Lab Dept:

Microbiology

Test Name: CATHETER TIP CULTURE

General Informatio	n
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Lab Order Codes:	CTC
Synonyms:	Culture, Catheter Tip; Culture, Arterial Catheter Tip; Culture, Broviac Catheter Tip; Culture, CVP Catheter Tip; Culture, Hickman Catheter Tip; Culture, Swan Gantz Catheter Tip; Culture, Tenckhoff Catheter Tip; Culture, Umbilical Arterial Catheter Tip (UAC)
CPT Codes:	87071 – Culture, bacterial; quantitative, aerobic with isolation and presumptive identification of isolates, any source except urine, blood or stool
	The following testing may be added if appropriate based on findings for organism identification (multiple additions are possible if more than one organism is identified) and to aid in patient treatment management.
	 87077 - Aerobic isolate, additional methods required for definitive identification, each isolate (if appropriate) 87106 - Culture, fungi, definitive identification, each organism, yeast (if appropriate) 87107 - Culture, mold, definitive identification, each organism, mold (if appropriate) 87147 - Culture, typing; immunologic method, other than immunofluorescence (e.g., agglutination grouping), per antiserum (if appropriate) 87184 - Susceptibility studies, disk method, per plate (if appropriate) 87185 - Enzyme detection (eg, beta lactamase), per enzyme (if appropriate) 87186 - Susceptibility studies, microdilution or agar dilution, each multiantimicrobial, per plate (if appropriate) 87206 - Smear, primary source with interpretation, fluorescent and/or acid fast stain for bacteria, fungi or cell types (if appropriate)
Test Includes:	Quantitative culture of aerobic flora; susceptibility testing if requested.
	Refer to <u>Miscellaneous Culture and Gram Stain</u> for specimens other than intravascular catheter tip, example: ventricular peritoneal shunt tubing, tracheostomy tubing, port-a-cath hub.
Logistics	

Lab Testing Sections:	Microbiology
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	STP Lab: 651-220-6555
Test Availability:	Daily, 24 hours
Turnaround Time:	Preliminary report available at 1 day, final report within 2 - 5 days.
Special Instructions:	 Specimen site and date/time of collection are required for processing. Foley catheters are not acceptable.
Specimen	
Specimen Type:	Catheter tip
Container:	Sterile container
Volume:	2 inch segment
Collection:	 Before removing the catheter, cleanse the skin around insertion site with 70% alcohol to reduce contaminating skin flora and remove any residual antimicrobial ointment. Allow to dry. Aseptically remove catheter and clip 2 inches of the distal tip of the catheter directly into a sterile container. Transport directly to the Microbiology Laboratory to prevent drying.
Transport/Storage:	Transport within 15 minutes to the Microbiology Laboratory at room temperature.
Sample Rejection:	Specimen with a transit time exceeding 1 hour after collection; Foley catheter tips; specimen not submitted in appropriate transport container; improperly labeled specimen; insufficient volume. If an unacceptable specimen is received, the physician or patient's nurse will be notified and another specimen will be requested before the specimen is discarded.
Interpretive	
Reference Range:	<15 colonies per plate
Alert Value:	 Gram-negative rods identified as ESBL or Carbapenemase producers will be called to the physician or patient's nurse. Infection Prevention will be notified. If MRSA is isolated for the first time, and the patient location is not Emergency department, the result will be called to the physician or patient's nurse.
Methodology:	Quantitative method described by DG Maki

Additional Information:	Patients with catheter related septicemia will usually have >15 colonies per plate. Patients with inflammation at the catheter site but no related septicemia will usually have <15 colonies per plate.
References:	Cook, JH, and M Pezzlo (1992). Specimen receipt and accessioning. Section 1. Aerobic bacteriology, 1.2.1-4. In HD Isenberg (ed) Clinical Microbiology Procedures Handbook. American Society for Microbiology, Washington DC
	Miller, J Michael (1999) A Guide To Specimen Management in Clinical Microbiology, American Society for Microbiology, Washington DC
	Miller, J Michael, and HT Holmes (1999) Specimen Collection, Transport, and Storage In PR Murray et al, (ed), Manual of Clinical Microbiology, 7 th edition, American Society for Microbiology, Washington DC, pp 33-104
Updates:	3/22/2010: CPT Updates 3/7/2011: CPT Updates 6/19/2012: Addition of Alert Value