**Table 1. Bone mineral density in the patients with and without history of fractures**

|  |  |  |  |
| --- | --- | --- | --- |
| BMD, T criterion, SD | LEF, n (%), n = 540 | No LEF, n (%), n = 1388 | P value |
| ≥ +0.1 | 5 (1) | 122 (8.8) | 0.0001 |
| Normal | 13 (2.4) | 211 (15.2) | 0.0001 |
| Osteopenia | 201 (37.2) | 655 (47.2) | 0.0001 |
| Osteoporosis | 321 (59.4) | 400 (28.8) | 0.0001 |

BMD, bone mineral density; LEF, low energy fractures

**Table 2. The association of T-criterion with the fracture risk**

|  |  |  |
| --- | --- | --- |
| 10-year risk of MOF, % | Patient numbers, n (%) | Т-criterion, Ме [Q1; Q3] |
| < 10 | 829 (65.4) | -1.3 [-1.9; -0.6]\* |
| 10–19 | 346 (27.3) | -2.6 [-3.1; -2.0] |
| 20–29 | 76 (6) | -2.9 [-3.5; -2.4] |
| ≥ 30 | 17 (1.3) | -3.6 [-4.1; -2.1] |

MOF, major osteoporotic fractures

\* p < 0.001 compared to the risk groups 10–19%, 20–29%, and ≥ 30%

**Table 3. Bone mineral density depending on the risk of fractures**

|  |  |  |  |
| --- | --- | --- | --- |
| 10-year risk of MOF, % | BMD, T-criterion, n (%) | | |
| Normal | Osteopenia | Osteoporosis |
| < 10 | 312 (37.6)\* | 424 (51.2)\*, \*\*\* | 93 (11.2)\* |
| 10–19 | 12 (3.5) | 130 (37.6)\*\*\* | 204 (59)\*\* |
| 20–29 | 1 (1.3) | 19 (25)\*\*\* | 56 (73.7) |
| ≥ 30 | 0 | 6 (35.3) | 11 (64.7) |

BMD, bone mineral density; MOF, major osteoporotic fractures

\* p < 0.001 compared to the groups 10–19, 20–29, and ≥ 30%

\*\* p < 0.02 compared to the group 20–29%

\*\*\* p = 0.0001 (osteopenia compared to osteoporosis in each risk group)

**Table 4. Age distribution of the patients in the groups depending on the necessity of treatment for osteoporosis**

|  |  |  |  |
| --- | --- | --- | --- |
| Age, years | Treatment indicated, n (%), n = 1089 | Treatment not indicated, n (%), n = 851 | P value |
| < 50 | 10 (0.9) | 27 (3.2) | 0.0006 |
| 50–59 | 210 (19.3) | 247 (29) | 0 |
| 60–69 | 489 (44.9) | 375 (44) | 0.74 |
| 70–79 | 291 (26.7) | 161 (19) | 0.0001 |
| ≥ 80 | 89 (8.2) | 41 (4.8) | 0.004 |

**Table 5. Bone mineral density in the patients depending on the necessity of treatment for osteoporosis**

|  |  |  |  |
| --- | --- | --- | --- |
| BMD | Treatment indicated, n (%), n = 1089 | Treatment not indicated, n (%), n = 851 | P value |
| Normal | 14 (1.3) | 344 (40.4) | < 0.001 |
| Osteopenia | 352 (32.3) | 507 (59.6) |
| Osteoporosis | 723 (66.4) | 0 |

BMD, bone mineral density