

**FOR IMMEDIATE RELEASE**

CONTACT: Maureen McPeak

717-249-6112 x 210

**Carlisle Practice Offers Surgery Not Even Available in Big Cities**

**APPALACHIAN ORTHOPEDIC CENTER FIRST IN STATE TO PERFORM  
MAKOPLASTY® ROBOTIC HIP REPLACEMENT SURGERY**

December 20, 2011 – Carlisle, PA – A few weeks ago, the surgeons at Appalachian Orthopedic Center performed the state’s first robotic hip replacement surgery using MAKOplasty®, the latest innovation in total hip replacement surgery. Dr. James Oliverio and his partner Dr. Michael Oplinger, both board-certified orthopedic surgeons, performed the surgery on December 7, 2011 using a highly advanced, surgeon-controlled robotic arm system (RIO) that enables the most precise positioning of the prosthetic implants.

The first patient was a 66 year-old female with advanced arthritis of the hip. The pain was so crippling she could barely walk. Within hours of the surgery, she was up and walking. Forty eight hours after the surgery, she was well enough to go home. Today, follow-up x-rays are perfect and she is thrilled to be pain free and mobile again.

The surgeons have also used MAKOplasty for partial knee replacement surgery. This technology enables surgeons to obtain optimal patient results using the precision of computer navigated systems and robotic technology.

“Getting implants positioned correctly is an important aspect in improving surgical outcomes and the lifespan of the implants used for hip and knee replacements” said Dr. Oliverio. “The robotic arm technology enables us to more accurately achieve the biomechanical alignments that are planned to fit the patient’s unique anatomy. The increase precision should lead to a dramatic reduction of certain surgical complications.”

Here’s how MAKOplasty Hip works: The RIO system provides a patient-specific 3-D image of the patient’s hip based on a pre-operative CT scan. Using the 3-D model, the surgeon can then plan the optimal size and position of hip implant components. An implant consists of a cup and liner placed in the acetabulum or the socket of the pelvis, and a femoral component with a femoral head and stem. The position of these components is critical for proper biomechanical reconstruction of the hip.

During surgery, RIO provides visualization of the joint and biomechanical data to guide the bone preparation and implant positioning to match the pre-surgical plan. First the surgeon prepares the

femoral bone for the implant, and subsequently measures the femoral component's position with the RIO. Next the surgeon uses the robotic arm to accurately ream and shape the acetabulum, and then implant the cup at the correct depth and orientation. Finally the surgeon implants the femoral implant and RIO provides summary data to confirm the hip implants are aligned according to plan.

MAKOplasty Hip is designed to assist surgeons in attaining a new level of reproducible precision in surgery, to restore patients' confidence in their mobility and help them return to active lifestyles. MAKOplasty Hip may be a treatment option for people who suffer from either non-inflammatory or inflammatory degenerative joint disease.

For more information on MAKOplasty Hip, please visit [www.aocenter.com](http://www.aocenter.com) or contact Maureen McPeak at 717-249-6112 x 210.

Note: Physicians are available for interviews. The technology is available for filming.

###