Diabetes Mar School:	nagement Plan	(DMP) – Insu l	lin Pump	
First name:	Last name:	Date of birth (D/N	I/Y): School Year:	_
Targe	t range for glucos	e is 4.0 - 8.0 m	mol/L	Click to add photo
NEVER LI	EAVE ALONE IF UNWI	ELL. TREAT ON T	HE SPOT.	Contact 1:
	FORING schedule, monitoring of glu nt is unwell or if there is a c		es should be	Contact 2: PCH Clinic: 6456 1111
DAILY SCHEDUL	E // PLEASE GIVE INSULI	N: MINUTES BEF	ORE FOOD.	
Time Meal	Glucose Check	c Insulin	Action	Responsible Person
	to be confirmed by // Glucose less than 4.0	mmol/L // DO NOT	DELAY TREATMENT	// TREAT ON THE SPOT
Symptoms: Fee	ing sick Pale Head	lache Shaky	Sweaty Drowsy	Unusual behaviour
Student Conscious (Able to eat hypo food)	ose 2.0-3.9. ose less 2.0, pend pump. page 3. STEP 1: G fast acting	carbs: If Glucos Less tha step 1.	Recheck glucose mins e: In 4.0, repeat ore, proceed.	Original glucose 2.0-3.9: No further action. Original glucose less than 2.0: Give sustaining carbs, resume pump.
Student Drowsy / Unconscious (Unable to swallow), suspend pump.	FIRST AID DRS ABCD	CALL AN AMBULANCE DIAL 000		CONTACT PARENT VHEN SAFE. Vhen student conscious/ llert, follow above steps.
	'/ Glucose 15.0 mmol/L or a ing sick Thirsty Inc	bove Check Pump-S		DETAILED MANAGEMENT PLAN Irritable Lethargic
Student Well Unexplained high glucose Check Pump-Site	At next scheduled		stricted	AT NEXT GLUCOSE CHECK If glucose remains 15.0 mmol/L or above, CHECK KETONES. Check pump site
Student Unwell Unexplained high glucose with cramps or vomiting.Check Pur			. or above, 🛛 🔁	f unable to contact parent, CALL AN AMBULANCE DIAL 000

PHYSICAL ACTIVITY

4.0 - 5.0 mmol/L	5.1 - 8.0 mmol/L
------------------	------------------

Once above 5.0 mmol/L exercise can start.

Exercise can be started.

8.1 - 14.9 mmol/L

No action required. Exercise can be started. 15.0 mmol/L or above

CHECK BLOOD KETONE LEVELS

Ketones less than 0.6 mmol/L Exercise can start. Ketones 0.6 mmol/L or above CONTACT PARENT

AUTHORITY TO ACT // SCHOOL STAFF WHO HAVE COMPLETED DIABETES IN SCHOOLS LEVEL 3 TRAINING

Name	Role	Contact Number	Level 3 Training Date
Perth Children's Hospital Trainer:	Date:	Digital Signature:	

REVIEW DATE:

This diabetes management and safety plan authorises school staff to follow this advice and that of the medical team. School staff are not expected to manage a student's diabetes as comprehensively as at home. This plan is sanctioned as being safe and reasonable. It is valid for one year or until the school is advised of a change to the student's health care requirements.

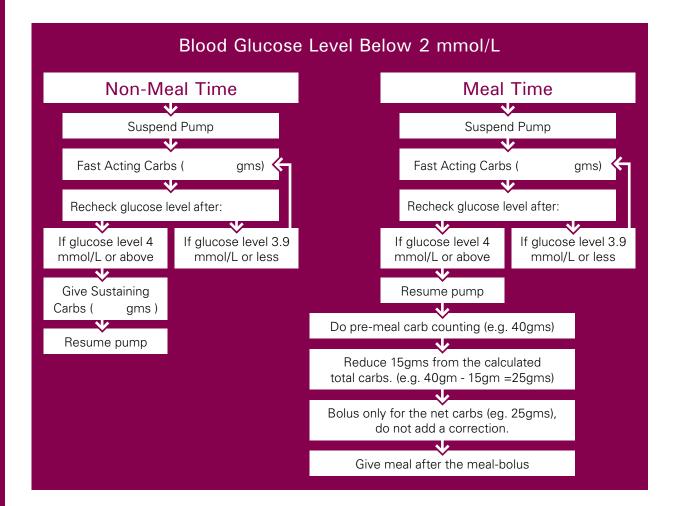




National Diabetes Services Scheme An Australian Government Initiative

HYPO MANAGEMENT - INSULIN PUMP

The below plan is to be used if the student's glucose level is below 2mmol/L. In this instance the insulin pump needs to be suspended.



