

Advancing Health

A CASE STUDY from MedStar Heart & Vascular Institute

*A Minimally Invasive Treatment for
Cardiovascular Conditions*

Transradial Catheterization

John Wang, MD

Director, Cardiac Cath Labs
MedStar Union Memorial Hospital

Abstract

A middle-aged male was diagnosed with a severe blockage of the right coronary artery. The blockage was treated using a minimally invasive transradial catheterization procedure. The patient experienced a quick recovery, with no further arterial blockage issues.

CASE STUDY

Transradial Catheterization

A Minimally Invasive Treatment for Cardiovascular Conditions

Patient Presentation

- A 52-year old male with a history of hypertension and high cholesterol had begun to experience increasingly frequent events of chest pains during minimal exertion.
- Patient's cardiologist performed a nuclear stress test, which indicated restricted blood flow and reduced contraction of the heart muscle due to a blockage of the right coronary artery.
- Patient was referred to MedStar Union Memorial Hospital for treatment.
- Patient's compression wristband was removed after three hours with no bleeding or related complications.
- During a six-hour observation period following conclusion of the stenting procedure, the patient ate and rested comfortably in a chair. The patient was then discharged to home.

Assessment and Diagnosis

- The patient had previously undergone successful femoral artery catheterization for severe blockage of the left ascending diagonal artery.
- Patient was advised of all treatment options and associated risks/benefits. He consented to the transradial procedure.

Treatment

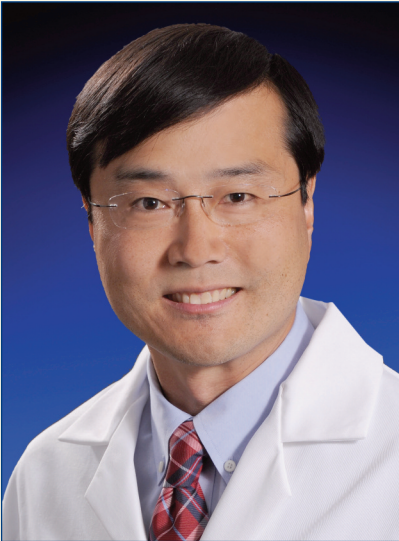
- The transradial catheterization with stent placement was performed using local anesthesia during a 20-minute procedure. No complications were encountered.
- Patient reported feeling well after conclusion of the procedure. He was able to sit up immediately and walk unassisted for a short distance.

Outcomes

- Patient returned to work within two days of his catheterization and has resumed normal activity.
- Patient will follow-up with his primary cardiologist.

Conclusion

- Transradial catheterization is superior to a transfemoral procedure for most patients. It is much more comfortable and safer for the patient, and virtually eliminates the risk of bleeding.
- Providing a comfortable environment for the procedure and post-operative monitoring can contribute significantly to patient's well-being.
- Hospitals can also benefit, as most procedures are completed with patient discharge on the same day, eliminating the need for overnight observation.



Dr. John Wang, MD

“Over the past decade, the growth in popularity of transradial catheterization procedures has been astounding, and for good reason. The success rate is extremely high and risks are lower, compared with conventional femoral procedures.

What’s more, patients overwhelmingly prefer the advantage of the minimally invasive approach, which can be used for all but the rarest of diagnostic heart catheterization cases.”

MedStar Heart & Vascular Institute: A Network of Innovation

MedStar Heart & Vascular Institute is one of the top-ranked cardiovascular programs in the mid-Atlantic, offering patients access to some of the nation’s most experienced specialists and the services of the 10 MedStar hospitals in Greater Washington and Central Maryland. Our hallmark is the depth and breadth of our expertise, and a long standing commitment to collaboration that brings the very best team-based thinking to each and every patient.

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201 E. University Parkway
Suite 344
Baltimore, MD 21218

**MedStar Heart & Vascular Institute
at MedStar Union Memorial Hospital
201 East University Parkway
Baltimore, MD 21218**

If you wish to schedule one of your patients for a transradial catheterization, please call **410-554-2332** for an appointment.

If you have any additional questions about the procedure, or other diagnostic and treatment services offered by the Catheterization Lab at MedStar Union Memorial Hospital, please call Dr. Wang directly at **410-554-2332**.

To learn more please visit **MedStarHeartInstitute.org**.

