

Surgical Guidelines for Children with Diabetes on an Insulin Pump

One Week before Surgery:

- Call the diabetes team
 - Report blood sugars so changes can be made, if needed.
 - Verify with the diabetes team that a plastic infusion set is being used.
- Pumps can and should be left on during surgery. Call the surgery center to decide where to put the site.
 - An insulin drip can be used during surgery if needed. Discuss this with the Surgery team.

Contact us:

Diabetes office:
501-364-1430

After Hours Emergency:
501-364-1100

Day before Surgery:

- Place a new site early in the day. Must be a plastic infusion set.
 - Write down all blood sugars after site change. Must have 2 normal blood sugars. Re-site if needed.
 - Continue normal basal rate.
- Bring diabetes supplies to the hospital. This includes: insulin, glucometer, lancets, test strips, insulin pump, pump supplies, and glucagon emergency kit.

Night before Surgery:

- Check the blood sugar at 11:45 pm the night before surgery and write it down.
 - Blood sugar < 80 treat with the Rule of 15 (like normal).
 - Remember: a 15 gram snack with carbs + protein should be given after.
 - Blood sugar >240 check for ketones. If ketones are positive, give ½ of a normal correction dose. Do not give insulin if there are no ketones.

Morning of Surgery:

- Write down all blood sugar readings, the time and any interventions taken. The surgery team will need to know these numbers.
- Check the blood sugar **2.5 hours** before surgery start time. (If the patient wakes up before this, just check the blood sugar. Do not give insulin).
 - All children with a blood sugar <80 should be treated with 4 ounces of apple juice or sprite. Check blood sugar every 15 minutes until over 100.
 - If blood sugar is still low after 2 treatments, eat food to bring blood sugar up. Call the surgery center to reschedule surgery.
 - Children less than 6 years old:
 - Blood sugar 80-250: go to surgery center.
 - Blood sugar >250: check ketones.
 - Moderate or large ketones-give a full correction dose. Call the surgery center to reschedule surgery.
 - Trace or small ketones-give half of a correction dose. Drink 8oz of water and recheck ketones and blood sugar in one hour.
 - No ketones-give half of a correction dose. Recheck blood sugar in 30 minutes.

- Children 6 years or older:
 - Blood sugar 80-200: go to surgery center.
 - Blood sugar >200: check ketones
 - Moderate or large ketones-give a full correction dose. Call the surgery center to reschedule surgery.
 - Trace or small ketones-give half of a correction dose. Drink 8oz of water and recheck ketones in one hour.
 - No ketones-give half of a correction dose. Recheck blood sugar in 30 minutes.

After Surgery:

- Blood sugar and ketones should be checked every 1-2 hours after surgery.