

## DIABETES MANAGEMENT PLAN 2018

### APPENDIX FOR CONTINUOUS GLUCOSE MONITORING (CGM)

☐ MiniLink      ☐ Guardian 2 Link

Name of student: \_\_\_\_\_ Date of birth: \_\_\_\_\_

Name of school: \_\_\_\_\_ Grade/Year: \_\_\_\_\_

#### GENERAL INFORMATION:

Students may come to school with a continuous glucose monitoring (CGM) device.

This technology is to support students and parents/carers and will be managed by parents/carers. Teachers and school staff are not expected to do more than the current routine diabetes care.

**CGM provides information about trends in glucose levels but it will not affect the care activities indicated in the Diabetes School Action and Management plans.**

It is not necessary for staff to put CGM displays on their computer, smart phone, and other electronic devices or carry receivers. While these devices provide additional information on glucose values and trends, they are not compulsory management tools.

CGM consists of a small sensor that sits under the skin and measures glucose levels in the fluid surrounding the cells (interstitial fluid), and transmitter (pictured below) which sends data to a receiver. The receiver used is the display screen of a Medtronic insulin pump.

**Sensor**

**Transmitter**



**Insulin pump receiver**



If the receiver is more than ~ 2 meters from the transmitter, connection to the receiver will be lost. The information will be stored in the transmitter and downloaded when connection is restored.

It is the student's responsibility to carry the receiver when at school. CGM can be programmed to alarm if glucose levels go below set levels, so that action may be taken.

#### USE IN SCHOOL SETTING

CGM **DOES NOT** replace a finger prick **blood glucose check**.

A blood glucose finger prick check should be performed

- To confirm hypoglycaemia (<4.0 mmol/L)
- If the student is planning to administer insulin as a bolus (either injection or insulin pump)
- Before lunch, or as additionally indicated on Management Plan
- Before physical activity
- Any time a child feels unwell

## CGM ALARMS

**CGM alarms may be 'on' or 'off' and should be used conservatively so they do not disrupt the student's learning and school activities.**

If 'on' the CGM will alarm if interstitial glucose is  $< 4.0\text{mmol/L}$ . **ACTION** → Check finger prick blood glucose level (BGL) and if BGL is  $< 4.0\text{mmol/L}$ , treat per Diabetes Action Plan.

**Alerts for high glucose level or in response to changing glucose trends are not recommended at school.**

## LOW GLUCOSE SUSPEND (LGS) FOR MEDTRONIC 554/754 OR 640G PUMPS

Certain pumps may be programmed to **stop** insulin delivery, if the sensor glucose is predicted to become hypoglycaemic, or is actually recorded as hypoglycaemic. **The alert for *predicted* low glucose is not recommended to be activated at school. The alert on actual low glucose will be active.**

Required Action for **Suspend on Low** alert → Check finger prick BGL.

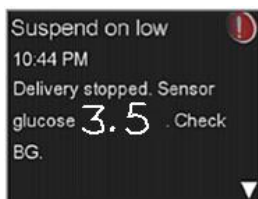
If BGL  $< 4.0\text{ mmol/L}$ . Treat hypo as per Action plan (do not bolus for this). Resume pump manually.

If BGL  $\geq 4.0\text{ mmol/L}$ . Pump will automatically resume when sensor glucose rises. If food bolus is required (e.g. snack or lunch) then you will need to resume pump manually for this food bolus to occur.

## STUDENT ABILITIES / SKILLS. THEY ARE ABLE TO DO THE FOLLOWING INDEPENDENTLY

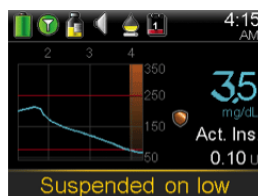
Resume basal insulin if suspended due to low. If 'no' please see guide to resume basal below	<input type="checkbox"/> Yes <input type="checkbox"/> No
Troubleshoot alarms and malfunctions. If "no", contact parents/carers for advice. If parents/carer not available or sensor comes out, continue with routine diabetes care	<input type="checkbox"/> Yes <input type="checkbox"/> No

## RESUMING INSULIN MANUALLY AFTER LOW GLUCOSE SUSPEND (LGS)



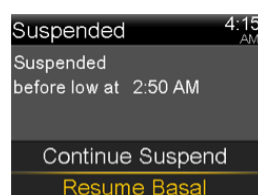
**Suspended on Low** screen.

- Press '**down**' arrow on pump to clear alert message



After the **Suspend on low** alert message is cleared, the screen will display:

- **Suspended on low** at the bottom of the screen in yellow print
- To resume insulin delivery, select **Suspended on low**



- Press '**down**' arrow. Highlight **Resume Basal**
- Press **Right to Yes** and press **Select**

Meal bolusing can now occur

**ADDITIONAL INFORMATION:**

- A parent/carer is responsible for changing the CGM site and setting the alarms
- The sensor can remain on the student during water activities
- Diabetes management continues as per School Action and Management Plan
- If the transmitter/sensor attached to the student falls out, school staff are requested to keep it in a safe place, to either be taken home by the student or collected by the parents/carers
- **Parents /carers are the primary contact for any questions regarding CGM use**

<b>Parent/Carer:</b>		<b>Signature:</b>	<b>Date:</b>
<b>Principal:</b>		<b>Signature:</b>	<b>Date:</b>
<b>Treating Medical Team:</b>		<b>Signature:</b>	<b>Date:</b>