

Supplementary file SB. Distribution of Nursing Activities Within the Four Activity Classifications Across Units and Hospitals

The tables below provide a detailed breakdown of the nursing activities included within the four predefined activity classifications: direct care nursing activities, indirect care nursing activities, organisational nursing activities, and non-patient care nursing activities.

For each participating medical and surgical unit across the five hospitals, the table reports the mean proportion of observed shift time (%) allocated to each specific activity area within its corresponding classification.

Direct Care Nursing Activities	Circulatory system care	Gastrointestinal system care	Respiratory system care	Urinary system care	Hygiene care	Wound care / Dressing changes	Patient mobilization	Vital signs monitoring	Invasive procedures care	Admission / Discharge/Patient Communication	Bed making	Medication administration	Swab collection	Emergency care
Hospital 1 Surgery Unit 1	4,40%	1,75%	1,38%	3,08%	5,13%	1,03%	4,18%	18,83%	3,11%	19,36%	3,29%	12,87%	0,06%	1%
Hospital 1 Medical Unit 1	4,07%	0,07%	0,00%	0,77%	0,11%	0,80%	0,33%	38,92%	0,05%	4,99%	0,19%	3,15%	0,19%	0%
Hospital 1 Surgery Unit 2	3,57%	1,23%	0,21%	1,06%	1,32%	0,83%	1,00%	18,21%	1,19%	7,34%	1,13%	8,99%	0,27%	0%
Hospital 1 Surgery Unit 3	1,68%	1,31%	0,52%	3,77%	12,07%	9,19%	10,20%	18,36%	0,17%	6,79%	3,75%	9,27%	1,84%	0%
Hospital 1 Medical Unit 2	2,94%	0,79%	0,62%	4,92%	0,64%	0,92%	1,74%	25,52%	0,23%	6,00%	0,21%	13,38%	0,16%	0%
Hospital 2 Medical Unit 3	11,04%	2,74%	2,51%	2,64%	11,10%	4,45%	4,71%	2,88%	2,54%	3,17%	1,67%	13,52%	0,38%	0%
Hospital 3 Medical Unit 4	6,37%	1,03%	3,38%	1,72%	5,60%	3,99%	1,63%	9,10%	1,94%	7,36%	0,26%	26,68%	0,17%	0%
Hospital 3 Surgery Unit 4	15,85%	1,43%	1,81%	3,09%	4,98%	4,12%	7,45%	1,78%	0,08%	2,16%	1,71%	24,49%	0,05%	0%
Hospital 3 Medical	19,35%	0,61%	0,00%	0,45%	11,81%	0,39%	1,36%	0,82%	0,17%	3,15%	2,99%	22,12%	0,35%	0%

Unit 5														
Hospital 3 Surgery Unit 5	0,79%	2,82%	0,75%	1,06%	3,72%	7,65%	5,23%	2,03%	0,00%	1,47%	1,08%	30,39%	0,13%	0%
Hospital 4 Surgery Unit 6	1,94%	2,64%	0,15%	1,78%	10,26%	1,10%	4,64%	4,69%	0,16%	1,50%	2,41%	9,95%	0,03%	0%
Hospital 5 Surgery Unit 7	2,53%	1,72%	0,01%	2,15%	0,76%	2,71%	1,21%	4,10%	0,49%	12,93%	0,93%	9,97%	0,00%	0%
Hospital 5 Medical Unit 6	4,93%	2,29%	3,59%	1,46%	5,09%	1,60%	4,40%	3,32%	1,57%	9,78%	0,74%	19,86%	0,03%	0%

