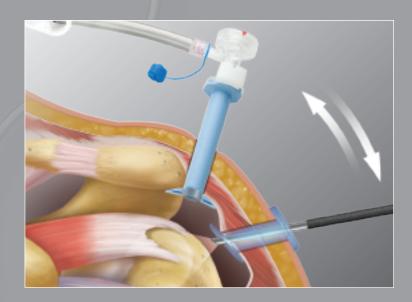


Sheathless Arthroscopy

Surgical Technique



heathless Arthrosco

Sheathless Arthroscopy in the Shoulder

Gemini SR8 Cannula HD Sheathless Arthroscope Synergy^{HD3} Camera Head

The Sheathless Arthroscopy Technique improves accessibility and visibility while increasing fluid management and conservation.

The technique will also ease the transition during viewing portal changes without "red-out."

Benefits

Improved Scope Design

The Sheathless Arthroscope has a reinforced stainless steel shaft for additional strength, eliminating the needed of a bulky outer inflow sheath. The smooth, round tip prevents inadvertent damage to the hyaline cartilage surface. The recessed, scratch-resistant sapphire lens tip reduces the risk of damage from ablation and resection instruments.

Improved access:

The standard arthroscope has a 4 mm diameter and the standard high flow arthroscope sheath has a 6 mm diameter. By removing the sheath, the surgeon decreases the scope diameter by an additional 2 mm.

Improved fluid management:

By using working cannulas, the joint space is better enclosed, resulting in less portal leakage.

Improved joint distention:

By limiting portal leakage and by having a larger diameter through which to inflow fluid, joint space distention is maximized, resulting in easier maintenance of hemostasis and joint distention without fluid turbulence. Attaching the inflow directly to the arthroscopic cannula allows for an uninterrupted inflow and constant joint distention.

Changing viewing portals:

Once arthroscopic cannulas are in place, viewing portal transition can be easily accomplished by moving the arthroscope from one cannula to the next without the use of a Switching Stick or bridge cannula system.

Note: This technique is designed for use with an Arthrex ONLY Sheathless Arthroscope. Care should still be taken to protect the arthroscope from bending or breakage during the procedure.

James Bradley, MD, *Pittsburgh, PA*

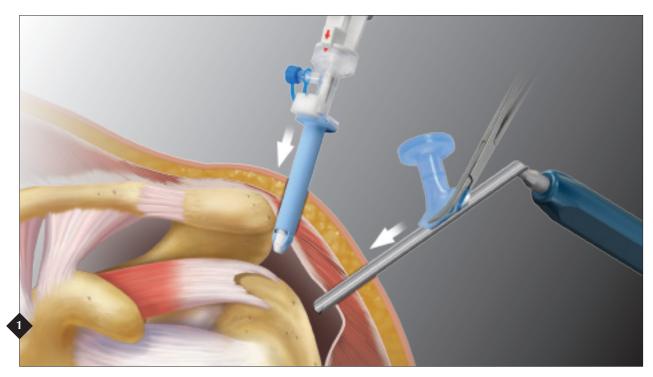
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"I use the sheathless arthroscopy technique in the shoulder to view pathology from multiple angles.

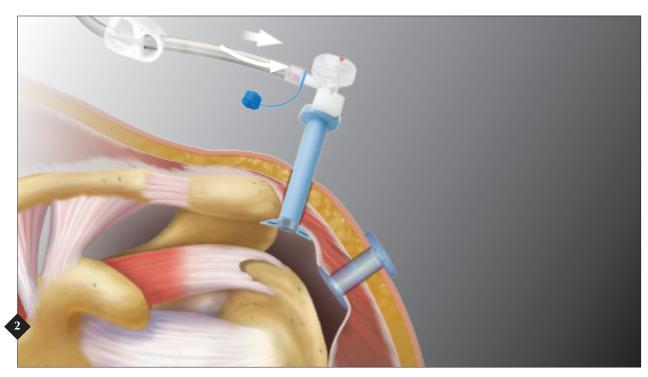
I place an 8.25 mm Gemini SR Cannula anterior and a 6 mm PassPort Button Cannula posterior. This allows me to quickly and accurately assess the best approach.

The durability of the Synergy arthroscopes also allows me to use this technique to improve access into tight joint spaces including elbows and ankles.

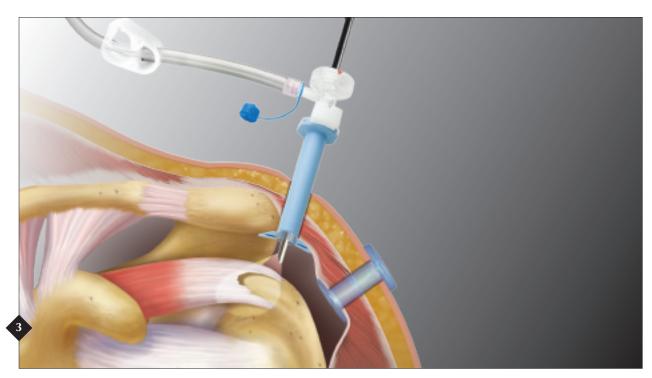




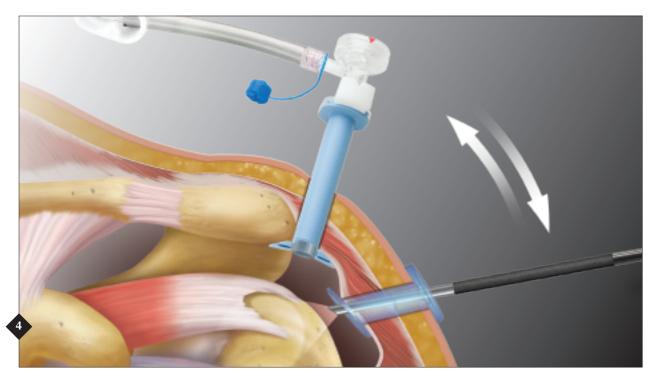
Insert arthroscopic cannulas into the viewing portals of choice. In this representation, an Arthrex PassPort Button Cannula has been placed laterally and a Gemini SR8 has been placed superior-laterally.



