Advanced Patient Positioning
Featuring New Products for MIS & Robotic Surgery

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www.da-surgical.com
800.261.9953
• **Patients CANNOT Slide.**
  The patented “Speed Bump” bolster is snug in the concavity of the neck, in contact with the trapezius muscles and is clinically proven\(^1\) to stop patient sliding.

• **No Shoulder Braces.**
  The non-structural lateral stabilizing pillows help to control body mass shift as the patient transitions from supine into steep Trendelenburg.

• **Versatile.**
  Secures nearly every size patient from pediatric patients under 9 lbs. to 550 lbs. adults in steep Trendelenburg up to 40\(^\circ\).

• **Easy to Use.**
  You can set up the equipment and patient in about *three minutes*. Re-position patients easily.

• **Compatible.**
  Accommodates under-patient accessories; including air transfer devices, patient-warming and grounding pads.

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**GO GREEN with TrenGuard™ HYBRID**

Our HYBRID System
- Improves Efficiencies
- Delivers Less Waste
- Reduces Costs

HYBRID versions of TrenGuard™ Trendelenburg Restraint utilize reusable lateral stabilizing pillows in order to lower procedural costs. The HYBRID Procedure Packs reduce required storage space. They improve operative efficiency and substantially reduce medical waste.

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Stop Patient Sliding.

\(^1\)Barber, Jan, BSN, RN, “Preventing Patient Sliding in Steep Trendelenburg,” OR Manager Conference, Sept, 2016.
“With TrenGuard, patients don’t slide.”
Dr. “Mini” Somasundaram, MD, GYN Robotics Surgeon, Columbus, Ohio

Patient safety for MIS & Robotic Surgery

It is a safety imperative that patients do not slide during robotic surgery. As described by Dr. Ghomi², patient slippage during the use of fixed robotic trocars creates a serious potential for patient risk as it can cause incisional tear, postoperative hernia formation, and increased postoperative pain secondary to over-stretching of the anterior abdominal wall.

**TrenGuard™ Patient Support Frame**
- Compatible with all TrenGuard products
- Secures to table with standard blade clamps (sold separately)
- Supports patients up to 550 lb in extreme Trendelenburg up to 40°

**TrenGuard™ 450 & 600 Trendelenburg Patient Restraints**
- Accommodates patients up to 450 lb & 550 lb, respectively, in extreme Trendelenburg up to 40°
- Speed Bump keeps patients from sliding
- No shoulder braces
- Lateral stabilizing pillows control body mass shift

**TrenGuard™ Pediatric Trendelenburg Patient Restraint**
- Developed for pediatric patients from newborn infants to children up to 90 lb
- Available in Infant, Small, and Medium sizes

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**TRENGUARD™ PATIENT SUPPORT FRAME**
Compatible with TrenGuard Procedure Packs and accessories including pediatric products
Use with: Set of Slotted Rail Clamps, part #21001, sold separately

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>56100</td>
<td>TrenGuard™ Patient Support Frame</td>
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**TRENGUARD™ SINGLE-USE PROCEDURE PACKS (Case of 12 each)**
Use with: Patient Support Frame

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>55101</td>
<td>TrenGuard™ 450 (maximum patient weight of 450 lb)</td>
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<tr>
<td>56101</td>
<td>TrenGuard™ 600 (maximum patient weight of 550 lb)</td>
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**TRENGUARD™ PEDIATRIC PROCEDURE PACKS**
Use with: Patient Support Frame

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<th>Description</th>
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<tbody>
<tr>
<td>57121</td>
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<td>case of 12</td>
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<tr>
<td>57111</td>
<td>TrenGuard™ Pediatric Kit - Medium (For patients between 30 &amp; 90 lb)</td>
<td>case of 6</td>
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<tr>
<td>57122</td>
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<td>case of 6</td>
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<tr>
<td>57123</td>
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<td>57113</td>
<td>TrenGuard™ Pediatric Kit - Infant (For patients up to 15 lb)</td>
<td>case of 6</td>
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TrenGuard™ 450 HYBRID
Trendelenburg Patient Restraint
- Lower cost per procedure
- Less medical waste, less storage space required
- Use with: Multi-Use HYBRID Lateral Stabilizing Pillows

