

APPENDIX A. RESULTS

Previous average compliance audit from September to December 2011 revealed compliances of: overall compliance of 60.78%; physicians at 44.04%; nurses 68.23% and other healthcare workers (covering both allied and auxiliary staff) 43.94% respectively.

Figure 1. Baseline Results. Hand Hygiene Compliance, Al Wakra Hospital, 2011

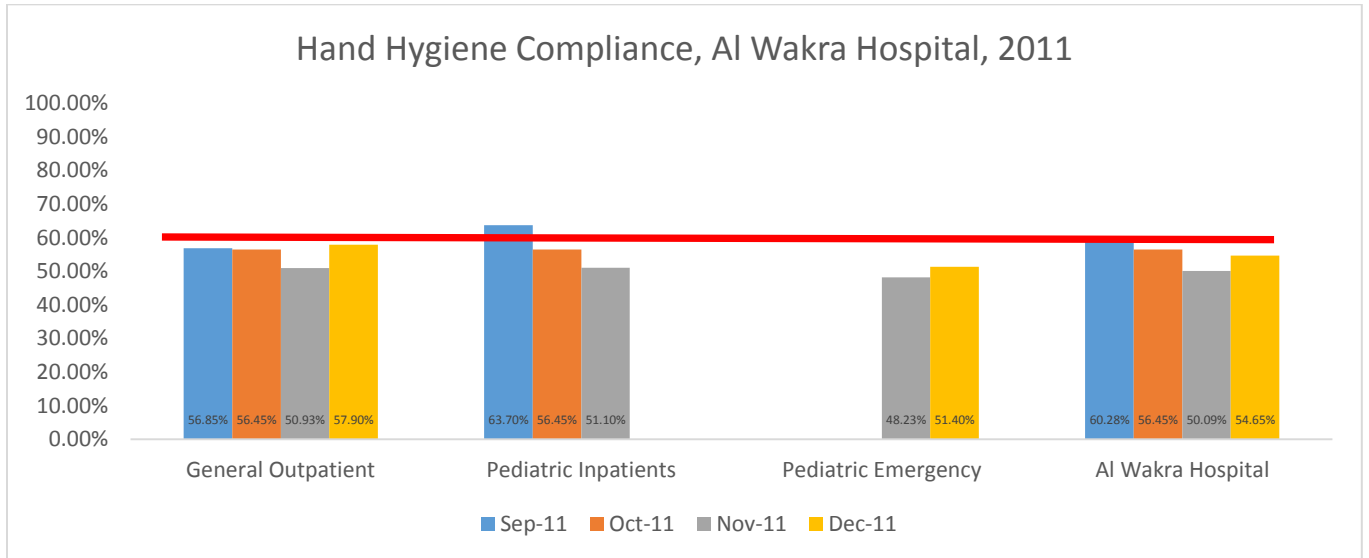


Figure 2. Baseline Results. Hand Hygiene Compliance among Physicians, Al Wakra Hospital, 2011

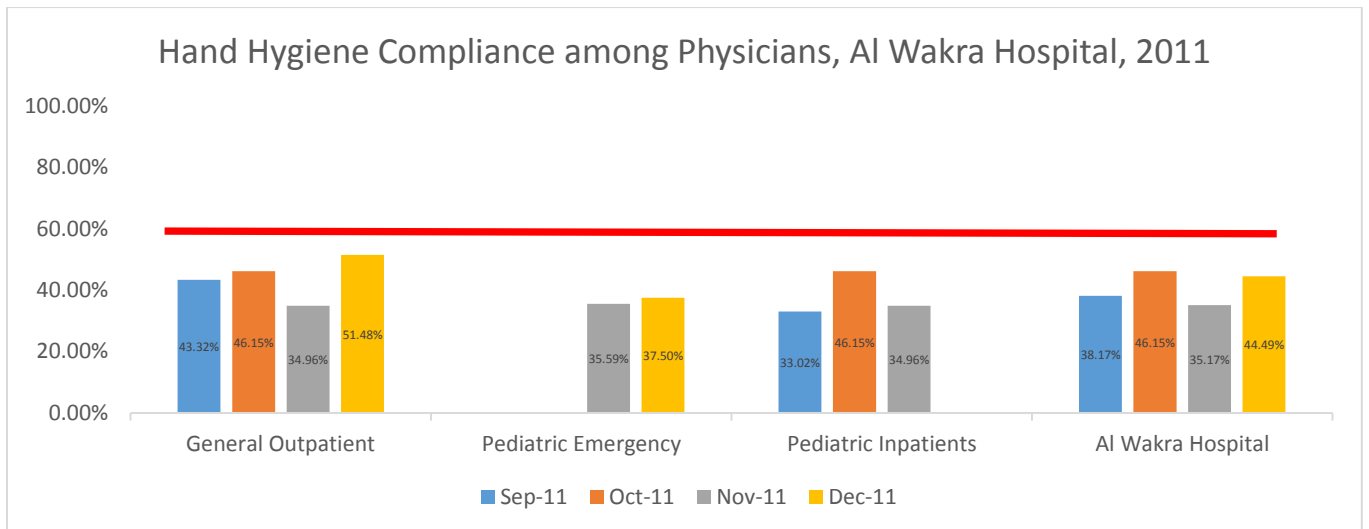


Figure 3. Baseline Results. Hand Hygiene Compliance among Nurses, Al Wakra Hospital, 2011

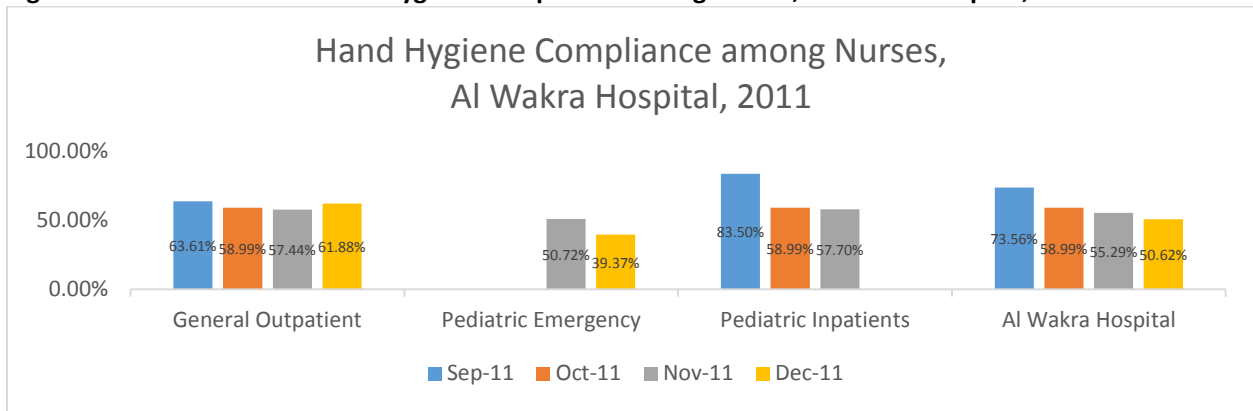
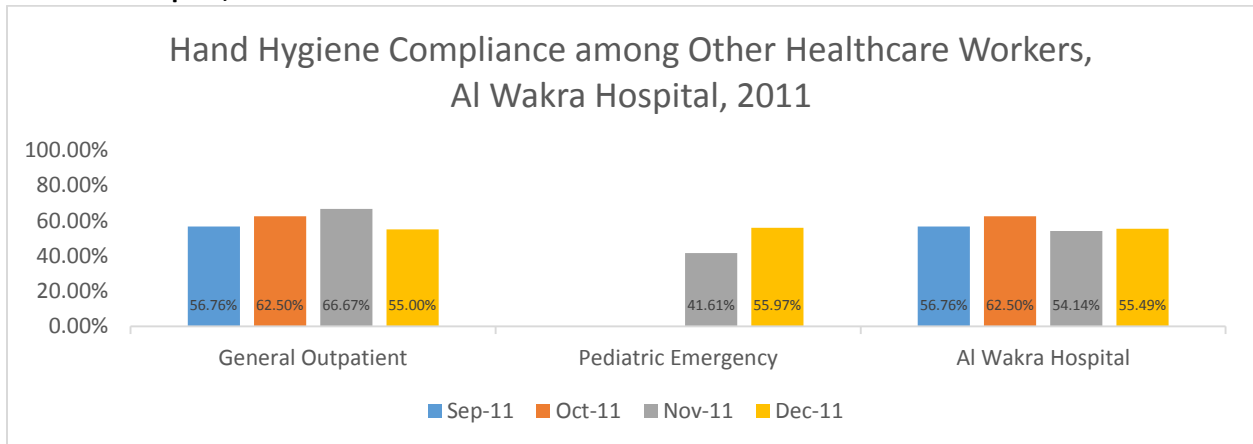


