

Supplement Table 1. Hand hygiene opportunities, by hospital beds, healthcare worker, clinical areas, World Health Organization hand hygiene moments, 2019-2022

Variables	HH Opportunities															
	2019				2020				2021				2022			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
Total	190,744	185,642	112,491	130,297	172,703	165,838	163,154	170,706	164,904	163,577	150,053	168,223	321,597	313,041		
Hospital beds ≥900	18,337	19,337	4,389	7,628	23,396	20,990	24,934	25,415	18,526	18,180	15,120	18,193	52,047	49,553		
700-899	30,765	25,221	13,880	18,980	14,421	16,268	13,488	14,300	15,287	16,388	15,185	13,155	64,536	60,846		
500-699	20,779	20,629	13,382	13,761	13,660	14,547	14,269	14,587	16,014	15,780	12,941	14,211	39,255	37,964		
300-499	31,661	31,613	21,140	23,447	31,003	30,100	30,242	31,294	29,345	28,099	26,217	27,180	48,443	47,338		
≤299	89,202	88,802	59,690	66,481	90,223	83,933	80,221	85,110	85,732	85,130	80,590	77,740	117,316	117,340		
HCW	23,046	21,438	14,154	16,207	20,359	19,061	18,977	19,780	18,582	17,718	16,019	18,016	33,145	32,038		
Nurses	109,124	105,143	61,254	70,755	92,815	90,358	87,969	91,076	86,763	86,943	79,748	88,816	184,852	178,838		
Medical technologists	34,896	35,749	22,334	26,516	35,540	33,492	33,160	36,060	35,176	35,126	32,198	36,915	63,096	61,292		
Assistants	20,704	21,008	13,709	15,991	22,604	21,719	22,048	22,649	22,835	22,542	20,929	22,711	37,682	38,434		
Students	2,974	2,304	1,030	828	1,385	1,208	1,000	1,141	1,548	1,248	1,159	1,765	2,822	2,439		
Clinical areas	34,408	29,838	15,875	17,125	21,913	20,633	21,527	20,979	18,744	18,750	16,093	19,344	45,960	42,341		
Ward	81,377	79,608	48,446	55,117	72,406	72,464	67,798	71,725	70,373	69,721	62,437	69,699	136,761	137,108		
ER	10,923	10,635	6,233	7,417	9,693	8,447	8,464	8,716	8,281	7,659	7,573	8,363	14,817	13,812		
HD	7,870	7,500	4,178	5,274	6,130	6,383	6,454	6,748	6,702	6,397	6,849	7,397	12,979	11,894		
LAB	12,441	13,275	9,569	10,924	16,432	14,414	14,742	14,505	14,680	15,236	14,819	15,054	25,626	26,305		
OPD	36,932	37,952	23,312	27,925	36,274	35,133	35,073	38,513	37,238	37,179	34,243	39,484	68,181	65,909		

Others	6,793	6,834	4,868	6,515	9,855	8,364	9,096	9,520	8,886	8,635	8,039	8,882	17,273	15,672
Hand hygiene moments	59,946	57,625	37,917	43,710	56,558	53,132	51,494	54,630	52,799	53,242	48,284	53,753	100,558	97,848
Before clean/aseptic procedures	35,995	32,526	20,815	23,134	30,660	28,317	27,454	28,539	27,811	27,795	28,032	28,456	51,905	52,415
After body fluid exposure risk	36,620	36,767	20,724	22,896	30,413	28,063	27,750	27,760	27,197	27,183	24,538	28,364	54,195	53,241
After touching a patient	65,126	63,975	39,915	46,343	61,304	56,545	54,896	58,073	57,561	57,804	51,472	58,706	113,021	108,388
After touching a patient's surroundings	24,241	23,452	14,838	17,390	22,371	21,270	21,288	22,516	21,185	20,959	20,081	22,399	43,263	41,915

ER: Emergency room, HCW: Healthcare worker, HD: Hemodialysis room, HH: Hand Hygiene, ICU: Intensive care unit, LAB: Clinical laboratory, OPD: Outpatient, Q1: Jan-Mar, Q2: Apr-Jun, Q3: Jul-Sep, Q4: Oct-Dec