

Development of Clinical Operating Guides (COGs) by the Clinical Variation Team at Jefferson Health

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Background

- **Problem Statement:** Variation in utilization and provision of care are associated with racial disparities in outcomes and overall survival. Hospital mergers represent an opportunity to reduce variation through collaboration and reduction in care variation. Jefferson Health has undergone multiple acquisitions and mergers, and opportunities exist to standardize processes and improve outcomes for high volume surgical procedures across the Enterprise.
- **Project AIM:** Create a multidisciplinary clinical variation team to develop Enterprise clinical operating guides (COGs) for high-volume surgical procedures with the goal of creating three COGs by June 2022 for use by all surgical care team members.

Baseline Metrics

- Three high-volume procedure groups targeted:
 - Appendectomy / Cholecystectomy (ACS / General Surgery)
 - Lobectomy (Thoracic)
 - Lower Extremity Bypass (Vascular)
- Multiple stakeholders engaged from four campuses:
 - Center City/Methodist
 - Jefferson Abington Hospital
 - Jefferson Northeast
 - Jefferson New Jersey
- Stakeholders included:
 - Surgical Attendings
 - Surgical Residents
 - Emergency Medicine Physicians
 - Nursing Staff
 - OR Staff
 - Quality and Safety Leadership
- Collaborative stakeholder meetings held within each specialty to identify clinical variation using a Guideline Decision Matrix. (**Figure 1**)

Guideline Decision Making Matrix

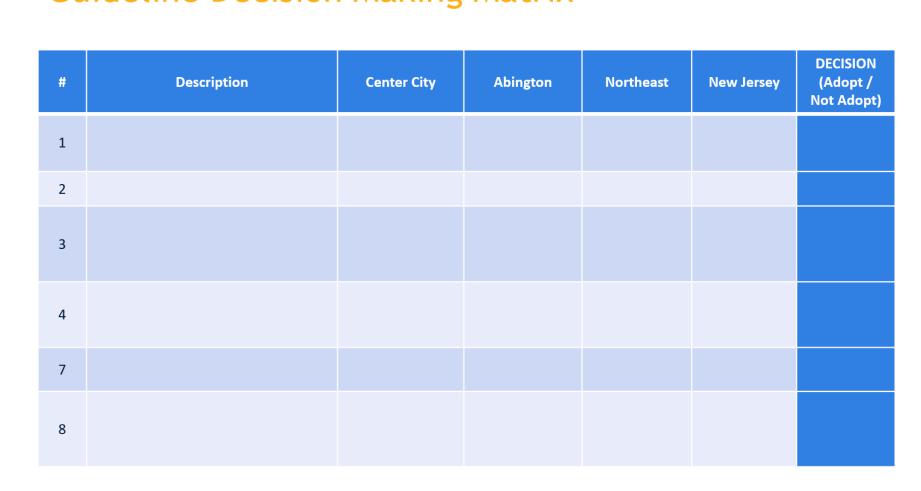


Figure 1. Guideline Decision Making Matrix

Interventions

• The PDSA cycle of the intervention is shown in the representative diagram below (**Figure 2**)