Indirect Care Nursing Activitie s	Nursing docume ntation/r eview	Verbal patient handove r	Dietary care planning	Medical record review/d ata entry	Comunic ation with other healthca re professi onals	Commun ication with the nurse manager	Commun ication with nursing colleagu es	Commun ication with physicia ns	Multidisc iplinary ward round	medicati on preparati on: Intermitt ent intraven ous	medicati on preparati on: Continu ous intraven ous	medicati on preparati on: Enteral therapy	medicati on preparati on: Oral medicati on
Hospital 1 Surgery Unit 1	13,28%	7,10%	2,12%	11,38%	1,48%	2,09%	5,16%	5,49%	0,69%	1,12%	2,06%	0,05%	1,85%
Hospital 1 Medical Unit 1	1,55%	3,31%	0,96%	2,19%	0,29%	0,10%	0,58%	0,86%	1,19%	0,27%	0,04%	0,02%	0,57%
Hospital 1 Surgery Unit 2	3,39%	5,13%	1,28%	3,55%	0,62%	0,00%	1,57%	0,21%	0,64%	0,82%	0,49%	0,02%	1,22%
Hospital 1 Surgery Unit 3	7,35%	7,33%	2,26%	8,68%	2,66%	0,54%	2,38%	1,44%	0,30%	1,77%	2,12%	0,26%	1,57%
Hospital 1 Medical Unit 2	4,78%	8,21%	1,33%	8,05%	0,74%	0,20%	1,58%	2,73%	0,00%	8,03%	1,05%	0,09%	1,33%
Hospital 2 Medical	3,07%	3,91%	0,13%	2,30%	0,33%	0,62%	3,19%	2,17%	3,81%	2,10%	2,18%	1,85%	2,28%

Unit 3													
Hospital 3 Medical Unit 4	3,84%	0,64%	0,00%	1,69%	0,30%	1,03%	0,60%	0,96%	2,11%	0,58%	0,51%	0,46%	0,55%
Hospital 3 Surgery Unit 4	20,64%	5,17%	1,11%	11,21%	0,56%	1,77%	4,51%	1,88%	1,27%	2,63%	3,19%	1,78%	1,44%
Hospital 3 Medical Unit 5	1,34%	1,08%	0,00%	3,01%	0,00%	0,00%	1,55%	0,26%	0,43%	0,26%	0,82%	0,24%	0,37%
Hospital 3 Surgery Unit 5	23,42%	9,76%	0,00%	10,54%	2,87%	9,63%	12,48%	4,68%	4,84%	2,26%	0,91%	0,87%	2,02%
Hospital 4 Surgery Unit 6	1,30%	6,04%	0,00%	15,42%	0,54%	0,06%	2,96%	0,57%	0,92%	4,68%	0,64%	0,28%	1,42%
Hospital 5 Surgery Unit 7	5,67%	4,97%	0,27%	4,85%	0,14%	0,06%	2,41%	0,90%	0,00%	2,07%	0,45%	0,13%	2,40%
Hospital 5 Medical Unit 6	7,37%	3,89%	0,19%	3,37%	0,27%	0,76%	1,68%	1,62%	2,42%	3,67%	1,11%	0,37%	3,45%

Organisa tional Nursing Activitie s	Quality control checks (glucom eter, emergen cy cart, controlle d drugs, expiry dates)	Online administ rative procedur es	Cleaning , tidying, and restocki ng of clinical areas and medicati ons	Staff COVID- 19 testing	Delegati on of activities to:Nurse manager	Delegati on of activities to:Regist ered nurse	Delegati on of activities to:Physi cian	Delegati on of activities to:Nurse Assistan ts	Delegati on of activities to:Stude nt	Educatio n and training activities to students , newly hired staff, and healthca re assistant s	Isolation organisa tion: Commun ication, setup, removal, sanitisa tion, and donning procedur es	Incomin g telephon e calls:fro m admissio ns, pharmac y, physicia ns, internal services, and external callers	Outgoing telephon e calls: to cleaning, maintena nce, linen services, engineer ing, hospital wards, specime n and patient transpor tation, admissio ns, pharmac y, external services (ambula nce), and physicia ns
Hospital 1 Surgery Unit 1	2,70%	6,42%	13,61%	0,82%	0,36%	1,17%	0,66%	7,03%	0,46%	0,23%	1,70%	2,54%	2,12%
Hospital	0,05%	0,77%	14,43%	0,00%	0,00%	0,02%	0,05%	0,00%	0,00%	0,00%	0,65%	0,92%	2,13%

