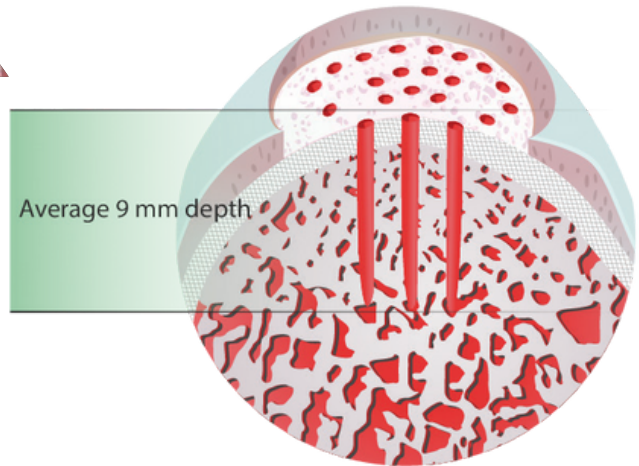




# SMALLER DEEPER BETTER

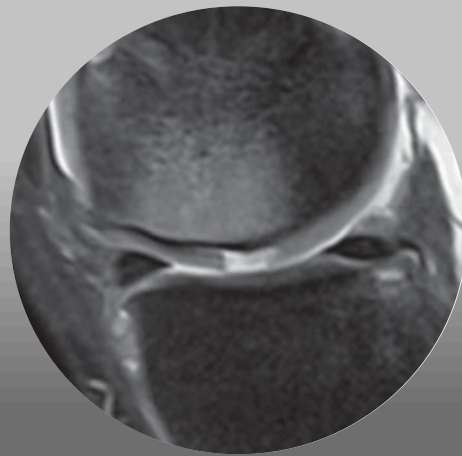


\* "The overriding finding of the present study is that small subchondral drill holes reflecting the physiological subchondral trabecular distance significantly improve osteochondral repair."

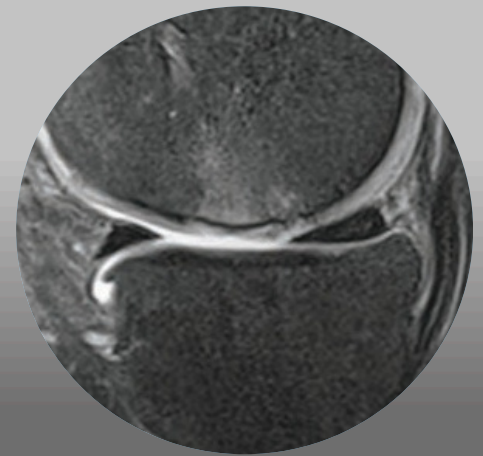
*Eldracher M, et. al. Small subchondral drill holes improve marrow stimulation of articular cartilage defects. AJSM 2014 Nov;42(11):2741-50.*



Intra- Op  
1.5 x 1.5 cm  
Full Thickness Defect



Pre-Op MRI



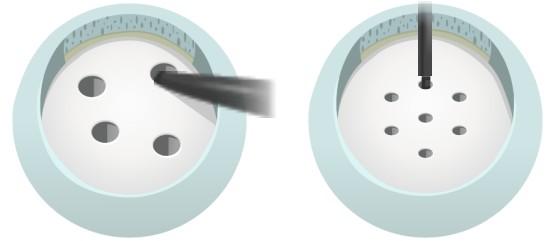
6 Month  
Post-Op MRI  
after NanoFx



# SMALLER

\*“Significant enhancements were observed at the level of individual parameters and of overall histological articular cartilage repair, together with improved immunoreactivity to type II and type I collagen of the cartilaginous repair tissue. Second, the microarchitecture of both the subchondral bone plate and the subarticular spongiosa was better reconstituted.”

*Eldracher M, Orth P, Cucchiarini M, Pape D, Madry H. Small subchondral drill holes improve marrow stimulation of articular cartilage defects. Am J Sports Med. 2014 Nov;42(11):2741-50.*



3mm Channels  
Microfracture

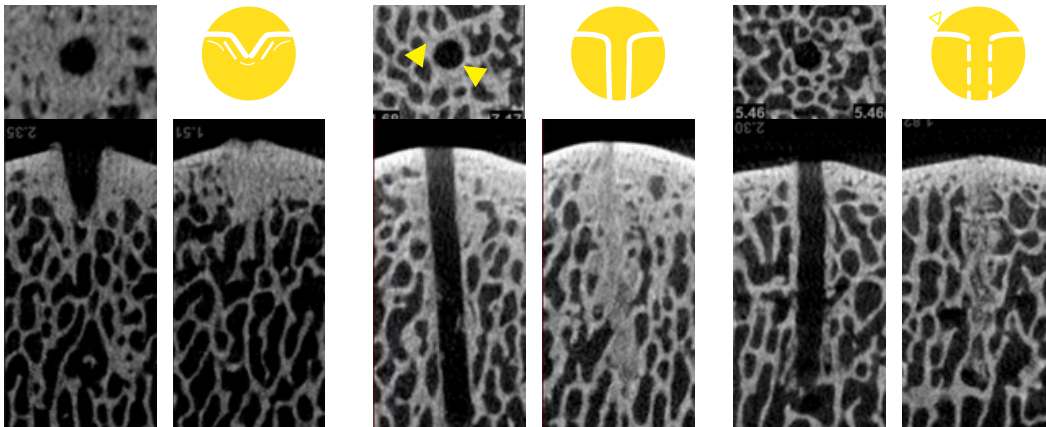
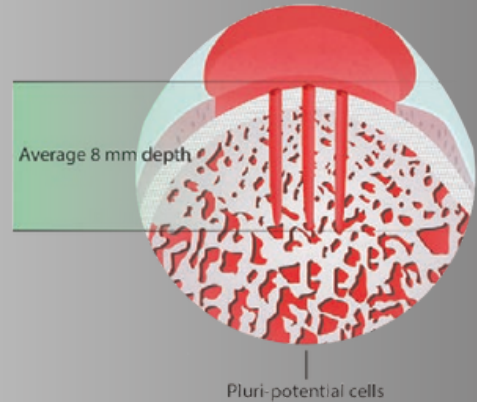
1mm Channels  
NanoFx

# DEEPER

The standardised 9mm perforation depth provides improved access to the targeted marrow cells.

\*“Deeper versus shallower elicited greater fill of the cartilage defect with a more hyaline character in the repair matrix.”

*Chen H, Hoemann CD, Sun J, Chevrier A, McKee MD, Shive MS, Hurtig M, Buschmann MD. Depth of subchondral perforation influences the outcome of bone marrow stimulation cartilage repair. J Orthop Res. 2011 Aug;29(8):1178-84.*



Microfracture

1mm K-Wire

Nanofracture

# BETTER

\* **Figures:** △ open trabecular channels; ▲ closed trabecular channels, microCT comparison: Axial (top), Sagittal (bottom).

Speak to your local Business Development Manager, for further information using the details below:

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