagging appears for failure to report 312.

In addition to the required organism, participants in all extents may report 250, 253, 892, 992 and any of the codes listed in Extent 1, 2 and 3.

Found here were *Escherichia coli* and *Corynebacterium* sp.

*E. coli* is the most frequently found pathogen in a clinical full service laboratory. Unless it is in a "normal stool," it must be assumed to be a pathogen. Men and boys are a small minority of UTI cases but in this patient, either bladder or kidneys or both, may be infected.

ID the organism with reagent strips for ONPG / lactose and indol positives, and urea and oxidase negatives.

Ampicillin is the first choice; AST Urine Panel back-up for alternatives is required.

Specimen 5 - 75 year old Female, Foley catheter

Organisms	Extent 1	2	3	4	5
250 <i>Corynebacterium</i> sp., NOS		1		2	
360 <i>Klebsiella</i> sp., NOS		8			
366 <i>Klebsiella pneumoniae</i>		3	14	4	
661 Neg for beta-hemolytic strep screen	2	2			
663 Neg for Grp A strep screen by culture	17	13	14		
664 Pos for Grp A strep screen by culture	2				
690 Aerobe found, but referred for ID	21	2	2		
696 No aerobic growth on blood agar		1			
698 No aerobic growth	1				
891 Organism is gram-negative		3	1		
892 Organism is gram-positive			1		
911 <i>E. coli</i> , <i>Citrobacter</i> or <i>Enterobacter</i>			1		
913 <i>Proteus</i> or <i>Pseudomonas</i>	1				
914 <i>Klebsiella</i> or <i>Enterobacter</i>			5		
991 Growth of gram-negative organisms	7	2	1		
TOTAL PARTICIPANTS	51	27	47	6	

Extent 1, 2 and 3 flagging appears for failure to report 360, 366, 661, 663, 690, 696, 891, 912, 914 or 991.

Extent 4 and 5 flagging appears for failure to report 366.

In addition to the required organism, participants in all extents may report 250, 253, 892, 992 and any of the codes listed in Extent 1, 2 and 3.

This urine had *Klebsiella pneumoniae* and *Corynebacterium* sp.

The Foley catheter is misused when it merely avoids clean-ups for incontinent patients; diapers are used and frequently changed as necessary. Only medical necessity warrants it, because only four years on a Foley will cause 100% infections; the older the patient, the greater the mortality. *Klebsiella pneumoniae*. MOI tubes are nonmotile, indol and ornithine negative. Do AST.