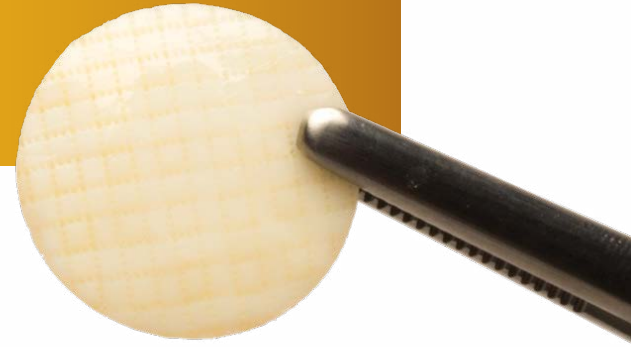


# ProChondrix CR

Living cartilage  
allograft



# Competitive advantage



ProChondrix CR is a cryopreserved, viable and intact osteochondral allograft consisting of living cells and native growth factors inherent within an extracellular matrix. A proprietary cryoprotectant method developed for ProChondrix CR allows for the living osteochondral allograft to have an extended shelf life without compromising cell viability.<sup>1</sup> ProChondrix CR is a single-stage, natural solution for patients in need of articular cartilage repair.<sup>1</sup>

## Integration

- Laser etched on deep side to enhance cell signaling and chondrocyte migration<sup>1</sup>
- Residual boney matrix contains osteoblasts<sup>1</sup>

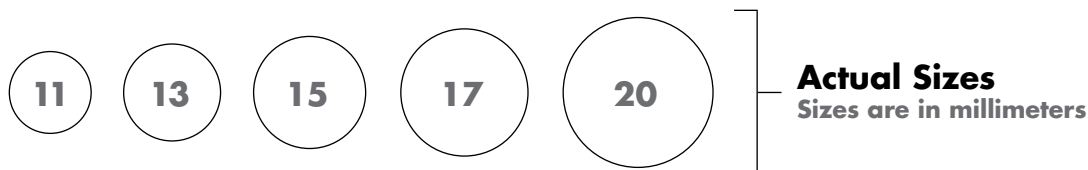
## Cell viability

- Proprietary cryopreservation method maintains original composition of fresh ProChondrix<sup>1</sup>
- Average cell viability count for ProChondrix CR was found to be 94% at two years<sup>1</sup>

## Convenience

- 2-year shelf life for cryopreserved ProChondrix CR<sup>2</sup>
- Stocking orders available
- Stored at or below -40°C<sup>3</sup>

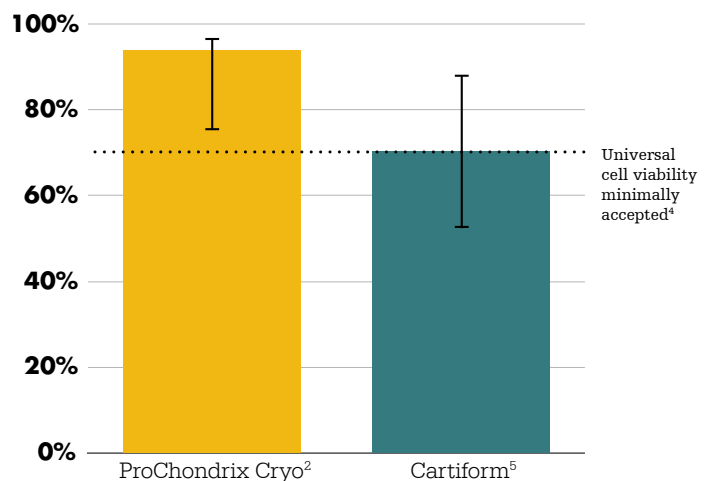
## Sizing options



## High cell **viability**

The presence of viable cells (chondrocytes) is important for the regeneration of cartilage. A high viability of chondrocytes in allografts ( $\geq 70\%$ ) is generally associated with a higher rate of successful clinical outcome when compared to grafts with a cell viability of less than 70%.<sup>4</sup>

<sup>4</sup>Cook JL, Stannard JP, Stoker AM, Bozynski CC, Kuroki K, Cook CR, Pfeiffer FM. Importance of Donor Chondrocyte Viability for Osteochondral Allografts. Am J Sports Med. 2016 May;44(5):1260-8.



