

1. Armstrong-Novak J, Juan HY, Cooper K, Bailey P. Healthcare Personnel Hand Hygiene Compliance: Are We There Yet? *Curr Infect Dis Rep*. 2023 May 26;1-7.
2. Wilson KB, Satchell L, Smathers SA, Goff LFL, Sammons JS, Coffin SE. The power of feedback: Implementing a comprehensive hand hygiene observer program. *Am J Infect Control*. 2023 Feb;51(2):142-148.
3. Mouajou V, Adams K, DeLisle G, Quach C. Hand Hygiene Compliance in the Prevention of Hospital-Acquired Infections: A Systemic Review. *J Hosp Infect*. 2022; 119:33-48.
4. Lotfinejad N, Peters A, Tartari E, Fankhauser-Rodriguez C, Pires D, et al. Hand hygiene in health care: 20 years of ongoing advances and perspectives. *Lancet Infect Dis*. 2021;21(8):e209-e221.
5. Stadler RN, Tschudin-Sutter S. What is new with hand hygiene? *Curr Opin Infect Dis*. 2020;33(4):327-332.
6. Hillier MD. Using effective hand hygiene practice to prevent and control infection. *Nurs Stand*. 2020;35(5):45-50.
7. Martos-Cabrera MB, Mota-Romero E, Martos-García R, Gómez-Urquiza JL, Suleiman-Martos N, Albendín-García L, et al. Hand hygiene teaching strategies among nursing staff: a systematic review. *Int J Environ Res Public Health*. 2019;16(17):3039.
8. Benudis A, Stone S, Sait AS, Mahoney I, Price LL, Moreno-Koehler A, et al. Pitfalls and unexpected benefits of an electronic hand hygiene monitoring system. *Am J Infect Cont*. 2019;47(9):1102-1106.
9. Doll ME, Masroor N, Cooper K, Trimmer T, Pryor R, Auricchio J, et al. A comparison of the accuracy of two electronic hand hygiene monitoring systems. *Infect Cont Hosp Ep*. 2019;40(10):1194-1197.
10. Boyce JM, Laughman JA, Ader MH, Wagner PT, Parker AE, Arbogast JW. Impact of an automated hand hygiene monitoring system and additional promotional activities on hand hygiene performance rates and healthcare-associated infections. *Infect Cont Hosp Ep*. 2019;40(7):741-747.
11. Boyce JM, Cooper T, Yin J, Li FY, Arbogast JW. Challenges encountered and lessons learned during a trial of an electronic hand hygiene monitoring system. *Am J Infect Cont*. 2019;47(12):1443-1448.
12. Suchomel M, Leslie RA, Parker AE, Macinga DR. How long is enough? Identification of product dry-time as a primary driver of alcohol-based hand rub efficacy. *Antimicrob Resist In*. 2018;7(1):65.
13. Pong S, Holliday P, Fernie G. Effect of electronic real-time prompting on hand hygiene behaviors in health care workers. *Am J Infect Cont*. 2018;46(7):768-774.
14. Kilpatrick C, Tartari E, Gayet-Ageron A, Storr J, Tomczyk S, Allegranzi B, et al. Global hand hygiene improvement progress: two surveys using the WHO Hand Hygiene Self-Assessment Framework. *J Hosp Infect*. 2018;100(2):202-206.
15. Albright J, White B, Pedersen D, Carlson P, Yost L, Littau C. Use patterns and frequency of hand hygiene in healthcare facilities: Analysis of electronic surveillance data. *Am J Infect Control*. 2018;46(10):1104-1109.
16. Livorsi DJ, Goedken CC, Sauder M, Vander Weg MW, Perencevich EN, Reisinger HS. Evaluation of barriers to audit-and-feedback programs that used direct observation of hand hygiene compliance: a qualitative study. *JAMA*. 2018;1(6):e183344.
17. Dalziel C, McIntyre J, Chand AG, McWilliam S, Ritchie L. Validation of a national hand hygiene proxy measure in NHS Scotland. *J Hosp Infect*. 2018;98(4):375-377.
18. Wilkinson MA, Ormandy K, Bradley CR, Hines J. Comparison of the efficacy and drying times of liquid, gel and foam formats of alcohol-based hand rubs. *J Hosp Infect*. 2018;98(4):359-364.
