



- Anterior Hip Replacement
- Tourniquetless Knee Replacement
- Outpatient Same Day Surgery



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Anthony T. Carter

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Dr. Anthony Carter is a pioneer in his field. He introduced many firsts in the Hampton Roads area, including the direct anterior approach to total hip replacement (Jiffy Hip) as well as robotic knee surgery (MAKOplasty), both of which he has performed more cases than any other area surgeon. He is constantly seeking new and innovative techniques, including improved pain management and accelerated recovery protocols, as well as comprehensive blood management programs for the Hampton Roads area.

Teaching International Orthopaedic Surgeons – Right From Newport News

The specialists at Hampton Roads Orthopaedics Spine & Sports Medicine are recognized experts in Hampton Roads and across the globe. Anthony Carter, operating in Newport News, is using new technology to teach surgeons all over the world how to perform the latest techniques.

“Inside the operating room, we have six high definition cameras,” says Dr. Carter. “We can use these cameras to livestream surgeries and showcase newer technologies we are fortunate to have at Mary Immaculate Hospital.”

Dr. Carter has used the cameras to teach surgeons how to perform anterior hip replacement surgeries at a national Anterior Hip Foundation course as well as the International Conference of Joint Replacement.

The cameras, located in the lights and around the room, give surgeons multiple viewpoints to study Dr. Carter’s techniques. They can also speak to him live, asking questions as he works through the surgery.



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“Surgeons are very visual learners,” says Dr. Carter. “They have to see it to understand it, but since these are live, they can communicate with me, too.”

Dr. Carter hopes the new technology will improve patient outcomes all over the world by helping surgeons get access to the more advanced, precise techniques used in Hampton Roads.

“We are showcasing the newer technology we are able to trial first,” says Dr. Carter. “We can expand other surgeon’s

knowledge so they can take that to their patients. It also gives them a chance to talk through the surgery with me so they can ask specific questions and receive more one-on-one teaching.”

Patients in the livestreamed surgeries volunteer to be part of the teaching exercise. Their privacy is carefully protected so that other surgeons can’t see the patient’s face or identifying marks. Dr. Carter says the patients who have participated so far have been enthusiastic.

“Most patients think it’s exciting to be a part of it,” says Dr. Carter. “They enjoy that they are going to help teach other people and help other patients like themselves.”

In the future, Dr. Carter hopes to expand the use of livestream technology to improve opportunities for medical education. Many surgeons may be too busy to take time off to go to a conference or course. However, this technology would allow them to interact with Dr. Carter from their desks so they can learn without taking time out of the operating room.