

Advantage[™]

Transvaginal Mid-Urethral Sling System

Boston
Scientific

Mid-urethral
sling system for the
treatment of stress
urinary incontinence



Advantage™

Transvaginal Mid-Urethral Sling System

The Advantage Mid-Urethral Sling System is intended to be used to place a mid-urethral sling for the treatment of stress urinary incontinence. The Advantage System is an innovative mid-urethral sling that offers several advancements in delivery and tensioning, all of which are designed to meet the demands of the physician.

Delivery Device

- Non-skid grip prevents hands from slipping during intra-operative manipulation
- Ergonomic handle fits easily into operator's palm allowing for ambidextrous use
- Hard surface of the back rim transmits a tactile sensation from the distal tip to the operator's hand indicating contact with a solid surface like bone



Dilator Tube Starter

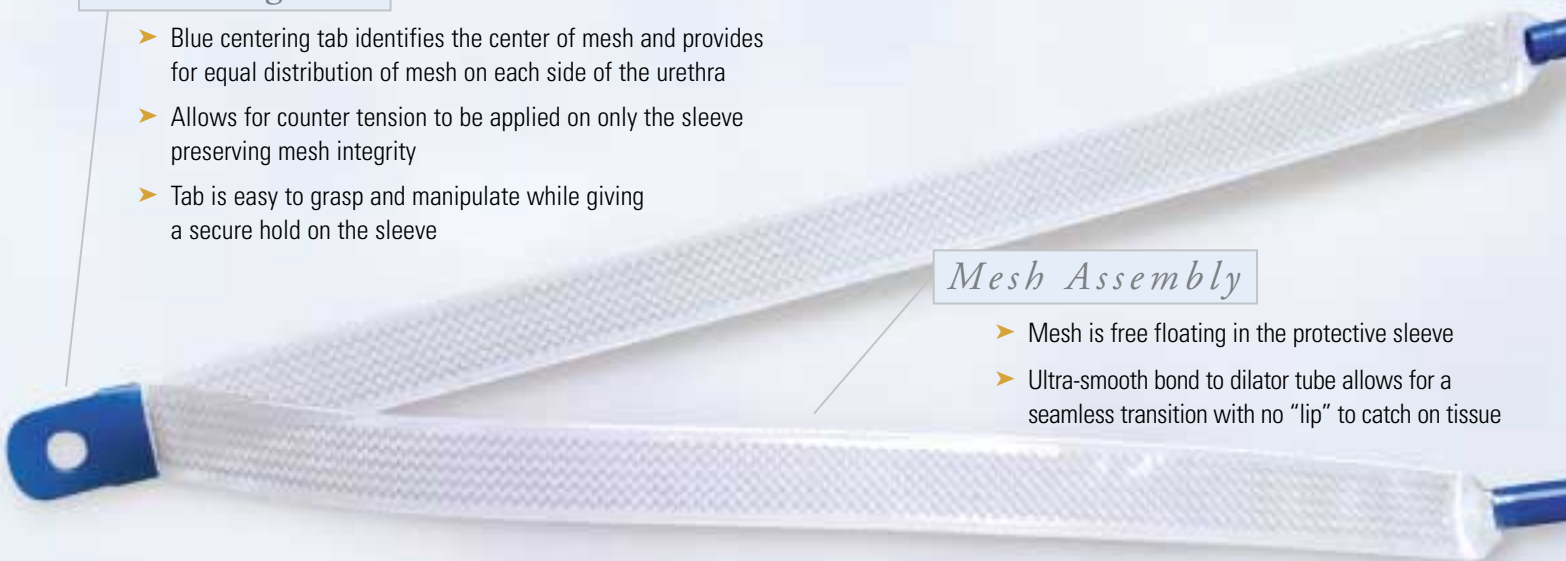
- Extends the dilator tube 2.3cm beyond the distal tip of the needle which gives the operator sufficient room to clamp the tube
- Starter is specifically intended to allow the operator one hand operation of the Advantage delivery device

Centering Tab

- Blue centering tab identifies the center of mesh and provides for equal distribution of mesh on each side of the urethra
- Allows for counter tension to be applied on only the sleeve preserving mesh integrity
- Tab is easy to grasp and manipulate while giving a secure hold on the sleeve

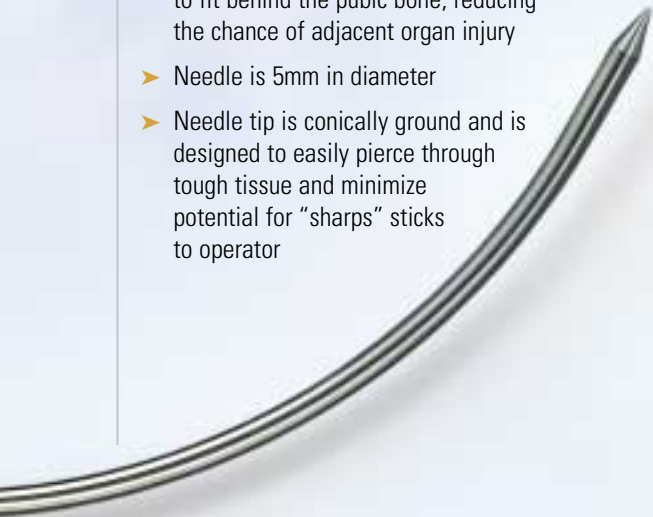
Mesh Assembly

- Mesh is free floating in the protective sleeve
- Ultra-smooth bond to dilator tube allows for a seamless transition with no "lip" to catch on tissue



