

Peri-Operative Diabetic Patient Management Guidelines

The Medical Executive Committee has approved guidelines for the management of diabetic patients undergoing surgeries which require dietary restrictions. In collaboration with the anesthesia, endocrinology, and various surgeons and primary care physicians, the guidelines were developed to improve the consistency of pre-operative instructions and enhance the safety of diabetics patients undergoing procedures. The guidelines will be available on ERNIE for reference for physicians performing pre-operative evaluations and will be developed into Cerner order sets in the future. Beginning August 13, the Access center will utilize these guidelines as part of the Anesthesia pre-operative recommendations for those patients who have not received prior pre-operative diabetic medication instructions by their primary care physician or endocrinologist. Additionally, the guidelines establish glucose monitoring procedures during the peri-operative process.

Recommend insulin dependent diabetic patients be scheduled for surgery prior to 10am if possible

AM Surgical Admission - Surgery before 12pm

Patient Instructions Day prior to procedure

- Follow anesthesia guidelines regarding NPO/clear liquids prior to procedure
- Do not take metformin, sulfonylureas day prior to procedure (24 hours)
- May take usual mealtime insulin doses with evening meal prior to procedure
- Do not take bedtime doses of Novolog, Humalog, Apidra, regular insulin,
- **Administer 70% of routine dose of long acting insulin Lantus, Levimir, NPH;** If patient takes an insulin mix at bedtime, consult physician for dosing
- Monitor glucose as usual and treat low blood glucose per current regimen; if NPO treat low blood sugar with a clear sugar containing liquid (7up, etc), oral glucose tab, etc

Patient Instructions Morning of procedure

- Do not take any oral hypoglycemics on day of procedure
- Do not take any non-insulin injectable anti-diabetic agents day of procedure (Byetta, etc)
- Do not take morning insulin doses (will administer at hospital)

Pre-Op Orders (requires physician's order):

- Notify physician with PREOP POC glucose result for further orders
- Start IV insulin infusion protocol (consider if procedure > 3hr or NPO expected for 1-2 days post-operatively)
- Lantus _____ units SQ x1 dose
 - ✓ recommend 70% of usual morning insulin dose - **only for patients receiving daily morning dosing of insulin & no insulin received evening/bedtime prior day**
- Medium dose sliding scale insulin to be used to supplement basal insulin
- D5W 125 ml/hr if PREOP POC glucose < 100mg/dL
- Hypoglycemia protocol

AM Surgical Admissions - Surgery after 12pm

Patient Instructions Day prior to procedure – same as above

Patient Instructions Morning of procedure-

- Do not take any oral hypoglycemics on day of procedure
- Do not take any non-insulin injectable anti-diabetic agents day of procedure (Byetta, etc)
- Do not take **morning** doses of Novolog, Humalog, Apidra, regular insulin, NPH, Novolog 70/30, Humalog 75/25 insulin
- **If patient to receive routine morning dosing of Lantus or Levimir, administer 50% of routine dose**
- Monitor glucose q2h & treat low blood glucose per current regimen if NPO with clear sugar containing liquid (7up), glucose tab, etc

Pre-op Orders (requires physician's order):

- Notify physician with PREOP POC glucose result for further orders
- Start IV insulin infusion protocol (consider if procedure > 3hr or NPO expected for 1-2 days post-operatively)
- Lantus _____ units SQ x1 dose
- Medium dose sliding scale insulin to be used to supplement basal insulin
- D5W 125 ml/hr if PREOP POC glucose < 100mg/dL
- Hypoglycemia protocol

For all Diabetic Patients - Glucose Monitoring

- POC glucose in Pre-op and on admission to Post-op.
 - POC glucose q2h in pre-op or post-op if stay longer than two hours
 - POC glucose q2h intra-op
- ✓ *Patients with SC insulin pumps to receive general anesthesia should have their pump discontinued in pre-op and the IV insulin infusion started while in the OR.*