

Table VI. Laboratory tests for infectious causes of fever and rash (Common and uncommon causes)

Condition	Tests	Evidence Rate
Infectious mononucleosis	Serology (CMV and Epstein-Barr virus). <u>Monospot non-specific.</u>	
Erythema infectiosum (fifth disease)	Parvovirus B19 serology. Skin biopsy rarely done, non-specific.	
Primary HIV infection	Quantitative plasma HIV-1 RNA levels (viral load). <u>HIV serology</u> (delay at least 1 month after acute illness).	
Rickettsial spotted fever	Serology (look for specific tests).	
Lyme disease	Serology.	
Rocky Mountain Spotted fever	Serology; skin biopsy with direct fluorescent antibody testing is diagnostic and often done, if available.	C
Secondary syphilis	Rapid plasma reagin testing. Skin biopsy may help to rule out other conditions.	
Scarlet fever	Antistreptolysin O titer; throat culture.	
Toxic shock syndrome	Complete blood count (CBC) with thrombocytopenia; blood cultures. Skin biopsy nonspecific and not often done.	
<i>Staphylococcal</i> scalded skin syndrome	Skin biopsy is diagnostic and routinely done to distinguish from toxic epidermal necrolysis. Bullae, eyes, nose and throat cultures.	C
Kawasaki disease	CBC with leukocytosis and thrombocytosis. Measure C-reactive protein and erythrocyte sedimentation rate.	
Dermatitis herpetiformis	Skin biopsy with direct immunofluorescence.	C
Meningococcemia	Positive cultures of blood, lesions and cerebrospinal fluid. Positive buffy coat Gram stain.	
Dengue, Chikungunya, Zika	During the first week of onset of symptoms, serum testing with real-time reverse transcription-polymerase chain reaction (rt-PCR) is the preferred test. For Zika, now urine samples should be collected less than 14 days after onset of symptoms for rRT-PCR testing. IgM neutralizing antibodies usually develop after the first two weeks of infections for dengue, chikungunya and zika infections. Cross reactivity between <u>filoviruses</u> have been observed.	

David L Wyles 7/8/16 16:59
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David L Wyles 7/8/16 16:59
Comment [1]: Would either include for all or delete. Not sure an evidence rating is necessary.

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David L Wyles 7/8/16 17:03
Comment [2]: 4th generation antibody/antigen (p24) tests are generally positive earlier including in acute infection.

David L Wyles 7/8/16 17:06
Comment [3]: Did you mean flaviviruses?