DIABETES MANAGEMENT PLAN FOR SCHOOL CAMP



As kaitiaki (carers/guardians) of diabetes related services, it is a collective responsibility to establish an environment that facilitates a pathway for people with diabetes to navigate te ao mate huka - the world of diabetes¹.

This Camp Management Plan is to be used alongside "Preparing for School Camp" checklists and the school action plan. Parents/caregivers should meet with the school to discuss the camp or excursion well before the event. This Camp Management Plan is completed in consultation with the whānau and with the diabetes clinical team if required.

STUDENT'S NAME:	AGE:	SCHOOL YEAR:
RESPONSIBLE STAFF:		
Staff name/s:		
Staff name/s:		
Staff name/s:		

BLOOD GLUCOSE CHECKING

- Target ranges for blood glucose levels (BGLs): 4 8 mmol/L
- BGL results outside of this target range are common
- BGL checks should be done where the student is, whenever needed
- Always ensure the student's hands have been washed and dried before doing the BGL check

		Yes	No	With Support
Is the student able to check glucose	levels?			
Is the student able to identify their o	own hypoglycaemia symptoms?			
Times to check BGLS				
Anytime, anywhere	Before meals & snacks	W	/hen feelii	ng unwell
Before activity	Before Bed	U	pon wakir	ng
Overnight pm	Overnight pm/am	A	ny time hy	po suspected
Other routine times:				

FURTHER ACTION REQUIRED IF:

BGL is less than 4.0 mmol/L or greater than or equal to 15.0 mmol/L. Refer to Diabetes Action Plan

If the meter reads **LO** this means the BGL is too low to be measured by the meter.

Follow the **Hypoglycaemia** (Hypo) treatment on the Diabetes Action Plan.

If the meter reads **HI** this means the BGL is too high to be measured by the meter.

Follow the **Hyperglycaemia** (Hyper) treatment on the Diabetes Action Plan.

Students name:

¹- Te Kaiwhakahaere Māori te Roopu mate huka Debbie Rawiri - Te Whatu Ora Waitaha Canterbury

BEDTIME AND OVER	NIGHT	
Preferred pre-bed BGL targ	get range:	
Management if glucose lev	el is below preferred target range:	
Glucose Level:	Carbohydrate food to be used:	Amount to be given:
Further information or com	nments:	
Preferred overnight BGL ta	rget range:	
	<u> </u>	
Management if glucose lev	el is below preferred target range:	
Management if glucose lev	el is below preferred target range:	
Management if glucose lev	el is below preferred target range:	
Management if glucose lev Glucose Level:	el is below preferred target range: Carbohydrate food to be used:	Amount to be given:
		Amount to be given:
		Amount to be given:
		Amount to be given:
	Carbohydrate food to be used:	Amount to be given:
Glucose Level:	Carbohydrate food to be used:	Amount to be given:
Glucose Level:	Carbohydrate food to be used:	Amount to be given:
Glucose Level:	Carbohydrate food to be used:	Amount to be given:



SENSOR GLUCOSE (SG) MONITORING

Some students will be wearing a small sensor that sits under the skin and measures glucose levels in the fluid surrounding the cells (interstitial fluid). A sensor glucose (SG) 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. Therefore, LOW or HIGH SG readings must be confirmed by a finger prick blood glucose check. Hypo treatment is based on a blood glucose finger prick result.

Is the	Is the student is wearing a glucose sensor?		Is the student is wearing a glucose sensor?		Yes	No
Туре	:					
	Dexcom G6®		ISGM/Freestyle Libre	Dexcom G7®	Aidex CGM	
	Guardian™ Connect		Guardian™ Sensor 3	Guardian ™ Sensor 4		

- With CGM, a transmitter sends data to either a receiver, phone app or insulin pump.
- With ISCGM, the device will only give a glucose reading when the sensor disc is scanned by a reader or phone app.
- These devices are not compulsory management tools.

CGM ALARMS

- CGM alarms may be 'on' or 'off'.
- If 'on' the CGM will alarm if interstitial glucose is low or high.

ACTION: Check finger prick blood glucose level (BGL) and if less than 4.0 mmol/L, treat as per Diabetes Action Plan for treatment.

USE OF SENSOR GLUCOSE MONITORING AT CAMP

- Sensor glucose monitoring can be beneficial in a camp environment, although staff are not expected to do more than the current routine diabetes care as per the student's Diabetes Action and Management plans.
- 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/ISCGM use.
- Some CGM/ISCGM devices can be monitored remotely by whānau 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.
- The sensor can remain on the student during water activities.



INSULIN ADMINISTRATION The student will need insulin at main meals and possibly snack times Type of device: Syringe Pen Pump Yes No With Support Is the student able to calculate own insulin dose? Is the student able to administer own insulin? **How Much Insulin to be Administered Basal Insulin** Type: Time: Units: **Bolus Insulin Morning** Afternoon **Breakfast** Lunch Dinner Other Tea Tea Insulin: CHO Ratio (1 unit: g CHO) Correction Ratio (1 unit: mmol/L) Additional Insulin Adjustments/Corrections whilst at camp:

FOOD AND MEALS AT CAMP

- The camp menu should have been reviewed by the parents/caregivers prior to the camp. This will help
 with decisions about carbohydrate amounts and portion sizes as well as whether adjustments need to
 be made for food preferences.
- Additional long-acting carbohydrate foods should be supplied by the whānau or be available if a meal/snack is delayed or activities are intense requiring additional carbohydrate.
- Fast-acting carbohydrate foods should be supplied by the whānau to treat hypoglycaemia.
- Overnight access to carbohydrate containing foods is important.