Curved Needle Tip

- Needle curve is fitted anatomically to fit behind the pubic bone, reducing the chance of adjacent organ injury
- Needle is 5mm in diameter
- Needle tip is conically ground and is designed to easily pierce through tough tissue and minimize potential for “sharps” sticks to operator



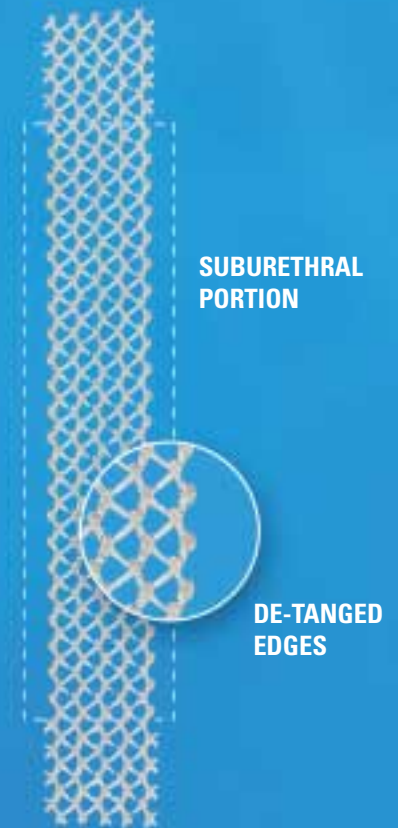
Dilator Tube

- Smooth tapered tip slides through tissue causing minimal disruption of tissue
- Easy slip on – slip off design allows for perioperative manipulation
- Blue color shows up well in distorted field of vision
- Two tube system requires only one cystoscopy
- Tube configuration gives operator ability to untwist mesh in vivo should it twist during delivery



De-tanged Polypropylene Material

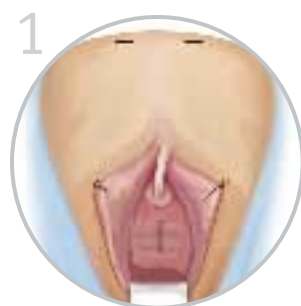
In mechanical testing, the Advantage mesh has been shown to be the most consistent commercially available tension-free sling material. Polypropylene material has been shown to be biocompatible.



- **DESIGNED TO REDUCE IRRITATION**
The polypropylene mesh is de-tanged in the suburethral portion to potentially reduce irritation to the anterior urethral wall.
- **RESISTS DEFORMATION**
The suburethral portion of the mesh is de-tanged to resist deformation.

Advantage™ Transvaginal Mid-Urethral Sling System

Six Steps of the Advantage Sling Procedure



1 After preparation of the lower abdominal and vaginal operative sites, create two small transverse abdominal incisions approximately 0.5cm to 1cm on each side of the midline just above the symphysis.

Incise the anterior vaginal wall and dissect bilaterally in standard fashion.



2 Resting the tip of the needle on the palmar surface of the non-dominant index finger, gently introduce the Delivery Device anterolaterally into the paraurethral space and perforate the endopelvic fascia. Carefully pass the Delivery Device through the space of Retzius and perforate the rectus sheath and muscle. Guide the device by palpation into the ipsilateral abdominal incision until the needle tip is exposed through the incision.



3 When the needle tip/dilator tube assembly extends extra-abdominally, advance the tube starter on the handle forward which will cause the dilator tube to advance beyond the tip of the needle. Grasp the dilator by placing a clamp or hemostat on the free end of the dilator end to temporarily secure it extra-abdominally. Remove the needle from inside the dilator by pulling it out of the dilator and out of the vagina. The dilator tube/mesh assembly should remain in place. Repeat on the contra lateral side. At this point, the two dilator tubes will be in place and cystoscopy should be performed to confirm bladder integrity.



4 Tension the mesh by pulling upwards on both dilators simultaneously so that urine leakage is limited to no more than one or two drops. When the appropriate tension is attained, grasp the blue centering tab and cut the tab through the center of the punch hole. Make sure to remove both halves of the blue tab.



5 Remove the protective sleeve by pulling upwards on both dilators simultaneously and verify the tension of the mesh and adjust mesh tension, if necessary.



6 Once the desired tension has been achieved, gently push downward on the abdomen, cut the distal ends of the mesh and allow those ends to retract into the incision. Close the incisions in the usual manner.

ADVANTAGE TRANSVAGINAL MID-URETHRAL SLING SYSTEM

Ordering Information

M0068502000	Advantage Sling System (1 Delivery Device and 1 Mesh Assembly)
M0068502020	1 Advantage Sling System + 1 VagiTrac™ Vaginal Retractor + 1 Single Step™ Pelvic Drape
M0068502030	1 Advantage Sling System + 1 Single Step™ Pelvic Drape
M0068502040	1 Advantage Sling System + 1 VagiTrac™ Vaginal Retractor

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