

Table A1 Non-sterile equipment, excluding hand hygiene products, touched by non-scrubbed healthcare workers. During 11 full length (12 hours 50 minutes) surgical operations.

Rank	frequency of hand contact event (HCE)	Non-sterile equipment touched by non-scrubbed staff immediately after patient contact	Total HCE (N=591)
1		Storage trolley top	46
2		IV bag/line	46
3		OR table control	41
4		Door plate	33
5		Anaesthetic work station	26
6		Suction canister/tubes	25
7		IV Pole	25
8		Positioning supports	24
9		Ward bed upper surface	23
10		Olympus stack	23
11		Patient notes	21
12		Bedding/gown	20
13		Anaesthetic work station IV tray	16
14		Breathing circuit	16
15		Operating table top	15
16		Moving and handling glide board/sheet	14
17		Oxygen mask/tubing	14
18		ECG cables	13
19		Oxygen cylinder	11
20		Moving and handling machine	11
21		Seats upper surface	10
22		Blood Pressure cables/cuff	9
23		Medication canister	9
24		Oxygen saturation probe and cables	9
25		IV Pump buttons	8
26		Operating light handle outer edge	7
27		Storage trolley drawer	6
28		OR phone	6
29		Monitors (excluding computer monitor)	6
30		Computer keyboard and mouse	6
31		Syringe	5
32		Waste bag	5
33		Elastic adhesive bandage	4
34		Diathermy machine	3
35		Warming blanket/machine	3
36		Vascular compression garment	3
37		Ward bed control	3
38		Urinary Catheter	3
39		Laryngoscope	2
40		Sharps bin lid	2
41		Basin on wheels top edge	2
42		Disposable floor cable safety mat	2
43		Blood glucose monitor	1
44		Clamp	1
45		Foot button	1
46		Laryngeal mask packet	1
47		Medication cupboard	1
48		Microscope remote control	1
49		Needle packets	1
50		Pen	1
51		Personal Protective Equipment dispenser	1
52		Non-sterile glove	1
53		Shelf (for notes)	1
54		Urinary catheter support	1
55		Clip board	1
56		Light Switch	1
57		Nappy	1

Appendix Table A2. Non-sterile equipment touched by non-scrubbed staff during a full length (185 minutes) Ophthalmology surgery (Ophthalmology 2 Adult)

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
IV bag/line	7	Door plate	1
OR table control	6	Clip board	1
IV Pole	5		
Operating table top	4		
Ward bed upper surface	4		
Moving and handling glide board/sheet	4		
Oxygen cylinder	3		
IV Pump buttons	3		
Suction canister/tubes	3		
Anaesthetic work station IV tray	3		
Urinary Catheter	3		
Syringe	2		
Olympus stack	2		
Warming blanket/machine	2		
Storage trolley top	1		
Positioning supports	1		
Blood Pressure cables/cuff	1		
Ward bed control	1		
Vascular compression garment	1		

Table A3. Non-sterile equipment touched by non-scrubbed staff during a full length (80 minutes) Gynaecology surgery. Gynaecology 1 Adult			
Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
OR table control	12	Medication canister	4
Storage trolley top	8	Door plate	3
Seats upper surface	5	shelf (for notes)	1
Anaesthetic work station	3	PPE Gloves	1
IV Pump buttons	3	Medication cupboard	1
IV Pole	2	Waste bag	1
Bedding/gown	2	Floor cable safety mat	2
Blood Pressure cables/cuff	1	Sharps bin lid	1
Operating light handle outer edge	1	Foot button	1
Urinary Catheter Support	1	Storage trolley drawer	1
Olympus stack	1		
Syringe	1		
Moving and handling glide board/sheet	1		
Vascular compression garment	1		
Warming blanket/machine	1		

Appendix Table A4. Non-sterile equipment touched by non-scrubbed staff during a full length (40 minutes) Ear Nose Throat surgery. Ear Nose Throat 1 Adult

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
Storage trolley top	8	Elastic adhesive bandage	3
Olympus stack	5	Door plate	3
Anaesthetic work station IV tray	5	Storage trolley drawer	2
Suction canister/tubes	3	Laryngeal mask packet	1
Anaesthetic work station	2	Medication canister	1
IV Pole	2	Patient notes	4
Syringe	2		
Breathing circuit	1		
Oxygen mask/tubing	1		
Seats upper surface	1		
Positioning supports	1		
IV bag/line	1		
Clamp	1		

Appendix Table A5. Non-sterile equipment touched by non-scrubbed staff during a full length (65 minutes) Ear Nose Throat surgery. Ear Nose Throat 2 Adult

