

# *Innovative Medical Products Inc.*

BARIATRIC SOLUTIONS THAT BENEFIT  
THE PATIENT, SURGEON AND OR STAFF

**W**ith an epidemic of obesity sweeping the country, there has been a dramatic increase in hip and knee replacements from the wear and tear on joints in mega-sized patients. It's been reported that obesity affects 34 percent of adults age 20 and over in the United States, which amounts to more than 72 million people. This trend will only continue to rise.

Joint replacement for obese patients, of course, presents its own set of challenges for both the surgeon and the OR staff, especially in securely positioning extra large patients during surgery.

"Unfortunately," says Edward De Mayo, M.D., orthopedic consultant and technical product designer for Innovative Medical Products Inc., "most positioning devices in use today for joint replacement procedures are designed more for the 'normal' sized patient that don't work very well for patients with very large abdomens. Traditional positioners also don't address the physical issues faced by OR staff who have to lift and maneuver patients many times heavier than themselves, risking injury or serious accidents."

To address these concerns, Innovative Medical Products has produced positioning

solutions especially designed for obese patients that also ensure more successful surgical outcomes, while protecting the safety of OR staff:

## **1 LARGE DE MAYO HIP POSITIONER®**

The Large De Mayo Hip Positioner® is a bariatric solution for lateral positioning of obese patients during hip surgery or in any surgery requiring lateral positioning. The positioner stabilizes obese patients in the same orientation throughout the surgical procedure, while eliminating the need for any strenuous lifting of the patient by OR personnel.

"In hip replacements, the importance of stabilizing the pelvis can't be overstated," notes Dr. De Mayo. "If the surgeon doesn't have the pelvis securely and completely stabilized in the desired

position, implanted components might not be aligned properly. This could lead later on to an increased risk of dislocation or accelerated wear on the prosthesis. Traditional positioning devices, like deflatable beanbags, only give a limited amount of support, as a heavy patient can still roll back and forth on the bag during surgery. Conversely, the IMP solution actually grips the patient's pelvis, holding it steady throughout the entire procedure."

The IMP positioner aligns with the obese patient, not the other way around. It is literally built around the patient, secured to both side rails of the operating table. This creates a "cage-like" structure that retains the patient secure and stable inside its field. The system's crossover bar is tilted away from the hip area, providing clear, unobstructed access to the surgical site.

With the Large De Mayo Hip Positioner®, OR staff are freed from having to lift the patient onto a positioning base plate often used in more conventional positioning systems. Instead, patients can be easily rolled onto the operating table and positioned without any lifting.

“Because OR nurses or assistants aren’t getting any bigger and stronger themselves, this is a significant advantage for a surgical center or hospital because it helps prevent employee injury, not to mention providing an extra pair of hands in times when healthcare institutions are economizing and cutting back on staff,” says Dr. De Mayo.

## 2 DE MAYO KNEE POSITIONER® AND DE MAYO UNIVERSAL DISTRTRACTOR®

With some systems, knee surgery often requires additional staff to physically position and maintain a distraction of the patient’s knee throughout the procedure. This challenge is especially acute when dealing with obese patients. The De Mayo Knee Positioner®, used in conjunction with the De Mayo Universal Distractor®, a sterile external device enabling the surgeon to independently control the distraction of the knee joint, frees OR personnel from this back-breaking exercise that sometimes leads to serious staff injury.

“To prepare the bone and properly implant the replacement components in obese patients, it is generally difficult to get the distraction you need, as well as sustain it throughout the procedure,” notes Dr. De Mayo. “The IMP knee positioner and distractor not only provide controlled, precise distraction but also maintain a

patient’s position with very limited human effort.”

## 3 DE MAYO ANKLE DISTRACTOR™

The advantage of the De Mayo Ankle Distractor™ is its ability to flex a patient’s hip and knee while the patient is supine on the OR table, providing complete patient stability within the device’s framework.

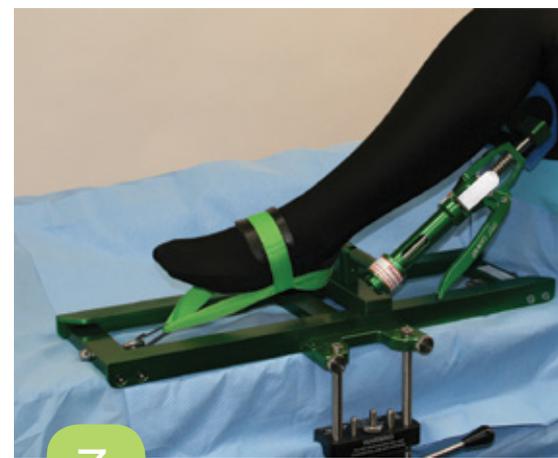
The IMP solution eliminates the need for OR staff to pull on the patient’s leg during surgery to maintain the distraction. This exercise is not only a major physical challenge for the OR assistant, especially when dealing with an obese person, but is also risky for the patient who could be pulled off the table. Rather, the distraction is self-contained, with the ankle attached to one end of the device while the knee is distracted at the other, positioning the patient securely and safely.

The distractor and frame are on top of the draped table permitting unobstructed access by the surgeon and assistants.

