

CENTRAL CERVICAL ACCESS RETRACTOR

- Central Exposure
- Gentle Muscle Retraction
- Better Access to the Site

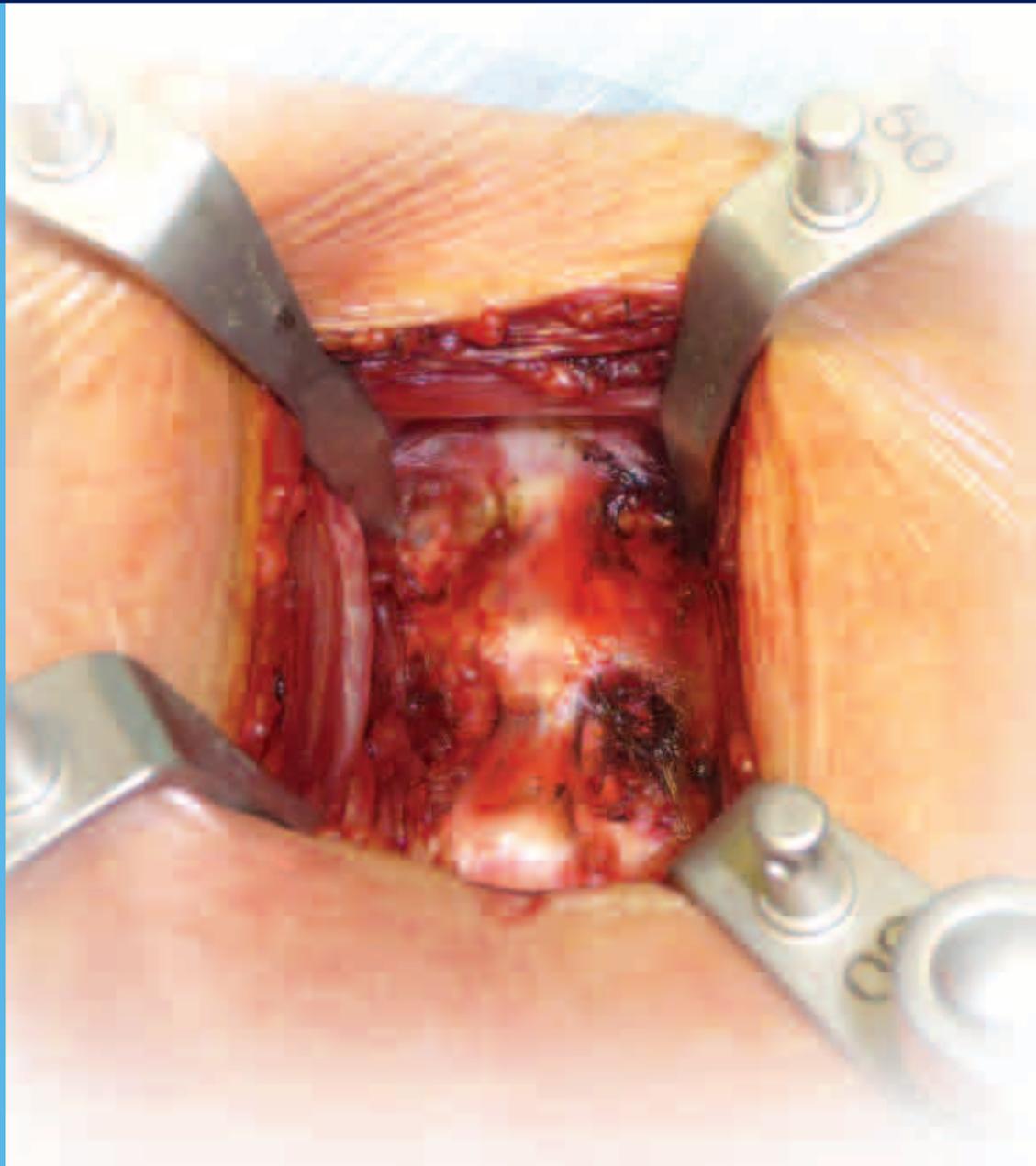


Photo compliments of Rudolph Bertagnoli, M.D.

