

Incidence and Prevalence of Pressure Ulcers in General Intensive Care: A Longitudinal Retrospective Audit and Service Improvement Evaluation.

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Hotspots:
where are yours?



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Incidence and Prevalence of Pressure Ulcers Acquired in GICU


Date	Number of patients treated	Number of Critical Care Bed Days			Pressure Ulcers Acquired in GICU			Medical Device Related Pressure Ulcers		
		Level 3	Level 2	Level 1	Incidence	% Difference from 2013	Prevalence	Incidence	% Difference from 2013	Prevalence
01/09/2013-31/08/2014	2084 Pre Hotspot Project	2596	3038	415	81	n/a	3.9%	24	n/a	1.2%
01/09/2014-31/08/2015	1983	2566	3060	334	71	12.3% Reduction (n=10)	3.6%	34	41.7% Increase (n=10)	1.7%
01/09/2015-31/08/2016	1878	2687	3216	310	71	12.3% Reduction (n=10)	3.8%	34	41.7% Increase (n=10)	1.8%
01/09/2016-31/08/2017	1867	2763	2993	272	55	32.1% Reduction (n=26)	2.9%	25	4.2% Increase (n=1)	1.3%

Incidence of Pressure Ulcers relating to Source and Location

Pressure Ulcer Area	Number of Pressure Ulcers (%) Sept 2013 - Aug 2014	Number of Pressure Ulcers (%) Sept 2014 -Aug 2015	Number of Pressure Ulcers (%) Sept 2015 - Aug 2016	Number of Pressure Ulcers (%) Sept 2016 – August 2017
Sacrum/Buttocks	39 (48.2%)	23 (32.4%)	24 (33.8%)	15 (27.3%)
Behind Ears (O ₂ Therapy)	10 (12.3%)	5 (7.0%)	9 (12.7%)	6 (10.9%)
Heels	8 (9.8%)	9 (12.7%)	6 (8.5%)	9 (16.4%)
Knee/hip/back/elbow/thigh	5 (6.2%)	2 (2.8%) 2 x Back	5 (7.0%) 4 x Elbow, 1 x Back	3 (5.5%) 1 x Elbow,1 x spine
Nostril (NG)	4 (4.9%)	2 (2.8%)	4 (5.6%) 1 x Nasal ET	7 (12.7%)
Bridge of Nose (BiPaP)	4 (4.9%)	3 (4.2%)	3 (4.2%)	3 (5.5%)
Legs (Compression aids)	3 (3.7%) Stockings	3 (4.2%) Stockings	2 (2.8%) 2x Mechanical Compression	0 (0%)
Scrotum/penis/groin	3 (3.7%) 1 x Scrotum,penis, groin	1 (1.4%) Scrotum	1 (1.4%) Scrotum	0 (0%)
Mouth/Lips (ET Tube)	2 (2.5%)	10 (14.1%)	8 (11.3%)	4 (7.3%)
Toes/Feet/Ankles	2 (2.5%) 1 x Toes, 1 x Ankle	3 (4.2%) 1x Plaster cast, Toes, Balls of Feet	1 (1.4%) 1 x Foot	3 (5.5%) Toes
Jaw (Miami J Collar)	1 (1.2%)	0 (0%)	0 (0%)	0 (0%)
Upper lip (Oral ET tube fastener)	0 (0%)	3 (4.2%)	1 (1.4%)	1 (1.8%)
Septum of nose (O ₂ Therapy)	0 (0%)	3 (4.2%)	0 (0%)	0 (0%)
Septum of nose (Bridle)	0 (0%)	3 (4.2%)	3 (4.2%)	0 (0%)
Tongue (Mouth Guard)	0 (0%)	1 (1.4%)	0 (0%)	2 (3.6%) 1 tongue, 1 x lip
Saturation Probe	0 (0%)	0 (0%)	4 (5.6%) 2 x Earlobe, 1 x Toe, 1 x Finger	1 (1.8%) 1 x Earlobe
Back of Head	0 (0%)	0 (0%)	0 (0%)	1 (1.8%)
Total Number of PU's	81 (73 Patients)	71 (65 Patients)	71 (68 Patients)	55 (52 Patients)
Device Related PU's	24 (29.6%)	34 (47.9%)	34 (47.9%)	25 (45.5%)

Summary



- * 12.3% - 32.1% reduction in pressure ulcers!
61.5% (n=24) reduction in sacral pressure ulcers
- * 4.2% - 41.7 % increase in MDR pressure ulcers. 
- * Prevalence of MDR ulcers 1.2% - 1.8% less than previous studies (3.1% - Coyer et al, 2013).
- * Hotspot project raised awareness of MDR pressure injury but more needs to be done!
- * Collaboration and closer working relationships with manufacturers to improve product design. 