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Prosthetic Joint Infection Panel by PCR

3020347, PJIPCR

Specimen Requirements:	
Patient Preparation:	N/A
Collect:	Synovial Fluid (SF)
Specimen Preparation:	Transfer 0.5 mL synovial fluid to a sterile ARUP standard transport tube (ARUP supply #43115) available online through eSupply using ARUP Connect or contact ARUP Client Services at 800-522-2787. (Min: 0.25 mL) Do not centrifuge.
Transport Temperature:	Refrigerated or frozen
Unacceptable Conditions:	Specimens that have been pre-processed or placed into transport media or treated with anticoagulants before testing.
Remarks:	
Stability:	Ambient: 8 hours Refrigerated: 7 days Frozen: 7 days
Methodology:	Qualitative Polymerase Chain Reaction (PCR)
Note:	<p>This assay detects <i>Anaerococcus prevotii/vaginalis</i>, <i>Finnegoldia magna</i>, <i>Streptococcus</i> spp., <i>Clostridium perfringens</i>, <i>Parvimonas micra</i>, <i>Streptococcus agalactiae</i>, <i>Cutibacterium avidum/granulosum</i>, <i>Peptoniphilus</i>, <i>Streptococcus pneumoniae</i>, <i>Enterococcus faecalis</i>, <i>Peptostreptococcus anaerobius</i>, <i>Streptococcus pyogenes</i>, <i>Enterococcus faecium</i>, <i>Staphylococcus aureus</i>, <i>Staphylococcus lugdunensis</i>, <i>Bacteroides fragilis</i>, <i>Kingella kingae</i>, <i>Proteus</i> spp., <i>Citrobacter</i>, <i>Klebsiella aerogenes</i>, <i>Pseudomonas aeruginosa</i>, <i>Enterobacter cloacae</i> complex, <i>Klebsiella pneumoniae</i> group, <i>Salmonella</i> spp., <i>Escherichia coli</i>, <i>Morganella morganii</i>, <i>Serratia marcescens</i>, <i>Haemophilus influenzae</i>, <i>Neisseria gonorrhoeae</i>, <i>Candida</i> spp., and <i>Candida albicans</i>.</p> <p>This panel contains assays for the detection of genetic determinants associated with <i>S. aureus</i> resistance to methicillin (<i>mecA/C</i> in conjunction with the <i>SCCmec</i> right extremity junction (MREJ)), enterococcal resistance to vancomycin (<i>vanA</i> and <i>vanB</i>) and some mechanisms of gram-negative bacterial resistance to beta-lactams including penicillins, cephalosporins, monobactams, and carbapenems (<i>blaCTX-M</i>, <i>blaIMP</i>, <i>blaKPC</i>, <i>blaNDM</i>, <i>blaOXA-48-like</i>,</p>

blaVIM). Negative results for these select antimicrobial resistance gene assays do not indicate susceptibility, as multiple mechanisms of resistance to methicillin, vancomycin, and beta-lactams exist.

CPT Codes: 87999

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

Negative results may be due to infection with pathogens that are not detected by this test, pathogens present below the limit of detection of the assay, or infection that may not be detected in a synovial fluid specimen. Positive results do not rule out co-infection with other organisms.

Reference Interval:

HOTLINE NOTE: Refer to the Hotline Test Mix for interface build information.