Uncompromised Exposure

C.C.A. Retractor

Uncompromised Exposure

Thompson Surgical Instruments, Inc. has led the surgical retractor industry for over 25 years since its introduction of the first table mounted retractor system and is dedicated to providing Uncompromised Exposure with highly innovative, state-of-the-art retractor systems in multiple specialties.

Committed to Uncompromised Exposure, the Thompson Surgical Instruments is proud to have collaborated with Dr. Rudolf Bertagnoli in the development of a new and innovative spine system for anterior cervical access. The C.C.A. Retractor, uniquely utilizes bone levers to work with the spine anatomy and provides excellent retraction and visualization while remaining safe and easy to use.



Rudolph Bertagnoli, M.D.

Dr. Bertagnoli is a leader in the global research and development for the treatment of spinal disorders. Heavily involved in the innovation and development of spine products, he holds over twenty years of experience with spinal implant systems ranging from partial to total disc replacement, interspinous devices, and posterior dynamic systems.

As a world renowned spine expert, he contributes regularly to scientific data and lectures to congresses worldwide to promote new treatments for spinal disorders. He has been published in leading medical journals worldwide and has trained over 3,000 surgeons in new minimally invasive technologies.

In addition, Dr. Bertagnoli is the founder, CMO, and CEO of ProSpine, the first European Centre for Spine Arthroplasty and Associated Non-Fusion Technologies, which has five facilities across Germany. He is also a founder and former president of the Spine Arthroplasty Society (SAS), the president of Spine Evolution Nucleus Europe (SEN), a member of the North American Spine Society (NASS), a faculty member of IMAST, and a past German representative of ISMISS and the European Spine Society.