Page 3 of 13





INSULIN PUMP

The student wears an insulin pump that continually delivers insulin.					
Insulin pump mod	el:				
Hybrid Closed Loop Pump – Refer to Appendix for further details.					
Basal IQ					
Control IQ					
Is staff involvement required for pump button pushing?			Yes	No	
If yes, the responsible staff need to:					
Remind	Observe	Assist	Perform		

STUDENT INSULIN PUMP SKILLS

Able to independently count carbohydrate foods		Yes	No	(Parent/carer will label all food)
Able to enter glucose levels and carbohydrate gran	ns into pur	mp		
		Yes	No	(Adult assistance required)
Able to do a 'Correction Bolus'		Yes	No	(Adult assistance required)
Able to disconnect & reconnect pump if needed		Yes	No	(Adult assistance required)
Restart pump manually NA		Yes	No	(Adult assistance required)
Able to prepare and insert a new infusion set if needed		Yes	No	(Contact parent/carer)
Give an insulin injection if needed		Yes	No	(Adult assistance required)
Able to troubleshoot pump alarms and malfunction	S	Yes	No	(Contact parent/carer)

Page 4 of 13





GLUCOSE LEVEL CHECKING

Target range for glucose levels: 4.0 - 8.0 mmol/L

• Glucose levels outside of this target range are not unusual.

Glucose levels will vary day-to-day and be dependent on a number of factors such as:

- Insulin dose
- Growth spurts
 Type/delta
- Excitement / stressType/quantity of food
- Illness/ infection

SENSOR GLUCOSE

The student is wearing: Yes

Continuous Glucose Monitor (CGM)

Dexcom G5®

Dexcom G6[®] Guardian[™] Sensor 3

Age

Level of activity

Flash Glucose Monitor (FGM)

Guardian[™] Connect

Freestyle Libre 1

Freestyle Libre 2

- CGM and FGM consist of a small sensor that sits under the skin and measures glucose levels in the fluid surrounding the cells (interstitial fluid).
- These devices are not compulsory management tools.
- With CGM a transmitter sends data to either a receiver, phone app or insulin pump.
- With Freestyle Libre the device will only show a glucose reading when the sensor disc is scanned by a reader or phone app.
- A sensor glucose reading can differ from a finger prick blood glucose reading during times of rapidly changing glucose levels e.g. eating, after insulin administration, during exercise.

Hypo treatment is based on:

Sensor glucose reading.

Blood glucose finger prick result.

ALARMS

- Alarms may be 'on' or 'off' (No alarms on Freestyle Libre 1).
- Urgent low alarms cannot be turned off.
- It is suggested that high alarms are turned off during school.

ACTION FOR ALARMS: Check glucose level and follow front page for treatment.

LOW GLUCOSE SUSPEND

Certain insulin pumps may be programmed to **STOP** insulin delivery when the CGM glucose level is low or predicted to go low.

The student has low glucose suspend activated: Yes No

Page 5 of 13

NAME	
DATE OF BIRTH	
DATE PLAN CREATED	





No (if "no", turn to page 5)

• • • Hy

GLUCOSE LEVEL CHECKING - SENSOR GLUCOSE

USE AT SCHOOL

- Staff are not expected to do more than the current routine diabetes care as per the student's Diabetes Management plan.
- Staff do not need to put CGM apps on their computer, smart phone or carry receivers .
- Parents/carers are the primary contact for any questions regarding CGM/FGM use.
- Some CGM devices can be monitored remotely by family members. They should only contact the school if they foresee a prompt response is required.
- If the sensor/transmitter falls out, staff are required to keep it in a safe place to give to parents/carers. In this scenario, use finger prick blood glucose levels.
- The sensor can remain on the student during water activities.

Page 6 of 13





FINGER PRICK GLUCOSE

The student should always wash and dry their hands before doing a finger prick check.

Is the student able to do their own glucose check independently?					
Yes No					
If NO, the responsible staff mem	per needs to:				
Remind Obs	serve	Assist	Perform		
Tick appropriate box below:					
Dexcom G6					
A finger prick is needed wher	1:				
 TAG (trend arrow glucose) unavailable				
 Symptoms don't match the 	ne sensor reading				
• Sensor has fallen off					
All other CGM/FGM sensor	s				
A finger prick is needed wher	1:				
 TAG (trend arrow glucose 	• TAG (trend arrow glucose) unavailable				
 Symptoms don't match the 	ne sensor reading				
• Sensor has fallen off					
Other times to check incude (ti	ck all those that ap	oply):			
🖌 Anytime, anywhere	Before snac	k	Before lunch		
Before activity	Before exan	ns/tests	When feeling unwell		
Anytime hypo suspected Beginning of after-school care session					
Other routine times – please specify:					

- Further action is required if glucose level is **less than 4.0 mmol/L** or **15.0 mmo/L or above**. Refer to front page.
- If the meter reads **'LO'** this means the glucose level is too low to be measured by the meter follow the low (Hypo) treatment on the font page.
- If the meter reads **'HI'** this means the glucose level is too high to be measured by the meter follow high (Hyper) treatment on the front page.