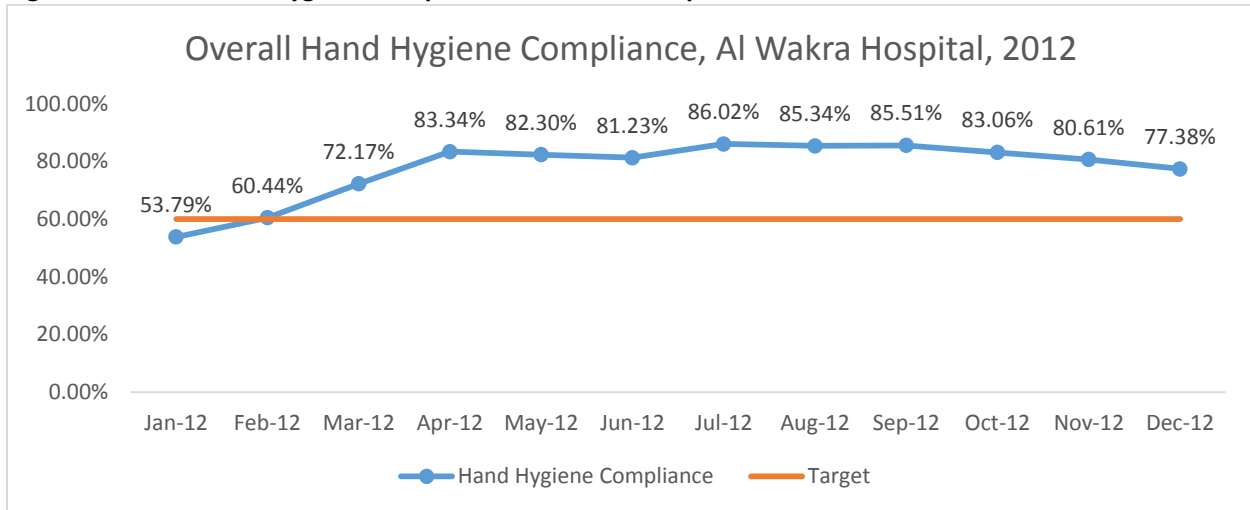
Figure 4. Baseline Results. Hand Hygiene Compliance among Other Healthcare Workers, Al Wakra Hospital, 2011



Interventions were made to improve the hand hygiene competencies and practices highlighting the Switch for Change concept covering the mental, emotional and physical aspects of hand hygiene.

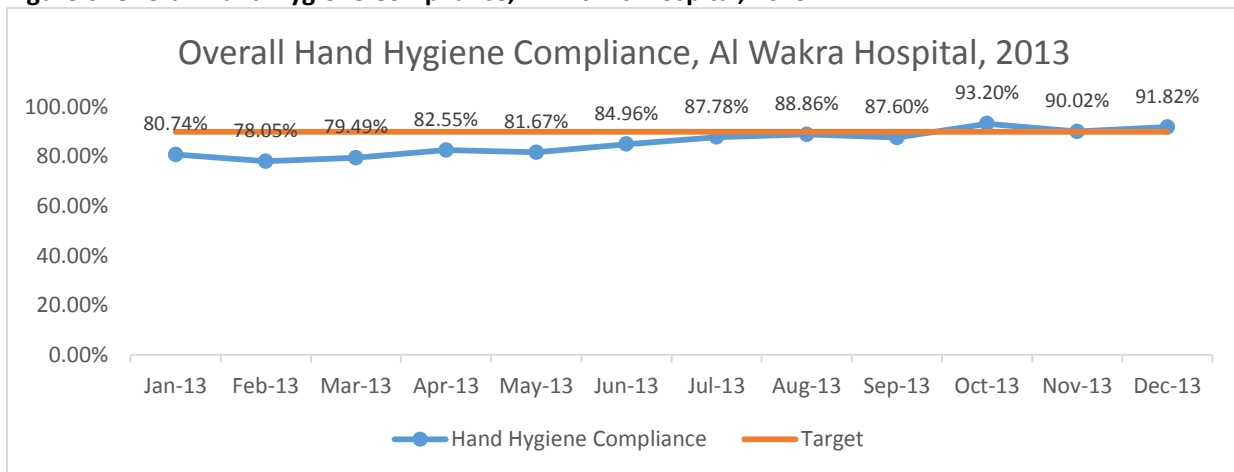
In the succeeding compliances for the year 2012, compliances have improved with: overall compliance of 77.60%; physicians at 68.56%; nurses at 82.51% and other healthcare workers at 73.82%. During this time, personal hand hygiene ratings were communicated to different hospital staff. Additionally, hand hygiene was added as part of physicians' performance appraisals.