TrenGuard™ HYBRID Lateral Stabilizing Pillows
- Non-structural lateral stabilizing pillows are washable & reusable
- Each set can be used up to 150 times before replacement is recommended
- Use with: TrenGuard HYBRID procedure packs

TrenGuard™ 450 & 600 HYBRID Integrated Wedges
- Developed for patients that do not present with a discernible cervical notch
- Increases the Speed Bump’s ability to prevent patient sliding for patients with BMI over 40
- Use with: Multi-Use HYBRID Lateral Stabilizing Pillows

TRENGUARD™ HYBRID PROCEDURE PACKS (Case of 12 each)
Each Single-Use Procedure Pack Contains: "Speed Bump" Bolster and Head Stabilizer Pillow
Use with Reusable HYBRID Lateral Stabilizing Pillows & Patient Support Frame
55201 TrenGuard™ 450 Hybrid
56201 TrenGuard™ 600 Hybrid

TRENGUARD™ HYBRID LATERAL STABILIZING PILLOWS (Set of 2 each)
Each set consists of 2 reusable Lateral Stabilizing Pillows
Use with Single-Use TrenGuard™ Hybrid Procedure Packs & Patient Support Frame
55250 TrenGuard™ 450 Hybrid Lateral Stabilizing Pillows
56250 TrenGuard™ 600 Hybrid Lateral Stabilizing Pillows

TRENGUARD™ HYBRID INTEGRATED WEDGE PROCEDURE PACKS (Case of 12 each)
Each Procedure Pack Contains: Integrated Wedge "Speed Bump" Bolster and Head Stabilizer Pillow
Use with Reusable HYBRID Lateral Stabilizing Pillows & Patient Support Frame
55401 TrenGuard™ 450 Hybrid - Integrated Wedge
56401 TrenGuard™ 600 Hybrid - Integrated Wedge

TRENGUARD™ ACCESSORIES
21001 Slotted Rail Clamps (Set of 2 each)
20005 TrenGuard™ Protective Case (Plastic case with foam inserts)
ArmGuard™
Patient Arm Protector

ArmGuard is the best choice for securing patient arms in the supine position. AORN cautioned against tucking arms at their sides with the draw sheet. ArmGuard™ Patient Arm Protector provides two options for safe and efficient arms-to-side positioning.

- The ArmGuard™ pad system provides instant emergency access for purging ports and tracing lines
- Simple and easy setup
- Arm compression is easily controlled
- Low-profile sleds will not clash with robot arms
- Proven comfortable for surgeons and assistants
- Each style accommodates all ArmGuard Procedure Packs

515 lb. model shown with ArmGuard™ Bariatric sled and standard ArmGuard pads and the Bariatric Width Extender accessory pad.

160 lb. model shown with ArmGuard Rail Mounted sled and ArmGuard Extended Procedure Pack.

- **Easy line access.**
  ArmGuard features a gap that grants immediate access to ports and lines. Straps allow quick and easy access to the entire length of the arm.

- **Secure arms without tucking.**
  Low-profile sleds are comfortable for bedside assistant.

- **Rail-Mounted.**
  Rail Mounted ArmGuard sleds aid in supporting patients in airplane tilt. Useful for colorectal surgery and other procedures.

- **Robotic surgery.**
  ArmGuard’s low-profile sleds prevent clashing with robotic arms.
**ArmGuard™ Sled Kit**
- Low-profile, comfortable for bedside assistants
- Includes 2 Standard Sleds and 2 Bariatric Sleds
- Used with all ArmGuard Procedure Packs

**ArmGuard™ Rail-Mounted Sled Kit**
- Low-profile, comfortable for bedside assistants
- Width-adjustable to fit any patient size
- Aids in supporting patient in airplane tilt
- Secures to OR table rail with clamps
- Used with all ArmGuard Procedure Packs