C.C.A. Retractor

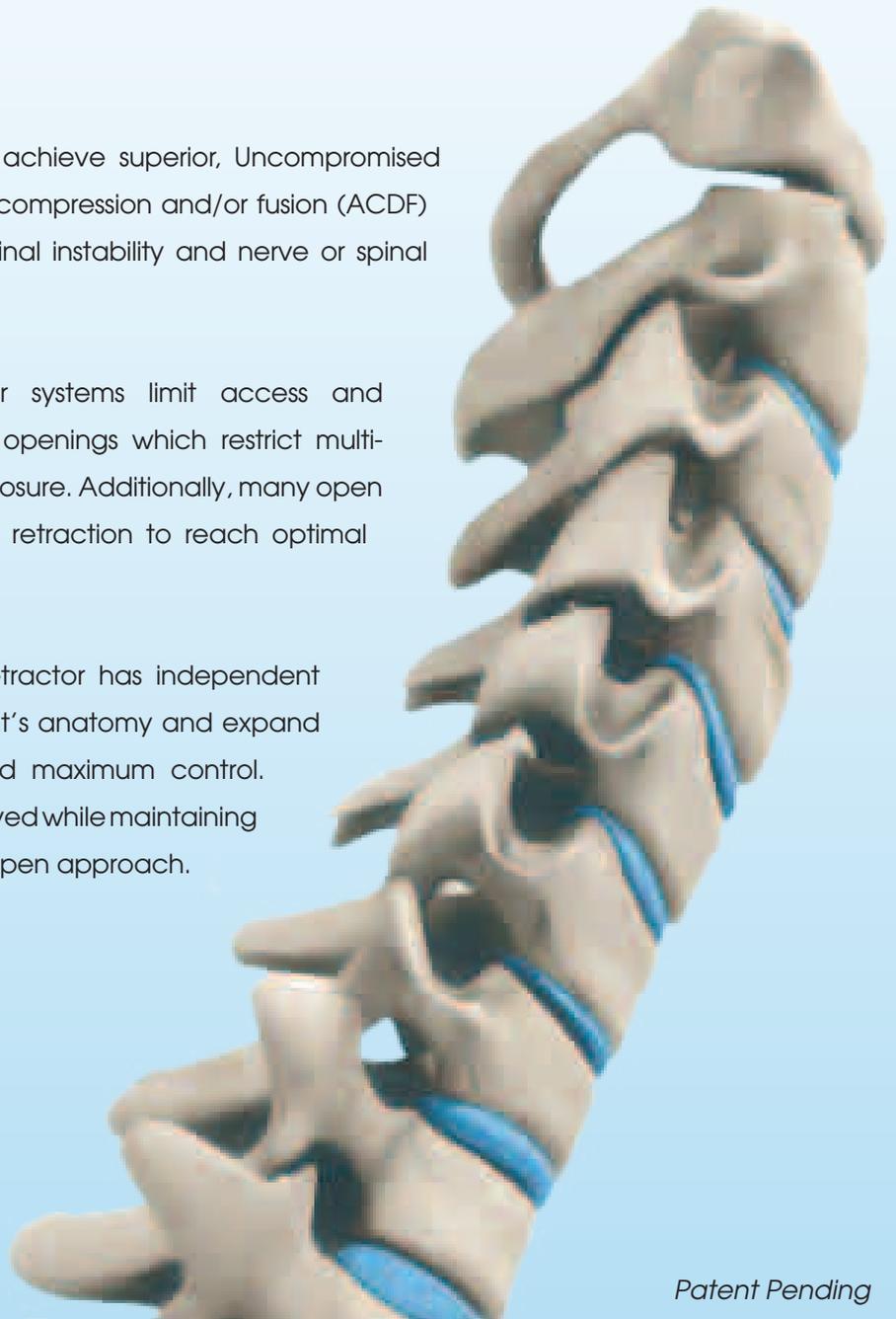
Introducing, the C.C.A. Retractor

*The Uncompromised Exposure provided by the C.C.A. Retractor allows for unsurpassed visualization and delivers faster, more precise operations with quicker recovery times —
Ultimately, maximizing the patient's benefits.*

The C.C.A. Retractor was designed to achieve superior, Uncompromised Exposure of the cervical spine during decompression and/or fusion (ACDF) and arthroplasty procedures to treat spinal instability and nerve or spinal cord impingements.

Traditional minimally invasive retractor systems limit access and visualization through rigid, tube-shaped openings which restrict multi-level access and compromise overall exposure. Additionally, many open retractor systems may require extensive retraction to reach optimal anterior cervical exposure.

Unlike any other system, the C.C.A. Retractor has independent retractor blades that engage the patient's anatomy and expand visualization with minimal retraction and maximum control. Single or multilevel exposure is easily achieved while maintaining the benefits of a minimally invasive and open approach.