Figure 5. Overall Hand Hygiene Compliance, Al Wakra Hospital, 2012



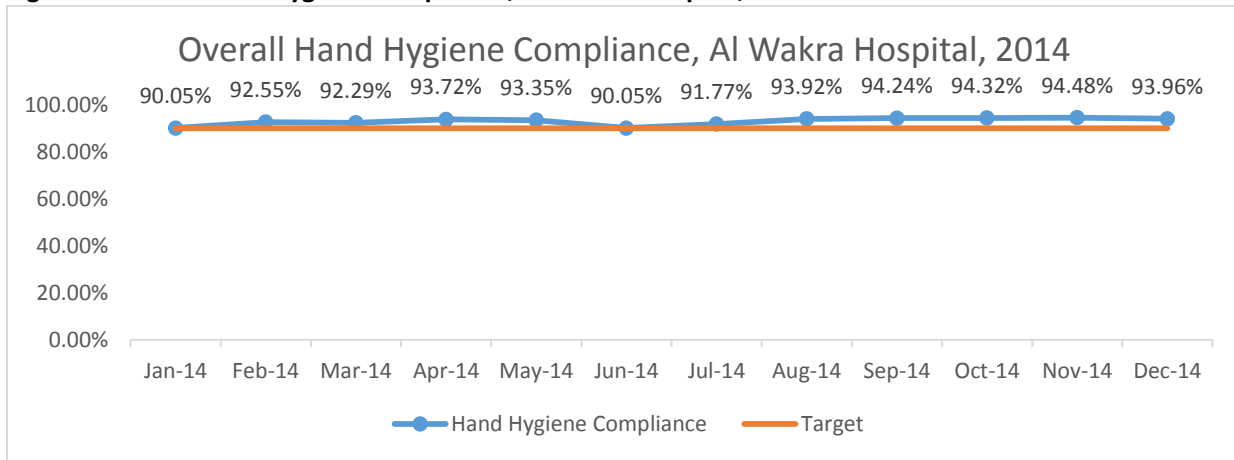
In the year 2013, compliances continuously improved with: overall compliance of 85.56%; physicians at 82.10%; nurses at 88.46% and other healthcare workers at 77.45%. Although still below the target, there were increasing compliances in hand hygiene across the different units and healthcare professional categories. Further education, additional mobile hand rubs were placed in procedure trolleys and across the clinical units. Cash prizes were given to the top three (3) areas with the highest hand hygiene compliance and plaque from the Corporate Infection Prevention and Control was awarded for the top clinical unit.

Figure 6. Overall Hand Hygiene Compliance, Al Wakra Hospital, 2013



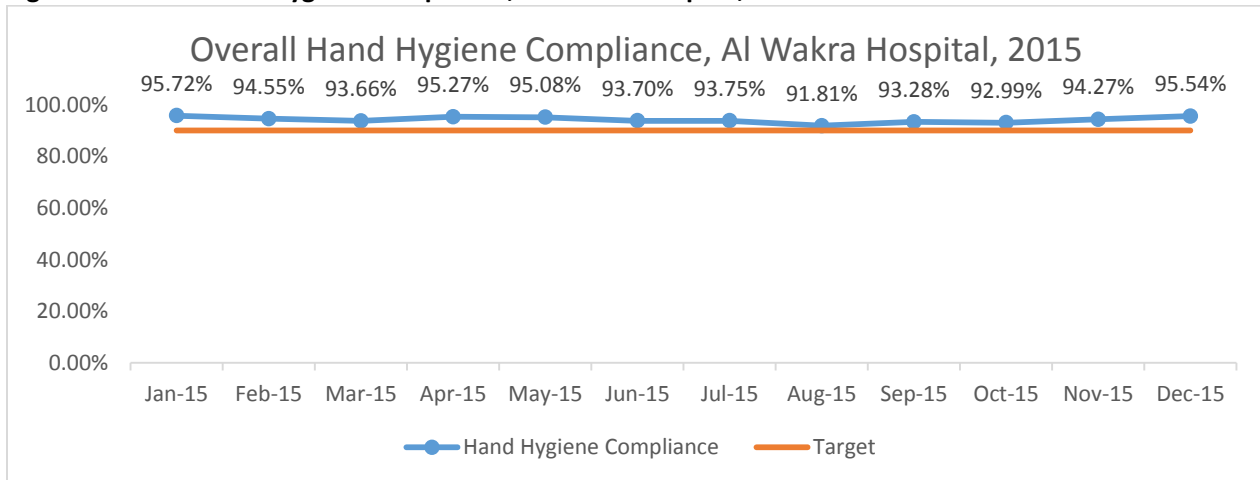
In the year 2014, compliances have further improved and have reached the target with: overall compliance of 93.05%; physicians at 92.65%; nurses at 95.58% and other healthcare workers at 91.10%. The Infection Prevention and Control department has procured UV light hand hygiene show for validation and re-validation of staff across the units. This time, visual review of the practices of hand hygiene by use of UV light device and fluorescent cream are utilized. Staffs had increased realization of the importance of hand hygiene to prevention of infection and possible outbreaks.

Figure 7. Overall Hand Hygiene Compliance, Al Wakra Hospital, 2014



In the year 2015, the highest compliance so far has been achieved with: overall compliances of 94.14%; physicians at 93.24%, nurses at 96.36%; other healthcare workers at 90.69% and auxiliary staff at 90.99%. Since in 2014, the other healthcare workers, which previously include all auxiliary and allied health staff, had the lowest compliance across the professional categories, in 2015 the category was further separated to highlight and prioritize the area of concern. The other healthcare workers categories were separated to the allied health then included technicians, technologists, dietitians and other healthcare providers and the auxiliary staff are the nursing aids and housekeeping staff. Meetings with different directors of auxiliary and allied health were made to feedback the importance of hand hygiene compliance when they are in the units catering to needs of patients either directly or indirectly.

Figure 8. Overall Hand Hygiene Compliance, Al Wakra Hospital, 2015



The figures will show the compliance changing through time and through unit overtime. During these five (5) years, outbreaks were prevented reaching to a staggering 1613 days without infectious outbreak, refer to figures.

Figure 9. Hand Hygiene Compliance Across ALL Healthcare Workers, Al Wakra Hospital, 2011 – 2015

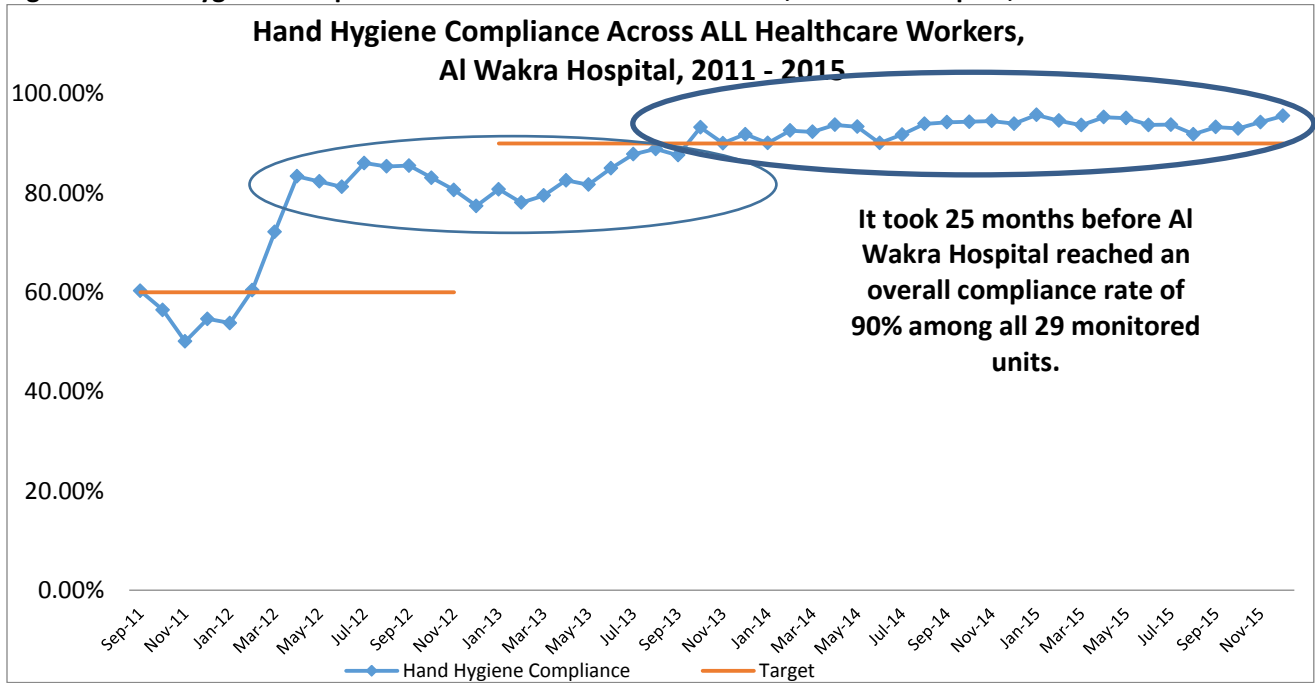


Figure 10. Overall Hand Hygiene Compliance of Al Wakra Hospital Units, 2011 – 2015