19. Limper HM, Slawsky L, Garcia-Houchins S, Mehta S, Hershov RC, Landon E. Assessment of an aggregate-level hand hygiene monitoring technology for measuring hand hygiene performance among healthcare personnel. *Infect Cont Hosp Ep*. 2017;38(3):348-352.

20. Stahmeyer JT, Lutze B, Von Lengerke T, Chaberny IF, Krauth C. Hand hygiene in intensive care units: a matter of time?. *J Hosp Infect.* 2017;95(4):338-343.
21. Han A, Conway LJ, Moore C, McCreight L, Ragan K, So J, et al. Unit-specific rates of hand hygiene opportunities in an acute-care hospital. *Infect Cont Hosp Ep.* 2017;38(4):411-416.
22. Boyce JM. Electronic monitoring in combination with direct observation as a means to significantly improve hand hygiene compliance. *Am J Infect Control.* 2017;45(5):528-535.
23. Edmisten C, Hall C, Kernizan L, Korwek K, Preston A, Rhoades E, et al. Implementing an electronic hand hygiene monitoring system: lessons learned from community hospitals. *Am J Infect Control.* 2017;45(8):860-865.
24. Dyson J, Madeo M. Investigating the use of an electronic hand hygiene monitoring and prompt device: influence and acceptability. *J Infect Prev.* 2017;18(6):278-287.
25. Tschudin-Sutter S, Rotter ML, Frei R, Nogarth D, Häusermann P, Strandén A, et al. Simplifying the WHO 'how to hand rub' technique: three steps are as effective as six—results from an experimental randomized crossover trial. *Clin Microbiol Infect.* 2017;23(6):409-e1.
26. Masroor N, Doll M, Stevens M, Bearman G. Approaches to hand hygiene monitoring: From low to high technology approaches. *Int J Infect Dis.* 2017;65:101-104.
27. Conway LJ. Challenges in implementing electronic hand hygiene monitoring systems. *Am J Infect Control.* 2016;44(5):e7-e12.
28. Linam WM, Honeycutt MD, Gilliam CH, Wisdom CM, Bai S, Deshpande JK. Successful development of a direct observation program to measure health care worker hand hygiene using multiple trained volunteers. *Am J Infect Control.* 2016;44(5):544-547.
29. Limper HM, Garcia-Houchins S, Slawsky L, Hershow RC, Landon E. A validation protocol: assessing the accuracy of hand hygiene monitoring technology. *Infect Cont Hosp Ep.* 2016;37(8):1002-1004.
30. Srigley JA, Furness CD, Gardam M. Interventions to improve patient hand hygiene: a systematic review. *J Hosp Infect.* 2016;94(1):23-29.
31. Deyneko A, Cordeiro F, Berlin L, Ben-David D, Perna S, Longtin Y. Impact of sink location on hand hygiene compliance after care of patients with *Clostridium difficile* infection: a cross-sectional study. *BMC Infect Dis.* 2016;16(1):203.
32. Stewardson AJ, Sax H, Gayet-Ageron A, Touveneau S, Longtin Y, Zingg W, et al. Enhanced performance feedback and patient participation to improve hand hygiene compliance of health-care workers in the setting of established multimodal promotion: a single-centre, cluster randomised controlled trial. *Lancet Infect Dis.* 2016;16(12):1345-1355.
33. Sunkesula VC, Meranda D, Kundrapu S, Zabarsky TF, McKee M, Macinga DR, et al. Comparison of hand hygiene monitoring using the 5 Moments for Hand Hygiene method versus a wash in–wash out method. *Am J Infect Cont.* 2015;43(1):16-19.
34. Pineles LL, Morgan DJ, Limper HM, Weber SG, Thom KA, Perencevich EN, et al. Accuracy of a radiofrequency identification (RFID) badge system to monitor hand hygiene behavior during routine clinical activities. *Am J Infect Cont.* 2014;42(2):144-147.
35. Ward MA, Schweizer ML, Polgreen PM, Gupta K, Reisinger HS, Perencevich EN. Automated and electronically assisted hand hygiene monitoring systems: a systematic review. *Am J Infect Cont.* 2014;42(5):472-478.
36. Cloutman-Green E, Kalaycioglu O, Wojani H, Hartley JC, Guillas S, Malone D, et al. The important role of sink location in handwashing compliance and microbial sink contamination. *Am J Infect Cont.* 2014;42(5):554-555.
37. Diller T, Kelly JW, Blackhurst D, Steed C, Boeker S, McElveen DC. Estimation of hand hygiene opportunities on an adult medical ward using 24-hour camera surveillance: validation of the HOW2 Benchmark Study. *Am J Infect Cont.* 2014;42(6):602-607.