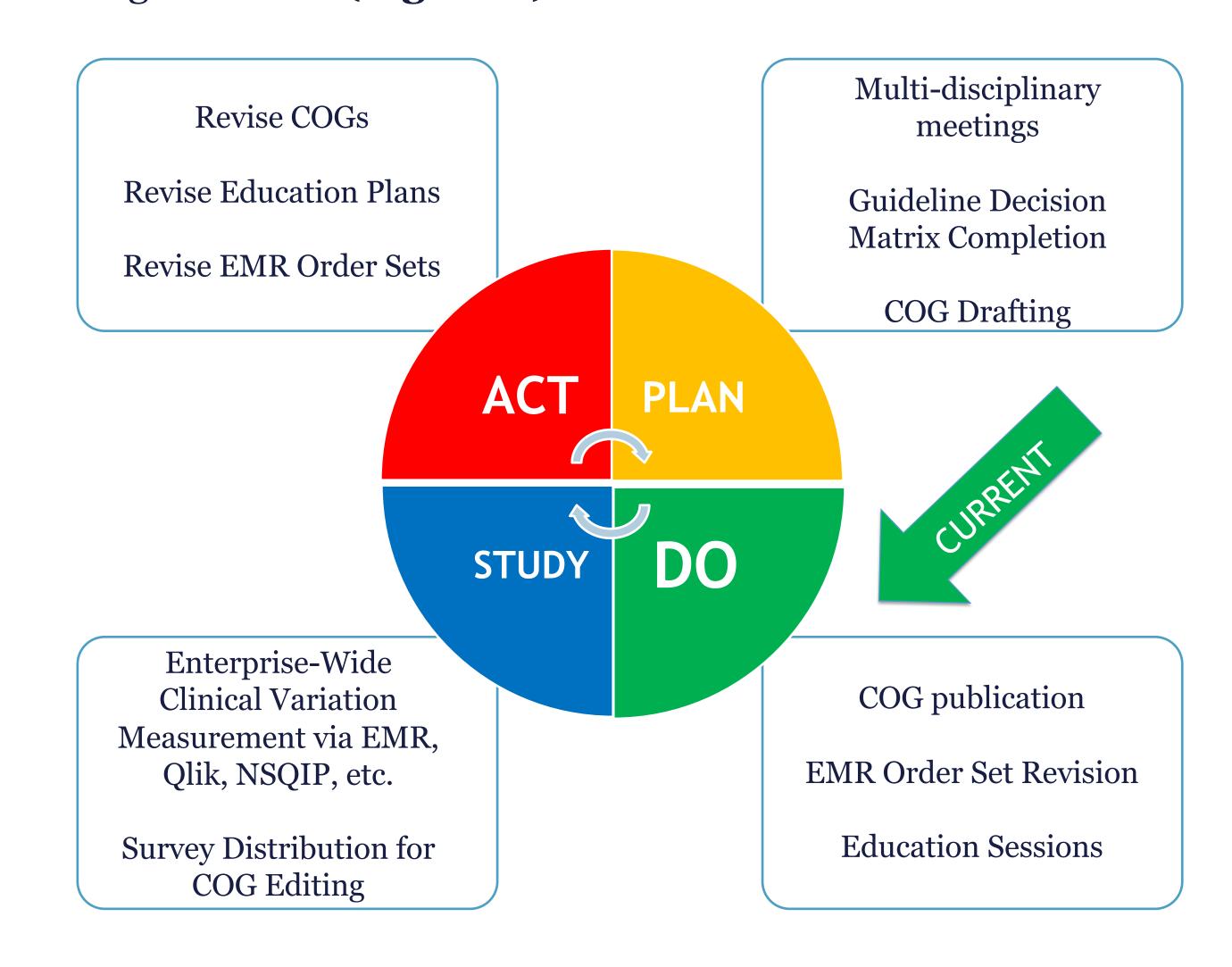


Figure 2. PDSA Cycle for Intervention

• Currently, three COGs have been drafted and published with educational sessions being implemented. A representative image of the appendectomy/cholecystectomy COG is shown below (**Figure 3**)