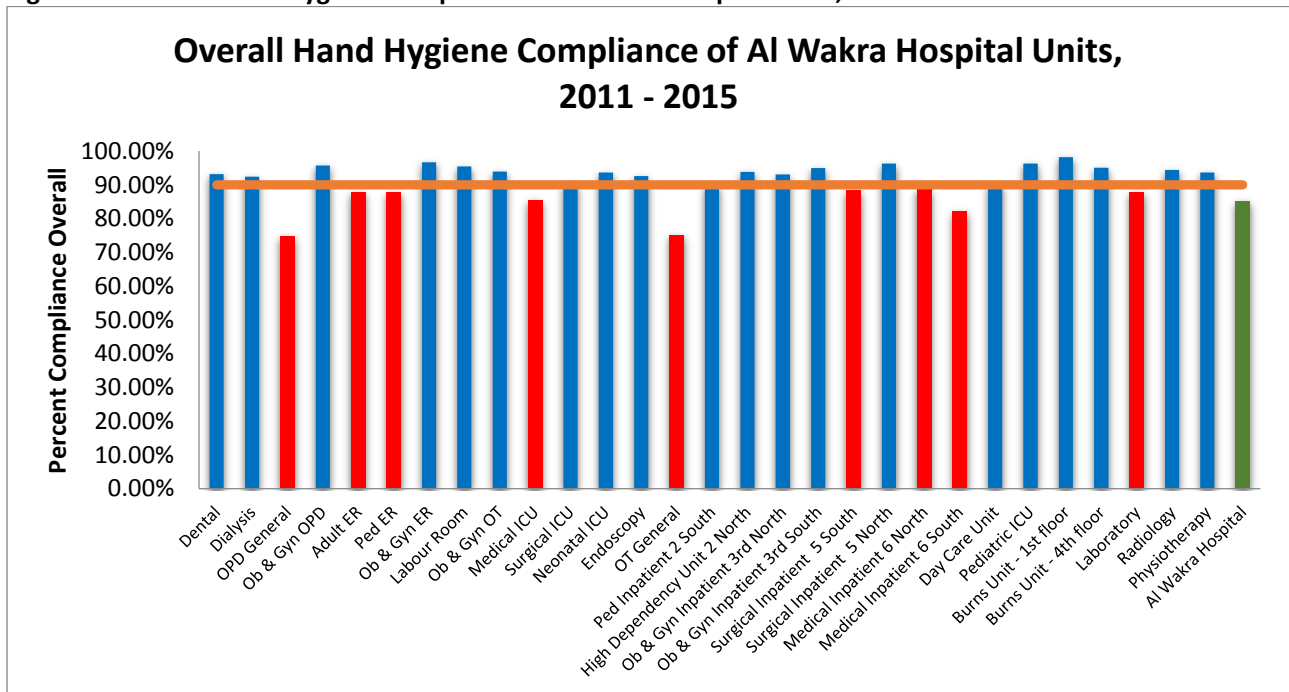


Figure 11. Compliance to Hand Hygiene Practices among Physicians, Al Wakra Hospital, Hamad Medical Corporation, 2011 - 2015

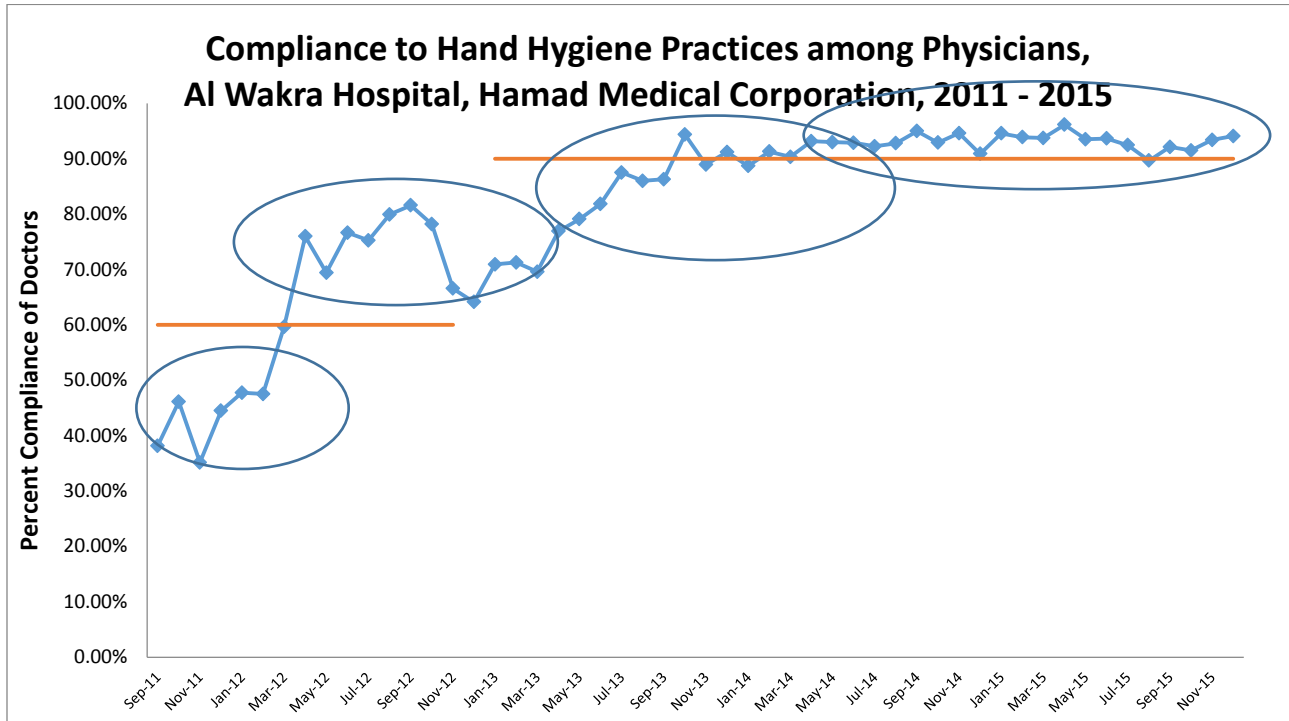


Figure 11. Overall Hand Hygiene Compliance Among Physicians of Al Wakra Hospital Units, 2011 – 2015

