to obtain closed genomes. WGS was performed on the remaining isolates with the Illumina MiSeq platform.

**Results.** Twenty isolates from NMH, five from ACL, and two from the CDC underwent WGS to yield 12.6 Mb genomes. Any two NMH isolates differed from each other by a maximum of 36 single nucleotide variants (SNV) (Figure 1). Two patients thought to be part of a transmission cluster (isolates CA06 and CA07), differed by 7 SNVs. No phylogenetic grouping between hospital systems across Chicagoland was observed. Isolates from room surfaces from a C. auris patient differed by 1-6 SNVs from each other and from 7-8 SNVs from the patient isolate. Samples taken from different body sites of another patient differed by 4-9 SNVs. Average SNV counts were lower among nosocomially acquired cases when compared to C. auris isolates present on admission (Figure 2). All NMH isolates were fluconazole sensitive, but a fluconazole resistant ACL isolate differed from a sensitive NMH isolate by only 4 SNVs.

**Methods.** A retrospective, observational study was performed in a Dutch teaching hospital. All HCW who had unprotected contact with an MRSA carrier were included in contact tracing. When there had been a long period of unprotected admission prior to an MRSA finding, or when the index case was a HCW, than the entire (nursing) team was tested. All samples of HCWs who were tested for MRSA carriage as part of contact tracing from 2010 until 2018 were included. A pooled nose, throat and perineum swab was collected using the eSwab medium (Copan) and inoculated on chromID MRSA agar plates (bioMérieux) after enrichment in a broth.

**Results.** In total, we included 8,849 samples (range: 677 – 1,448 samples per year) from a total of 287 contact tracings (range: 26 – 55 contact tracings per year). Thirty two HCWs were colonized with MRSA (0.36%; 95%CI 0.26 – 0.51). None of them developed a clinical infection.

**Conclusion.** This study revealed a sustained low MRSA prevalence among samples in contact tracing of healthcare workers, over nine years. Furthermore, it shows that when MRSA contact tracing is performed according to the national guideline only 1 out 1000 samples results in a secondary case. This is similar to the population carriage rate of MRSA in The Netherlands. More frequently, an unrelated strain is found. These findings raise question marks regarding the efficacy of the current strategy to perform contact tracing after unprotected exposure.

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666. **Assessment of Infection Control Training among Healthcare Workers in Three Tertiary Care Public Hospitals, Bangladesh, 2015-17**

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**Background.** Hospital-acquired infections (HAI) are a rising global public health concern that disproportionately affects low and middle-income countries. Healthcare workers (HCW) are the frontline work-stream against HAIs in healthcare settings. As part of a pilot infection prevention and control (IPC) program, we assessed the acceptability of infection control training in practice among HCWs in three public hospitals in Bangladesh to better mitigate HAI risks and occupational exposures.

**Methods.** We piloted an IPC intervention, as a part of the emergency preparedness, from 2015 to 2017 and IPC training was one of the key components. Trained IPC staff conducted a half-day training session for each three different level HCW groups, doctors, nurses and support staff. The training comprised of instructive methods on standard and transmission-based precautions with infection control techniques. A practical demonstration was held followed by hands-on training on hand hygiene steps and mask, gloves use. The participants’ attitudes and practices on infection control measures were obtained through structured observation and qualitative interviews.

**Conclusion.** WGS of C. auris did not reveal identical isolates in any instance, even from the same patient or the patients and their environment. Generally, lower numbers of SNVs were observed for intra- versus inter-institutional isolates. More work is needed to determine the use, if any, of WGS in outbreak investigations.

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Results. A total of 1562 HCW's participated in the training: 804 doctors, 445 nurses and 313 support staff in 26 training sessions. Majority of the participants (85%) did not receive any formal training earlier on infection control and often provided incorrect responses on basic IPC during interactive session. None of the hospitals had an IPC committee. After the training, we found a significant increase from 0% at baseline to 24% (p<0.001) in hand hygiene including 43% (p< 0.001) and 45% (p< 0.001) in mask and gloves use respectively. All respondents (n=84) from the qualitative assessment, reported the training as highly effective which reinforced their learning in action in the hospitals. Participants from all the three groups urged to arrange refresher training more frequently and in small groups to uphold the practices.

Conclusion. This pilot program demonstrated HCW's lack basic IPC principals and tailored IPC training sessions can significantly improve HCW's IPC practice. Formation of active IPC committee could enable arranging periodic refresher and in-service training updates for HCW's with the reallocation of resources to adopt regular IPC practices.

