NHS
York and Scarborough Teaching Hospitals
NHS Foundation Trust

Managing High Glucose Levels on Insulin Pump Therapy

Blood glucose ABOVE 13mmol/L
CHECK BLOOD KETONES

Blood ketones **LESS THAN** 0.6mmol/L

Blood ketones **MORE THAN** 0.6mmol/L

Sip sugar-free fluids (at least 100mL per hour)

Give correction via **pump**

Check blood glucose & ketones **2 hours** later

If blood glucose still **above 13mmol/L** give **2nd correction dose use a syringe/pen (not your pump)**

Change cannula/tubing/insulin cartridge/reservoir/pod

Recheck blood glucose **2 hours** later, ensure responding to correction

Always consider a cannula problem.

IF IN DOUBT CHANGE THE SET

If you are vomiting, unable to keep fluids down or unable to control your blood glucose or ketone levels, you must contact your hospital as an emergency.

Give **double correction** bolus – administer with a **pen or syringe**

Look for **cause** of high glucose- **change cannula/tubing/insulin cartridge/reservoir/pod**

Recheck blood glucose and ketones in **2 hours**

No ketones

If blood glucose is **above 11mmol/L give usual correction on pump.**

Then use usual correction as for no ketones

Ketones still present

Double usual correction dose and again give through **pen / syringe.**

Only repeat 1 more time – if no improvement seek medical advice as a matter of urgency