the contamination of OR environmental sites. Methods: This investigation was conducted in the ORs of an academic facility during an 8-month period. It involved 10 patients on contact precautions for multidrug-resistant pathogens, including methicillinresistant *Staphylococcus aureus* (MRSA; n = 7); carbapenemresistant Enterobacteriaceae (CRE) plus MRSA (n = 2); and vancomycin-resistant *Enterococcus* (VRE) plus MRSA (n = 1), who underwent surgery. Environmental sampling was performed at the following time points: (1) immediately before the surgical patient's arrival in the OR, (2) after surgery but before the OR cleaning and disinfection, and (3) after the OR cleaning and disinfection. In total, 1,520 environmental samples collected from 15 OR sites for 10 surgical patients at 3 time points were analyzed. Relatedness among environmental MRSA isolates was determined by pulsed-field gel electrophoresis. Results: Overall, the mean CFUs of aerobes per Rodac plate (CFU/25 cm²) were 10.1 before patient arrival, 14.7 before cleaning and disinfection, and 6.3 after cleaning and disinfection (P < .0001, after cleaning and disinfection vs before cleaning and disinfection). Moreover, 7 environmental sites (46.7%) after cleaning and disinfection, including bed, arm rest, pyxis counter, floor (near, door side), floor (far, by door), steel counter (small, near bed), and small computer desk, had significantly lower mean counts of aerobes than before patient arrival or before cleaning and disinfection (Fig. 1). The mean CFUs of MRSA per Rodac plate (CFU/25 cm²) were 0.04 before patient arrival, 0.66 before cleaning and disinfection, and 0.08 after cleaning and disinfection (P = .0006, after cleaning and disinfection vs before cleaning and disinfection). Of environmental sites where MRSA was identified, 87.2% were on floors (41 of 47) and 19.1% were after cleaning and disinfection (9 of 47, 8 from floors and 1 from pyxis touchscreen). The A2/B2 MRSA strain was identified on different environmental sites (eg, floor, computer desk, counter) in various rooms (eg, OR2, OR10, and OR16), even after cleaning and disinfection (Fig. 2). Conclusions: Our study has demonstrated that the OR environment was contaminated with aerobic bacteria and MRSA after surgery and that MRSA persisted in the environment even after cleaning and disinfection. Enhanced environmental cleaning in the perioperative environment used for patients on isolation is necessary to prevent transmission of healthcare-associated pathogens in ORs.

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Presentation Type:

Poster Presentation

Peripherally Inserted Central Catheters Present on Admission and the Risk of Central-Line-Associated Bloodstream Infection Patrick Burke, Cleveland Clinic; Elise Nickoli, Cleveland Clinic; Joanne Sitaras, Cleveland Clinic; Wanda Mullins, Cleveland Clinic; Patricia Dandache, Cleveland Clinic

Background: Patients presenting to hospitals often arrive with peripherally inserted central catheters (PICC) in place upon admission. The admitting facility may not be familiar with that device's history and the unknown risk for bloodstream infection associated with it often prompts requests for device replacement. A blanket approach to "change all lines" must be balanced with the potential for patient discomfort and insertion-related complications. To better inform our approach to prevention, we determined

Table – Frequency and attack rates (AR) per 100 admissions of central line-associated bloodstream infection (CLABSI) during patient encounters with peripherally inserted central catheters (PICC) in place on admission (POA) and placed after admission (PAA), eleven hospitals, 2018

Hospital	PICC POA			PICC PAA		
	n CLABSI	n encounters	AR	n CLABSI	n encounters	AR
A	18	1 047	1.72	59	3 129	1.89
В	3	161	1.86	13	715	1.82
С	1	40	2.50	2	267	0.75
D	1	113	0.88	3	716	0.42
E	0	223	-	8	894	0.89
F	0	83	-	2	454	0.44
G	0	23	-	1	144	0.69
Н	0	41	-	1	209	0.48
I	0	35	2	0	226	-
J	0	18	-	0	102	-
K	0	15	-	0	171	-
TOTAL	23	1 799	1.28	89	7 028	1.27

the incidence of central-line-associated bloodstream infection (CLABSI) in adult patients presenting to hospitals in our health system with a PICC present on admission (POA), relative to those who have a PICC placed after admission (PAA). Methods: This retrospective cohort study included all adult hospital encounters at 11 Cleveland Clinic acute-care hospitals lasting > 2 days in 2018 with electronic medical record nursing care flowsheet documentation of a PICC during the stay. Patients whose admission diagnosis was related to intravascular catheter infection, children aged <18 years, and observation unit encounters were excluded. Patients were categorized as having a PICC POA if a nurse selected that option on a PICC flowsheet, otherwise the patient was categorized has having a PICC PAA. Surveillance for CLABSI was performed in all inpatient locations at all hospitals according to the NHSN protocol. Patients with \geq 1 CLABSI were matched to encounters by name and date of admission. Repeat infections occurring to the same patient were excluded. Results: Of the 8,827 eligible hospital encounters, 1,799 (20%) involved a PICC POA and 7,028 (80%) had PICCs PAA. Across 11 hospitals, the median proportion of PICC-associated encounters with a device POA was 15% (range, 8%-25%). Moreover, 23 of the 112 CLABSIs (21%) in our cohort occurred in patients with a PICC POA and 89 (79%) occurred in patients with a PICC PAA (Table 1). The overall relative risk of CLABSI, whether the PICC was placed before or after admission, was 1.00 (95% CI, 0.64-1.60). Conclusions: Patients with a PICC present on admission to our hospitals were no more likely to experience a CLABSI than patients who had a PICC placed after admission. Replacing vascular catheters that are POA may not reduce the risk of CLABSI. With up to 25% of PICC-associated encounters having the device POA, universal device replacement at admission would involve hundreds of patients per year at our multihospital health system.

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Presentation Type:

Poster Presentation **Phylogenetic Analysis of Candida auris Isolates From Clinical Samples of Surgical Intensive Care Units** <u>Anup Warrier, Aster Medcity;</u> Rachana Babu; Soniya Joy; ARUN

WILSON, Aster Medcity

Background: Between January and September of 2019, 15 patients acquired *Candida auris* infection in our surgical intensive care unit (SICU). Although the outbreak was controlled by enhancing

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