DIABETES MANAGEMENT PLAN 2021

Twice daily injections

SCHOOL SETTING

Use in conjunction with Diabetes Action Plan. This plan should be reviewed every year.

		Date:
RESPONSIBLE STAFF School staff who have voluntarily agreed to undertake training	and provide support with diab	petes care to the student.
Responsible staff will need to receive training on how to check syringe if required.	glucose levels and how to adr	ninister insulin via pen or
A Medication Authority Form may be required if school staff ar pump or injection.	re required to administer / sup	pervise insulin given via the
List below and tick those that apply.	Gluco	
Staff's name/s:	checki	ing administration
INSULIN ADMINISTRATION The student is on two injections of insulin per day. The student Is supervision required? Yes No If yes, the responsible staff need to Remind Other Responsible staff will need to receive training on how to admin Type of injection device (please tick) Pen Syring The location in the school where the injection is to be given	bserve Assist Ac	ection of insulin at lunchtime. Iminister injection
-		
_	nt how to calculate the amoun	t of insulin to be administered
HOW MUCH INSULIN TO BE ADMINISTERED Staff responsible for administering insulin will need to be taugh		t of insulin to be administered
HOW MUCH INSULIN TO BE ADMINISTERED Staff responsible for administering insulin will need to be taugh using carb and correction ratios.		nt of insulin to be administered
HOW MUCH INSULIN TO BE ADMINISTERED Staff responsible for administering insulin will need to be taugh using carb and correction ratios. Calculate the amount of insulin to be administered using the		it of insulin to be administered



BLOOD GLUCOSE LEVEL (BGL) CHECKING

Target range for blood glucose levels (BGLs): 4 – 8 mmol/L

- BGL results outside of this target range are common
- BGL check should be done where the student is, whenever needed
- The student should always wash and dry their hands before doing the BGL check.

Rlood alucasa	lavale will vary	day-to-day	and he den	andant on a	number of factor	e elich ae.

- Insulin Dose
- Excitement / stress
 Age

- Growth spurts Type/quantity of food Level of activity

•	Illnes	s / int	tect	i∩r

Illness / infection		
Is the student able to do their own bloc	od glucose check independen	tly? Yes No
If NO, the responsible staff member ne	eeds to Do the check	Assist Observe Remind
Times to check BGLS (tick all those that	t apply)	
Anytime, anywhere	Before snack	Before lunch
Before activity	Before exams/tests	When feeling unwell
Anytime hypo suspected	Beginning of afterschool car	e
Other routine times - please specify		

FURTHER ACTION IS REQUIRED IF

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

OR

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

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

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

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



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.

The child is wearing Continuous Glucose Monitor (CGM) or Flash Glucose Monitor (FGM)			
Dexcom G6 [®] Freestyle Libre			
Guardian™ Connect Guardian™ Sensor 3			
With CGM, a transmitter sends data to either a receiver, phone app or insulin pump.			
• With FGM, 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.

Alerts for high glucose levels or in response to changing glucose trends are not recommended in this setting

• FGM device does not have alarm settings.

USE AT SCHOOL

- 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/FGM use.
- Some CGM/FGM 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.
- The sensor can remain on the student during water activities.



LOW BLOOD GLUCOSE LEVELS

(Hypoglycaemia / Hypo)

Follow the student's Diabetes Action Plan if BGL less than 4.0 mmo	I/L
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Mild hypoglycaemia can be treated by using supplies from the student's HYPO BOX.

Hypo box location/s:				
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HYPO BOX

FAST ACTING CARBOHYDRATE FOOD	AMOUNT TO BE GIVEN
LONG-ACTING CARBOHYDRATE FOOD	AMOUNT TO BE GIVEN

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

Mild hypoglycaemia is common. However, if the student is having more than 3 episodes of low BGLs at School in a week, make sure that the parent/carer is aware.

SEVERE HYPOGLYCAEMIA (HYPO) MANAGEMENT

Severe hypoglycaemia is not common.

Follow the student's Diabetes Action Plan 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.



HIGH BLOOD GLUCOSE LEVELS

(Hyperglycaemia / Hyper)

- Although not ideal, BGLs above target range are common.
- If BGL is 15.0 mmol/L or more, follow the student's Diabetes Action Plan.
- If the student is experiencing frequent episodes of high BGLs at school, make sure the parent/carer is aware.

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.
- Ketones are made more quickly when using insulin pump therapy

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

- Student is unwell or
- BGL is above 15.0 mmol/L

If blood ketones are more than 1.0 mmol/L, follow action for positive ketones on the student's Diabetes Action Plan.

EATING AND DRINKING

- The student should not go longer than 3 hours without eating a carbohydrate meal or snack.
- 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?
No Yes*
*Seek parent/carer advice regarding appropriate food and hypo treatments.



PHYSICAL ACTIVITY AND SWIMMING

A blood glucose meter and hypo treatment should always be available.

- Check blood glucose level before physical activity.
- Physical activity may lower glucose levels.
- The student may require an extra 10g of carbohydrates before every 30 minutes of planned physical activity or swimming as provided in the Activity Food Box.

ACTIVITY FOOD BOX

CARBOHYDRATE FOOD TO BE USED	AMOUNT TO BE GIVEN		

- Physical activity should not be undertaken if BGL less than 4.0 mmol/L.
- Refer to the Diabetes Action Plan for hypo treatment.
- Vigorous activity should not be undertaken if BGL is greater than or equal to 15.0 mmol/L and blood ketones are greater than or equal to 1.0mmol/L and / or the student is unwell.

EXCURSIONS / INCURSIONS

It is important to plan for extracurricular activities.

Consider the following:

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



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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 Camp Diabetes Management Plan is required.
- Parents/carers should request a Camp Diabetes Management Plan from their Diabetes Treating Team.
- The student's Diabetes Treating Team will prepare the Camp Diabetes Management Plan and require at least 4 weeks' notice to do so.
- 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
- Staff need an 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 injection training will be required.
- 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.

EXAMS

- BGL should be checked before an exam.
- BGL should be greater than 4.0 mmol/L before exam is started.
- Blood glucose meter, monitoring strips, hypo treatments and water should be available in the exam setting.
- Continuous Glucose Monitoring (CGM) or Flash Glucose Monitoring (FGM) devices and receivers (smart phones) should be available in the exam setting.
- Extra time will be required if a hypo occurs or for toilet privileges.

APPLICATIONS FOR SPECIAL CONSIDERATION

Students with diabetes mellitus are eligible to apply to NZQA for "Special Assessment Conditions" (SAC) on medical grounds. Students must complete a "Student application for entitlement to special assessment conditions". This form can be downloaded from the New Zealand Qualification Authority (NZQA) website. The application should be lodged at the beginning of Year 11 and 12. For more information on the Special Assessment Conditions process please go to www.nzqa.govt.nz/



EXTRA SUPPLIES

Provided for diabetes care at the school by parent/carer		
	Insulin and syringes / pens / pen needles	
	Finger prick device	
	Blood glucose meter	
	Blood glucose strips	
	Blood ketone strips	
	Sharps container	
	Hypo food	
	Activity food	



AGREEMENTS

PARENT/CARER			
I have read, understood and agree with this plan.			
I give consent to the school to communicate with the management at school.	Diabetes Treating Team about my student's diabetes		
First name	Family name		
Signature	Date		
SCHOOL REPRESENTATIVE I have read, understood and agree with this plan.			
First name	Family name		
Role Principal Supervisor Other (p	lease specify)		
Signature	Date		
DIABETES TREATING MEDICAL TEAM			
First name	Family name		



Signature

Student's name:

Date