

NSQIP-Pediatric Participation Aides in Decreasing Post-op SSI's



Laurie Etheridge, BSN, SCR
Vidant Medical Center

BACKGROUND

- 2004, American College of Surgeons (ACS) introduced the National Surgical Quality Improvement Program (NSQIP)
- Pre-op, Intra-op & Post-op data was collected and analyzed on select adult surgeries utilizing set algorithms
- NSQIP became the first nationally validated, outcome-based program to provide risk-adjusted data assisting with improving the quality of care across adult surgical specialties.
- Vidant Medical Center joined the pediatric version, ACS NSQIP-Pediatrics, in October of 2014.

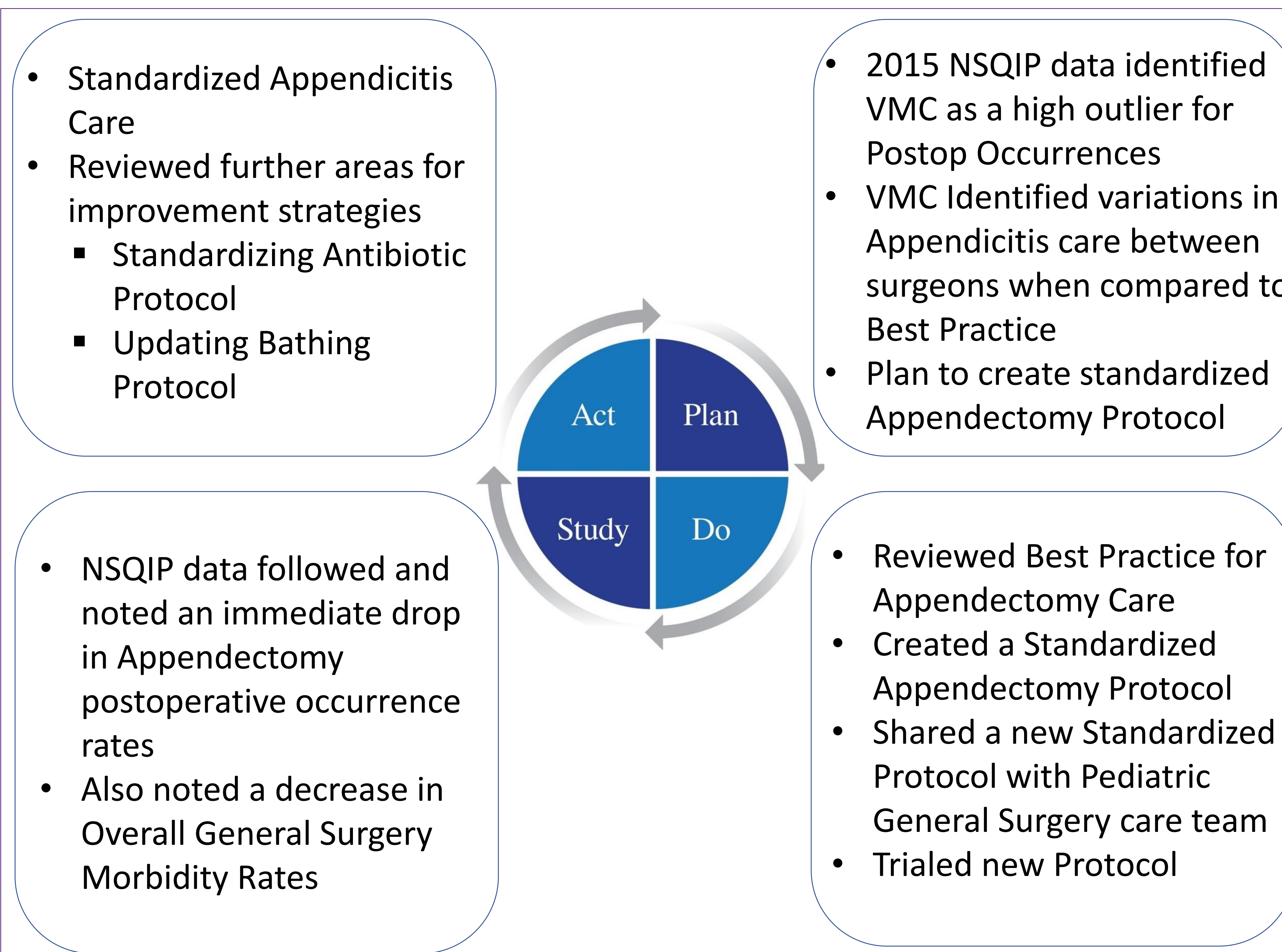
PROJECT AIM

A nationally recognized & validated surgical database would provide a vital tool in decreasing patient Postop Occurrences/complications.