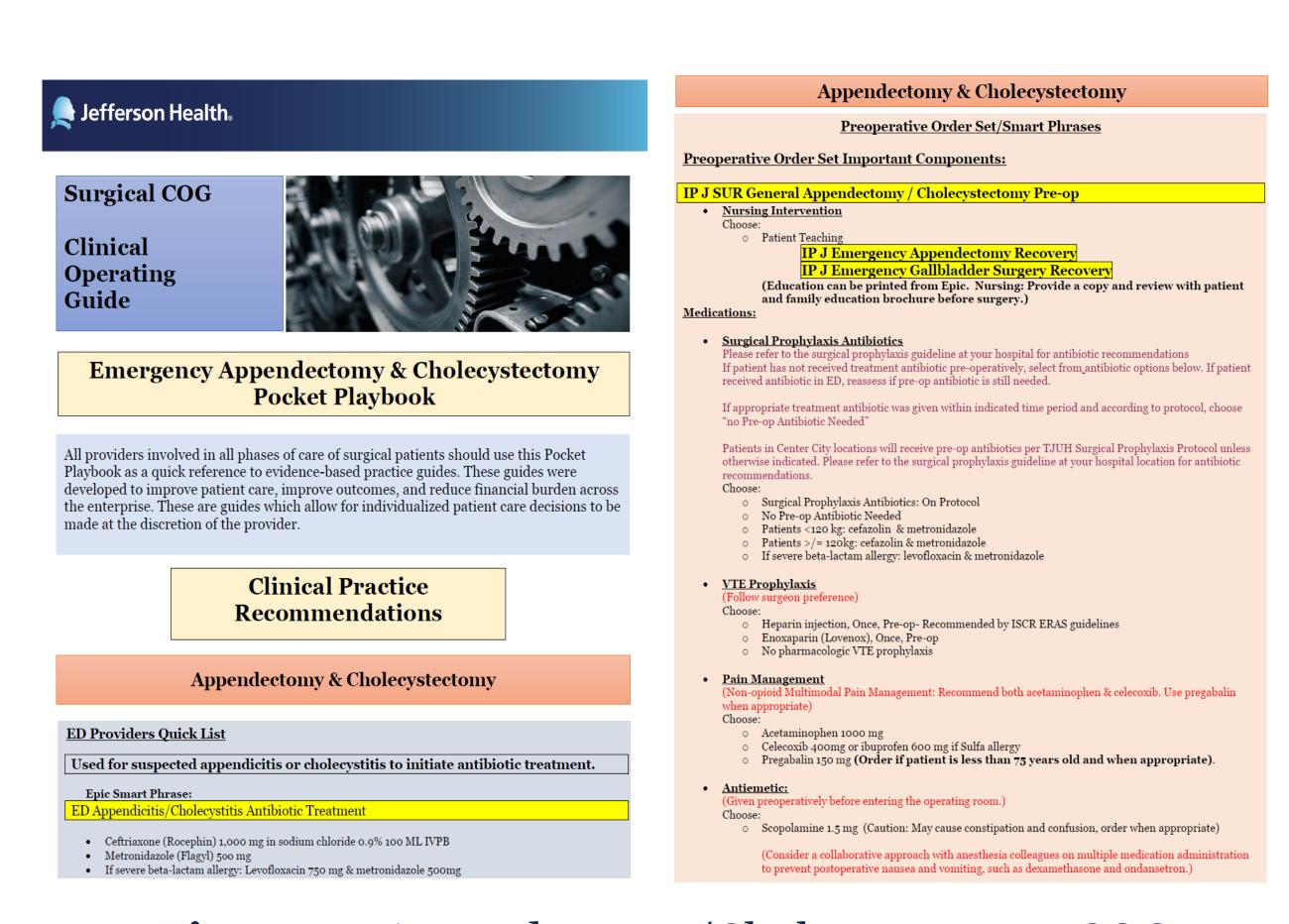


Figure 3. Appendectomy/Cholecystectomy COG

Challenges and Lessons Learned

- Agreement across all hospitals in a large health care system is difficult, but possible!
- Standardization of practices is essential to eliminate the possibility of disparate care
- Use of best evidence to guide decision making is critical
- Measuring compliance and analyzing outcomes will facilitate COG optimization

Future Directions

• Measure impact of standardization process on three target procedures utilizing OnPoint dashboard metrics (**Figure 4**)

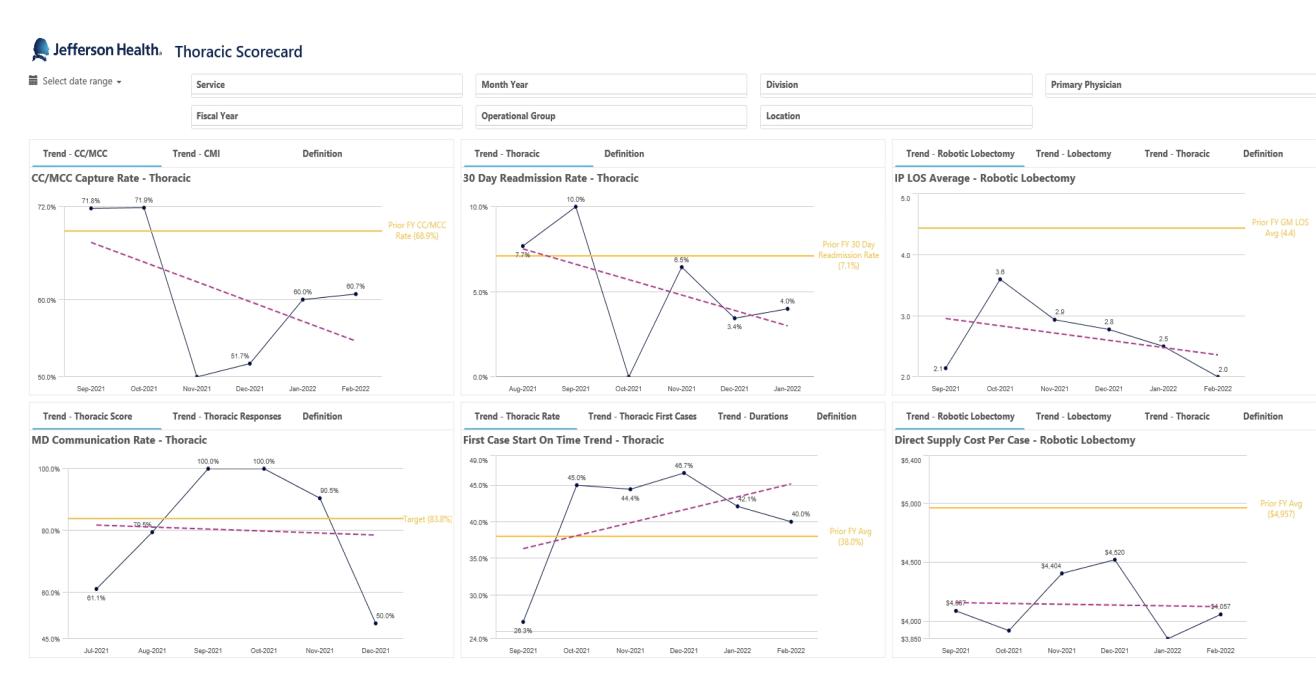


Figure 4. Example of an OnPoint dashboard for high-volume thoracic procedures

- Study and Revise 3 existing COGs
 - Continual process, COGs are living and breathing documents
- Generate COGs for other high-volume procedures in other departments

Linkage to Healthcare Disparities

- Standardization of care across a large hospital systems may address gaps in care provision and utilization in racially disparate population.
- Care pathways represent an opportunity to reduce these gaps and to provide optimal, evidence based care to all patients cared for in a large health system

References

- 1. Ferguson D. https://www.fiercehealthcare.com/healthcare/hospital-mergers-can-ultimately-benefit-patients-by-reducing-disparities-outcomes
- 2. Savitch et al. J Gastrointest Surg. 2021 Mar;25(3):581-592. doi: 10.1007/s11605-020-04653-z. Epub 2020 Jun 4.