

Labour protocol for: **Type 1 Diabetes Patients**

Start protocol when either active labour starts, or if NPO or if scheduled for cesarian delivery at 0600 hr on day of cesarian delivery. Commence following infusions:

Glucose infusion: I.V. Dextrose 10% at 50 mls/hour with 10 mEq KCl/500 ml D₁₀W

Insulin infusion: I.V. Insulin 50 Units Regular in 500 mls NaCl (N),
i.e. 1 Unit = 10 mls

Flush tubing and start at 10 mls/hour unless glucose \leq 4mmol/L

If glucose \leq 4mmol/L then just start with glucose infusion alone and hold insulin infusion.

Adjustments

Capillary glucoses values are determined hourly and at each hourly determination use the following adjustment scale for the IV insulin infusion (IV ins infusion) as in Section A.

If glucose falls by more than 2 mmol/L in one hour go to Section B.

Section A If glucose is:

- \leq 3.0 mmol/L stop the IV insulin infusion for 1 hour and increase the D₁₀W to 100 ml/hr
- 3.1 - 3.5 mmol/L decrease IV ins infusion by 10 mls/hour, increase the D₁₀W to 75 ml/hr
- 3.6 - 4.0 mmol/L decrease IV ins infusion by 5 mls/hour
- 4.1 - 6.0 mmol/L leave at the same insulin infusion rate
- 6.1 - 7.0 mmol/L increase IV ins infusion by 5 mls/hour
- 7.1 - 8.5 mmol/L increase IV ins infusion by 10 mls/hour
- 8.6 - 10 mmol/L increase IV ins infusion by 15 mls/hour
- 10.1 – 12 mmol/L increase IV ins infusion by 20 mls/hour
- > 12 mmol/L increase IV ins infusion by 20 mls/hour, stop glucose infusion for one hour

Section B

If glucose falls by greater than 2 mmol/L in 1 hour and is now

\geq 5.1 mmol/L decrease IV insulin infusion rate to 10 mls/hour

\leq 5.0 mmol/L Stop IV insulin infusion

Anytime insulin infusion is stopped and glucose rises > 4.5 mmol/L, restart insulin at 5 ml/hour

POSTPARTUM Type 1:

1. Stop the insulin infusion when the placenta is delivered.
2. Continue IV glucose until patient is eating/drinking and then D/C. If post cesarian delivery please use orders for Type 1 diabetes post cesarian delivery.
3. Monitor glucose 2 hourly x 2, then 4 hourly x 2 and finally premeals and bedtime.
4. Restart subcutaneous insulin when eating or if glucose rises > 10.0 mmol/L as follows

Breakfast: Lunch: Supper: Bedtime:

Date: _____

Signed: _____