Intrapartum/Postpartum Management with Insulin Pump Therapy

PATIENT INSTRUCTIONS

NHI	WARD	
SURNAME		
FIRST NAME		
GENDER DOB	AGE	
(or affix patient label)		

If diabetes is stable (blood glucose 4-7 mmol/L) and you can manage the insulin pump you may continue with insulin pump therapy during labour and delivery.

- Ensure the insulin pump infusion set is situated away from the abdominal area, towards the back, to avoid potential LSCS site and the area to be cleansed.
- Ensure the insulin pump has new batteries/fully charged, a full reservoir/cartridge, and that a new cannula and infusion set has been sited. It is advisable to have adequate insulin pump supplies.

Plan during labour, morning of planned caesarean section or when nil by mouth for emergency caesarean section

- Check glucose hourly (sensor glucose can be used, if outside target check finger prick blood glucose (BGL) before action. Also check BGL 4-hourly even if sensor glucose remains in target.
- Aim blood glucose between 4-7 mmol/L.
- If glucose level above 7 mmol/L give a bolus correction dose via the insulin pump. (Set target glucose 5mmol/L)

Recheck glucose after 1 hour:

- If glucose 7.1-10.0 mmol/L give a second correction bolus and repeat test in one hour.
 - If glucose > 10 mmol/L give second correction dose and recheck in 30 minutes.
- If glucose 7.1-10 mmol/L prior to the second dose, and still in the same range after 1 hour give a third correction dose.

Recheck in 30 minutes:

- If not improved to 4-7mmol/L you will need IV insulin infusion as per maternity guidelines.
- If BGL remains >10 mmol/L after second correction dose an IV insulin infusion will be required.
- If BGL >10 mmol/L prior to the second dose recheck after 30 minutes. If BGL still not below 7.0 mmol/L then you will need to switch to IV insulin infusion and stop the insulin pump.

Management of hypoglycaemia

- Blood glucose less than 4.0 mmol/L treat as per your usual hypoglycaemia treatment, eg. 10-15g carbohydrate.
- If you have more than one hypoglycaemic event, reduce the basal rate by 50% using a Temporary Basal Rate (TBR) setting. Continue the reduced basal rate till delivery.

After delivery basal rate

- Save a profile for use after delivery. This is either 80% of pre-pregnancy rate or 50% reduction of final basal rate prior to delivery.
- If profile is not set, you or your partner should reduce the basal rate by 50% immediately after delivery.
- Aim for target glucose of 6-10 mmol/L (6-15 mmol/L acceptable).
- If breastfeeding, this rate may need reducing by a further 20%.

Time (hours)	Pre-pregnancy basal rate	Suggested post-pregnancy rate (80% pre-pregnancy rate)
0000		
0600		
1200		
1800		
2200		

OR

Time (hours)	Current pregnancy basal rate	Suggested post-pregnancy rate (50% current rate)
0000		
0600		
1200		
1800		
2200		

After delivery Bolus and Insulin Sensitivity Factor (ISF)

(Default: bolus 1:10-1:15 g; ISF 1: 3 or 4 mmol/L)

	Pre-pregnancy	Suggested
Bolus		
ISF		

Checklist for labour ward bag for women using diabetes technology

- 1. Hypoglycaemia treatment of your choice
- 2. Carbohydrate and non-carbohydrate snacks
- 3. Glucose meter and strips
- 4. Spare sets of batteries x2 or charger
- 5. Reservoirs/cartridges x2
- 6. Infusion sets (including lines) x5 and inserter device (if applicable)
- 7. Insulin syringes x10
- 8. Vial of long-acting insulin or pen

For sensor users

- 9. Spare sensor and inserter device
- 10. Transmitter charger (if applicable)
- 11. Reader/receiver/phone charger

For more information about:

hospital and specialist services, go to www.cdhb.health.nz | your health and medication, go to www.healthinfo.org.nz