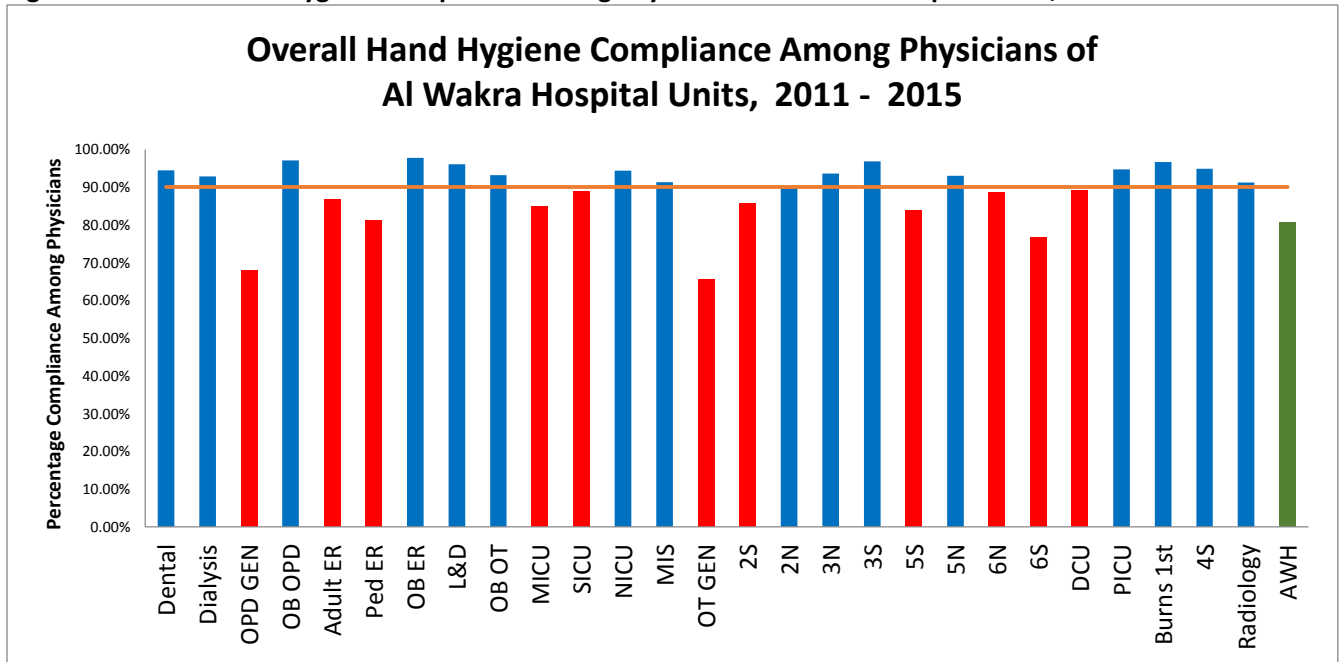


Figure 12. Compliance to Hand Hygiene Practices among Nurses, Al Wakra Hospital, Hamad Medical Corporation, 2011 - 2015

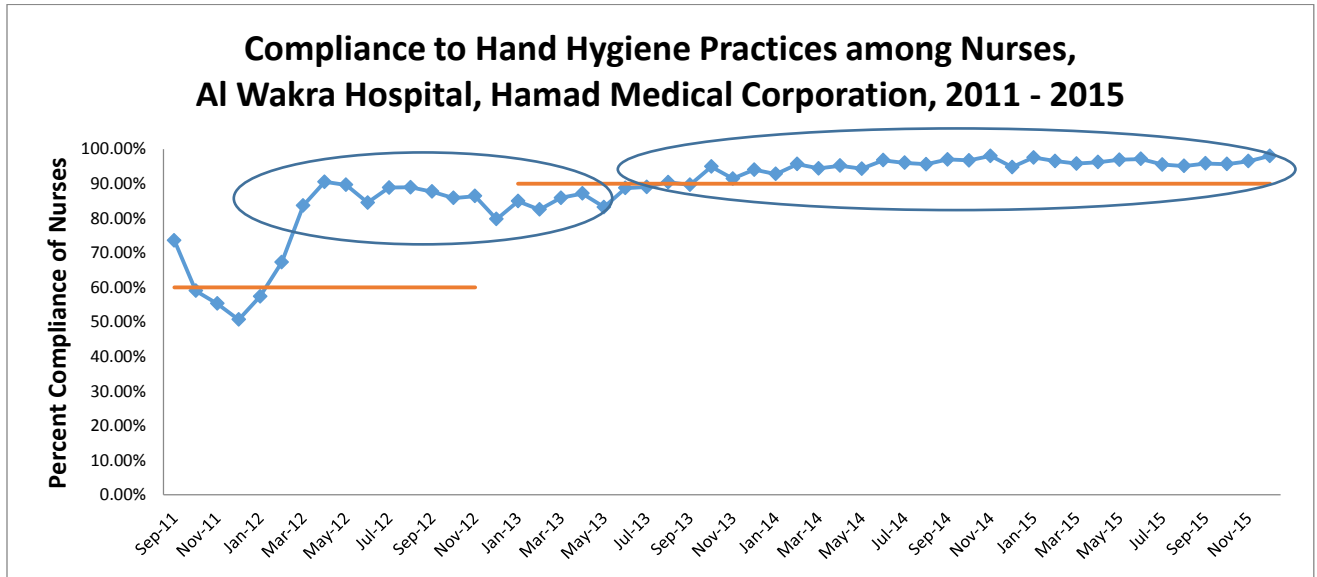


Figure 13. Overall Hand Hygiene Compliance Among Nurses of Al Wakra Hospital Units, 2011 – 2015