1 Medical Unit 1													
Hospital 1 Surgery Unit 2	0,96%	3,09%	13,70%	0,14%	0,00%	0,00%	0,10%	0,07%	0,32%	0,00%	0,66%	2,23%	2,10%
Hospital 1 Surgery Unit 3	0,04%	2,69%	13,98%	0,77%	0,00%	0,08%	0,09%	0,27%	0,00%	0,51%	0,92%	4,80%	2,35%
Hospital 1 Medical Unit 2	0,00%	3,14%	13,24%	0,12%	0,00%	0,21%	0,13%	0,22%	0,00%	0,00%	2,12%	1,94%	2,53%
Hospital 2 Medical Unit 3	1,15%	1,34%	13,83%	0	0,06%	0,40%	0,05%	1,10%	2,22%	13,41%	0,70%	4,08%	3,80%
Hospital 3 Medical Unit 4	0,00%	1,79%	13,30%	0	2,05%	0,02%	0,46%	2,53%	0,85%	2,31%	0,57%	0,58%	4,38%
Hospital 3 Surgery Unit 4	0,00%	0,42%	15,42%	0	0,14%	0,87%	0,86%	2,59%	1,42%	1,29%	0,87%	0,95%	2,20%
Hospital 3 Medical Unit 5	0,00%	0,00%	12,88%	0	0,00%	0,00%	0,43%	1,70%	11,21%	0,13%	0,57%	0,61%	1,69%
Hospital 3 Surgery Unit 5	1,59%	1,79%	13,99%	0	0,06%	0,98%	1,80%	0,30%	2,43%	4,88%	1,94%	1,86%	2,38%
Hospital 4 Surgery Unit 6	0,16%	0,73%	12,88%	0	0,00%	0,01%	0,00%	0,84%	0,20%	1,58%	1,30%	0,81%	1,88%
Hospital 5 Surgery Unit 7	1,89%	1,62%	13,09%	0	0,00%	0,00%	0,00%	0,31%	0,00%	1,62%	0,73%	1,82%	2,09%
Hospital 5 Medical Unit 6	0,00%	0,88%	13,34%	0	0,00%	0,11%	0,06%	1,86%	0,97%	0,43%	0,76%	0,92%	1,77%

Non-patient Care Nursing Activities	Waiting time	Interruption	Moving within the ward	Personal time	Time outside the ward
Hospital 1 Surgery Unit 1	1,87%	32,36%	64,21%	2,38%	0,41%
Hospital 1 Medical Unit 1	0,16%	6,52%	8,29%	2,52%	0,73%
Hospital 1 Surgery Unit 2	0,00%	7,06%	13,79%	3,41%	0,92%
Hospital 1 Surgery Unit 3	0,42%	3,61%	8,40%	2,68%	0,98%
Hospital 1 Medical Unit 2	0,60%	4,78%	34,88%	2,61%	0,64%
Hospital 2 Medical Unit 3	4,03%	8,62%	5,75%	8,73%	4,72%
Hospital 3 Medical Unit 4	0,00%	12,29%	12,36%	3,61%	0,30%
Hospital 3 Surgery Unit 4	0,00%	10,33%	15,48%	2,86%	0,00%
Hospital 3 Medical Unit 5	0,00%	0,00%	0,00%	0,00%	0,09%
Hospital 3 Surgery Unit 5	0,00%	5,72%	10,63%	1,94%	0,00%
Hospital 4 Surgery Unit 6	0,79%	2,10%	2,19%	2,38%	1,92%
Hospital 5 Surgery Unit 7	0,35%	7,12%	12,01%	13,26%	2,06%
Hospital 5 Medical Unit 6	0,00%	11,70%	13,99%	4,72%	0,68%