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Background
Venous thromboembolism (VTE) is a leading cause of preventable morbidity and mortality after abdominopelvic cancer surgery. Adherence to guideline-recommended post-discharge VTE chemoprophylaxis remains low.1

Research Objectives
Illinois Surgical Quality Improvement Collaborative (ISQIC) implemented a post-discharge VTE process measure in 2016.

1. Evaluate post-discharge VTE chemoprophylaxis prescription adherence rates
2. Identify variation at the patient and hospital levels for the process measure

Methods
Multi-institutional Prospective Observational Cohort Study
- NSQIP database and ISQIC process-measure database

Inclusion criteria:
- Patients who underwent abdominopelvic resection for malignancy
- Surgery performed in the state of Illinois at an ISQIC enrolled hospital
- Surgeries performed by general surgeons, urologists, or gynecologists

Exclusion criteria:
- Outpatient surgery
- Patients with contraindications to prophylactic anticoagulation
- Patients who suffered inpatient death

Results
Overall, increase in adherence rates over the three phases

Post-Discharge VTE Adherence Rates

<table>
<thead>
<tr>
<th>Phase</th>
<th>Adherence Rate</th>
</tr>
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<tbody>
<tr>
<td>Pre</td>
<td>45%</td>
</tr>
<tr>
<td>Imple</td>
<td>55%</td>
</tr>
<tr>
<td>Post</td>
<td>65%</td>
</tr>
</tbody>
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Limitations
- No associations between patient demographic characteristics and passing the measure when adjusting for confounders
- More likely prescribed post-discharge chemoprophylaxis if underwent hepatopancreato-biliary or gynecologic surgery compared to colorectal surgery
- Significant hospital level variability

Conclusions
- Implementation of a post-discharge VTE QIP was associated with an increase in rate of process measure adherence
- Future work to focus on specific hospital-level differences and interventions

Limitations
- NSQIP contains hospitals participating in ISQIC or other quality improvement programs
- Implementation changed to optional mid-way through study
- Characteristics were not evaluated between time points, only across all 3 phases

References