

Baseline Hand Hygiene Self-Assessment Framework analysis of a new teaching hospital and its external comparison to national, regional and global surveys for benchmarking

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Introduction: Hand Hygiene Self-Assessment Framework (HHSAF) is a tool to analyse hand hygiene promotion and practices as outlined in WHO Multimodal Hand Hygiene Improvement Strategies, in effort to curb healthcare associated infection and antimicrobial resistance. Since its inception in 2009, a few HHSAF surveys at national, regional and global level have been done.

Objective: We aimed to establish the baseline HHSAF score of a new hospital, to analyse and to externally compare with national, regional and global data for benchmarking purposes

Method: HASA's first analysis was done in February 2024. Published HHSAF data in the past 5 years involving Malaysia, Southeast Asia as well as worldwide were reviewed and analysed.

Result: The HHSAF total score was 410, categorising HASA into the Advanced Hand Hygiene level (376-500). Individual scores for the five components were System Change (100/100), Training and Education (85/100), Evaluation and Feedback (80/100), Reminders in the Workplace (90/100) and Institutional Safety Climate (55/100). HASA did not attain the minimum score for Hand Hygiene Leadership level. Among the HHSAF's five components, the lowest score concerned 'Institutional Safety Climate', a trend also seen at national, regional and global level (range 30-85). System Change component scored highest, similar to that seen at regional and global level (range 80-85).

Discussion: HASA's baseline HHSAF score is at advanced level, about three years since its operation. This means that hand hygiene promotion and optimal hand hygiene practices exist, thus helping to embed a culture of safety around hand hygiene. However, there are still room for improvement in certain strategies especially that of the 'Institutional Safety Climate' component.



	Global (Worldwide)	Regional (SE Asia)	National (Malaysia)	Institutional (HASA)
Year of survey	2019	2019	2019	2024
Total score	350	350	450	410
HH level	Intermediate	Intermediate	Advanced	Advanced
System Change	85	80	85	100
Training and Education	74	63	90	85
Evaluation and Feedback	70	60	95	80
Reminders in the Workplace	70	63	95	90
Institutional Safety Climate	55	30	85	55