Getting to Zero

Eliminating Blood Culture Contamination with an Initial-Specimen Diversion Device

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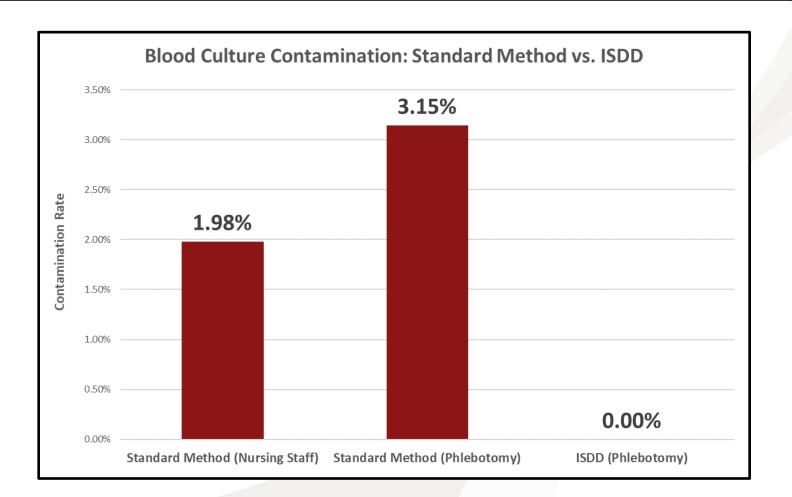
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Steripath® Gen2 Initial-Specimen Diversion Device





Table: Stanford Health Care blood culture collection methods and contamination events (March 15, 2019 - July 21, 2019)				
	Matched Sets	Contaminated Sets	Contamination Rate	False-Positive CLABSIs
Standard Method (Nursing Staff)	1,413	28	1.98%	0
Standard Method (Phlebotomy)	922	29	3.15%	1
Standard Method (Combined)	2,335	57	2.44%	1
ISDD (Phlebotomy)	4,462	0	0.00%	0







Antibiotic Utilization

Positive blood culture sets with possible contaminants were treated as true infection in 9 patients (19%)

(8 out of 9 providers were infectious disease physicians). Treatment rationale: most patients had hardware in place and providers felt that Rx was necessary.

Antibiotics continued beyond 48 hours for treatment of "true" infection in 6 patients (14%)

(one patient received 6 weeks of IV antibiotics for what was likely CNS-contaminated blood cultures)



Summary

ISDD (Steripath® Gen2) usage by phlebotomists led to a substantial decrease in contaminated blood cultures: Zero Contaminants

ISDD usage led to substantial decrease in CLABSIs caused by skin organisms (also VRE and Candida sp.)

Excess antimicrobial therapy was noted in several patients who had contaminated blood cultures

ISDD usage can...

- Impact inappropriate antibiotic usage
- **■** Improve correct diagnoses
- Minimize patient discomfort
- Reduce HAIs related to longer lengths of stay
- Improve patient safety and outcomes

