DAFNE®

Large ketones management plan

DAFNE Closed Loops

Blood glucose more than 15.0 mmol/L and not responding to bolus corrections?
OR blood glucose within target or above target range and you feel unwell?
(check sensor glucose matches blood glucose)
Check for ketones

Ketones 1.5 to 3.0 mmol/L.
Significant ketones present
Severe illness

Ketones over 3.0 mmol/L
Significant ketones present
Severe illness

Large ketones: Exit closed loop automated mode

Calculate your 'typical' total daily dose (TDD) and work out **10% TDD**

Calculate your 'typical' total daily dose (TDD) and work out **20% TDD**

Give **10% of TDD** as quick acting insulin using a pen.
Change pod or change cannula, infusion set, reservoir and insulin.
Prime and restart pump
DO NOT RESTART CLOSED LOOP AUTOMATED MODE

Give **20% of TDD** as quick acting insulin using a pen.
Change pod or change cannula, infusion set, reservoir and insulin.
Prime and restart pump.
DO NOT RESTART CLOSED LOOP AUTOMATED MODE

Check blood glucose and ketones every 2 hours. Use your pump to bolus insulin.

Sip sugar free fluids (at least 100 ml / hour)

Ketones 1.5 to 3.0 mmol/L?

Ketones over 3.0 mmol/L?

Give **10% TDD** as a bolus every 2 hours.
(override the bolus calculator).
Give usual ratio if eating carbs.
Increase basal insulin by 30% using a temporary basal rate

Give **20% TDD** as a bolus every 2 hours.
(override the bolus calculator).
Give usual ratio if eating carbs.
Increase basal insulin by 50% using a temporary basal rate

If you vomit, are unable to keep fluids down, or are unable to manage your blood glucose or ketones after 12 to 24 hours you must go to hospital as an emergency.
You must never suspend / stop your pump

If ketones fall below 1.5 mmol/L, switch back to closed loop automated mode and follow the trace ketones management plan.

Adapted from Diabetes Technology Network (DTN) Hybrid Closed Loop (HCL) system: Information Leaflet (2023)