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C.C.A. Retractor

Retractor Benefits

Superior, Uncompromised Exposure

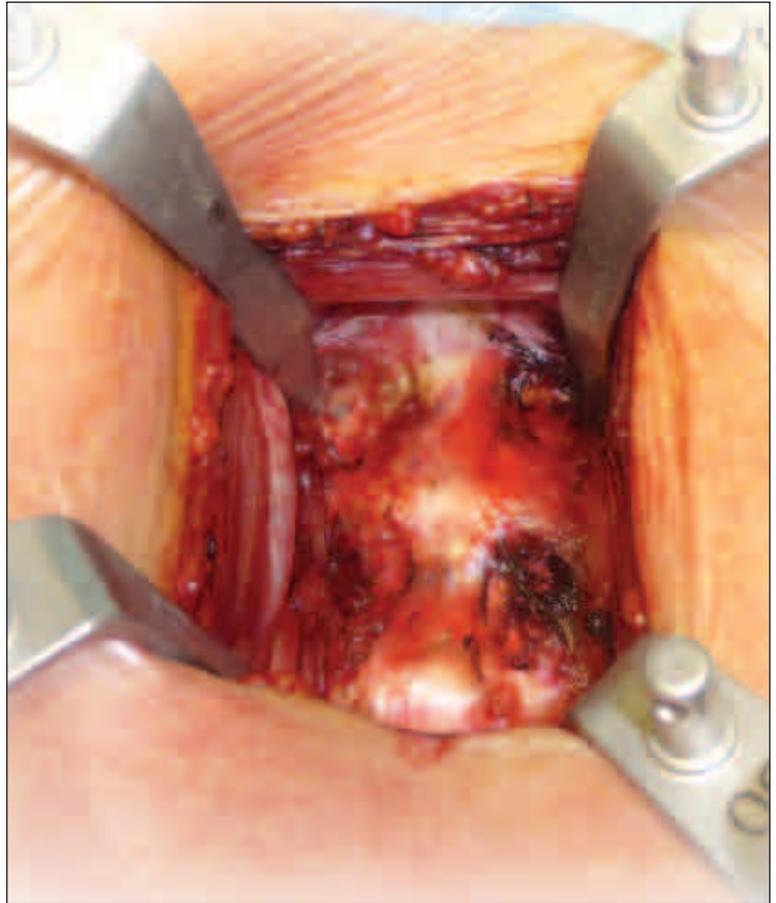
- Increases surgical accuracy
- Reduces operation time
- Independent, exact blade placement

Safe and Low Profile

- Independent blade retraction prevents patient injury
- Low profile handles increase working space
- Blades and handles float with the movement of spine during operation

Versatile and Cost Effective

- Better exposure equals shorter operating time and faster patient recovery
- Applicable to operations requiring single or multilevel exposure
- Independently adjustable arms accommodate all patient sizes



Patient Benefits

Reduced Operation Time

Reduced Risk of Esophageal & Nerve Injury

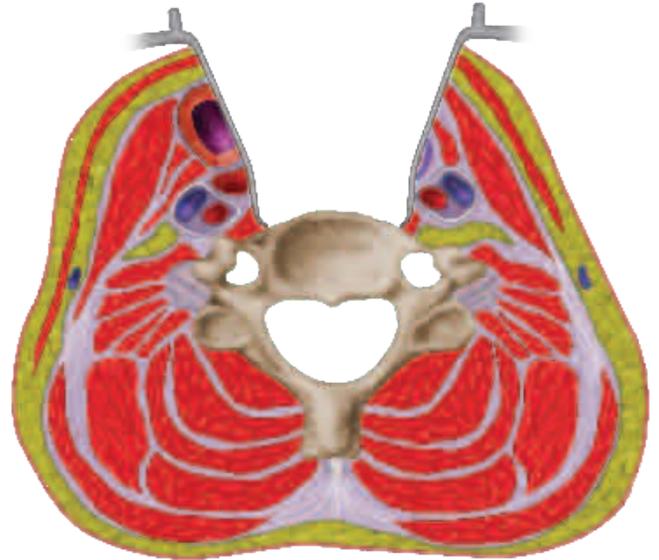
Faster Recovery

C.C.A. Retractor

Surgical Technique

Achieve Excellent Exposure

The C.C.A. Retractor is designed to expose the anterior surface of the cervical spine. After dissection, the carotid artery is gently retracted laterally with the carotid sheath. Medially, the trachea and esophagus may be gently retracted away and the anterior surface of the spine can be palpated.

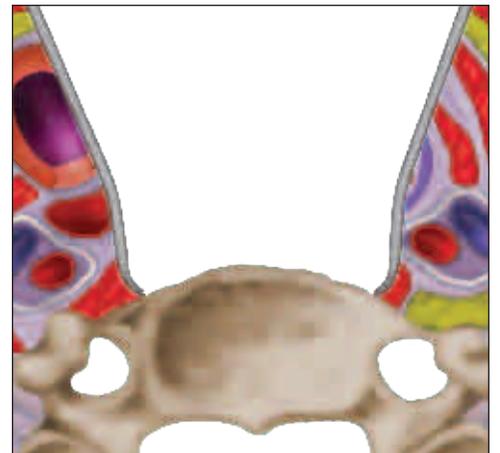


Obtain Precise, Stable Retraction

The C.C.A. Blades should be properly placed above the bodies of the longus coli muscles and away from the tracheoesophageal groove.

