



Arthrosurface NanoFx Guide Wire

Description

The Arthrosurface NanoFx instruments consist of a reusable hand instrument and a single use disposable guide wire for performing a microfracture technique for the treatment of small localized articular cartilage defect sites. The optional single use sterile NanoFx Thumb Tab Accessory may be used to expedite removal and repositioning of the Guide Wire.

Patient Population

The patient population most likely to benefit from the Arthrosurface NanoFx Microfracture Instrument is the same as that targeted for any microfracture technique.

Factors	Better Results With
Age	<40 years
Duration of Symptoms	<12 months
Lesion Size	Up to 2x2cm
Lesion Depth	<5mm
Body mass index	<30 kg/m ²
Preoperative activity level Tegner score	>4 (better with higher preop activity levels)
Previous surgery	Primary microfracture
Repair cartilage volume	Good defect fill (>66%)
Mechanical Alignment	Normal
Joint anatomy	Normal
Joint stability	Ligamentously stable with adequate muscle strength
Meniscus	Normal without loss of meniscal tissue

Instructions for Use

Treatment using the Arthrosurface NanoFx instruments will typically be accomplished as part of an arthroscopic or minimal access surgical procedure. No specific or unique surgical incisions are required. The Arthrosurface NanoFx Guide Wire is placed tip first into the proximal lumen of the Arthrosurface NanoFx Hand Instrument. The distal tip of the instrument is then positioned at the target site. A light mallet strike on the exposed proximal tailstock of the guide wire is sufficient to drive the wire to its full depth. The NanoFx Hand Instrument is then removed and repositioned to create additional penetration sites. The optional single use sterile NanoFx Thumb Tab Accessory may be used to expedite removal and repositioning of the Guide Wire.

Warnings and Precautions

The Arthrosurface NanoFx Hand Instruments and Guide Wires are designed to be used exclusively with Arthrosurface NanoFx branded devices. Use of Arthrosurface NanoFx Hand Instruments or Guide Wires with devices from different manufacturers may create patient safety issues.

The Arthrosurface NanoFx Guide Wire is made from implant grade NITINOL per ASTM F 2063-05.

The surgeon shall be thoroughly familiar with the instruments and microfracture surgical technique prior to performing the procedure.

Guide wires are to be driven with mallet strike only. **Do not drive with drill or powered handpiece.**

Maintain tip of NanoFx Hand Instrument firmly in place when striking NanoFx Guide Wire to avoid bending of Guide Wire Tip. If Guide Wire is bent it should be replaced before proceeding.

Dispose of the Arthrosurface NanoFx Guide Wire in an appropriate sharps container.

Possible Adverse Effects

Complications reported with microfracture surgery include general surgical complications (infection, blood clot, incisional irritation). Complications specific to the microfracture technique are poor tissue differentiation or repair, and osteophyte formation.