

**Table 7D.5: Osteoporosis and Fragility Fractures for Persons Age 50 and Over, by Race/Ethnicity, United States**

|   | Prevalence per 100 Population 2005-2010 [1] |              |              |              |                     |  |              |              |              |                     |  |              |              |          |         |              |
|---|---|--------------|--------------|--------------|---------------------|--|--------------|--------------|--------------|---------------------|--|--------------|--------------|----------|---------|--------------|
|   | White Only,                                 | Black Only,  | Mexican      | Total        |                     |  |              |              |              |                     |  |              |              |          |         |              |
|   | Non-Hispanic                                | Non-Hispanic | American     |              |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Osteoporosis                                      | 10.2  | 4.9          | 13.4         | 10.3         |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Low Bone Mass                                     | 44.9  | 29.7         | 43.2         | 43.9         |                     |  |              |              |              |                     |  |              |              |          |         |              |
|   | Hospital Discharges 2013 (in 000s) [2]      |              |              |              |                     | Emergency Department Visits 2013 (in 000s) [3] |              |              |              |                     | Total Hospital Discharges/ED Visits 2013 (in 000s) |              |              |          |         |              |
|   | White Only,                                 | Black Only,  | Other/Mixed, |              | Total               | White Only,                                    | Black Only,  | Other/Mixed, |              | Total               | White Only,  | Black Only,  | Other/Mixed, |          | Total   |              |
|   | Non-Hispanic                                | Non-Hispanic | Hispanic     | Non-Hispanic |                     | Non-Hispanic                                   | Non-Hispanic | Hispanic     | Non-Hispanic |                     | Non-Hispanic                                       | Non-Hispanic | Non-Hispanic | Hispanic |         | Non-Hispanic |
| Primary Osteoporosis [4]                          | 64.3  | 152.2        | 239.6        | 436.7        | 892.6               | NA   | NA           | NA           | NA           | 977.4               | NA   | NA           | NA           | NA       | 1,870.0 |              |
| Fragility Fractures                               |   |              |              |              |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Hip fracture [5]                                  | 244.1                                       | 11.3         | 14.8         | 11.3         | 296.4               | NA   | NA           | NA           | NA           | 297.7               | NA   | NA           | NA           | NA       | 594.1   |              |
| Spine fracture [6]                                | 85.1  | 4.6          | 5.9          | 5.2          | 106.3               | NA   | NA           | NA           | NA           | 183.6               | NA   | NA           | NA           | NA       | 289.9   |              |
| Pelvic fracture [7]                               | 34.2  | 1.7          | 1.9          | 1.6          | 41.6                | NA   | NA           | NA           | NA           | 69.2                | NA   | NA           | NA           | NA       | 110.8   |              |
| Femur (thigh) fracture [8]                        | 27.4  | 2.7          | 2.4          | 1.6          | 35.9                | NA   | NA           | NA           | NA           | 41.0                | NA   | NA           | NA           | NA       | 76.9    |              |
| Wrist fracture [9]                                | 12.0  | 0.6          | 1.6          | 0.7          | 15.6                | NA   | NA           | NA           | NA           | 186.4               | NA   | NA           | NA           | NA       | 202.0   |              |
| Humerus (arm) fracture [10]                       | 36.4  | 1.7          | 2.8          | 1.8          | 44.9                | NA   | NA           | NA           | NA           | 157.7               | NA   | NA           | NA           | NA       | 202.6   |              |
| Total all OP fracture discharges                  | 439.2                                       | 22.5         | 29.3         | 22.2         | 540.6               | NA   | NA           | NA           | NA           | 935.7               | NA   | NA           | NA           | NA       | 1,476.3 |              |
|   | Proportion of Total                         |              |              |              | Proportion of Total |  |              |              |              | Proportion of Total |  |              |              |          |         |              |
|   |   |              |              |              |                     |  |              |              |              |                     |  |              |              |          |         |              |
|   | Primary Osteoporosis                        | 7%           | 17%          | 27%          | 49%                 |  |              |              |              |                     |  |              |              |          |         |              |
| Fragility Fractures                               |   |              |              |              |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Hip fracture [5]                                  | 82%   | 4%           | 5%           | 4%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Spine fracture [6]                                | 80%   | 4%           | 6%           | 5%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Pelvic fracture [7]                               | 82%   | 4%           | 5%           | 4%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Femur (thigh) fracture [8]                        | 76%   | 8%           | 7%           | 4%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Wrist fracture [9]                                | 77%   | 4%           | 10%          | 4%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Humerus (arm) fracture [10]                       | 81%   | 4%           | 6%           | 4%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Total all OP fracture discharges                  | 81%   | 4%           | 5%           | 4%           |                     |  |              |              |              |                     |  |              |              |          |         |              |
| Proportion of Discharges/Visits for All Diagnoses | 3.2%  | 1.0%         | 2.1%         | 2.4%         | 2.8%                |  |              |              |              |                     | 2.0%   |              |              |          |         |              |

NA Not available

[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](http://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](http://www.hcup-us.ahrq.gov/nedsoverview.jsp). NOTE: The NEDS does not include a race/ethnicity variable.

[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