

**Topic of Poster:** Education Innovation

**Title:** Documentation: The Key to Compliance with the STS/ACC TVT Registry™

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**Summative Statement:** Compliance with guidelines and regulations for care of patients undergoing Transcatheter Aortic Valve Replacement (TAVR) is essential. Documenting this compliance is of the utmost importance. This project focused on streamlining the documentation process to ensure all relevant data is documented in the patient record, therefore confirming guideline compliance.

### **Abstract**

**Background:** TAVR program implementation involves extensive preparation including compliance with guidelines and regulations set by the Centers for Medicare and Medicaid Services (CMS). These regulations include mandatory reporting of data to the Society of Thoracic Surgeons (STS)/American College of Cardiology (ACC) TVT Registry. Review of documentation at our institution identified significant gaps in data which initiated high priority repair of these practices.

**Methodology:** Review of documentation in TAVR cases included chart audits of pre and post procedure office visits, diagnostic tests, and both operative and in-patient notes. Inconsistencies in documentation led to incomplete data collection. Registry Site Manager and the TAVR Program Coordinator identified ways to ensure that appropriate documentation was completed during each interaction with the patient. Documentation templates were devised within the Electronic Medical Record to guide the physician and nursing staff, requiring that key data points be documented including: 1) Canadian Classification Scores, 2) New York Heart Association Class, 3) STS risk score, and 4) echocardiogram measurements. Instruction on use of the templates and a copy of the tool at each dictation station ensures compliance. Education was performed with nursing and technical staff regarding other crucial items such as Kansas City Cardiomyopathy Questionnaire, five meter walk test, rapid pacing time, and procedure pressure measurements to be consistently documented. Concurrent review of documents, with feedback given when identified, reinforces complete documentation and allows data collectors to hold staff accountable for proper documentation.

**Results:** Implementation of templates and education of staff for use of these tools:

- 1) Increases compliance of CMS and TVT documentation requirements
- 2) Reinforces complete and accurate data collection
- 3) Simplifies consistent documentation

<b>Pre and Post Procedure Documentation Completed</b>	<b>Pre- Template/ Staff Education</b>	<b>Post Template/ Staff Education</b>
<b>5 -minute Walk*</b>	<b>69%</b>	<b>97%</b>
<b>KCCQ</b>	<b>50%</b>	<b>100%</b>
<b>Aortic Valve Peak Velocity</b>	<b>92%</b>	<b>97%</b>
<b>Aortic Valve Area (echo)</b>	<b>89%</b>	<b>100%</b>
<b>Rapid Pacing Time</b>	<b>14%</b>	<b>100%</b>
<b>Post Implant Cardiac Output</b>	<b>89%</b>	<b>94%</b>

*\*excludes those documented as unable to walk*

<b>30 day Follow-up Documentation Completed</b>	<b>Pre- Template</b>	<b>Post - Template</b>
<b>5 Minute Walk*</b>	<b>57%</b>	<b>94%</b>
<b>KCCQ</b>	<b>65%</b>	<b>94%</b>
<b>Aortic Valve Mean Gradient</b>	<b>82%</b>	<b>90%</b>

*\*excludes those documented as unable to walk*

**Conclusions:** Development of templates has fostered comprehensive documentation of required data from initial assessment through the one year follow-up visit. Concurrent feedback ensures consistent utilization of created tools, assists with accountability, and allows for accurate data reporting to improve compliance with the TVT registry and CMS.

#### **Reference:**

Centers for Medicare and Medicaid Services. (May 1, 2012). Decision Memo for Transcatheter Aortic Valve Replacement (TAVR). In [www.CMS.gov](http://www.cms.gov). Retrieved February 3, 2014, from <http://www.cms.gov/medicare-coverage-database/details/nca-decision-memo.aspx?NCAId=257&ver=4&NcaNa>