

Clinical Studies with HMT Orthopaedic Shock Wave Treatment Device OssaTron

Pseudarthrose

Extracorporeal Shock Wave Therapy of Nonunion or Delayed Osseous Union

One hundred fifteen patients with nonunions or delayed fracture healing were treated with high- energy shock waves. After shock wave treatment, immobilization of the fracture also was done. The follow up was at least 3 months and as long as 4 years. In 87 patients (75.7%), one treatment with shock waves resulted in bony consolidation with a simultaneous decrease in symptoms. Besides negligible local reactions (swelling, hematomas, petechial hemorrhages), no complications were observed. The treatment was noninvasive, and personnel and technical requirements were not problematic. The authors concluded that the application of extra corporeal shock wave therapy should be the first choice of treatment for patients with nonunions and delayed bone fracture healing.

Number of patients treated in the study: 115

Region	Number	Osseous Union	Persistent Nonunion
Tibia	34	26	8
Ulna	9	7	2
Humerus	5	1	4
Scaphoid	21	14	7
Femur	12	11	1
Radius	5	4	1
Talus	2	2	
Knee	2		2
Ankle	9	9	
Elbow	4	3	1
Finger	7	6	1
Midfoot	3	2	1
Femoral neck	1	1	
Pelvic osteotomy	1	1	
Total	115	87	28
Percent	100 %	75.7%	24.3%

Types of Fractures and Outcome After Shock Wave

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