

Syndrome	Microbiological Comparison Diagnostics	Estimated cases per month	Key Stakeholders
<b>Severely immunocompromised<sup>1</sup> patients with pneumonia</b>	<ul style="list-style-type: none"> <li>• Blood cultures</li> <li>• Serum galactomannan and B-d-glucan</li> <li>• Broncheolar lavage bacterial, fungal and AFB cultures</li> <li>• Broncheolar lavage galactomannan</li> </ul>	10-15	Transplant Infectious Disease Bone Marrow Transplant Solid Organ Transplant groups Critical Care
<b>Fulminant CNS infection <u>and</u> CNS/CSF sampling is not feasible</b>	<ul style="list-style-type: none"> <li>• Blood cultures</li> <li>• Serological tests as indicated</li> </ul>	<1 (very uncommon scenario)	Transplant Infectious Disease General Infectious Disease Neurology Critical Care
<b>Fulminant infection <u>and</u> strong epidemiologic concern for atypical infection</b>	<ul style="list-style-type: none"> <li>• Blood cultures</li> <li>• Serological tests as indicated</li> </ul>	5-10	Transplant Infectious Disease General Infectious Disease Hospital Medicine
<b>Culture-negative endocarditis or other intra-vascular infection</b>	<ul style="list-style-type: none"> <li>• Serological tests as indicated</li> <li>• Cultures on explanted tissue</li> <li>• Universal PCR on explanted tissue</li> </ul>	1-2	Transplant Infectious Disease General Infectious Disease Hospital Medicine Cardiology Vascular Surgery
<b>Fever of unknown origin and negative initial workup</b>	<ul style="list-style-type: none"> <li>• Blood cultures</li> <li>• CT chest/abdomen/pelvis</li> <li>• Serological tests as indicated</li> </ul>	1-2	Transplant Infectious Disease General Infectious Disease Hospital Medicine
<b>Deep seated abscesses/lesions and negative initial workup</b>	<ul style="list-style-type: none"> <li>• Blood cultures</li> <li>• Sample bacterial, fungal, and AFB cultures</li> <li>• Universal PCR on clinical samples</li> </ul>	2-3	Transplant Infectious Disease General Infectious Disease Hospital Medicine Surgical Services

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<sup>1</sup>Severe immunocompromise is defined as any of the following: bone marrow transplant <1 year for transplant, solid organ transplant <1 year from transplant, primary immunodeficiency, HIV with CD4<200, or B-cell depleting therapy specifically (rituximab)