PROJECT DESIGN/STRATEGY

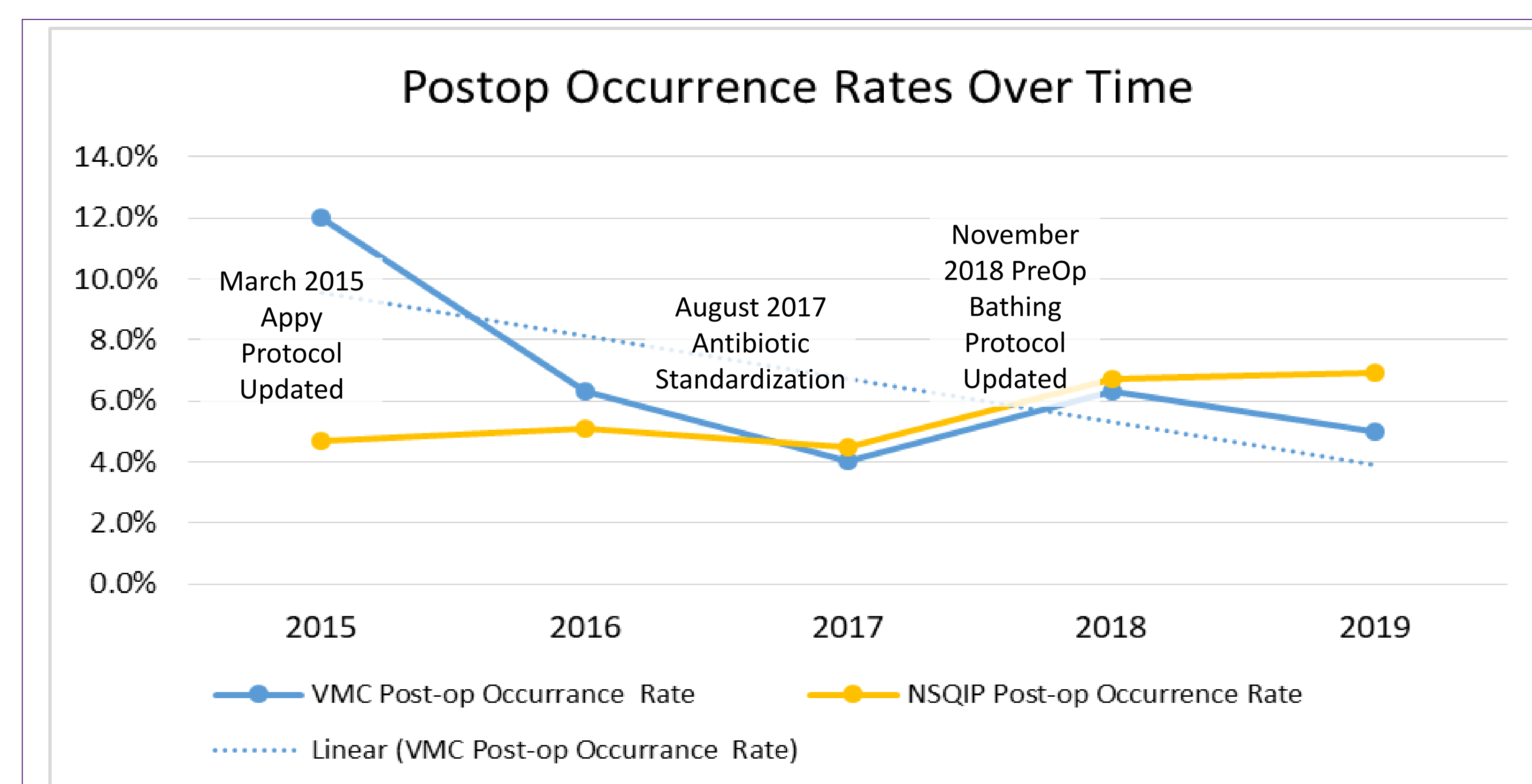
- A quality team including NSQIP Surgical Clinical Reviewers (SCR) and a pediatric surgical champion (SC) were developed with program initiation
- Peds surgery cases were gathered and abstracted per NSQIP-Pediatric standards
- Database reports and the ACS semi-annual report (SAR) were reviewed by the SCR & SC
- Real time communication occurred as needed for clarification and updates
- Quarterly update emails and bi-annual meetings were established to further enhance communication between SCR & SC
- Opportunities for improvement were identified through reports and SAR and shared with the Children's Quality Team

CHANGES MADE (PDSA CYCLES)



RESULTS/OUTCOMES

Subspecialties*	07/13-06/14	01/14-12/14	07/14-06/15	01/15-12/15	07/15-06/16	01/16-12/16	07/16-06/17	01/17-12/17	07/17-06/18	01/18-12/18
General Mortality		0.98	1.08	1.20	1.10	0.96	1.31	1.43	0.96	1.29
General Morbidity		1.53	2.02 H	2.04 H	1.90 H	1.29	1.27	1.65 H	1.58 H	1.23
General SSI		1.22	1.82 H	1.94 H	1.32	1.13	1.86 H	1.86 H	1.62	1.26



LESSONS LEARNED

- Nationally validated comparison data identifies areas for improvement assisting in process improvement strategies
- Access to non-risk-adjusted data provides real-time metrics of results post implementation of care changes
- Collaboration between surgery & patient care teams, identifies opportunity for multidisciplinary discussions thus increasing understanding of NSQIP data & engagement with needed changes
- Results can be applied to other areas/disciplines

NEXT STEPS

- Continued collaboration between surgery & patient care teams using NSQIP-Pediatric data
- Identify further opportunities through multidisciplinary discussions to improve patient outcomes
- Drill down postop occurrences to identify variances and best practice improvements

ACKNOWLEDGEMENTS

Elaine Henry MSN, Women's and Children's Hospital Quality Nurse Specialist
Dr. Danielle Walsh, Pediatric Surgeon, East Carolina University Brody School of Medicine

Laurie Etheridge, BSN, SCR
Surgical Case Reviewer NSQIP-Pediatrics
Corporate Quality Vidant Medical Center
Greenville, North Carolina 27858
252847-7536
leetheri@vidanthealth.com