CATCHem Before They Fall Through the Cracks: Implementation of a Comprehensive Atherosclerosis Treatment Collaborative Health System Transition of Care Multidisciplinary Clinic



Youssef Bessada PharmD, Taki Galanis MD, Lynda Thomson PharmD, Brandi Thoma PharmD, Luis Eraso MD, Walter Kraft MD, Dina Orapallo CRNP, Heather Yenser CRNP, Geno Merli MD

Background

Peripheral Arterial Disease (PAD)

- High Cardiovascular Risk
 - PAD is a strong independent predictor of cardiovascular and all-cause mortality¹
- Minority Groups Affected
 - The PAD, prevalence and cumulative risk factor profile analysis found that Non-Hispanic African-Americans had a higher prevalence of PAD than non-Hispanic Caucasians¹
- Low Rates of Diagnosis
 - In one analysis, 83% percent of patients with prior PAD were aware of their diagnosis, but only 49% of primary care physicians were aware of this diagnosis²
- Low Treatment Intensity Yet Modifiable Risk Factors
 - There was benefit seen in a cardiovascular rehabilitation program, through the improvement of modifiable risk factors and appropriate medication management of high-risk medications, such as antithrombotics³
 - Patients better achieved secondary prevention targets and displayed less cardiac events

Study Design



- Standardized, peer-reviewed, multidisciplinary approach to guideline development for safe medication practices
- Algorithms developed to ensure guideline-directed medical therapy (GDMT) is adhered to

Thomas Jefferson University Hospitals, Philadelphia, PA, USA



DM = Diabetes Mellitus, TIA = Transient Ischemic Attack, ASA = Aspirin, SET = Supervised Exercise Therapy, MALE = Major Adverse Limb Event

Figure 3. Example CATCHem Algorithm: Use of Proton Pump Inhibitors



th Clopidogrel	Thrombocytopenia
erred Agent	++
Possibly	+/-
Avoid	-
Avoid	+/-
Avoid	Unknown

Implementation & Program Highlights

- Immediate discharge transition of care planning and follow-up, particularly for patients discharged on rivaroxaban for PAD or other antiplatelet/anticoagulant medications
- Appointments with vascular medicine made at 1-,3- & 6-month intervals with for a comprehensive clinical assessment
- Pharmacy to assist with coordination of care, communication with providers and medication management
- Anticoagulant Safety & Management

 - Strict eligibility and exclusion criteria for low-dose rivaroxaban to minimize risk • 2-day follow-up call for those discharged on rivaroxaban with early follow-up • Standardized education and comprehension assessment of anticoagulation
 - Constant evaluations to reduce complications

Quality Assessment

Table 1. Study Parameters for Clir

Clinic Design Endpoi

- Functional indicators
- Compliance
- Number of patients educated ba clinical questionnaires
- Number of patients referred to a specialist
- Number of patients lost to follow
- Rehospitalization rates

DM = Diabetes Mellitus, HTN = hypertension, HLD = Hyperlipidemia,

References

- 1. Eraso et al. Eur J Prev Cardiol. 2014
- 2. Hirsch et al. JAMA. 2001
- 3. Ambrosetti et al. Monaldi Arch Chest Dis. 2019

• Referrals from the Departments of Vascular Surgery & Vascular Medicine

nic	Design.	Implementation and Patient Outcomes	

nts	Patient Outcome Endpoints
sed on physician / /-up	 Number of patients initiated on DM GDMT Number of patients initiated on HTN GDMT Number of patients initiated on HLD GDMT Number of patients optimized on appropriate antithrombotic Subgroup analysis of rivaroxaban Bleednig rates Revascularization rates Patients initiated on smoking cessation medications Weight Reduction