New Definition Issued for Periprosthetic Joint Infection



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	a sinus tract is present communicating with the prosthesis; or	
two or more separate tissue or fluid samples obtained from the affected prosthetic joint are culture-positive		
	for a pathogen; or	
	four of the following 6 criteria are present:	
1.	elevated erythrocyte sedimentation rate and serum C-reactive protein concentration,	
2.	elevated synovial leukocyte count,	
3.	elevated synovial percentage of neutrophils,	
4.	purulence in the affected joint,	
5.	one culture of periprosthetic tissue or fluid is positive for a microorganism, or	
6.	histologic analysis of periprosthetic tissue at x400 magnification reveals more than 5 neutrophils per	
	high-power field in 5 high-power fields.	
	1. 2. 3. 4. 5.	

If fewer than 4 of these criteria are met, PJI may still be present.

To date, the Knee Society, the Hip Society, the Infectious Diseases Society of North America, the American Academy of Orthopaedic Surgeons, and the US Centers for Disease Control and Prevention have reviewed and endorsed the new definition.

"We recognize there are numerous other tests currently being evaluated, including measurement of [C-reactive protein] from the synovial fluid, synovial leukocyte esterase, sonication of explanted prosthetics, and molecular techniques such as [polymerase chain reaction] and other molecular markers such as [interleukin 6]," the symposium paper authors conclude. "As these or other techniques become validated and widely available, the currently proposed definition may require modification."

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