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867. The Scope of a Weekly Infection Control Team Rounding in an Acute-care Teaching Hospital
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Session: P-40: HAI: Occupational Infection Prevention

Background. Activities of infection control and prevention are diverse and complex. Regular and well-organized inspection of infection control is essential element of infection control program. The aim of study was to identify strong points and limitations of weekly infection control rounding (ICTR) in an acute care hospital.

Methods. We conducted weekly ICTR to improve the compliance of infection control in the real field at a 734-bed academic hospital in Republic of Korea. The monitoring team consists of five infection prevention practitioners and four infectious diseases physicians. Total 85 practices of infection control and prevention belonging to the respective category among 9 categories were observed. The result of the rounding are categorized well maintained, improvement is needed, long-term support such as space or manpower is needed, not applicable and could not observed. We investigated retrospectively the functional coverage of a weekly ICTR from January to December 2018.

Results. During the study period, weekly ICTR were performed total 47 times in 37 departments. ICTR visited median 7 times [interquartile range (IQR) 6-7 times] per department. When visiting a department, ICTR observed median 16 practices (IQR 12-22). During the monitoring period, we could observe 7511 practices in total.

Of those results, Most of the practices (74.8%) were able to be monitored properly by ICTR, while some of the practices were not applicable (21.3%) or difficult to observe through ICTR (3.9%). Table 1. The most common practices among the difficult-to-observe group belong to strategies to prevent catheter-related or surgical site infection and pneumonia (13%, 68/538), safety inspection practices (8%, 65/758), linen and laundry management (7%, 33/496), followed by strategies to prevent occupationally-acquired infection (6%, 37/578).

Table 1. Results of infection control team rounding

| Categories of practices | P (%) | R (%) | C (%) | I (%) | D (%) | N (%) | S (%) |
|-------------------------|------|------|------|------|------|------|------|
| Hand hygiene            | 64   | 60   | 6    | 0    | 4    | 0    | 100  |
| Safety inspection practice | 64   | 57   | 12   | 11   | 12   | 0    | 100  |
| Isolation                | 48   | 46   | 12   | 17   | 2    | 0    | 100  |
| Ventilation              | 37   | 34   | 13   | 18   | 5    | 0    | 100  |
| Ventilator-related infection | 39   | 32   | 13   | 17   | 0    | 0    | 100  |
| Passive device infection | 41   | 39   | 13   | 19   | 0    | 0    | 100  |
| Total                    | 7511 | 7166 | 490  | 663  | 213  | 0    | 100  |

Conclusion. ICTR has strength in regular visits to each department. However, additional observation is necessary, especially for prevention of catheter-related infection and surgical site infection.

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868. Investigations of Healthcare-Associated Elizabethkingia Infections – United States, 2013-2019
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Session: P-41: HAI: Outbreaks

Background. Elizabethkingia (EK) are non-motile gram-negative rods found in soil and water and are an emerging cause of healthcare-associated infections (HAIs). We describe Centers for Disease Control and Prevention (CDC) consultations for healthcare-associated EK infections and outbreaks.

Methods. CDC maintains records of consultations with state or local health departments related to HAI outbreaks and infection control breaches. We reviewed consultations involving EK species as the primary pathogen of concern January 1, 2013 to December 31, 2019 and summarized data on healthcare settings, infection types, laboratory analysis, and control measures.

Results. We identified 9 consultations among 8 states involving 73 patient infections. Long-term acute-care hospitals (LTACHs) accounted for 4 consultations and 32 (43%) infections, and skilled nursing facilities with ventilated patients (VSNFs) accounted for 2 consultations and 31 (42%) infections. Other settings included an acute care hospital, an assisted living facility, and an outpatient ear, nose, and throat clinic. Culture sites included the respiratory tract (n=7 consultations), blood (n=4), and sinus tract (n=1). E. anophelis was the most commonly identified species. Six consultations utilized whole genome sequencing (WGS); 4 identified closely related isolates from different patients and 2 also identified closely related environmental and patient isolates.

Conclusion. Mitigation measures included efforts to reduce EK in facility water systems, such as placement of devices related to HAI outbreaks and infection control breaches. We reviewed consultations involving EK species as the primary pathogen of concern January 1, 2013 to December 31, 2019 and summarized data on healthcare settings, infection types, laboratory analysis, and control measures.

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869. Outbreak of Vancomycin Resistant Enterococcus faecium (VREFm) in a Hematology Unit Identified Through Whole Genome Sequencing
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Session: P-50: Outbreaks

Background. EK is an important emerging pathogen that causes HAI outbreaks, particularly among chronically ventilated patients. LTACHs and VSNFs accounted for the majority of EK consultations and patient infections. Robust water management plans and infection control practices to minimize patient exposure to contaminated water in these settings are important measures to reduce infection risk among vulnerable patients.

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