38. Marra AR, Camargo TZ, Magnus TP, Blaya RP, dos Santos GB, Guastelli LR, et al. The use of real-time

- feedback via wireless technology to improve hand hygiene compliance. *Am J Infect Cont.* 2014;42(6):608-611.
39. Macinga DR, Shumaker DJ, Werner HP, Edmonds SL, Leslie RA, Parker AE, et al. The relative influences of product volume, delivery format and alcohol concentration on dry-time and efficacy of alcohol-based hand rubs. *BMC Infect Dis.* 2014;14(1):511.
 40. Ellingson K, Haas JP, Aiello AE, Kusek L, Maragakis LL, Olmsted RN, et al. Strategies to prevent healthcare-associated infections through hand hygiene. *Infect Cont Hosp Ep.* 2014;35(8):937-960.
 41. Yin J, Reisinger HS, Vander Weg M, Schweizer ML, Jesson A, Morgan DJ, et al. Establishing evidence-based criteria for directly observed hand hygiene compliance monitoring programs: a prospective, multicenter cohort study. *Infect Cont Hosp Ep.* 2014;35(9):1163-1168.
 42. Schweizer ML, Reisinger HS, Ohl M, Formanek MB, Blevins A, Ward MA, et al. Searching for an optimal hand hygiene bundle: a meta-analysis. *Clin Infect Dis.* 2013;58(2):248-259.
 43. Macinga DR, Edmonds SL, Campbell E, Shumaker DJ, Arbogast JW. Efficacy of novel alcohol-based hand rub products at typical in-use volumes. *Infect Cont Hosp Ep.* 2013;34(3):299-301.
 44. Pincock T, Bernstein P, Warthman S, Holst E. Bundling hand hygiene interventions and measurement to decrease health care-associated infections. *Am J Infect Cont.* 2012;40(4):S18-27.
 45. Fries J, Segre AM, Thomas G, Herman T, Ellingson K, Polgreen PM. Monitoring hand hygiene via human observers: how should we be sampling?. *Infect Cont Hosp Ep.* 2012;33(7):689-695.
 46. Morgan DJ, Pineles L, Shardell M, Young A, Ellingson K, Jernigan JA, et al. Automated hand hygiene count devices may better measure compliance than human observation. *Am J Infect Cont.* 2012;40(10):955-959.
 47. Larson EL, Cohen B, Baxter KA. Analysis of alcohol-based hand sanitizer delivery systems: efficacy of foam, gel, and wipes against influenza A (H1N1) virus on hands. *Am J Infect Cont.* 2012;40(9):806-809.
 48. Steed C, Kelly JW, Blackhurst D, Boeker S, Diller T, Alper P, et al. Hospital hand hygiene opportunities: where and when (HOW2)? The HOW2 Benchmark Study. *Am J Infect Cont.* 2011;39(1):19-26.
 49. Cheng VC, Tai JW, Ho SK, Chan JF, Hung KN, Ho PL, et al. Introduction of an electronic monitoring system for monitoring compliance with Moments 1 and 4 of the WHO "My 5 Moments for Hand Hygiene" methodology. *BMC Infect Dis.* 2011;11(1):151.
 50. Sax H, Allegranzi B, Chraïti MN, Boyce J, Larson E, Pittet D. The World Health Organization hand hygiene observation method. *Am J Infect Cont.* 2009;37(10):827-834.
 51. Boyce J, Chartier Y, Chraïti M, Cookson B, Damani N, Dharan S. WHO guidelines on hand hygiene in health care. *Geneva: World Health Organization.* 2009.
 52. Venkatesh AK, Lankford MG, Rooney DM, Blachford T, Watts CM, Noskin GA. Use of electronic alerts to enhance hand hygiene compliance and decrease transmission of vancomycin-resistant Enterococcus in a hematology unit. *Am J Infect Cont.* 2008;36(3):199-205.
 53. Larson EL, Quiros D, Lin SX. Dissemination of the CDC's Hand Hygiene Guideline and impact on infection rates. *Am J Infect Cont.* 2007;35(10):666-675.
 54. Vernon MO, Trick WE, Welbel SF, Peterson BJ, Weinstein RA. Adherence with hand hygiene: does number of sinks matter?. *Infect Cont Hosp Ep.* 2003;24(3):224-225.