

Appendix Table A1. Modified ICRS Gross Grading Scale (Wayne scoring system) ¹

Feature Score	Score
Coverage	
>75% fill	4
50-75% fill	3
25-50% fill	2
<25% fill	1
No fill	0
Neocartilage color	
Normal	4
25% yellow/brown	3
50% yellow/brown	2
75% yellow/brown	1
100% yellow/brown	0
Defect margins	
Invisible	4
25% circumference visible	3
50% circumference visible	2
75% circumference visible	1
Entire circumference visible	0
Surface	
Smooth/level with normal	4
Smooth but raised	3
Irregular 25-50%	2
Irregular 50-75%	1
Irregular >75%	0
Total	16

ICRS, International Cartilage Repair Society

Appendix Table A2. ICRS Visual Histological Assessment Scale*

Feature	Score
I. Surface	
Smooth/continuous	3
Discontinuities/irregularities	0
II. Matrix	
Hyaline	3
Mixture: hyaline/fibrocartilage	2
Fibrocartilage	1
Fibrous tissue	0
III. Cell distribution	
Columnar	3
Mixed/columnar-clusters	2
Clusters	1
Individual cells/disorganized	0
IV. Cell population viability	
Predominantly viable	3
Partially viable	1
<10% viable	0
V. Subchondral Bone	
Normal	3
Increased remodeling	2
Bone necrosis/granulation tissue	1
Detached/fracture/callus at base	0

VI. Cartilage mineralization (calcified cartilage)

Normal	3
Abnormal/inappropriate location	0
Total	18

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*The observer attempted to evaluate one feature at a time. The most prominent feature on each specimen was matched to a graded panel of images that it most closely resembled. The highest score (3) was applied to the ideal repair result (i.e., truly regenerated tissue), and the lowest score (0) was applied to the poorest repair result.