

ASPIRE Collaborative

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Meredith Hall, M.D.

Bronson Battle Creek GLU-05

GLU-05

- Review GLU-05: (Escalated high glucose)
Percentage of cases with a blood glucose > 200mg/dL with documentation of insulin treatment
- Measure Time Period: Pre-op start through PACU end

GLU-05

- Inclusions:
 - All patients with a documented glucose level $>200\text{mg/dL}$
 - Patients with and without diabetes
- Exclusions:
 - ASA 5 and 6
 - Patients < 12 years
 - Measurements $> 200\text{mg/dL}$ within 90 mins before measure end
 - Outpatient cases < 4 hours long (anesthesia start to anesthesia stop)
 - OB non-operative procedures
 - Labor epidurals & Cesarean deliveries
 - A value of <200 within 90 min of a >200 excludes the >200
 - Values measured within 180 min of SQ insulin administration

GLU-05

- Responsible Provider

- Pre-op: First provider signed into the case

- Intra-op: Provider signed in at the first glucose recheck or first administration of insulin

- Post-op: Last provider signed into case

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- Glucose management has been a focus at BBC for a few years, primarily with Ortho PI
- Glucose management order sets used prior to participation in ASPIRE
- Currently 83% compliance with measure

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- Current Peri-op order set:
 - Insulin R (Humulin/Novolin R) IV push 2-5 U prn
 - May give up to every 1 hour:
 - POC Glucose 180 to 250 2 units
 - POC Glucose 250 to 300 3 units
 - POC Glucose 300 to 350 4 units
 - POC Glucose 350 to 400 4 units

*Notify anesthesia for glucose more than 400 or less than 70.

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- Smaller, private practice (6 anesthesiologists, 24 CRNAs)
- Staff all familiar/reminded of ASPIRE and goals
- Anesthesia/Nursing staff education and adherence imperative
- Personal follow-up with staff if a pattern found
- With a low denominator, even a couple of failed cases per month has a big impact on the overall score.