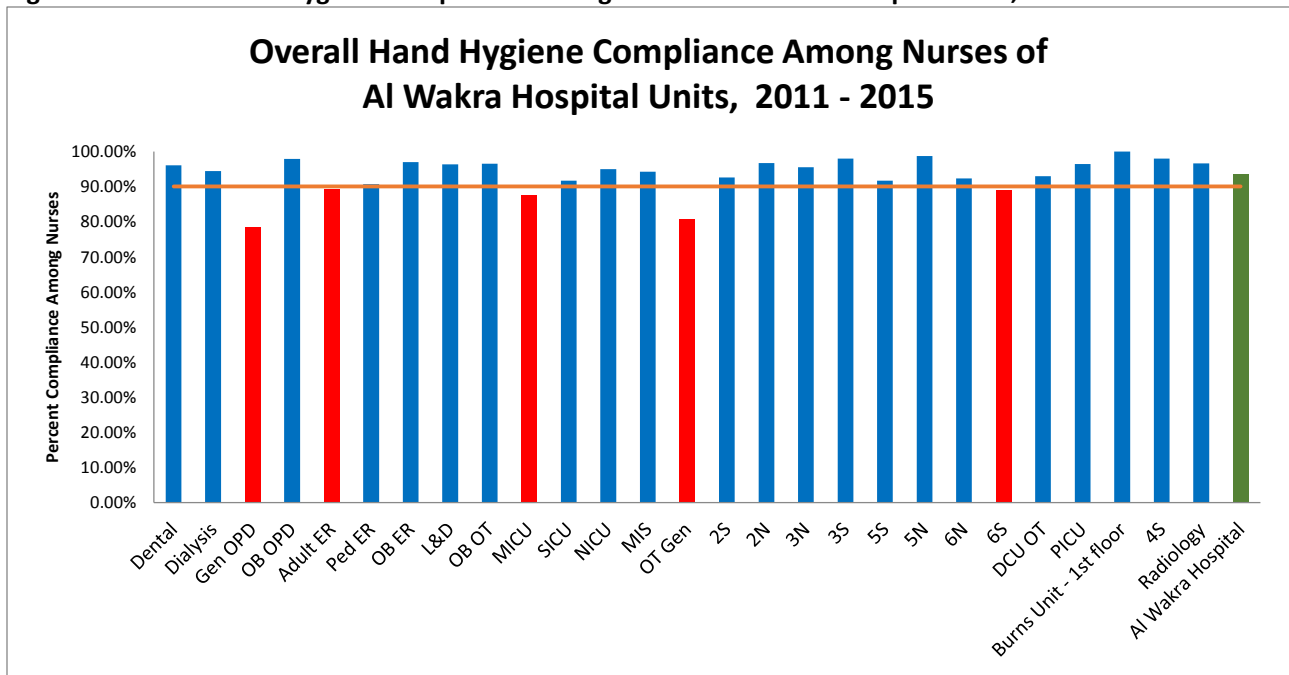


Figure 14. Compliance to Hand Hygiene Practices among Other Healthcare Workers Al Wakra Hospital, Hamad Medical Corporation, 2011 - 2015

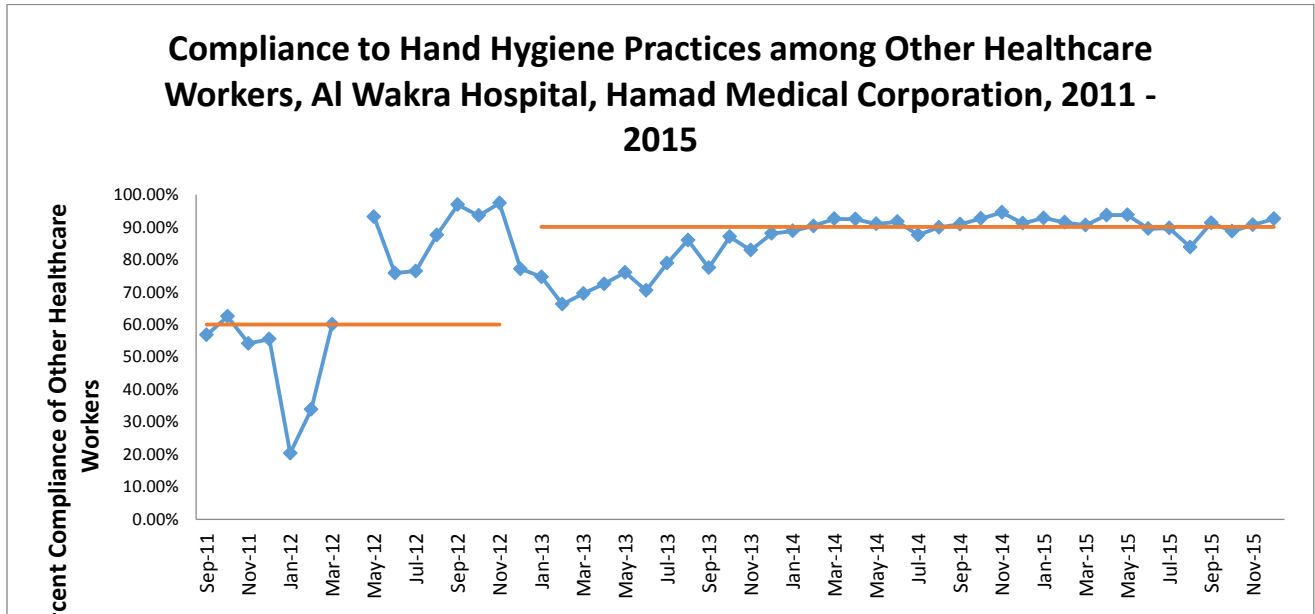


Figure 15. Overall Hand Hygiene Compliance Among Nurses of Al Wakra Hospital Units, 2011 – 2015

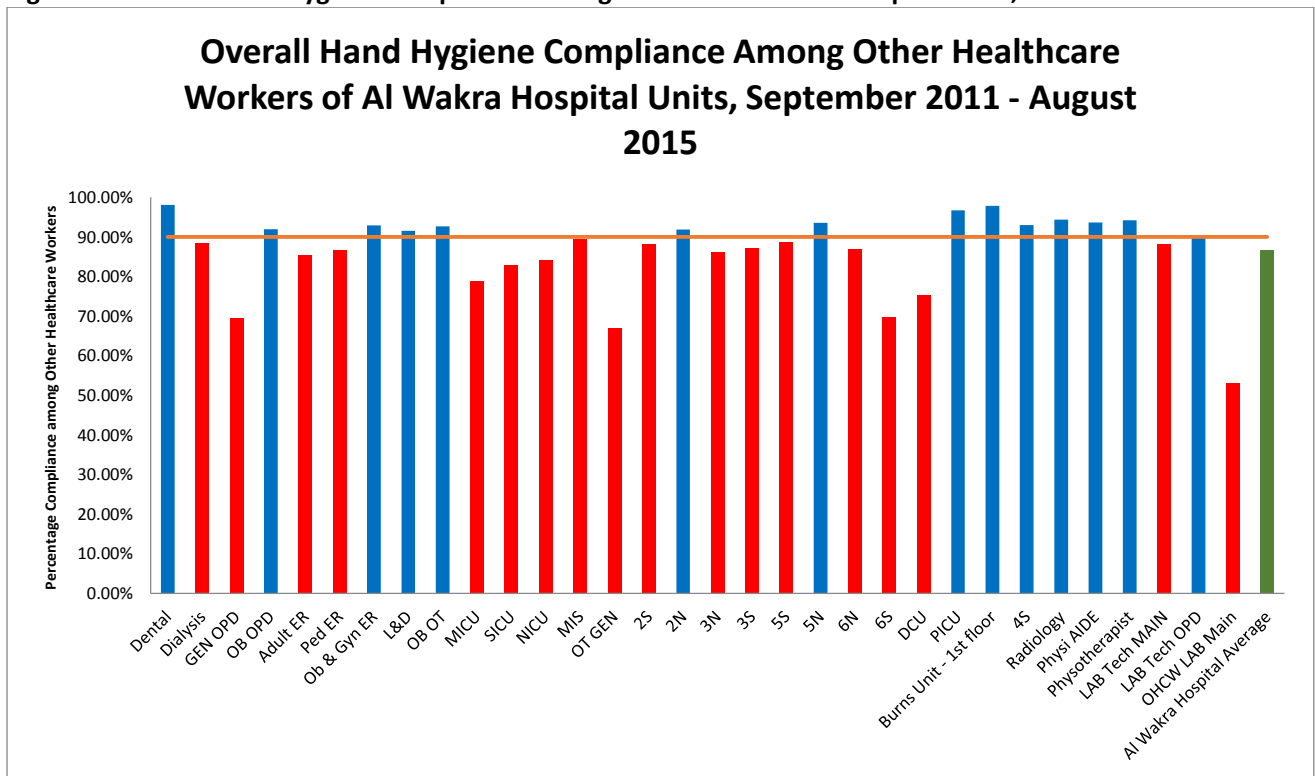


Figure 16. Compliance to Hand Hygiene Practices among Auxiliary Staff, Al Wakra Hospital, Hamad Medical Corporation, 2015