**ArmGuard™ Procedure Packs**
- Available in standard and extended lengths
- Secures arms without tucking
- Allows quick access to entire arm
- Completely covers hand
- Used with all ArmGuard Sled Kits

**ArmGuard™ Width Extender Procedure Pack**
- Bariatric accessory pad for high-BMI patients
- Supports the patient’s arm
- 2 sizes available to fit mattress thickness
- Used with Bariatric and Rail-Mounted ArmGuard Sled Kits

### ARMGUARD™ SLED KIT (Kit of 4 Sleds- 2 each Standard, 2 each Bariatric)
Compatible with ArmGuard Procedure Packs and Accessories

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<th>Code</th>
<th>Description</th>
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<tr>
<td>40004</td>
<td>ArmGuard™ Sled Kit</td>
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### ARMGUARD™ RAIL MOUNTED SLED KIT (Kit of 2 sleds)
Compatible with ArmGuard Procedure Packs and Accessories
Use with: Set of Slotted Rail Clamps (Sold separately)

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>40008</td>
<td>ArmGuard™ Rail Mounted Sled Kit</td>
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<td>40007</td>
<td>ArmGuard™ MAQUET MAGNUS High-BMI Sled Kit</td>
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<tr>
<td>40006</td>
<td>ArmGuard™ MAQUET MAGNUS Rail Mounted Sled Kit</td>
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### ARMGUARD™ SINGLE-USE PROCEDURE PACKS (Case of 12 each)
Each Single-Use Procedure Pack Contains: Set of 2 ArmGuard Patient Arm Protector pads
Use with: ArmGuard Sled Kit, ArmGuard Rail Mounted Sled Kit

<table>
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<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40412</td>
<td>ArmGuard™ Extended</td>
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<tr>
<td>40101</td>
<td>ArmGuard™</td>
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### ARMGUARD™ WIDTH EXTENDER SINGLE-USE PROCEDURE PACKS (Case of 12 each)
Each Single-Use Procedure Pack Contains: Set of 2 ArmGuard Width Extender pads
Use with: ArmGuard Procedure Packs, ArmGuard Sled Kit, ArmGuard Rail Mounted Sled Kit

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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>40206</td>
<td>ArmGuard™ Width Extender - (2 x 3 x 20 inch)</td>
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<tr>
<td>40207</td>
<td>ArmGuard™ Width Extender - (4 x 3 x 20 inch)</td>
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PatientGuard™
Surgical Stirrups

The first generational and ergonomic innovation in stirrup technology in the last two decades

• Design Innovation.
  Simply squeezing the handle allows manual axial rotation of the control rod up to 10°. This simplifies controlled pre-procedural and intra-procedural knee abduction.

• Design Enhancements.
  Flexible boot compensates for larger legs, available with or without fins.
  Anti-microbial boot liners feature reinforced hinges to extend product life.
  Lithotomy: -35° low to 85° high
  Adduction: -9° and abduction +25°

A Stirrup for Robotics

The PatientGuard 600 Robotic Stirrups simplify docking and improve access for the bedside assistant.
Will not clash with surgical robot.
Shorter rods provide easier control in draping as well as lower lithotomy positioning.
Exclusive axial rotation of 10° at handgrip.
For use with patients up to 600 pounds.
  Lithotomy: -55° low to +60° high
  Adduction: -9° and abduction +25°

PATIENTGUARD™ STIRRUP ACCESSORIES
Accessories, Storage, and Replacement Boot Pads

10126 SnapLock Clamps Set (Set of 2 Clamps)
10301 PatientGuard™ Stirrup Rail Width Extenders (Set of 2)
10100 PatientGuard™ Stirrup Storage Dolly
10284 PatientGuard™ Stirrup Wall Rack
19600 PatientGuard™ “600” & “400” Stirrup Boot Pads for Finned Boots
19601 PatientGuard™ “600” & “400” Stirrup Boot Pads for No Fin Boots
19800 PatientGuard™ “800” Stirrup Boot Pads for Finned Boots
**PatientGuard™ 400 Stirrups**
- Versatile surgical stirrups
- Axial rotation of 10° from handgrip
- 400 lb proportional patient weight maximum
- Stirrup boots are available with or without fins

