

House-call model tapping interventional radiology improves outcomes and access to care

June 15 2020

Interventional radiologists participating in a collaborative house call model in rural Indiana helped reduce emergency department use by 77 percent and hospital readmissions by 50 percent for nearly 1,000 elderly homebound patients with chronic illnesses, according to a research abstract presented during a virtual session of the Society of Interventional Radiology's 2020 Annual Scientific Meeting on June 13. The novel care model brings interventional radiology treatments into patients' homes to provide more value through in-home advanced specialty care, prevent common complications of chronic diseases, and avoid unnecessary emergency department visits and hospital admissions.

"Older homebound patients, including those in nursing home settings, have few resources available to receive specialty care and often delay care until preventable issues become urgent and acute," said Nazar Golewale, MD, lead author of the study and an interventional radiologist with Modern Vascular & Vein Center in Valparaiso, Indiana and the northwest Indiana area. "By providing image-guided treatments in a patient's home, we are improving access to care that otherwise would need to be delivered in the hospital."

Dr. Golewale sees more than 900 of the practice's patients to diagnose and manage their conditions. Through varieties of portable technology, he brings interventional radiology care into patients' homes that would normally be delivered in clinics, such as ultrasound-guided needle

biopsy, paracentesis and thoracentesis, ultrasound-guided joint injections for pain, wound care, and drug infusions. Payments for care are covered by Medicare reimbursement for homebound patients.

The care partnership was formed to overcome the difficulty of providing [specialty care](#) for chronically ill, homebound patients in Dr. Golewale's rural community. As a result of the program, patient satisfaction scores increased from 17 percent to 84 percent from before and after implementation of the program. Primary care providers, including internists and [nurse practitioners](#), recruited specialists based on the needs of the patients they serve. In addition to interventional radiology, the house call practice includes providers in internal medicine, podiatry, laboratory services, and wound care.

"Some specialty services are available at our local hospitals, but cost-effective ways of coordinating patients' transportation and visits remained a significant barrier to care," said Golewale. "By bringing the [hospital](#) care to the patient, we're eliminating these hurdles and providing timely, personalized care."

More information: Abstract: [A Novel Health Care Delivery Model-House Call Docs](#). N. Golewale, Modern Vascular & Vein Center, Valparaiso, IN, S. Sinha, House Call Doc, PC, Highland, IN.

Provided by Society of Interventional Radiology

Citation: House-call model tapping interventional radiology improves outcomes and access to care (2020, June 15) retrieved 2 May 2024 from <https://medicalxpress.com/news/2020-06-house-call-interventional-radiology-outcomes-access.html>

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