	Yes	No	With Support
Is the student able to count carbohydrates?			
Does the student have coeliac disease or additional allergies?			

Management of above and additional considerations for meal times when at camp:



ACTIVITY

- Activity decreases glucose levels and activity levels at camp are usually higher than usual.
- Depending on the intensity of the activity, glucose levels may drop quickly or up to 24 hours later.
- It is important to check glucose levels during the night following daytime exercise.
- It is important to check GL at least 15 minutes prior to exercise or high intensity activity and respond appropriately.
- Vigorous activity should **NOT** be commenced if BGL >15mmol/L **AND** blood ketones of > 1.0mmol/L
- Vigorous activity should **NOT** be commenced if BGL <4mmol/L
- Pump users should suspend and disconnect pump during water-based activity.
- Pump should not be disconnected or suspended for longer than 90 minutes. Check ketones if the pump is disconnected or suspended for more than 90 minutes.

Preferred pre-activity GL target range:

THE FOLLOWING RECOMMENDATIONS SHOULD BE DISCUSSED WITH THE STUDENT'S DIABETES TEAM AND WHĀNAU AND INDIVIDUALISED AS NEEDED

Recommendat	Recommendations for insulin adjustments for planned activity:			
MDI	Reduce the pre exercise bolus insulin dose by 25-50% (start with 25% and increase as needed) if activity is within 1 hour of insulin injection (for example meal bolus)			
Pump	Reduce the basal insulin dose by up to 25-50% (start with 25% and increase as needed) from 90 minutes prior to exercise (via temp basal feature)			
·	Consider a 25 – 50% bolus reduction if activity is within 1 hours of meal			
	Reduce the pre exercise bolus insulin dose by 25%			
Hybrid	Switch on exercise mode or temp target 90 – 120 minutes prior to activity			
Closed	Turn off at end of the planned activity			
Loop	If the whole camp day is "active" consider switching on exercise mode or temp target at			
	breakfast and continue through to dinner time			

Recommendati	ons to prevent hypoglycaemia:
MDI	To prevent post exercise hypo, reduce the nighttime long acting (basal) insulin dose by 20%
Pump	To prevent post exercise hypo, reduce the basal insulin dose by 25 - 50% until 3am (via temporary basal feature)
Hybrid Closed Loop	 Consider continuing exercise mode or temp target for 1 – 4 hours post exercise, depending on length of exercise and potential for hypoglycaemia. Also consider a 25 – 50% reduction of meal bolus following exercise If consistently running "low" during the day despite using exercise mode or temp target the following additional strategies can be considered: Medtronic 780G: Use a higher algorithm set point Control IQ: Running a personal profile of 25% basal reduction, with a 25% CHO ratio and ISF weakening



Recommendations for unplanned activity:			
MDI	Consume 10 – 15g long acting CHO if BGL is 4-7mmol/L and recheck in 30 minutes		
Pump	Consume 10 – 15g long acting CHO if BGL is 4-7mmol/L and recheck in 30 minutes		
Hybrid Closed Loop			

Additional comments for unplanned activity:

- For most children, the time in range for glucose levels is 3.9 10.0 mmol/L.
- Provide additional 10-15 grams carbohydrate if glucose levels are at the lower end of the target range (4.0-7.0 mmol/L) to avoid hypoglycaemia and recheck in 30 minutes.
- **Food ideas include:** Small muesli or fruit bar, 2 plain biscuits or crackers, UHT milk tetrapack or breakfast drink, Le Snaks, small packets of plain popcorn or trail mix.

Additional comments relating to specific exercise on camp, i.e. times of sustained or high intensity activity:

- Monitor glucose levels regularly across the day and follow hypoglycaemia treatment guidelines as required.
- Ensure snacks are available for those who need additional carbohydrate after treating hypoglycaemia.

Further information or comments:	



DIABETES SUPPLIES

ALL OF THESE ITEMS SHOULD BE LABELLED AND PACK	ED TOGETHER
New vials/cartridges of insulin (2 vials/cartridges of each type)	Container for Sharps Disposal
CareSens Dual Meter (& spare batteries) + Finger Pricker (& spare lancets)	Prefilled Insulin Pens and/or Syringes + Pen Needles
2 Boxes of Blood Glucose Testing Strips	2 Boxes of CareSens Ketostrips
Glucose Monitoring Device (if using) plus charger (& spare sensor if able to change)	Pump Batteries or Charger (Clearly Labelled)
Battery Powered USB Charger for Pump or CGM Receiver if possible	Dressings/ Tape for Pump or Glucose Monitoring Device
Cooler bag for insulin if out in hot weather	Baby-wipes or equivalent
	is present who can change sites). Student and whānau mp, but not immediately before, e.g. please change the ng for camp.
Fast-Acting Carbohydrate – (10-15g CHO)	Long-Acting Carbohydrate (10-15g CHO)*
Glucose Tablets	Small muesli bars
125 ml Juice Boxes	Fruit bars
Hypofit Gel	Glucagon Hypokit
ADDITIONAL FOOD SUPPLIED FOR ACTIVITY AND OVE	RNIGHT SUPPLEMENTS*
*Pre-packaged food is useful in a camp environment	



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 student's diabetes management at camp.

First Name	Family Name	Signature	Date

SCHOOL REPRESENTATIVE

I have read, understood, and agree with this plan.

First Name	Family Name	Signature	Date

DIABETES TREATING MEDICAL TEAM

This management plan has been developed by specialist diabetes clinicians.

Contact Details of Diabetes Treating Team

Name	Phone Number	
Name	Phone Number	
Name	Phone Number	