Since the C.C.A. blades are independently adjustable, special attention to retraction of the delicate anatomy is easy to accomplish. Each blade may be placed precisely where retraction is needed using a quick and easy manipulator handle.

Pointed blade tips then engage the spine for stable retraction that will not rise up. The blades may be locked to independent handles and retracted back in any direction and secured to eliminate swivel.



Maintain Low Profile, Uncompromised Exposure

As the blades retract, the hinged handles allow the blade to angle and float with the movement of the spine during the operation. Blades require little to no repositioning to maintain phenomenal exposure throughout the procedure.



C.C.A. Retractor

Instrumentation

C.C.A. Blades and Handles

Simple and low profile, the C.C.A. blades were designed to engage the vertebra using a tapered, bone lever shaped distal end. Strong and narrow, the blades are easily manipulated and driven into the vertebra for exact placement. The blades are incorporated with patent pending S-Lock™ technology which allows them to lock to retractor handles and secure in any orientation for consistent retraction. Hinged handles retract the blades back while angling them for uncompromised, low profile exposure.

Low Profile, Hinged Handles

Smaller size reduces instrumentation bulk and hinge allows blade to move with the patient and angle for maximum visualization.

S-Lock™ Technology

Swivel aligns on tissue and locks when swivel is not desired enabling precise blade placement.

Bone Levers

Defined distal end engages anatomy and prevents blades from sliding anteriorly.

Low Profile Joints

Secure clip-clip joint attaches anywhere to frame and easily locks to retractor handles exact placement.