NAME
DATE OF BIRTH
DATE PLAN CREATED

Page 7 of 13





LOW GLUCOSE LEVELS (Hypoglycaemia / Hypo)

Follow the front page **if glucose less than 4 mmol/L**. A mild low/hypo can be treated by using supplies from the student's HYPO KIT.

Hypo kit should be kept with student at all times

ΗΥΡΟ ΚΙΤ

FAST ACTING CARBOHYDRATE FOOD	AMOUNT TO BE GIVEN

SUSTAINING CARBOHYDRATE FOOD	AMOUNT TO BE GIVEN

- If the student requires more than 2 consecutive fast acting carbohydrate treatments, as per their front page, call the student's parent/carer. Continue hypo treatment if needed while awaiting further advice.
- All hypo treatment foods should be provided by the parent/carer.
- Ideally, packaging should be in serve size bags or containers and labelled as fast acting carbohydrate food and sustaining carbohydrate food.

Mild hypoglycaemia is common.

If the student is having more than 3 episodes of low glucose levels at school in a week, make sure that the parent/carer is aware.

SEVERE LOW/HYPO MANAGEMENT

Severe hypoglycaemia is not common.

Follow the front page for any episode of severe hypoglycaemia.

DO NOT attempt to give anything by mouth to the student or rub anything onto the gums as this may lead to choking.

If the school is located more than **30 minutes** from a reliable ambulance service, then staff should discuss Glucagon injection training with the student's Diabetes Treating Team.

Page 8 of 13

NAME	
DATE OF BIRTH	
DATE PLAN CREATED	





HIGH GLUCOSE LEVELS (Hyperglycaemia / Hyper)

- Although not ideal, glucose levels may be above the target range.
- Glucose levels may be above target if food has been consumed within the last two hours.
- If glucose levels are 15.0 mmol/L or above, follow the front page.
- If insulin has been given allow two hours for glucose levels to return to target.
- If the student is experiencing frequent episodes of high glucose levels at school, make sure the parent/carer is aware.

For unexplained high glucose, pump site should be checked for leakage, dislodged needle/cannula or redness/swelling. If any of these occur, the infusion set must be changed immediately and contact parent/carer

KETONES

- Ketones occur most commonly when there is not enough insulin in the body.
- Ketones are produced when the body breaks down fat for energy.
- Ketones can be dangerous in high levels.

You will be required to check the student's ketone level if:

- Student is unwell or
- Glucose levels remains at 15.0 mmol/L or above

ACTION: If ketones 0.6 mmol/L or above follow action steps on the front page.

EATING AND DRINKING

- The student will need to have an insulin bolus from the insulin pump before carbohydrate foods are eaten.
- The insulin dose will be determined by the pump based on the grams of carbohydrate food they will be eating and the current glucose level.
- For younger students, all carbohydrate food should be clearly labelled by the parent/carer with carbohydrate amount in grams. It is not the responsibility of school staff to count carbohydrates, although they may need to assist the student to add up the food amounts that they wish to eat.
- Younger students will require supervision to ensure all food is eaten.
- The student should not exchange food/meals with another student.
- Seek parent/carer advice regarding appropriate foods for parties/celebrations that are occurring at school.
- Always allow access to drinking water and toilet (high glucose levels can cause increased thirst and extra toilet visits).

Does the student have coeliac disease? Yes* No

*Seek parent/carer advice regarding appropriate food and hypo treatments.

Page 9 of 13

NAME	
DATE OF BIRTH	
DATE PLAN CREATED	





KETONES

EATING AND DRINKING

PHYSICAL ACTIVITY

A glucose meter and hypo treatment should always be available.

- Check glucose level before physical activity.
- Physical activity may alter glucose levels depending on type, duration and intensity.
- The student may require an extra serve of carbohydrate food before every 30 minutes of planned physical activity or swimming as provided by the family.
- Physical activity should not be undertaken **if glucose levels are less than 5.0 mmol/L**. Refer to page 2.
- Vigorous activity should not be undertaken if the student is unwell or the blood ketones are 0.6 mmol/L or above.
- Do not enter the glucose levels into the pump within 1 hour of completing activity; if lunch occurs immediately after physical activity, only enter the amount of carbohydrate food to be eaten.
- Disconnect the pump for vigorous activity/swimming.* The student can be disconnected from the pump for up to 90 minutes.
 *Extra details for Hybrid Closed Loop Insulin Pump in Appendix.

