



Table 1. Baseline Characteristics

|           | MI scarf group<br>(N=30)        | Open scarf group<br>(N=28)   | <i>P</i> value |
|-----------|---------------------------------|------------------------------|----------------|
| Mean Age  | 60.7<br>(range, 42-80)<br>years | 64.2<br>(range, 46-78) years | 0.204          |
| Mean IMA  | 15.27<br>(range, 13-19) °       | 14.66<br>(range, 13-18.5) °  | 0.212          |
| Mean HVA  | 32.87<br>(range, 21-48) °       | 33.34<br>(range, 24-43) °    | 0.764          |
| Mean DMAA | 10.73<br>(range, 3-21) °        | 10.71<br>(range, 3-19) °     | 0.991          |

Radiological results according to the HVA (Hallux Valgus Angle), IMA (Intermetatarsal angle) and DMAA (distal metatarsal articular angle)

|                 | MI scarf group<br>(n=30) | Open scarf group<br>(n=28) | <i>P</i> value |
|-----------------|--------------------------|----------------------------|----------------|
| HVA             |                          |                            |                |
| Preoperative    | 32.9<br>(range, 21-48) ° | 33.3<br>(range, 25-45) °   | 0.764          |
| Final follow-up | 12.7<br>(range, 4-19) °  | 10.5<br>(range, 3-19) °    | 0.08           |
| IMA             |                          |                            |                |
| Preoperative    | 15.3<br>(range, 13-19) ° | 14.7<br>(range, 11-19) °   | 0.212          |
| Final follow-up | 7.3<br>(range, 3-12) °   | 7.5<br>(range, 4.5-12) °   | 0.793          |
| DMAA            |                          |                            |                |
| Preoperative    | 10.7<br>(range, 1-20) °  | 10.7<br>(range, 2-21) °    | 0.991          |
| Final follow-up | 2.8<br>(range, 1-6) °    | 3<br>(range, 1-8) °        | 0.803          |

Intraoperative characteristics

|                   | MI scarf group<br>(N=30)          | Open scarf group<br>(N=28)     | <i>P</i> value |
|-------------------|-----------------------------------|--------------------------------|----------------|
| Procedure<br>time | 16.7<br>(range, 12-25)<br>minutes | 26.1<br>(range, 21-34) minutes | <b>0.0001</b>  |

**Adverse Events:**

Two patients showed hypertrophic scar formation in the open group. One patient required screw removal because of screw prominence and skin irritation after the MI procedure. In the MI group, failure to correct the HVA was observed in two patients, although no revision surgery was required due to minimal functional discomfort.