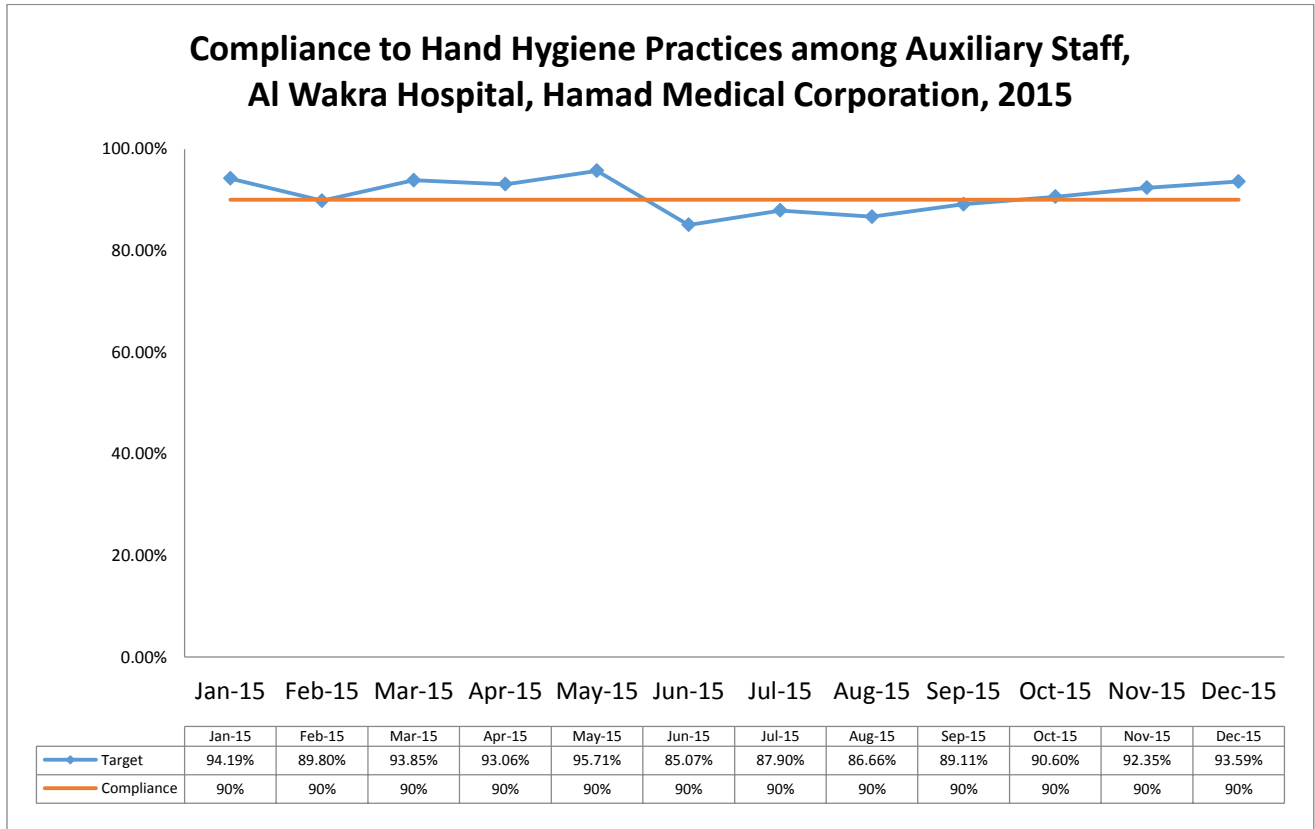
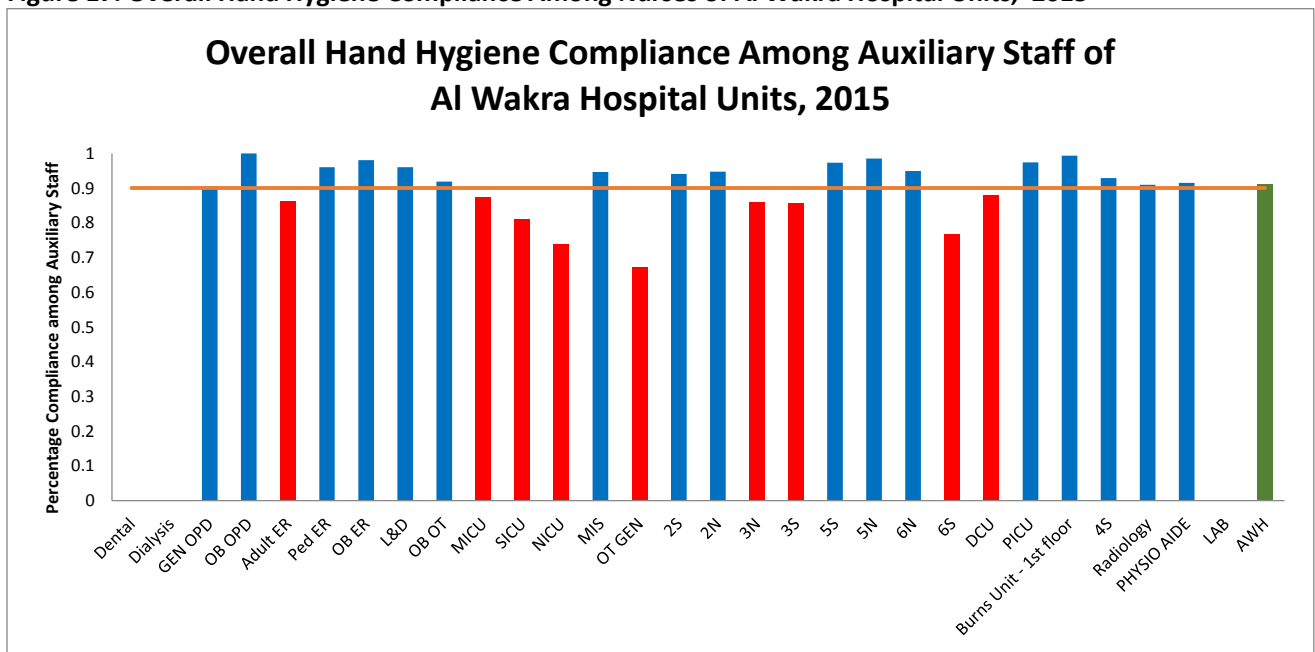


Figure 17. Overall Hand Hygiene Compliance Among Nurses of Al Wakra Hospital Units, 2015



During the beginning of 2013, Surgical Site Infections were observed in these monitored general surgeries, part of the initial feedback and brainstorming activity is to highlight and improve the practice of hand hygiene to include handwashing and handrubbing. It was then observed that as the Hand Hygiene compliance increases, the Surgical Site Infections has also decreased across Appendectomy, Cholecystectomy and Hernia Repair Surgeries (see Figures 18 – 20).