# Simplified workflow

Customized instrumentation corresponding to each size graft for streamlined defect creation.

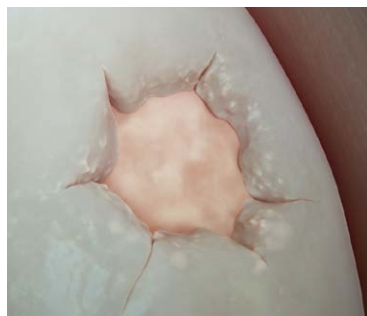
## Sizers



## Core and reamer



## Site preparation



- Pre-sized for defects 11mm—20mm



- Controlled site prep
- Exposed boney surface
- Vertical wall
- Microfracture optional



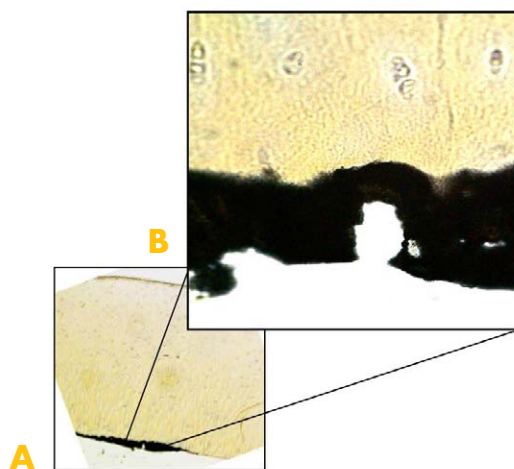
- 1mm margin
- Etched surface and boney matrix facedown for integration

## Mineralization of ProChondrix allografts

Von Kossa staining of ProChondrix displayed the presence of calcium deposition within its matrix, indicating that ProChondrix may be conducive to osteoblast progenitor growth and differentiation.<sup>6</sup>

**Figure A.** A full thickness cross section of a 1mm ProChondrix graft (4x magnification) with Von Kossa stain for mineral deposition.

**Figure B.** Same sample at higher magnification (40x).



Part Number	Description
234210011	ProChondrix CR 11mm x 1.0mm Implant
234210013	ProChondrix CR 13mm x 1.0mm Implant
234210015	ProChondrix CR 15mm x 1.0mm Implant
234210017	ProChondrix CR 17mm x 1.0mm Implant
234210020	ProChondrix CR 20mm x 1.0mm Implant
58160-11	ProChondrix Disposable Instrumentation - 11mm
58160-13	ProChondrix Disposable Instrumentation - 13mm
58160-15	ProChondrix Disposable Instrumentation - 15mm
58160-17	ProChondrix Disposable Instrumentation - 17mm
58160-20	ProChondrix Disposable Instrumentation - 20mm
58161-01	ProChondrix Disposable Instrumentation Sizers - 7 piece (7mm–20mm)
58161-02	ProChondrix Disposable Instrumentation Sizers - 3 piece (15mm–20mm)

## References

1. AlloSource Ref: 03618
2. AlloSource Ref: 17-115
3. DHFD13688 Rev A 2018
4. Cook JL, Stannard JP, Stoker AM, Bozynski CC, Kuroki K, Cook CR, Pfeiffer FM. Importance of Donor Chondrocyte Viability for Osteochondral Allografts. *Am J Sports Med.* 2016 May;44(5):1260-8.
5. Geraghty S, Kuang J, Yoo D, LeRoux-Williams M, Vangsness CT Jr, Danilkovitch A. A novel, cryopreserved, viable osteochondral allograft designed to augment marrow stimulation for articular cartilage repair. *Journal of Orthopaedic Surgery and Research.* 2015;20:66.
6. Stryker 1000902661 Rev. A 2017

## Sports Medicine

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