



## Routes for Central Venous Catheter Contamination with Microorganisms

Potential sources of infection of a percutaneous intravascular device (IVD): the contiguous skin flora, contamination of the catheter hub and lumen, contamination of infusate, and hematogenous colonization of the IVD from distant, unrelated sites of infection. HCW: health care worker.

**Source:** Crnich CJ, Maki DG. The promise of novel technology for the prevention of intravascular device-related bloodstream infection. I. Pathogenesis and short-term devices. *Clin Infect Dis.* 2002 May 1;34(9):1232–1242 by permission of the Infectious Diseases Society of America.