An additional advantage of the De Mayo Ankle Distractor™ is that it allows the surgeon to easily adjust the amount of distraction. By providing distraction only when the surgeon needs it, the IMP solution puts less stress on the patient.

## 4 MORPHBOARD®

The MorphBoard® is a pegboard lateral positioning system that accommodates the abdomen of obese patients with a simple rotation of its center board module. The IMP solution enables OR personnel to simply roll patients onto their sides for easy stabilization using the various



peg-hole locations. This eliminates any strenuous lifting of the patient into a pre-determined location, as required by other positioning systems.

The MorphBoard®'s 20" wide, 30" long, center board, when rotated 90 degrees and combined with the system's two end boards, "morphs" into a 30" wide section large enough to support most obese patients. In addition to standard sized pegs, the lateral positioning system includes pegs designed by IMP for the obese patient including the Expand-A-Peg™ Locking Peg – a new hip positioning peg that will not wobble or dislodge from the pegboard hole during surgery. With its unique, ease-of-use locking mechanism, the IMP solution provides the most stable peg hip positioning system in the industry.

An IMP slow recovery foam pad or visco elastic gel pad (or a combination of both) is placed on the pegboard for patient protection. Either IMP pad can be easily contoured to conform to the patient's body leaving access to the peg holes closest to the patient where the pegs can be inserted for maximum stabilization.

**5 HUMBLES LAPWRAP® POSITIONING PAD**  
IMP's Humbles LapWrap® Positioning Pad secures patients' arms by their sides during surgery. It helps prevent shoulder injuries by not allowing a patient's arm to fall from the side of the operating table. It also protects neurological structures by preventing hyperextension of the elbow. In fact, the Humbles LapWrap® was designed to meet AORN recommendations for positioning of the patient's arms in the perioperative setting and prevent tissue injury and ischemia that may be caused by sheet tucking a patient's arms at his or her side.

For the obese patient, the Humbles LapWrap® comes with optional extension fasteners that gives the surgical team more flexibility in

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— Edward De Mayo, M.D.

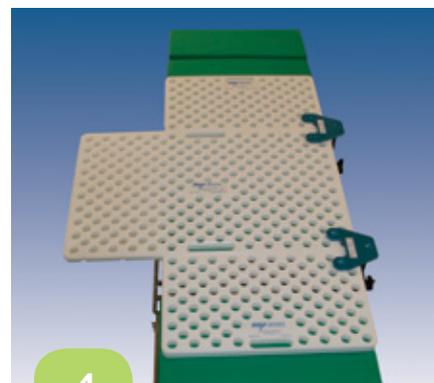
helping to secure extremely obese patients' arms by their sides during surgery.

The Humbles LapWrap® not only secures the arms of any size patient but has the additional capability of holding the patient directly to most operating tables. The latex-free foam extensions can be placed between the operating table and the side rail, wrapped around the side rail and then back onto themselves for this extra security.

The IMP extensions are made of hook and loop material and come in two-foot lengths. The double-sided laminated straps can also be cut to shorter lengths if desired, when not all the material is needed. Whatever the length desired, the extensions have more than enough material to capture an extremely obese person's arms while securing them directly to the table. Easy access to IV tubes and leads remains the same when using the extensions.

## CONCLUSION

Bariatric solutions from Innovative Medical Products benefit the patient, the surgeon and the OR staff, as well as the healthcare institution itself. With the IMP solutions, patients can have better surgical outcomes, surgeons can more easily and accurately repair joints or perform total joint replacement, and OR staff members are saved from demanding work that can result in physical injury. For the healthcare institution, this can reduce financial or legal risk by freeing OR staff from hazardous duties, not to mention helping to fill some OR personnel gaps when staffing is at a premium. In other words, IMP has taken a "big" problem and made it more manageable. **ORT**



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# Tri-Pull™ Secure Shoulder Solution

A complete system for better access

## Shoulder distraction with safety and control

Now you have an option with precise positioning, maximum flexibility and controlled distraction, without compromising the sterile field. Ideal for shoulder or elbow arthroscopies.



**Tri-Pull™ Secure Shoulder Solution combines three proven systems to secure and distract the shoulder precisely.**

### Innovation from patient to positioner

- Phase-4 Gel™ Splint increases comfort, protects skin, controls internal and external rotation while adhesion holds the arm securely in place
- De Mayo RoTractor® delivers complete patient control in the sterile field, holding fixed positions of rotation and allowing distraction of shoulder or elbow
- Reznik Universal Shoulder Positioner™ provides controlled shoulder distraction with three planes of adjustment, and patented safety stops for patient protection

*The operative word  
in patient positioning.*

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[www.impmedical.com](http://www.impmedical.com)

## Distraction with precision in shoulder surgery

Featuring the patented **Reznik Universal Shoulder Positioner™** with three planes of adjustment

Stops on vertical plane for additional patient protection



**Phase 4 Gel™ Splint** adheres to arm for secure positioning and features a natural wrist contour for increased comfort and patient safety.

**De Mayo RoTractor®** holds the patient's arm in rotation while maintaining distraction of the shoulder. Patent applied for.



**De Mayo RoTractor®** adapts to most pole style shoulder positioners.

Learn more about the unique features of the **Tri-Pull™ Secure Shoulder Solution** at [www.impmedical.com](http://www.impmedical.com) or call 800-467-4944 for more information or to speak with a representative.