Dataset Profile: Thoracic Endovascular Aortic (TEVAR) Repair Procedures

Description: This de-identified dataset combines the surgical registry data for Thoracic endovascular aortic (TEVAR) repair procedures performed at 370 hospitals participating in the Vascular Quality Initiative (VQI) with late outcomes from Medicare claims from 2003-2013. The dataset was generated by identifying probabilistic matches for VQI cases in Medicare Claims that matched on date of birth (DOB), gender, date of procedure, and first three digits of zipcode. Canadians, patients under 65 years of age, procedures after 12/31/2013, and any patient with missing identifiers were excluded from the matching process. Five Medicare-derived outcomes variables were created from the merged data to facilitate evaluation of long term outcomes of TEVAR procedures: 1) death, 2) adverse outcome: aortic rupture 3) readmission to the hospital 90 days after discharge from the index procedure for: vascular complications involving mesenteric artery, renal artery or other vessels; postoperative infection; stroke or vascular myelopathies; cardiac complications; urinary or renal complications; GI complications; or respiratory complications 4) repeat procedure/reintervention for secondary AAA repair and complications secondary to repair, and 5) post-procedure surveillance imaging (CT or ultrasound of the abdomen).

Dates of procedures: 01/01/2003 -12/31/2013

Date matched dataset generated: 03/10/2016

Date QA completed: 03/15/2016

Description of QA Performed:

Merged data was checked to confirm the total number of matched observations and procedure-specific variables, as well as accuracy of follow-up times for outcomes (see comments below).

Results of match:

The matching process returned a total of 1,064 matching cases. The match rate among eligible patients was 93.09%.

File Location:

To obtain access to de-identified data:

1. Visit the VQI website to submit an application to the VQI Research Advisory Committee.
2. Upon acceptance, the de-identified dataset will be shared with you via the M2S Pathways platform.

Appendices:

A. VQI TEVAR Variable Dictionary
B. Late Outcomes Variable Dictionary
C. Late Events ICD-9/CPT codes
D. VQI & Medicare Matching Flow Diagram
E. Comments & QA Findings

For questions, email Kayla.O.Moore@dartmouth.edu at The Dartmouth Institute for Health Policy & Clinical Practice

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