C.C.A. Retractor

Instrumentation

C.C.A. Frame

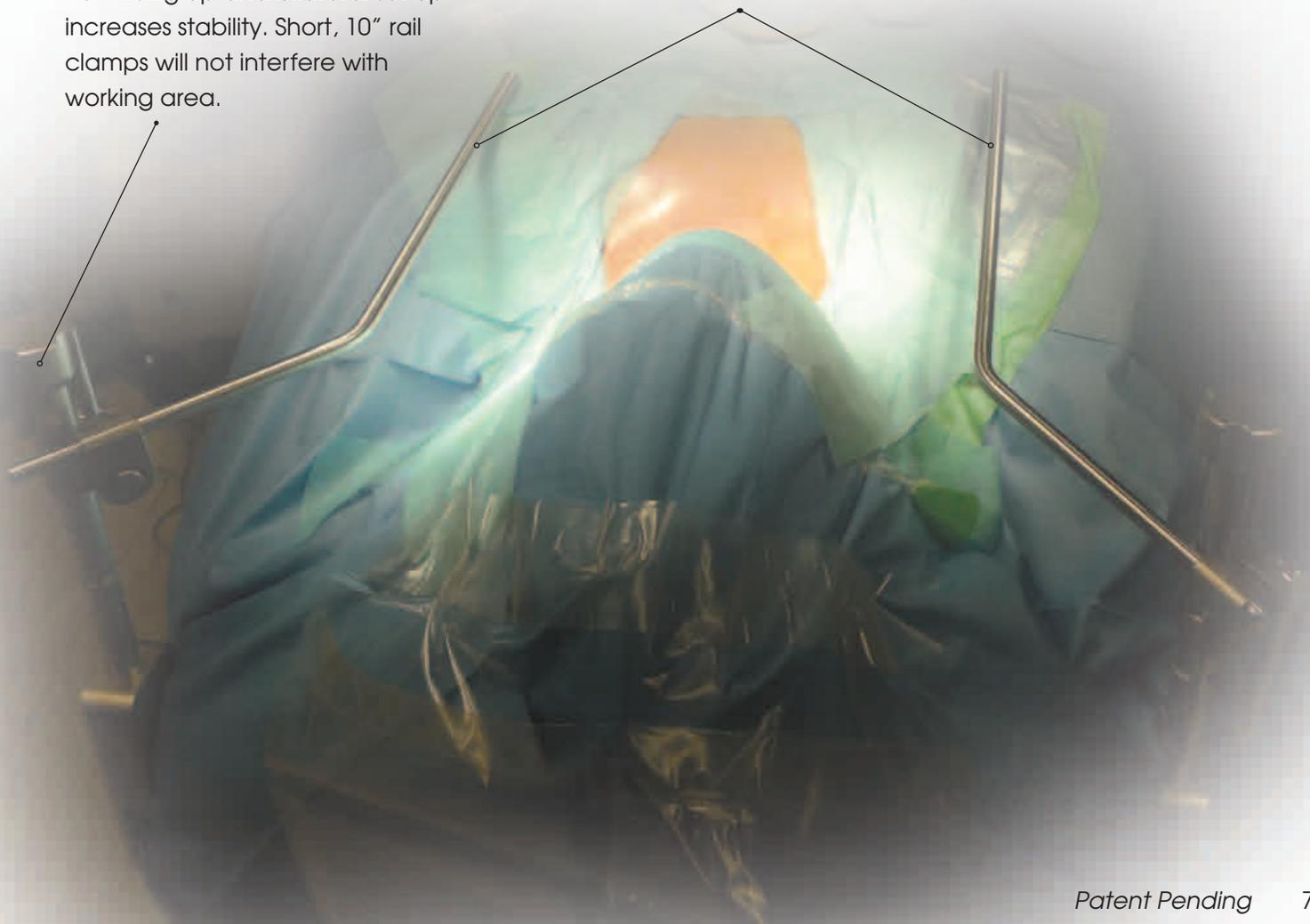
Low profile and stable, the C.C.A. Retractor frame provides safe, independent retraction handles and blades. The dual rail clamps may be positioned at the patients head to avoid interference with the C-Arm and the versatile lateral arms may be adjusted to accommodate all patient sizes.

Low Profile Elites

Table mount prevents blades from rising up and bilateral set up increases stability. Short, 10" rail clamps will not interfere with working area.

