

TABLE E-1 ICRS Macroscopic Score*	
Variable	Points
Degree of defect repair	
In level with surrounding cartilage	4
75% repair of defect depth	3
50% repair of defect depth	2
25% repair of defect depth	1
0% repair of defect depth	0
Integration to border zone	
Complete integration with surrounding cartilage	4
Demarcating border <1 mm	3
3/4 of graft integrated and 1/4 with a notable border >1 mm wide	2
1/2 of graft integrated with surrounding cartilage and 1/2 with a notable border >1 mm	1
From no contact to 1/4 of graft integrated with surrounding cartilage	0
Macroscopic appearance	
Intact smooth surface	4
Fibrillated surface	3
Small, scattered fissures or cracks	2
Several small or few, but large, fissures	1
Total degeneration of grafted area	0
Overall repair assessment	
Grade I: normal	12
Grade II: nearly normal	11–8
Grade III: abnormal	7–4
Grade IV: severely abnormal	3–1
*Adapted from the study by Smith et al. <sup>30</sup> . ICRS = International Cartilage Repair Society.	

TABLE E-2 Modified ICRS Histological Score*	
Variable	Score
Surface	
Smooth and/or continuous	3
Discontinuities/irregularities	0
Matrix	
Hyaline	3
Mixture: hyaline/fibrocartilage	2
Fibrocartilage	1
Fibrous tissue	0
Cell distribution	
Columnar	3
Mixed/columnar-clusters	2
Clusters	1
Individual cells/disorganized	0
Cell population viability	
Predominantly viable	3
Partially viable	1
<10% viable	0
Subchondral bone	
Normal	3
Increased remodeling	2
Bone necrosis/granulation tissue	1
Detached/fracture/callus at base	0
Cartilage mineralization	
Normal	3
Abnormal/inappropriate location	0
Cartilage integration	
Bonding through cartilage-like tissue	3
Fissure fully filled with fibrous tissue	2
Fissure partially filled with fibrous tissue	1
Empty fissure	0
*Adapted from the study by Kock et al. <sup>32</sup> . ICRS = International Cartilage Repair Society.	