EXCURSIONS / INCURSIONS

It is important to plan for extracurricular activities and discuss these in advance with parents/carers.

Consider the following:

- Ensure blood glucose meter, blood glucose strips, blood ketone strips, hypo and activity food are readily accessible.
- Plan for meal and snack breaks.
- Always have hypo treatment available.

Page 10 of 13





CAMPS

It is important to plan for school camps and consider the following:

- Parents/carers need to be informed of any school camps at the **beginning of the year**.
- A separate and specific **WA Diabetes School Camp Checklist and Management Plan** is required, and should be completed by the family in partnership with the school (<u>click here for Diabetes</u> <u>Management and Action Plans</u>).
- Parents/carers will need a copy of the camp menu and activity schedule.
- At least 2 responsible staff attending the camp should have a general understanding of type 1 diabetes and the support that the student requires to manage their condition for the duration of the camp.
- If the camp location is more than **30 minutes** from a reliable ambulance service, **Glucagon** administration training will be required.
- An application for skills based training is available online at <u>DiabetesInSchools.com.au</u>.
- School staff will need to discuss any training needs **at least** 4 weeks before the camp with the student's parents/carers or Diabetes Treating Team.

ASSESSMENT / EXAMS

- Glucose levels should be checked before commencing.
- Glucose levels should be 4.0 mmol/L or above before commencing.
- Blood glucose meter, monitoring strips, hypo treatments and water should be available.
- Continuous Glucose Monitoring (CGM) or Flash Glucose Monitoring (FGM) devices and receivers (smart phones) should be available if applicable.
- Extra time will be required if a hypo occurs or for toilet privileges.

APPLICATIONS FOR SPECIAL CONSIDERATION

- The School Curriculum and Standards Authority's Guidelines for Disability Adjustments for Timed Assessments includes type 1 diabetes and is available at www.scsa.wa.edu.au
- Where required, schools should apply in advance for special provisions for all externally set assessments (e.g NAPLAN, OLNA, WACE)
- It is advisable to check and record glucose levels prior to (and during, if unwell) WACE assessments as medical evidence, in the event that an Application for Sickness/Misadventure is necessary.

Page 11 of 13





EXTRA SUPPLIES

Provided for diabetes care at the school by parent/carer

Finger prick device	Blood glucose strips	Blood ketone strips
Blood glucose meter	Sharps container	Hypo food
Batteries / charger (for insulin pump)		
Infusion sets and lines	Student use	Parent/carer use
Reservoirs	Student use	Parent/carer use
Cartridges	Student use	Parent/carer use
Inserter (if applicable)	Student use	Parent/carer use
Insulin pen and pen needles	Student use	Parent/carer use

GLOSSARY OF TERMS

COMMON APPLICATIONS FOR SPECIAL CONSIDERATION

An insulin pump is also known as continuous subcutaneous insulin infusion (CSII). It is a small battery operated, computerised device for delivering insulin.

Cannula

A tiny plastic or steel tube inserted under the skin to deliver insulin. Held in place by an adhesive pad.

Line or Tubing

The plastic tubing connecting the pump reservoir/cartridge to the cannula.

Reservoir/Cartridge

Container which holds the insulin within the pump.

Basal

Background insulin delivered continuously.

Bolus

Insulin for food delivered following entry of glucose levels and carbohydrate food amount to be eaten.

Correction bolus

Extra insulin dose given to correct an above target glucose levels and/or to clear ketones.

Line failure

Disruption of insulin delivery due usually to line kinking or blockage.

ADDITIONAL AGREED ACTIONS

Parent/Carer Signature:

Page 12 of 13

NAME _____

DATE PLAN CREATED





AGREEMENTS

PARENT/CARER

I have read, understood and agree with this plan.

I give consent to the school to communicate with the Diabetes Treating Team about my child's diabetes management at school.

I acknowledge that school staff who administer insulin and / or glucagon do so: 1) after receiving training from their clinical treating team.

2) to the best of their ability.

NAME

FIRST NAME (PLEASE NOTE)		FAMILY NAME (PLEASE NOTE)	
	e read, understood and agree	with this plan.	
NAME			
FIRST NAM	E (PLEASE NOTE)	FAMILY NAME (PLEASE NOTE)	
ROLE Principal		Associate principal	
	Other (please specify) _		
SIGNATURE		DATE	
DIABETES	TREATING MEDICAL TEAM		
NAME			
FIRST NAM	E (PLEASE NOTE)	FAMILY NAME (PLEASE NOTE)	
SIGNATURE	:	DATE	



2022 - Insulin Pump