

TABLE E-1 Clinical Rating System of Timmerman and Andrews*†

	Points
Subjective findings	
Pain	
None	25
Occasional	20
With moderate activity	10
With activities of daily living	5
Swelling	
None	25
Occasional with heavy activity	20
With moderate activity	10
With any activity	5
Locking and/or catching	
None	25
Rare	20
Occasional	10
Frequent	5
Activities	
No limit	25
Occasional limit	20
Partial activities only	10
Unable to work and/or difficulty with activities of daily living	5
Objective findings	
Flexion contracture	
<5°	25
5° to 15°	20
16° to 35°	10
>35°	0
Pronation-supination	
Normal	25
<30% decrease in total arc	20
<50% decrease in total arc	10
>50% decrease in total arc	0
Flexion-extension total arc	
>130°	50
120° to 130°	40
110° to 119°	30
100° to 109°	20
75° to 99°	10
60° to 74°	5
<60°	0

*Reproduced, with modification, from: Timmerman LA, Andrews JR. Arthroscopic treatment of posttraumatic elbow pain and stiffness. Am J Sports Med. 1994;22:230-5. Reproduced with permission.

†An overall score of 180 to 200 points indicates an excellent result; 160 to 179 points, a good result; 120 to 159 points, a fair result; and <120 points, a poor result.

TABLE E-2 Magnetic Resonance Image Scoring System of Roberts et al.*

Feature	Score†
Surface integrity and contour	1 = normal or near normal, 0 = abnormal
Cartilage signal in graft region	1 = normal or near normal, 0 = abnormal
Cartilage thickness	1 = normal or near normal, 0 = abnormal
Changes in underlying bone	1 = normal or near normal, 0 = abnormal

*Reproduced from: Roberts S, McCall IW, Darby AJ, Menage J, Evans H, Harrison PE, Richardson JB. Autologous chondrocyte implantation for cartilage repair: monitoring its success by magnetic resonance imaging and histology. *Arthritis Res Ther.* 2003;5(1):R60-73. Copyright 2003 Roberts et al., licensee BioMed Central Ltd. †Maximum total points = 4.