

Body Mass Index, Weight, and Pressure Ulcer Prevalence

An Analysis of the 2006–2007 International Pressure Ulcer Prevalence™ Surveys

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Abstract

To assess the relationships among pressure ulcer prevalence, body mass index (BMI), and weight, this report analyzed the US data from the 2006 and 2007 International Pressure Ulcer Prevalence™ Surveys. Findings indicated an overall reduction in pressure ulcer prevalence from 2004 and 2005 to 2006 and 2007; there was a higher prevalence of pressure ulcers in patients with low BMI and patients with both low and high weights. One in 10 patients were extremely obese.

Additional tables are found below for the above referenced abstract: <http://www.jncqjournal.com/pt/re/jncq/abstract.00001786-900000000-99986.htm>

2006-2007 International Pressure Ulcer Prevalence™ Surveys, number of surveyed men and women patients in US healthcare facilities. Data includes all facility types and lists patients for whom weight and height were recorded in the surveys.

BMI Category	2006	Gender		2007	Gender	
	Total # Pts.	# (%) Male Patients	# (%) Female Patients	Total # Pts.	# (%) Male Patients	# (%) Female Patients
<18.5 (Under-weight)	3,542	1,422 (4.8)	2,029 (6.2)	2,955	1,154 (4.7)	1,665 (6.1)
18.5 - 24.9 (normal)	20,153	9,777 (32.8)	9,878 (30.0)	16,503	7,705 (31.2)	8,205 (30.0)
25-29.9 (Over-weight)	17,845	9,145 (30.7)	8,221 (25.0)	15,217	7,792 (31.6)	6,960 (25.4)
30-39.9 (obese)	16,522	7,369 (24.7)	8,714 (26.5)	13,987	6,223 (25.2)	7,231 (26.4)
40-49.9 (Extremely obese)	4,478	1,551 (5.2)	2,820 (8.6)	3,779	1,330 (5.4)	2,350 (8.6)
50 and above (super obese)	1,832	566 (1.9)	1,232 (3.7)	1,503	466 (1.9)	971 (3.5)

2006-2007 International Pressure Ulcer Prevalence™ Surveys, Prevalence data by weight category, age, average BMI per category, and average Braden Score® limited to US data includes all facility types and lists patients for whom weight was recorded in the surveys.

Assessments by Weight Category

Weight Class	Patients		Prevalence %											Mean		
	#	%	Overall Prev. %	% of Expected Prev.	NPU Prev. %	% of Expected NPU Prev.	Stage							Age	BMI	Braden Score®
							I	II	III	IV	Eschar / Unable to Stage	DTI*	Uns**			
2006																
51-100	2,517	3.6	25.0	178.1	10.4	159.3	35.9	35.2	9.0	7.3	9.8	2.1	0.6	73	17.6	16
101-150	22,399	32.5	16.9	120.4	7.7	117.9	34.7	36.0	7.1	6.7	12.0	3.2	0.2	70	23.0	18
151-200	27,290	39.6	12.8	91.2	6.1	93.4	31.4	39.2	6.7	6.5	11.9	3.6	0.5	67	28.6	18
201-250	11,569	16.8	10.3	73.4	5.0	76.6	27.6	40.8	7.9	6.6	13.5	2.9	0.6	62	35.1	19
251-300	3,539	5.1	10.5	74.8	5.2	79.6	22.4	43.5	7.6	9.5	13.0	3.8	0.3	59	42.4	19
301-350	1,057	1.5	12.0	85.5	5.1	78.1	23.6	44.9	7.1	5.5	18.1	0.8	0.0	55	50.4	18
351-400	332	0.5	15.1	107.5	7.8	119.4	22.0	38.0	8.0	10.0	12.0	8.0	2.0	54	57.9	17
401-450	152	0.2	13.8	98.3	3.9	59.7	14.3	47.6	19.0	4.8	9.5	4.8	0.0	52	66.6	17
451-500	57	0.1	17.5	124.6	5.3	81.2	20.0	30.0	10.0	10.0	10.0	10.0	10.0	48	74.2	17
>500	52	0.1	19.2	136.8	7.7	117.9	10.0	50.0	10.0	20.0	10.0	0.0	0.0	53	92.3	15
2007																
51-100	1,915	3.3	25.6	178.3	11.1	173.2	36.0	32.2	7.5	8.4	10.6	4.7	0.6	73	17.4	16
101-150	18,383	31.6	17.4	121.2	7.7	120.1	33.9	36.0	7.0	7.1	12.1	3.5	0.5	70	23.0	17
151-200	22,896	39.4	13.1	91.2	5.8	90.5	29.9	36.9	7.3	7.3	13.5	3.8	1.3	66	28.5	18
201-250	10,214	17.6	10.9	75.9	5.2	81.1	28.8	39.6	7.2	6.6	12.5	4.2	1.1	62	34.9	18
251-300	3,217	5.5	10.7	74.5	4.8	74.9	23.3	43.6	6.7	5.5	15.4	4.1	1.5	58	42.2	18
301-350	962	1.7	11.4	79.4	5.5	85.8	22.7	40.0	8.2	11.8	14.5	1.8	0.9	55	49.7	18
351-400	337	0.6	15.7	109.3	5.6	87.4	17.0	49.1	7.5	1.9	11.3	11.3	1.9	54	57.4	18
401-450	126	0.2	15.1	105.2	8.7	135.7	15.8	31.6	15.8	5.3	21.1	10.5	0.0	50	63.8	17
451-500	49	0.1	28.6	199.2	6.1	95.2	14.3	64.3	14.3	0.0	0.0	7.1	0.0	50	71.7	17
>500	61	0.1	24.6	171.3	8.2	127.9	6.7	80.0	0.0	6.7	6.7	0.0	0.0	48	91.7	16

*Deep Tissue Injury

**Unspecified