

Table 7B.5.1: Osteoporosis and Fragility Fractures for Persons Age 50 and Over, by Age, United States

	Prevalence per 100 Population 2005-2010 [1]				
	50-59	60-69	70-79	80 & Over	Total
Osteoporosis	5.1	8.0	16.4	26.2	10.3
Low Bone Mass	40.2	43.6	47.3	52.9	43.9

	Hospital Discharges 2013 (in 000s) [2]					Emergency Department Visits 2013 (in 000s) [3]					Total Hospital Discharges/ED Visits 2013 (in 000s)				
	50-59	60-69	70-79	80 & Over	Total	50-59	60-69	70-79	80 & Over	Total	50-59	60-69	70-79	80 & Over	Total
Primary Osteoporosis [4]	64.3	152.2	239.6	436.7	892.6	81.4	154.2	241.2	500.7	977.4	145.7	306.4	480.8	937.4	1,870.0
Fragility Fractures															
Hip fracture [5]	16.9	37.7	66.7	175.0	296.4	16.9	35.1	64.9	180.8	297.7	33.8	72.8	131.6	355.8	594.1
Spine fracture [6]	13.9	17.5	25.2	49.7	106.3	27.5	39.6	41.2	85.3	193.6	41.4	57.1	66.4	135.0	299.9
Pelvic fracture [7]	3.7	5.1	7.9	24.8	41.6	6.8	8.8	14.2	39.5	69.2	10.5	13.9	22.1	64.3	110.8
Femur (thigh) fracture [8]	4.9	7.4	8.3	15.2	35.9	5.8	8.2	9.7	17.3	41.0	10.7	15.6	18.0	32.5	76.9
Wrist fracture [9]	3.3	3.6	3.5	5.2	15.6	57.0	52.3	37.6	39.6	186.4	60.3	55.9	41.1	44.8	202.0
Humerus (arm) fracture [10]	6.2	9.9	11.8	17.0	44.9	31.1	40.3	37.4	48.8	157.7	37.3	50.2	49.2	65.8	202.6
Total all OP fracture discharges	49.0	81.2	123.5	286.9	540.6	145.0	174.2	205.1	411.6	935.7	194.0	255.4	328.6	698.5	1,476.3

	Proportion of Total				Proportion of Total				Proportion of Total			
	50-59	60-69	70-79	80 & Over	50-59	60-69	70-79	80 & Over	50-59	60-69	70-79	80 & Over
Primary Osteoporosis	7%	17%	27%	49%	8%	16%	25%	51%	8%	16%	26%	50%
Fragility Fractures												
Hip fracture [5]	6%	13%	23%	59%	6%	12%	22%	61%	6%	12%	22%	60%
Spine fracture [6]	13%	16%	24%	47%	14%	20%	21%	44%	14%	19%	22%	45%
Pelvic fracture [7]	9%	12%	19%	60%	10%	13%	21%	57%	9%	13%	20%	58%
Femur (thigh) fracture [8]	14%	21%	23%	42%	14%	20%	24%	42%	14%	20%	23%	42%
Wrist fracture [9]	21%	23%	22%	33%	31%	28%	20%	21%	30%	28%	20%	22%
Humerus (arm) fracture [10]	14%	22%	26%	38%	20%	26%	24%	31%	18%	25%	24%	32%
Total all OP fracture discharges	9%	15%	23%	53%	15%	19%	22%	44%	13%	17%	22%	47%

Proportion of Discharges/Visits for All Diagnoses	50-59	60-69	70-79	80 & Over	Total
	1.1%	1.6%	2.6%	5.9%	2.8%

* Does not meet standards for reliability

[1] Source: Wright NC, Looker AC, Saag KG, et al. "The recent prevalence of osteoporosis and low bone mass in the United States based on bone mineral density at the femoral neck or lumbar spine." *JBMR* 2014;29(11):2520-2526. DOI: 10.1002/jbmr.2269

[2] Source: HCUP Nationwide Inpatient Sample (NIS). Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD. www.hcup-us.ahrq.gov/nisoverview.jsp

[3] Source: HCUP Nationwide Emergency Department Sample (NEDS). Healthcare Cost and Utilization Project (HCUP). 2013. Agency for Healthcare Research and Quality, Rockville, MD. www.hcup-us.ahrq.gov/nedsoverview.jsp

[4] ICD-9-CM diagnoses codes for primary osteoporosis (733.0).

[5] ICD-9-CM codes 820.0, 820.2, 733.14

[6] ICD-9-CM codes 805.0, 805.2, 805.4, 805.8, 806.0, 806.2, 806.4, 806.8, 733.13

[7] ICD-9-CM codes 808.0, 808.2, 808.4, 808.8

[8] ICD-9-CM codes 821.0, 821.2, 733.15

[9] ICD-9-CM codes 813.4, 733.12

[10] ICD-9-CM codes 812.0, 812.2, 812.4, 733.11