**PatientGuard™ 600 Stirrups**
- Versatile surgical stirrups
- Axial rotation of 10° from handgrip
- 600 lb proportional patient weight maximum
- Stirrup boots are available with fins

**PatientGuard™ 800 Stirrups**
- Specialty Stirrup for larger patients
- Axial rotation of 10° from handgrip
- 800 lb proportional patient weight maximum
- Stirrup boots are flexible and available with or without fins

**PatientGuard™ Stirrup Wall Rack**
- Provides convenient storage for PatientGuard Stirrups, Boot Pads, and SnapLock Clamps (Set of 2)

**PatientGuard™ Stirrup Rail Width Extenders**
- Bariatric accessory pad for High-BMI Patients
- Supports the patient’s arm
- Used with all ArmGuard Sled Kits

**PATIENTGUARD™ STIRRUPS (Set of 2)**
*Surgical Stirrups, Includes Boot Liners
Use with: Set of Slotted Rail Clamps (Sold separately)*

- 18600RN  PatientGuard™ 600 Robotic Stirrups
- 18400    PatientGuard™ 400 Stirrups without Fin
- 18400F   PatientGuard™ 400 Stirrups with Fin
- 18600    PatientGuard™ 600 Stirrups with Fin Boots
- 18800N   PatientGuard™ 800 Stirrups without Fin
- 18800    PatientGuard™ 800 Stirrups with Fin
FaceGuard™
Patient Face Shield and Instrument Tray

• **Protects patient’s face.**
  FaceGuard Patient Face Shield ensures patient protection while providing a convenient surface for surgical instruments.

• **Fits all tables.**
  The frame is width-adjustable to fit all surgical table models.

• **Immediate access.**
  The tray can be quickly removed to give anesthesia full access to tubes and lines.

• **Available in Dual-Angle or Flat Tray.**

  The Dual-Angle tray was designed to suit the needs of conventional laparoscopic and robotic surgeons.

  The Flat “Hold the Mayo” tray can be used for many supine procedures such as cardiac, orthopedics, and others. Custom sizes and shapes upon request.

FACEGUARD FACE SHIELD & INSTRUMENT TRAY
Protects the patient’s face during surgery while acting as an instrument tray
Use with: Set of Slotted Rail Clamps (Sold separately)

60701  FaceGuard™ Dual-Angle Instrument Tray / Head Shield
60702  FaceGuard™ Flat “Hold the MAYO” Instrument Tray / Head Shield
60703  FaceGuard™ Combination - Includes both Dual-Angle and Flat Trays
PatientGuard Lateral Positioners

**PatientGuard Lateral Leg Positioner**
- Allows proper body alignment for lateral positioning.
- Lower leg is protected and bent for stability while the upper leg is straight and cushioned.

**PatientGuard Lateral Positioner**
- Allows a safe, quick, and easy transition from supine to lateral position.
- Eliminates need for axillary roll.
- Helps achieve proper body alignment for lateral.
- Can be used when OR table is flexed.

**Clamps**

- **PatientGuard™ Slotted Rail Clamps**
- **PatientGuard™ SnapLock Clamps**
- **PatientGuard™ Rail Width Extenders**

**LATERAL POSITIONERS**
Sold individually.
- 71900  PatientGuard™ Lateral Positioner
- 71800  PatientGuard™ Lateral Leg Positioner

**PATIENTGUARD™ CLAMPS**
Clamps that fit on US OR table accessory rails. Clamps for other rail sizes are available. Slotted to accept accessories with mounting blades. Sold as a set, individual clamps also available.
- 21001  PatientGuard™ Slotted Rail Clamps (Set of 2)  
  Standard rail clamps for TrenGuard, ArmGuard Rail Mounted Sled Kit, FaceGuard, etc.
- 10126  PatientGuard™ SnapLock Clamps (Set of 2)  
  Spring-loaded rail clamps that snap onto the rail. Recommended for PatientGuard Stirrups.
- 10301  PatientGuard™ Rail Width Extenders (Set of 2)  
  OR table clamp that increases the distance between the bariatric patient and the rail.
Our dual-density, contoured positioners cradle and conform to anatomical structures, redirecting pressure away from bony prominences. In many cases interface pressures on some bony prominences are entirely eliminated.