Figure 18. Relationship between Hand Hygiene Compliance and Appendectomy Surgical Site Infection, Al Wakra Hospital, Hamad Medical Corporation, Qatar 2013 - 2015

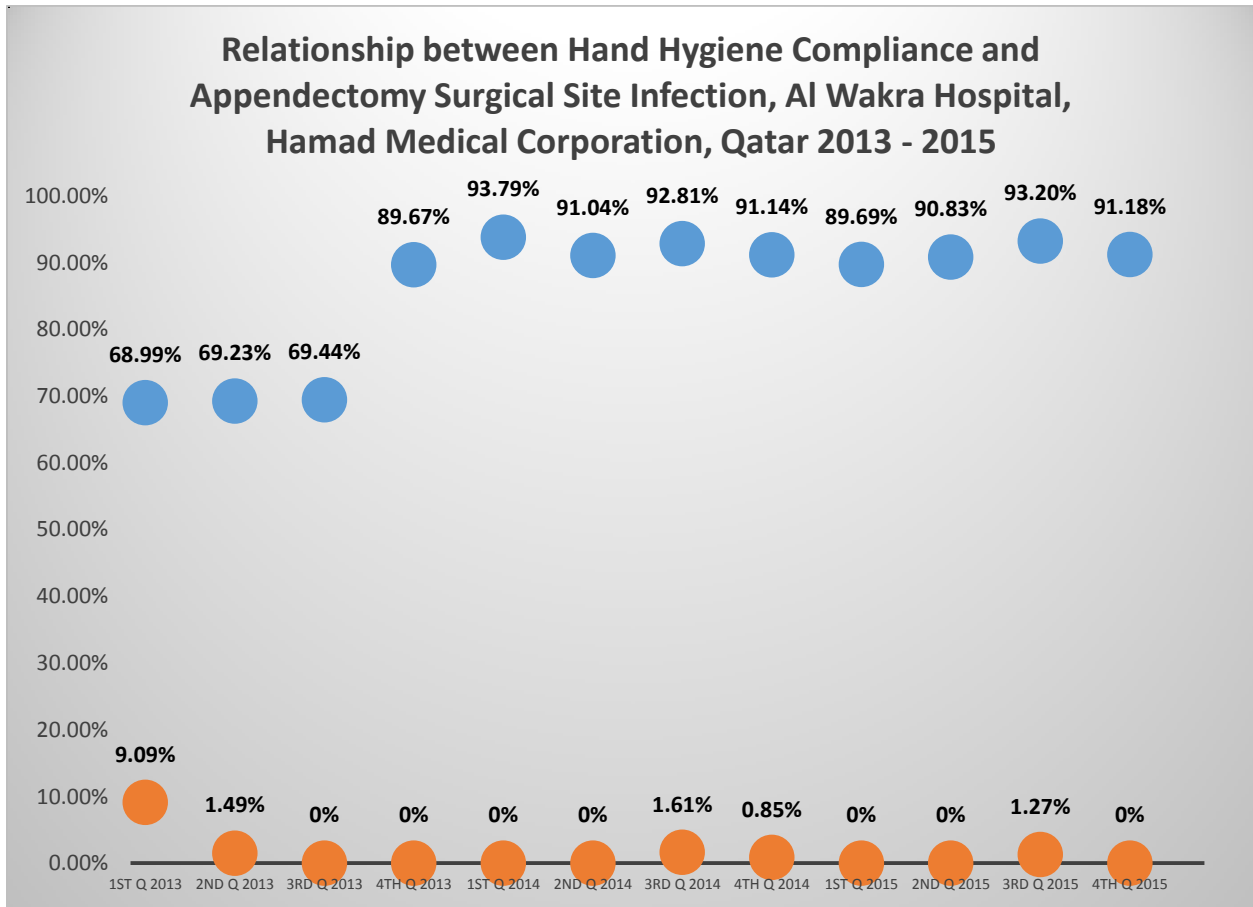


Figure 19. Relationship between Hand Hygiene Compliance and Cholecystectomy Surgical Site Infection, Al Wakra Hospital, Hamad Medical Corporation, Qatar 2013 - 2015

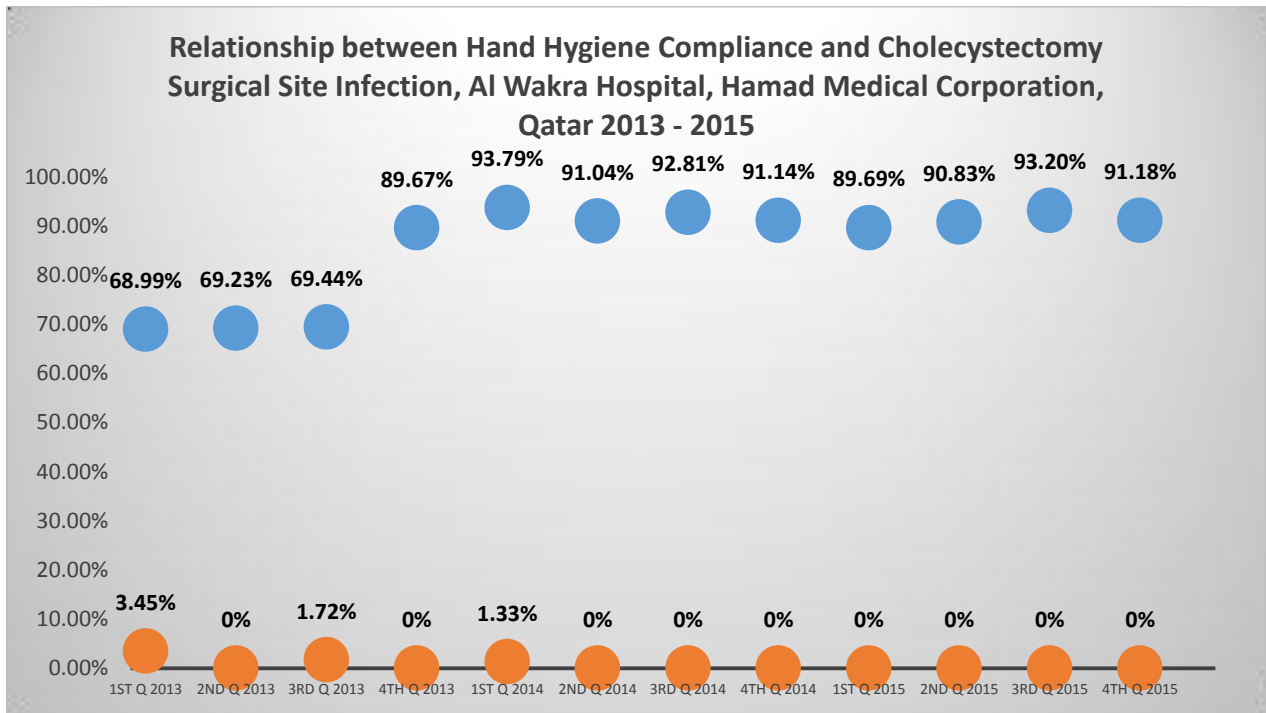


Figure 20. Relationship between Hand Hygiene Compliance and Hernia Repair Surgical Site Infection, Al Wakra Hospital, Hamad Medical Corporation, Qatar 2013 - 2015

Relationship between Hand Hygiene Compliance and Hernia Repair Surgical Site Infection, Al Wakra Hospital, Hamad Medical Corporation, Qatar 2013 - 2015