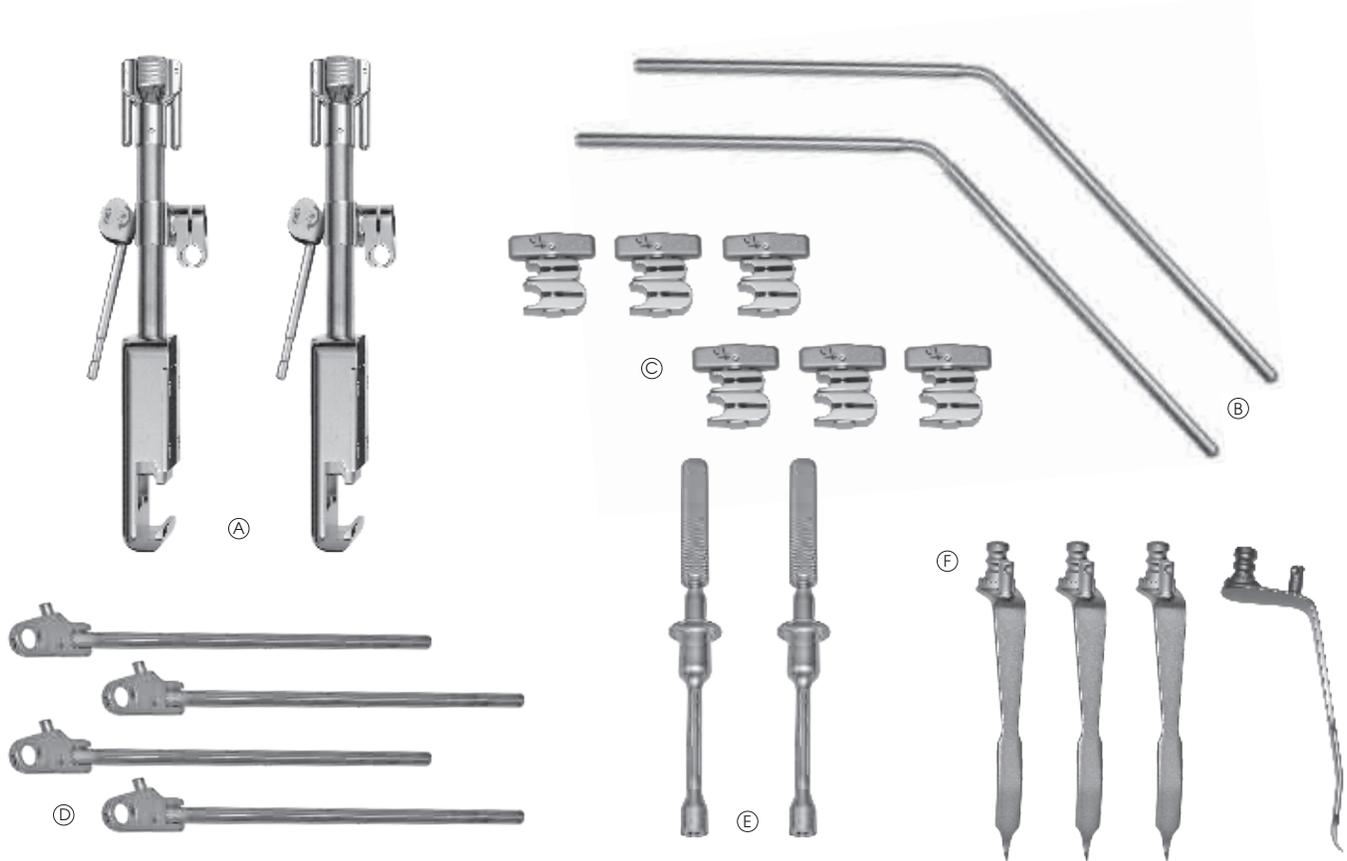
Independent Frame Arms

Allow for safe, versatile retraction on all patient sizes and enables independent retraction of the carotid sheath and esophagus.



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Uncompromised Exposure



80056 Central Cervical Access Retractor

- (A) 2 41902S Elite II Rail Clamp w/1 3/8" Cam Joint 10"
- (B) 2 44117 17" Angled Arm 7" x 10" @ 45° 3/8"
- (C) 6 42123 Clip-Clip Joint 3/8" x 1/4"
- (D) 4 SL45003LH S-Lock™ Hinged Handle 8"
- (E) 2 42128AC Manipulator Handle
- (F) 4 SL46982AC Bone Lever 14mm x 40mm
- 4 SL46983AC Bone Lever 14mm x 50mm
- 4 SL46984AC Bone Lever 14mm x 60mm
- 4 SL46985AC Bone Lever 14mm x 70mm
- 4 SL46986AC Bone Lever 14mm x 80mm
- 1 46522 C.C.A. Depth Gauge
- 1 50000G Instrument Case

80057 Central Cervical Access Retractor Expansion Kit

- (C) 4 42123 Clip-Clip Joint 3/8" x 1/4"
- (D) 4 SL45003LH S-Lock™ Hinged Handle 8"
- (F) 4 SL46982AC Bone Lever 14mm x 40mm
- 4 SL46983AC Bone Lever 14mm x 50mm
- 4 SL46984AC Bone Lever 14mm x 60mm
- 4 SL46985AC Bone Lever 14mm x 70mm
- 4 SL46986AC Bone Lever 14mm x 80mm
- 1 50000G Instrument Case

To use the C.C.A. Frame with our standard anterior cervical blades, or to use the C.C.A.'s Bone Levers with the Spine Frame, please contact your account manager.



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