1190. Hygiene of the Hands 90/90: A Program of Continuous Improvement for the Compliance of the Hygiene of the Hands
Roxana Trejo, Epidemiologist; Solange G. Kotrezy, Master; ABC Medical Center, Distrito Federal, Mexico
Session: 144. HAI: Hand Hygiene and Transmission - Based Precautions
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Background. Healthcare-associated infections (HAIs) are associated with high rates of morbidity and mortality, which translates into an increase in the days of hospitalization and costs of care. The research of hand hygiene in health workers demonstrates that action decreases the spread of pathogens; however, the compliance of hand hygiene remains low among health workers. Hand hygiene is a cheap method to prevent infections. It has been estimated that the total cost of hand hygiene promotion represents <1% of the costs associated with the HAIs. Our goal is to strengthen the culture of hand hygiene (In and Out) in all health professionals in a period of 90 days, achieving a 90% compliance.

Methods. The ABC Medical Center is a high specialty hospital, on average it has 465 beds. The program led by the Epidemiology Unit was formed by a multidisciplinary team with the participation of leaders of different areas (Epidemiology, Nursing, Physicians, Human resources, Quality and Teaching). We used the “WHO Guidelines on Hand Hygiene in Health Care” consisting of: (1) system change, (2) training for employees, (3) evaluation and feedback, (4) a reminder at the workplace, (5) institutional security climate, (6) monitoring of the compliance to hand hygiene: The monitoring of the evaluation personnel was carried out in two stages, when entering and leaving the patient’s room.

Results. A total of 9,732 observations were made, of which 55.32% went to the nursing staff, 22.80% to doctors and 21.87% to the hospital staff. The compliance of the hand hygiene at the beginning of the program was 70%, by the and the 91% was reached. Sustainability has been maintained through continuous campaigns of the importance of hand hygiene reaching a 98% adherence to hand hygiene in 2018. The behavior of HAIs is notorious since at the beginning of the program there was a rate of 0.95 and by 2018, with the increase in compliance to hand hygiene, it decreased to 0.56.

Conclusion. The 90/90 Hand Hygiene program is a pioneer in its modality for the implementation of the program in a short period of time and excellence in its scope. It is confirmed that leadership is essential and strategic to ensure quality and safety in patient care. Through the incentive to the staff a clear sense of participation and belonging to the institution is achieved compared with organ transplant, and continuously being improved and regulated by national agencies. Environmental contamination, postmortem translocation of microorganisms, cross-contamination, and tissue processing are critical components which can be prevented with hand hygiene education thus preventing the transmission of infectious diseases. Microorganisms from technicians’ skin can potentially result in infection and nontransplantable tissue. This is probably true of regenerative tissue, such as Vivigen, that undergo no sterilization process.

1192. A Visual Family Empowerment Tool Is Associated with Increased Healthcare Worker Hand Hygiene in a Pediatric Intensive Care Unit in Vietnam
Jeffrey L. Campbell, MD; Thomas Thang Tran, MD, PhD; Le Trang, BA; Tran Thi Ha, BA; Nguyen Thi Kim Oanh, BN; Ho Thi Minh Thanh, BN; Le Duc Thang Kien Ngai, MD, MPH; Thi Duc Duat, 1; Le Thi Huey, 2; Tran Thi Ba, 2; Nguyen Thi Kim Oanh, 2; TH Thi Minh Than, 2; Le Duc Thang Kien Ngai, 2, 3; Todd Pollack, 4; Le Duc Thang Kien Ngai, 1; Thomas Sandra, 2, 3, 4; Le Duc Thang Kien Ngai, 2, 3; Thi Ha, 2; Tran Thi Ba, 2; Nguyen Thi Kim Oanh, 2; Ho Thi Minh Thanh, 2; Le Duc Thang Kien Ngai, 2, 3; Todd Pollack, 4; Le Duc Thang Kien Ngai, 1; Thomas Sandra, 2, 3, 4; Boston Children’s Hospital, Boston, Massachusetts; 2Partnership for Health Advancement in Vietnam, Hanoi, Ha Noi, Vietnam; 3Vietnam National Children’s Hospital, Hanoi, Ha Noi, Vietnam; 4Beth Israel Deaconess Medical Center, Boston, Massachusetts, United States; and the Partnership for Health Advancement in Vietnam, Hanoi, Ha Noi, Vietnam
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Background. Hand hygiene (HH) is the most effective way to prevent healthcare-associated infections. The World Health Organization (WHO) recommends empowering patients and families to remind healthcare workers (HCWs) to perform HH. The effectiveness of patient and family empowerment tools in Southeast Asia is unknown.

Methods. We performed a prospective intervention study in an intensive care unit of a pediatric referral hospital in Vietnam. Using family and HCW input, we created a visual tool for families to use to remind HCWs to perform HH. For 2 weeks pre-intervention, we collected baseline data on HH performance, method (hand rub or soap and water), adequacy, HCW type (e.g., physician, nurse), and WHO’s 5 moments of HH using direct, unobtrusive observation. During a subsequent 3-week intervention period, consenting families were provided the visual tool and educated on its use to prompt HH. The prospective collection of outcome data continued during the intervention period. The primary outcome was change in HH between baseline and intervention periods. Multivariable logistic regression models were used to identify independent predictors of HH.

Results. A total of 2,014 pre-intervention and 2,498 intervention period HH opportunities were observed. During the intervention period, 73 families received visual reminders and education. Overall HH was 46% pre-intervention, which increased to 73% in the intervention period (P < 0.001). Lowest HH adherence in both periods occurred after HCW contact with patient surroundings (WHO Moment 5; 16% pre-intervention and 24% intervention). In multivariable analyses, the odds of HH adherence during the intervention period were significantly higher than pre-intervention (OR 2.94 [95% CI 2.54 – 3.41]; P < 0.001) after adjusting for observation room, HCW type, time of observation (weekend business hours vs. evening/weekend), and HH moment. Among completed HH opportunities, HH adequacy was >90% in both periods.

Conclusion. Introduction of a visual empowerment tool was associated with significant improvement in HH adherence among HCWs in a Vietnamese pediatric intensive care unit. More research is needed to explore acceptability and barriers to the use of such tools in other low- and middle-income settings.

Disclosures. All authors: No reported disclosures.

1191. Hand Hygiene Education: Why Is It so Critical to Tissue Banking?
Kavita D. Imrit-Thomas, DO; Jasmine Watson, MPH, BS, CTBS; Alexandria Owens, BS, CTBS; Lifenet Health, Virginia Beach, Virginia
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Background. In the United States, the most commonly transplanted tissues are bones, tendons, skin, heart valves, vessels and corneas. Over two million tissue grafts are distributed each year. Efforts to advance tissue transplant safety are less defined.