Not Just Another Gel Pad

*It’s CONTOURED*

Heel Tissue Compression with OR Table Pad vs Contoured Positioner

- Visible tissue compression and distortion.
- Direct pressure on heel.
- Little shear protection.

- No tissue compression and distortion.
- Total pressure re-distribution.
- Excellent shear protection.

Contoured pads reduce pressure ulcer risk.
PatientGuard™ Head Protector
- Dual-layer design contours to patient’s head, providing comfort and effective protection.
- For supine, lithotomy, and lateral positions.

PatientGuard™ Leg Protector
- Slightly raised behind the knee, this product offers protection to the popliteal nerve and conforms superbly around the leg.
- Lifts heel by supporting the length of the lower leg.

PatientGuard™ Sacral Protector
- Redistributes pressure away from the sacrum to reduce risk of pressure ulcer development.
- For supine, seated, and lithotomy positions.

PatientGuard™ Patient Head and Neck Support
- Ergonomically designed to support the head and neck.
- Features anti-slip properties designed for additional safety.

PatientGuard™ Gecko Disk
- High-friction silicone disk prevents any gel pad or head-rest from sliding.
- Use several for emergency repositioning.
- Gecko disks are cleanable and reusable.
- No geckos were harmed during manufacturing.

PATIENTGUARD™ CONTOURED POSITIONERS
Contoured pads that provide pressure management for bony prominences of the body. Sold individually.

- 70100 PatientGuard™ Head Protector (260 x 250 x 50mm)
- 70400 PatientGuard™ Leg Protector (515 x 180 x 40mm)
- 70301 PatientGuard™ Sacral Protector - Large (450 x 445 x 30mm)
- 70300 PatientGuard™ Sacral Protector - Small (400 x 380 x 25 mm)
- 71141 PatientGuard™ Head Rest - Large (280 x 240 x 140mm)
- 71142 PatientGuard™ Head Rest - Small (273 x 220 x 135mm)
- 72151 PatientGuard™ Patient Head and Neck Support
- 72015 PatientGuard™ Gecko Disk (Case of 10 each)
The PatientGuard Prone Attachment instantly converts your standard armboards into effective, easy-to-use positioners for prone or other positions where the arms must be lower than the table surface.

PATIENTGUARD™ ARMBOARDS (each)
Multi-specialty armboard that allows easy ergonomic, three-axis positioning
Clamp included. Omnilever Armboard Pad sold separately
89300  PatientGuard™ Omnilever™ Armboard
89310  PatientGuard™ Omnilever™ Armboard Pad

PATIENTGUARD™ PRONE ATTACHMENT FOR ARMBOARDS (Set of 2)
Armboard attachment that allows armboards to be raised, lowered, and mounted at an angle
Use with: Set of Slotted Rail Clamps (Sold separately), Armboards (Sold Separately)
89200  PatientGuard™ Prone Attachment for Armboards
PatientGuard™

Dolphin Pad

Efficacy Study at Massachusetts General Hospital:
Pressure ulcer incidence went from up to 29.5% of cardiac surgery patients to a 0% incidence of new pressure ulcers between surgery and hospital discharge.

The Dolphin Pad is a pressure redistribution surgical surface. It precisely adjusts air density in the mattress to simulate immersion in a fluid medium. This surface mimics floating in water and dramatically reduces undesired soft tissue deformation.

VA San Diego Laser-Doppler Study:
A recent study of the Dolphin Pad shows it preserves 87% of baseline microvascular blood flow as compared to only ~3% of baseline blood flow on engineered foam OR table pads.
ArmGuard™
Patient Arm Protector

- Eliminates arm tucking.
- Immediate access to ports and lines.
- Rail-mounted version is width-adjustable and secures to the OR table with clamps.
- Aids in supporting patients in airplane tilt.

See pages 6 and 7 for more information.