

Important information on page 2

Recommendations and Definitions

Definition of Immunocompromised¹ includes:

- -Receiving current chemotherapy for malignancy, including but not limited to chemotherapy within the last 6 months, any oral anti-cancer agent, and immunotherapy with check point inhibitor or equivalent
- -Hematologic malignancy
- -Untreated HIV infection and CD4 T lymphocyte count < 200
- -Primary severe immunodeficiency disorders
- -Solid organ transplant recipient
- -Hematopoietic stem cell (bone marrow) transplant recipient within the last 2 years
- -CAR-T therapy within the last 2 years
- -Receipt of prednisone of 20 mg/day (adult patients) and 1mg/kg/day (pediatric patients) or the equivalent for more than 14 days, or treatment with other high-risk immunosuppressive medications as determined by the clinical team
- -Other conditions as defined by treating provider

DTTP (Differential time to positivity)²: for patients with concerns for sepsis, do not delay antimicrobials if >2 attempts and unable to obtain peripheral sample. DTTP defined as pathogen growth at least 2 hours earlier from catheter versus paired peripheral blood cultures (simultaneously drawn, with equal blood volume). Use the DTTP order set in APeX.

Recommendations for blood cultures for patients with central venous catheters and no signs of sepsis:

1) IMMUNOCOMPETENT

• For **NEW or PERSISTENT fever**, culture 1 lumen of CVC and consider 1 peripheral venipuncture every 24hrs

2) IMMUNOCOMPROMISED

- For NEW fever, culture all lumens of CVC that are able to be accessed (if on pressors, do not culture that lumen) and consider DTTP
- For PERSISTENT fevers, without signs of sepsis, if initial set of blood cultures from all lumens of CVC:
 - were NOT obtained, culture all lumens of CVC that are able to be accessed (if on pressors, do not culture that lumen) and consider DTTP
 - were obtained and negative to date, if:
 - patient has a new clinical decompensation OR plan to broaden antimicrobials, culture one lumen of CVC, OR
 - patient otherwise clinically stable and no plan to broaden antimicrobials, culture one lumen of CVC daily (alternate lumens if possible) for the first 72hrs of fever and then space out to q48hrs

General Recommendations:

Do NOT obtain blood cultures from existing peripheral IVs or arterial catheters:

- 1. CDC: https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-who-are-immunocompromised.html
- 2. Clinical Practice Guidelines for the diagnosis and management of intravascular catheter-related infections:2009 update by IDSA. Mermel et al., Clinical Infectious Diseases, 2009 (https://doi.org/10.1086/599376)