University of Iowa Healthcare; Angie Dains, University of Iowa Hospital and Clinics; Tatiana Izakovic; Kyle Jenn, University of Iowa Hospitals & Clinics; Holly Meacham, University of Iowa Hospital and Clinics; Glen Rogers, University of Iowa Hospitals & Clinics; Bill Millard, University of Iowa Hospitals & Clinics; Daniel Diekema, University of Iowa Carver College of Medicine; Michael Edmond, University of Iowa Hospitals and Clinics; Jorge Salinas, University of Iowa

Background: Manual cleaning is the recommended method of environmental disinfection; it plays a key role in the prevention of healthcare-associated infections. Recently, automated "notouch" disinfection technologies, such as ultraviolet (UV) light, have been proposed as a supplement to manual cleaning. However, UV light adds time to the cleaning process and may decrease the quality of manual cleaning. We evaluated the impact of adding UV light on the quality of manual cleaning and on room turnover times. Methods: During January-September 2019, we assessed the thoroughness of disinfection cleaning (TDC) of environmental surfaces in rooms identified for discharge. According to hospital policy, contact precautions rooms use UV light after manual cleaning with an EPA-approved sporicidal agent (bleach). Non-contact precautions rooms are disinfected using quaternary ammonium only. Rooms were identified after patient admission, selected randomly, and marked once discharge orders were placed. Fluorescent markers were applied on high-touch surfaces before discharge and were assessed after the cleaning process was completed. TDC scores were defined as the percentage of cleaned surfaces of the total of examined surfaces. UV-light disinfection time is determined automatically based on room size. We compared TDC scores and manual cleaning times between contact precautions rooms and noncontact precautions rooms. We also calculated UV-light cycle durations. Results: We assessed 2,383 surfaces in 24 contact precautions rooms with UV-light disinfection and 201 noncontact precautions rooms without UV-light disinfection. The TDC score was similar in contact precautions rooms (243 of 273 surfaces) and noncontact precautions rooms (1,835 of 2,110 surfaces; 89% vs 87%). The median manual cleaning time for contact precautions rooms was 56 minutes (IQR, 37-79), and for noncontact precautions rooms the median manual cleaning time was 33 minutes (IQR, 22-43). UV-light use added a median of 49 minutes (IQR, 35-67) to the overall cleaning process. The median turnover time for contact precautions rooms was 156 minutes (IQR, 87-216) versus 58 minutes (IQR, 40-86) in noncontact precautions room. **Conclusions:** In a setting with an objective assessment of environmental cleaning, there was no difference in quality of manual cleaning between contact precautions rooms (UV light) and noncontact precautions rooms (UV light). Adding UV light following manual disinfection increased the overall cleaning time and delayed room availability.

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Poster Presentation

Impact on National Policy on the Hand Hygiene Promotion Activities in Hospitals in Korea

Pyoeng Gyun Choe, Associate Professor, Seoul National University Hospital; Jihee Lim, Seoul National University Hospital; Eun Jin Kim, Seoul National University Hospital; zeong Hee Kim, Seoul

National University Bundang Hospital; Myoung Jin Shin, Seoul National University Bundang Hospital; Sung Ran Kim, Infection Control Nurse, Korea University Guro Hospital; Jun Yong Choi, Yonsei University College of Medicine; Young Hwa Choi, Ajou University School of Medicine; Kyung Won Lee, Yonsei University College of Medicine; Hyunsook Koo, Korea Centers for Disease Control and Prevention; Hyunmin Lee, Korea Centers for Disease Control and Prevention; Kyoung-Ho Song, Associate Professor, Seoul National University Bundang Hospital; Eu Suk Kim, Professor, Seoul National University Hospital; Myoung-don Oh, Seoul National University Hospital; Hong Bin Kim, Professor, Seoul National University Bundang Hospital

Background: After the Middle East respiratory syndrome coronavirus outbreak in Korea in 2015, the government newly established the additional reimbursement for infection prevention to encourage infection control activities in the hospitals. The new policy was announced in December 2015 and was implemented in September 2016. We evaluated how infection control activities improved in hospitals after the change of government policy in Korea. Methods: Three cross-sectional surveys using the WHO Hand Hygiene Self-Assessment Framework (HHSAF) were conducted in 2013, 2015, and 2017. Using multivariable linear regression model including hospital characteristics, we analyzed the changes in total HHSAF scores according to the survey time. Results: In total, 32 hospitals participated in the survey in 2013, 52 in 2015, and 101 in 2017. The number of inpatient beds per infection control professionals decreased from 324 in 2013 to 303 in 2015 and 179 in 2017. Most hospitals were at intermediate or advanced levels of progress (90.6% in 2013, 86.6% in 2015, and 94.1% in 2017). In a multivariable linear regression model, the total HHSAF scores were significantly associated with hospital teaching status (\$\beta\$ coefficient of major teaching hospital, 52.6; 95% CI, 8.9–96.4; P = .018), bed size (β coefficient of 100-bed increase, 5.1; 95% CI, 0.3–9.8; P = .038), and survey time (β coefficient of 2017 survey, 45.1; 95% CI, 19.3–70.9; P = .001). Conclusions: After the national policy implementation, the number of infection control professionals increased, and the promotion of hand hygiene activities was strengthened in Korean hospitals.

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Implement Electronic Decision Support to Decrease Hospital-Onset Clostridium difficile Infections at Two Community Hospitals

Maria Montero, Northwestern Medicine; Gina Giannopoulos, Northwestern Medicine; Anessa Mikolajczak, Northwestern Medicine; Christina Silkaitis, Northwestern Medicine; Steven Lewis, Northwestern Medicine

Background: Literature supports appropriate testing as a key factor affecting the hospital-onset (HO) *Clostridium difficile* infections (CDI) standardized infection ratio (SIR). In 2016, facility A was a significant outlier in HO CDI with an SIR of 2.57. In 2017, facility B had a peak SIR of 1.9. Both SIRs were considerably



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