

Table S1. Scoring system for evaluation of the fracture healing of bone de-fects on radiographs.

| Criterion | Score |
|---|-------|
| 1. Bone formation | |
| No evidence of bone formation | 1 |
| Bone formation occupying 25% of defect | 2 |
| Bone formation occupying 50% of defect | 3 |
| Bone formation occupying 75% of defect | 4 |
| 2. Total radiographic union | |
| Nonunion | 1 |
| Possible union | 2 |
| Radiographic union | 3 |
| 3. Proximal osteotomy union | |
| Nonunion | 1 |
| Mild bridge (<50%) | 2 |
| Moderate bridge (>50%) | 3 |
| Union | 4 |
| 4. Distal osteotomy union | |
| Nonunion | 1 |
| Mild bridge (<50%) | 2 |
| Moderate bridge (>50%) | 3 |
| Union | 4 |
| 5. Bridging | |
| No bridging | 1 |
| <50% bridged | 2 |
| >50% bridged | 3 |
| Fully bridged | 4 |
| Normal cortical morphology | 5 |
| 6. Fracture lines | |
| Fracture line from 1.0 to 5.0 mm without bone proliferation | 1 |
| Fracture line from 1.0 to 5.0 mm, with bone proliferation, without bridging callus | 2 |
| Fracture line from 1.0 to 5.0 mm, with bone proliferation and bridging callus | 3 |
| Fracture line <1.0 mm, without bone proliferation | 4 |
| Fracture line <1.0 mm, with bone proliferation, without bridging callus | 5 |
| Fracture line <1.0 mm, with bone proliferation and bridging callus (clinical healing) | 6 |
| Absence of fracture line | 7 |
| 7. Resorption of the implant | |
| No evidence of resorption | 1 |
| Mild resorption | 2 |
| Full | 3 |
| 8. Graft-host bone junction | |
| No connection | 1 |
| Cortex to trabecula | 2 |
| Cortex to cortex (one side) | 3 |
| Cortex to cortex (both sides) | 4 |
| 9. Remodeling | |
| No remodeling | 1 |
| Remodeling of the intramedullary channel | 2 |
| Full | 3 |