

Table 1

Demographic and clinical characteristics of the patients.

| Characteristics | Value |
|--------------------------------|--------------------------------|
| Number of patients | 27 |
| Age (yrs.) | 75.19±4.91 (range 69-88) |
| Male to female ratio | 6:21 |
| Bone density T score | -3.58±0.59 (range -2.9 - -5.5) |
| Disease location | |
| T10 | 1 patient |
| T11 | 3 patients |
| T12 | 15 patients |
| L1 | 8 patients |
| Accompanied disease | |
| Diabetes | 3 patients |
| Hypertension | 8 patients |
| Coronary heart disease | 7 patients |
| Li classification | |
| Stage II | 20 patients |
| Stage III | 7 patients |
| Surgical duration (minutes) | 49.63±10.82 (range 30-70) |
| Volume of cement (millilitres) | 4.70±0.87 (range 3-6) |
| Hospital stays (days) | 3.30±0.95 (range 2-5) |

Table 2

Statistical results of the radiographic parameters, VAS and ODI scores.

| | Preoperative | Postoperative | Final follow-up | P ₁ | P ₂ | P ₃ |
|-----------|--------------|---------------|-----------------|----------------|----------------|----------------|
| VBI (%) | 43.11±5.94 | 78.70±2.55 | 78.04±2.30 | 0.000 | 0.000 | 0.092 |
| VBA (°) | 21.04±2.55 | 12.70±2.11 | 13.15±2.38 | 0.000 | 0.000 | 0.056 |
| BCA (°) | 45.00±6.26 | 26.11±4.73 | 27.07±4.87 | 0.000 | 0.000 | 0.082 |
| VAS score | 7.59±0.84 | 3.22±0.93 | 2.04±0.65 | 0.000 | 0.000 | 0.000 |
| ODI score | 79.85±7.58 | 50.04±9.28 | 22.85±5.06 | 0.000 | 0.000 | 0.000 |

P₁: Postoperative compared with preoperative.P₂: Final follow-up compared with preoperative.P₃: Final follow-up compared with postoperative.

Data are presented as the mean±standard deviation.

Table 3

Statistical results of the SF-36 scores.

| | Preoperative | Final follow-up | t | P |
|-------------------------|--------------|-----------------|-------|-------|
| Physical function (PF) | 45.19±6.28 | 77.96±6.69 | 33.64 | 0.000 |
| Role-physical (RP) | 28.70±19.25 | 75.00±16.98 | 12.50 | 0.000 |
| Body pain (BP) | 15.93±8.62 | 68.15±6.18 | 25.12 | 0.000 |
| General health (GH) | 44.33±12.23 | 45.59±12.03 | 1.06 | 0.298 |
| Vitality (VT) | 48.33±11.68 | 62.04±11.37 | 7.87 | 0.000 |
| Social function (SF) | 29.17±10.40 | 34.72±11.14 | 2.73 | 0.011 |
| Emotional function (RE) | 56.79±22.32 | 62.97±23.28 | 1.04 | 0.306 |
| Mental health (MH) | 64.30±11.94 | 67.26±12.45 | 1.99 | 0.057 |

Data are presented as the mean±standard deviation.

Table 4

The result of Odom's criteria.

| Odom's result | No. of Patients (%) |
|---------------|---------------------|
| Excellent | 19 (70.4%) |
| Good | 7(25.9%) |
| Satisfactory | 1 (3.7%) |
| Poor | 0 (0%) |