

Name:

Weight (kg):

MiniMed 780G How to Survive

Carelink Username:

Carelink Password

- **Important things:**

- Suspend pump when taking it off (shower & sports) & resume after.
- Always carry spare batteries, insulin, cannula, reservoirs, insulin pen and needles, blood glucose & ketone meter, hypo treatment.

- **Low Glucose levels:**

- hypo guidance chart.
- Wait 20 minutes before retreating
- No 10g snack after treated

Glucose mmol/L	Arrow	Treatment Glucose (grams)	Choose only one	
4.0 - 6.0	↓↓↓			
	↓↓			
	↓			
Less than 4.0	↓↓↓			
	↓↓			
	↓			
	↑			

- **High Glucose Levels:**

- Follow the high guidance chart
- If the glucose level stays above 14.0mmol/l for 90 minutes, **even though ketones are less than 0.6 mmol/L**, change the cannula, then give a correction.
- If ketones are 0.6mmol/L or above, **give correction dose by insulin pen, change reservoir and cannula, and stop SmartGuard for 4 hours:**
 - 10% of total daily dose if ketones are 0.6-1.5 mmol/L.
 - 20% of total daily dose if ketones are above 1.5 mmol/L.

- **Infusion Site Management:**

- Take your time and follow the how to set up video.
- Mio Advanced is 0.6 ml cannula fill
- Change cannula every 2-3 days before a meal and rotate sites.
- Make sure insulin is less than 28 days out of the fridge and in date
- Remind yourself of best practice

- **CGM Management:**

- Take your time and follow the how to set up video.
- If you feel different to the sensor glucose, check blood glucose.
- Calibrate if more than 20% difference between sensor and blood glucose
- Remind yourself of best practice

Hypoglycaemia management



Hyperglycaemia management



Infusion set change



Solutions for skin and sticking issues



Sensor change



MiniMed 780G How to Thrive

- **Ordering supplies:**

- Order supplies upon opening the last boxes - 01923 205 167 Option 1
- Support with 780G or sensors - 01923 205 167 Option 2
 - If sensors do not last 7 days call produce support
 - If a cannula fails call product support for a replacement

**Mealtime
insulin
guide**



- **Food and insulin:**

- Bolus 15 minutes before eating.
- Three balanced meals with limited snacking, [Mealtime Insulin Guide](#)
- 5-10 minutes activity (walking, playing, dancing) after eating.
- For high fat meals (pizza, takeaway, fish and chips, etc)
 - Give 100% of the carbs eaten
 - If go and stay high, next time, dial in an extra 25% of carbs 60-90 minutes after eating. If that does not work, 50% extra the time after
 - If go hypo in the first three hours, next time only give 75% of carbs eaten, e.g. $100g \times 0.75 = 75g$
- If you forget to bolus before eating:
 - Less than 30 minutes after eating, then bolus for all carbs.
 - 30-60 minutes, then bolus for half the amount of carbs.
 - More than 60 minutes, give a correction for the current glucose but do not enter carbs

**Exercise
guide**



- **Exercise:**

- Recap on how to manage with [this video](#).
- Start Temp Target before (90 minutes before) and for the duration of the exercise:
- Meal before exercise:
 - If eating within 2 hours of exercise, enter only 75% of the carbohydrate to be eaten
 - Carbohydrate $\times 0.75$ = amount to enter e.g. $40g \times 0.75 = 30g$
- Carbs during: Glucose every 20-30 minutes following your chart (next page).
 - Do not have a large amount of carbs just before exercise as the high glucose level will make the SmartGuard deliver extra insulin.
- Request a Dietitian appointment if you exercise is hard to manage.

- **Maximising Time in Range (4.0-10.0 mmol/L)**

- 10 minutes of fast walking or playing drops the glucose level by 2 mmol/L when above 10.0mmol/L between meals - [watch GAME](#)

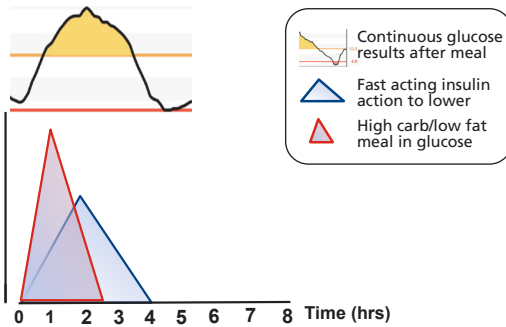
Carbohydrate Guide for activity when using the MiniMed 780G

1. Start Temp Target before exercise (ideally 90 minutes before) and for full activity duration.
2. Check glucose just before and every 20-30 minutes during exercise. Give the carbohydrate required based on the value and trend arrow. Carbohydrate choice can be changed in the drop down box
3. If swimming take the pump off and suspend the pump, resume once the pump is back on.

