

Back Up!

When things go wrong with your pump

Back up Kit

- If your pump fails you must have back up fast (*NovoRapid/Humalog/Apidra*) & long acting (*Lantus/Levemir*) insulin plus an insulin pen or syringes. Keep these on your repeat prescription.
- Insulin syringes can be easily carried around and used to draw up insulin from your vial or pump cartridge.
- Ketone test strips – in date! (urine or meter)
- Spare Infusion sets & cannulas
- Spare batteries



Keep a record of.....

Total Daily Basal Dose

Bolus & Correction dose ratios

You will need this information if you have to go back to using a pen or to programme a new pump.

Company Careline numbers, UK & abroad

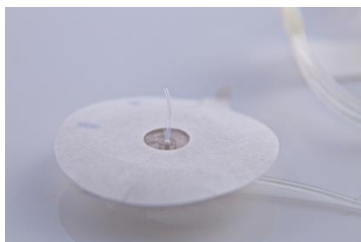
Roche 08007312291

Medtronic 01923205167

Animas 08000556606

Spare holiday pumps are sometimes available from BDEC (Roche) or directly from Medtronic

Possible Problems



Check cannula after removal

Is it bent? Is there any blood?
These can explain problems with high blood glucose levels



Air bubbles

Check cartridge & tubing on waking & before bed or if you have unexpected high glucose levels.

Look for long 'sausage shaped bubbles in tubing.

Prime tubing to remove them.

Keep pump upright and be **disconnected** when priming bubbles out



Moisture in cartridge chamber?

- ☐ Remove cartridge
- ☐ Have piston rod ½ way up chamber (do this by changing cartridge & set volume to 150mls)
- ☐ Rinse with tsp clean water
- ☐ Let dry out completely using tissue or hairdryer on cool/gentle blow

Wear pump upside down to keep any bubbles at top of cartridge

Managing Hyperglycaemia in Pump Therapy – Remember **ABCC**

A Assessment

BG level ->14mmols – consider whether:

It is unexpected
You are feeling unwell
The test is after 3hours from last meal

Action required

Assess for Ketones
Assess infusion set /site and cannula, any soreness, blood in cannula, tubing, cannula bent or misplaced

B Bolus

Ketones present >1.5mmols blood or 2++ in urine

Give DOUBLE correction dose via injection (pen or syringe)

Give usual calculated food boluses

Can use bolus advisor – log as injection on pump system.

Drink plenty of water or sugar free fluid – e.g. cup water every 15mins

No Ketones

Continue to give normal correction doses via pump

Can use bolus advisor as usual

C Change

Change Cannula & infusion set if bolus insulin dose not reducing glucose levels.

Consider switch to insulin pen injections if pump boluses do not appear to be correcting blood glucose levels

C Check

Repeat blood glucose tests & ketone tests **every 1-2hours**

Continue with, **DOUBLE correction doses & extra fluids if ketones still present**

Inform diabetes nurse specialist or doctor

No Ketones

Continue to give normal correction doses via pump, using bolus advisor as usual until blood glucose levels return to target

Do not go to bed until levels have improved.

CONTACT GP or A&E IF VOMITING OCCURS

In case of pump failure revert to pen therapy.

Use bolus advisor still for meal boluses.

Give background insulin (Lantus/Levemir) at a dose the same as your pump total daily basal rate [.....units]