Attach the DualWave Arthroscopy Pump inflow tubing to the Gemini SR8 arthroscopic cannulas. Generally the larger cannula is preferred, to allow maximum unimpeded inflow. Attach backflow cap to optimize fluid pressure control.



Insert the sheathless Synergy 4 mm diameter arthroscope through either arthroscopic cannula.



The arthroscope can be moved between viewing portals without the need for a bridge cannula or Switching Stick. "Red-out" is avoided during arthroscope portal exchanges because distention is maintained throughout this process.

Ordering Information

Synergy Sheathless Arthroscopes	
HD Sheathless Arthroscope, 30°, 4 mm x 156 mm HD Sheathless Arthroscope, 70°, 4 mm x 158 mm HD Sheathless Arthroscope, 30°, 3 mm x 134 mm HD Sheathless Arthroscope, 70°, 3 mm x 138 mm	AR-3350-5030 AR-3350-5070 AR-3350-3530 AR-3350-3570
Synergy ^{HD3} all in one HDVision, LED Light Source, Image Management	
Synergy ^{HD3} , with turret, 110v Console with tablet Synergy ^{HD3} , 220v Console Synergy ^{HD3} Tablet Synergy ^{HD3} Camera Head (autoclavable)	AR-3200-0001T AR-3200-1002T AR-3200-1004 AR-3210-0001
DualWave Arthroscopy Pump and Accessory Tubing	
DualWave Arthroscopy Pump Main Pump Tubing ReDeuce™ Tubing, Pump ReDeuce Tubing, Patient 10' Extension Tubing Outflow Tubing	AR-6480 AR-6410 AR-6411 AR-6421 AR-6220 AR-6430
Gemini SR8 Cannula, 8.25 mm I.D.	AR-6572
Switching Stick, 2.6 mm x 305 mm length	AR-6572S
Expanula Cannula, 8.25 mm I.D. x 7.5 cm	AR-6569
Reusable Obturator for AR-6569	AR-6571
PassPort Button Cannula	
PassPort Button Cannula, 6 mm I.D. x 4 cm, qty. 5 PassPort Button Cannula, 6 mm I.D. x 5 cm, qty. 5 PassPort Button Cannula, 8 mm I.D. x 4 cm, qty. 5 PassPort Button Cannula, 8 mm I.D. x 5 cm, qty. 5 PassPort Curved Hemostat PassPort Selection Guide PassPort Cannula, blunt tip Reusable Obturator PassPort Inflow Adapter	AR-6592-06-40 AR-6592-06-50 AR-6592-08-40 AR-6592-08-50 AR-6592 AR-6592 AR-6592 AR-6592 AR-6592 AR-6592F
Partially Threaded Cannula	
Crystal Cannula, partially threaded distal end, 5.75 mm x 7 cm, w/obturator, qty. 5 Partially Threaded Cannula, no squirt cap, 8.25 mm x 7 cm, w/obturator, qty. 5 Partially Threaded Cannula, no squirt cap, 7 mm x 7 cm, w/obturator, qty. 5 Partially Threaded Cannula, no squirt cap, 8.25 mm x 9 cm, w/obturator, qty. 5 Partially Threaded Cannula, no squirt cap, 8.25 mm x 11 cm, w/obturator, qty. 5 Reusable Obturator for AR-6575-9 Reusable Obturator for AR-6575-11	AR-6564 AR-6566 AR-6567 AR-6575-09 AR-6575-11 AR-6541 AR-6576-11
Crystal Cannula	
Crystal Cannula, 5.75 mm I.D. x 7 cm w/obturator, qty. 5 Crystal Cannula smooth, 5.75 mm I.D. x 7 cm w/obturator, qty. 5 1-way Stopcock, w/luer lock Reusable Obturator for AR-6560, AR-6562, and AR-6564	AR-6560 AR-6562 AR-6561 AR-6563
Clear Instrument Cannula	
Instrument Cannula, 5.5 mm x 9 cm, qty. 5 Instrument Cannula, 7 mm x 7 cm, qty. 5 Reusable Obturator for AR-6550	AR-6532 AR-6550 AR-6549
Twist-in Cannula	
Notched Twist-In Cannula, 8.25 mm I.D. x 7 cm, qty. 5 Twist-In Cannula, 8.25 mm I.D. x 7 cm, qty. 5 Reusable Obturator for AR-6530 Twist-In Cannula, 6 mm I.D. x 7 cm, qty. 5 Reusable Obturator for AR-6535 Twist-In Cannula, 8.25 mm I.D. x 9 cm, qty. 5 Reusable Obturator for AR-6540 Twist-In Cannula, 6 mm I.D. x 9 cm, qty. 5 Reusable Obturator for AR-6545 Twist-In Cannula w/ No Squirt Cap, 7 mm I.D. x 7 cm, qty. 5 Reusable Obturator for AR-6570 and AR-6550	AR-6530N AR-6530 AR-6531 AR-6535 AR-6536 AR-6540 AR-6541 AR-6545 AR-6545 AR-6546 AR-6570 AR-6549

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's Directions For Use.



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