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
Storage trolley top	12	Door plate	3
Anaesthetic work station	6	Medication box	1
Bedding/gown	5	Pen	1
Ward bed upper surface	4	Elastic adhesive bandage	1
IV bag/line	4	Storage trolley drawer	1
Blood Pressure cables/cuff	4	Patient notes	2
Oxygen mask/tubing	3		
Positioning supports	3		
Oxygen saturation probe and cables	3		
Oxygen cylinder	3		
Suction canister/tubes	3		
Laryngoscope	2		
Operating table top	2		
ECG cables	2		
Olympus stack	2		
Breathing circuit	1		
Moving and handling glide board/sheet	1		

Appendix Table A6. Non-sterile equipment touched by non-scrubbed staff during a full length (40 minutes) Ear Nose Throat surgery. Ear Nose Throat 3 Adult

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
IV bag/line	11	Door plate	2
Storage trolley top	10	Comp. keyboard & mouse	1
Suction canister/tubes	6	Storage trolley drawer	1
OR table control	5		
Anaesthetic work station IV tray	3		
Oxygen saturation probe and cables	3		
Diathermy machine	3		
Anaesthetic work station	3		
Bedding/gown	2		
IV Pump buttons	2		
Positioning supports	1		
Operating table top	1		
Breathing circuit	1		
Ward bed control	1		
IV Pole	1		
Moving and handling glide board/sheet	1		

Appendix Table A7. Non-sterile equipment touched by non-scrubbed staff during a full length (60 minutes) maxillofacial surgery. Maxillofacial 1 Adult

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
IV bag/line	12	Comp. keyboard & mouse	4
Moving and handling machine	10	Door plate	3
IV Pole	4	Patient notes	3
Positioning supports	3	OR phone	2
Olympus stack	2	Sharps bin lid	1
Operating light handle outer edge	2	Storage trolley drawer	1
Anaesthetic work station IV tray	1		
Oxygen cylinder	1		
Seats upper surface	1		
Oxygen mask/tubing	1		

Appendix Table A8. Non-sterile equipment touched by non-scrubbed staff during a full length (30 minutes) maxillofacial surgery. Maxillofacial2 Children

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
Oxygen mask/tubing	4	Patient notes	4
Oxygen cylinder	4	Door plate	1
Operating table top	4		
Anaesthetic work station IV tray	3		
Anaesthetic work station	2		
Olympus stack	2		
Breathing circuit	2		
Storage trolley top	1		
ECG cables	1		

Appendix Table A9. Non-sterile equipment touched by non-scrubbed staff during a full length (55 minutes) ophthalmology surgery. Ophthalmology 1 Adult			
Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
IV bag/line	5	Door plate	5
IV Pole	3	OR phone	3
OR table control	1	Patient notes	2
Breathing circuit	1	Waste bag	2
Positioning supports	1	Comp. keyboard & mouse	1
Blood glucose monitor	1	PPE dispenser	1
Anaesthetic work station IV tray	1	Needle packets	1
Basin on wheels top edge	1		
Microscope remote control	1		

Appendix Table A10. Non-sterile equipment touched by non-scrubbed staff during a full length (80 minutes) urology surgery. Urology 1 Adult

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
Storage trolley top	6	Door plate	3
Positioning supports	6	Waste bag	2
IV bag/line	6	OR phone	1
IV Pole	6	Patient notes	1
Suction canister/tubes	5		
Olympus stack	4		
Monitors (excluding computer monitor)	3		
Anaesthetic work station	3		
OR table control	3		
Bedding/gown	2		
Seats upper surface	2		
Ward bed upper surface	1		
Ward bed control	1		
Vascular compression garment	1		
Operating table top	1		
ECG cables	1		
Moving and handling machine	1		

Appendix Table A11. Non-sterile equipment touched by non-scrubbed staff during a full length (60 minutes) urology surgery. Urology 2 Children

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
Positioning supports	8	Door plate	3
Anaesthetic work station	7	Medication canister	3
Ward bed upper surface	6	Patient notes	2
Breathing circuit	6		
ECG cables	5		
Bedding/gown	5		
Moving and handling glide board/sheet	4		
Monitors (excluding computer monitor)	3		
Oxygen mask/tubing	3		
Operating light handle outer edge	3		
Oxygen saturation probe and cables	3		
Olympus stack	3		
IV Pole	2		
OR table control	2		

Appendix Table A12. Non-sterile equipment touched by non-scrubbed staff during a full length (75 minutes) urology surgery. Urology 3 Children

Non-sterile equipment touched in the patient zone	Hand contact events	Non-sterile equipment touched in the healthcare zone	Hand contact events
Ward bed upper surface	8	Door plate	6
Suction canister/tubes	5	Patient notes	3
Breathing circuit	4	Light Switch	1
ECG cables	4		
Bedding/gown	4		
Operating table top	3		
Blood Pressure cables/cuff	3		
Moving and handling glide board/sheet	3		
Olympus stack	2		
Oxygen mask/tubing	2		
Operating light handle outer edge	1		
Seats upper surface	1		
Basin on wheels top edge	1		
Nappy	1		