profile of the hospitals collected; and (3) an assessment of the predictive power of 5 types of MLP (backpropagation standard, momentum, resilient propagation, weight decay, and quick propagation) for SSI prediction. MLPs were tested with 3, 5, 7, and 10 hidden layer neurons and a database split for the resampling process (65% or 75% for testing and 35% or 25% for validation). The results were compared by measuring AUC (area under the curve; range, 0-1) presented for each of the configurations. Results: Of 1,246 records, 535 were intact for analysis. We obtained the following statistics: the average surgery time was 190 minutes (range, 145-217 minutes); the average age of the patients was 67 years (range, 9-103); the prosthetic implant index was 98.13%; the SSI rate was 1.49%, and the death rate was 1.21%. Regarding the prediction power, the maximum prediction power was 0.744. Conclusions: Despite the considerable loss rate of almost 60% of the database samples due to the presence of noise, it was possible to perform relevant sampling for the profile evaluation of hospitals in Belo Horizonte. For the predictive process, some configurations have results that reached 0.744, which indicates the usefulness of the structure for automated SSI monitoring for patients undergoing hip arthroplasty surgery. To optimize data collection and to enable other hospitals to use the SSI prediction tool (available in www.sacihweb.com), a mobile application was developed.

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Poster Presentation Awareness of Antimicrobial Stewardship Interventions Within a Community Hospital Network

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Background: A system of 3 community hospitals in New Jersey has actively engaged in antimicrobial stewardship since November 2014. Consultations with infectious diseases specialists are mandatory for patients with sepsis, severe sepsis, septic shock, patients on 3 or more antibiotics, and for those diagnosed with Clostridioides difficile infection (CDI). A multidisciplinary team meets monthly and has begun to improve the appropriateness of antibiotics use and to reduce antibiotic days of therapy per 1,000 patient days. Recently, we participated in a targeted assessment program (TAP) for CDI, and we identified areas of opportunity for antimicrobial stewardship. Methods: The TAP survey was emailed to a wide distribution of employees in the hospital, primarily nurses, physicians, and others with a variable range of experience and for those working in the intensive care units and on the wards. Ultimately, the numbers of responses were 60 in hospital A, 88 in hospital B, and 124 in hospital C. Results: In hospital A, most respondents were nurses or nurse assistants or technicians (63%), and most of the total individuals surveyed worked outside the intensive care unit setting. In hospital B, nurses or nurse assistants or technicians comprised 69% of all responses. Hospital C had the highest percentage of physicians who responded (31%). One theme for all hospitals was that a little more than half of those surveyed felt that for patients with new or recent CDI infections, antibiotics prescribed for infections were reviewed by clinicians. Less than half of respondents believed that education was being given to patients and families about the risks of CDI from antibiotics. With

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regard to high-risk CDI antibiotics, there was a general lack of knowledge that these were being monitored. For example, survey respondents felt that this was always monitored on clindamycin by only 33% of respondents in hospital A, 40% in hospital B, and 42% in hospital C. With regard to strategies to reduce the unnecessary use of fluoroquinolones, the response of "always" ranged from 35% to 47% of the time. **Conclusions:** Even though hospitals may have robust antimicrobial stewardship programs, it is important to survey frontline staff. Although all of the antimicrobial stewardship interventions, such as monitoring high-risk-CDI antibiotics, reducing high-risk CDI antibiotics, among others, are performed, there may be lack of knowledge that these initiatives are even being implemented. In this TAP against CDI, we found opportunities to share data with respondents to increase awareness of antimicrobial stewardship to further combat hospital-acquired infections.

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Poster Presentation

Bacterial Colonization of Waiting Rooms in a Newly Constructed Children's Outpatient Clinic: Construction Through 6 Months After Opening In Waiting Rooms Henry Spratt, Dept. Biol., Geol., & Env. Sci., Univ. Tennessee at Chattanooga: David Levine, University of Tennessee/Erlanger Health System; Charles Woods, Children's Hospital at Erlanger; Joel Ledbetter, Division Chief, Pediatric Pulmonology UTCOM/ Erlanger Kennedy Outpatient Clinic; Gary Price, Dept. Biol., Geol., & Env. Sci., Univ. Tennessee at Chattanooga Lindsey Brunton, Research Assistant

Background: Healthcare-associated infections (HAIs) represent an ongoing problem for all clinics. Children's clinics have waiting rooms that include toys and activities to entertain children, possibly representing reservoirs for HAIs. This study focuses on a newly constructed children's outpatient clinic associated with a teaching hospital. We studied waiting room bacterial colonization of floors and play devices from the last phase of construction through 6 months of clinical use. Methods: Waiting room areas on the first 2 floors of the facility were studied due to high patient volume in those areas. In total, 16 locations were sampled: 11 on floors and 5 on play items. Using sterile double-transport swabs, all locations were sampled on 5 separate occasions over 2 months during the last phase of construction and 13 times over 6 months after the clinic was opened. After collection swabs were placed on ice, transported to a microbiology lab, and used to inoculate Hardy Diagnostics Cdiff Banana Broth (for Clostridium difficile -Cdiff), CHROM MRSA agar (for methicillin resistant Staphylococcus aureus - MRSA), Pseudomonas isolation agar (for Pseudomonas spp and P. aeruginosa), and tryptic soy agar to detect Bacillus spp. Media were incubated for 48 hours at 37°C and were scored for bacterial presence based on observation of colonies or change in the medium. Results: During the construction phase, waiting-room-floor bacterial colonies were dominated by *Bacillus* spp, and first-floor waiting rooms had nearly 7 times more colonies than those on the second floor (P < .05). A similar pattern was observed for C. difficile and MRSA. No Pseudomonas spp were observed during construction. Once patients were present, Bacillus spp contamination dropped for the first floor, but increased for the second floor. All other bacterial types (C. difficile, MRSA,

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