Sensor glucose Levels	Rate of glucose change trend arrow & action to take	Carbohydrate grams needed for 20 minutes		
less than 4.0 mmol/l	No exercise: Treat hypoglycaemia			
4.0 - 6.4 mmol/l	↓↓↓			
	↓↓			
	↓			
	↑			
	↑↑			
6.5 - 9.9 mmol/l	↓↓↓			
	↓↓			
	↓			
	↑			
10.0 - 13.9 mmol/l	Ok to exercise with any arrow			
>14.0mmol/l	Check ketones: If less than 0.6mmol/l	Ok to exercise		
	Check ketones: If 0.6mmol/l or above	No exercise until the ketones have been corrected and are less than 0.6mmol/l		

Mealtime Insulin Guide

High carbohydrate meal with low fat



Meal is almost all carbohydrate

Breakfasts:

- Cereal with light milk
- Toast and jam or honey
- Fruit bread

Meals:

- Jacket potato & beans
- Super noodles
- Waffles & hoops

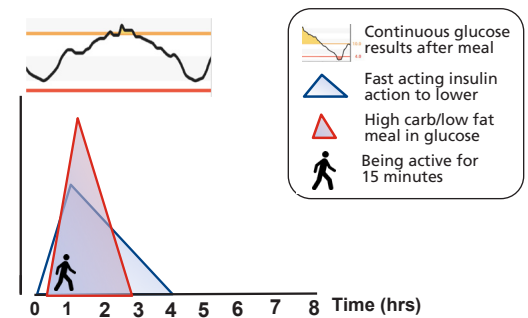
Snacks:

- Cereal bars
- Biscuits
- Rice crackers

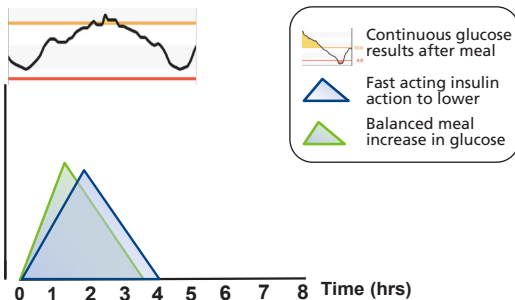
How to keep the glucose in target?

1. Count carbs accurately
2. Choose wholefood carbohydrate
3. Add some vegetables
4. Normal bolus 20 minutes before eating
5. Do 15 minutes activity after eating

High carbohydrate meal with low fat



Balanced meal



Meal is balanced

Breakfasts:

- Porridge with semi or full milk & nuts
- Egg or fish on toast with mushrooms
- Cheese on toast with tomatoes

Meals:

- Meat/fish/beans with potatoes & veg
- Jacket potato with cheese & salad
- Rice with curry and salad

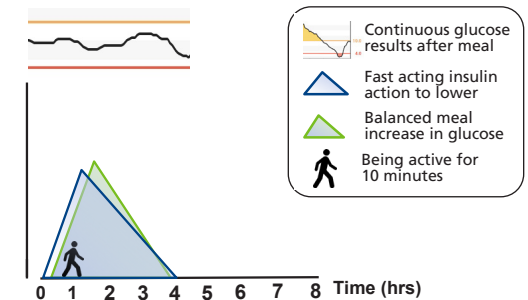
Snacks:

- Whole fruit with nuts
- Nut butter on toast
- Whole yoghurt with nuts

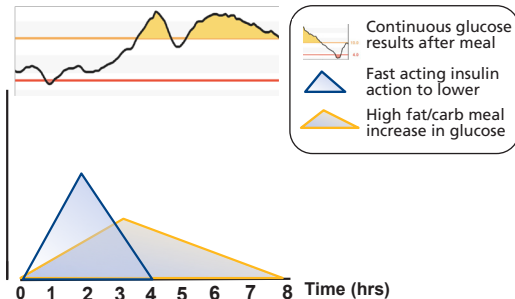
How to keep the glucose in target?

1. Count carbs accurately
2. Choose wholefood carbohydrate
3. Add more vegetables
4. Normal bolus 15 minutes before eating
5. Do 10 minutes activity after eating

Balanced meal



High fat meal with carbohydrate



Meal is very high in fat with carbs

Breakfasts:

- Full English breakfast
- Pancakes with maple syrup
- Thick slices of cheese on toast

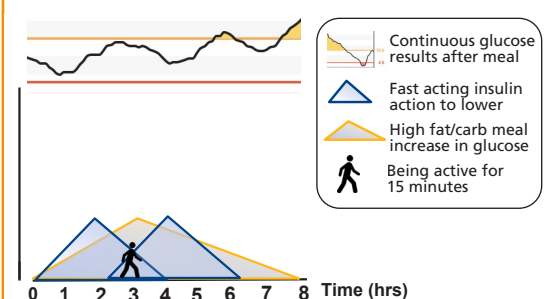
Meals:

- Takeaway fish and chips
- Heavily cheesy pizza
- Pasta with creamy sauce
- Creamy curry with rice & naan bread
- Fast food burger, fries and dessert
- Sunday roast with trimmings
- Lasagna with chips and garlic bread

How to keep the glucose in target?

1. Count carbs accurately
2. Give 100% of carbs eaten
3. Let Smart Guard deal with the delayed rise
 - If go and stay high, next time, dial in an extra 25% of carbs 60-90 minutes after eating. If that does not work, 50% extra the time after
 - If go low in the first 3 hours, next time, give 75% of carbs eaten, as normal bolus

High fat meal with carbohydrate



Dynamic Glucose Management

GAME-SET-MATCH

Combine glucose values and trend arrows with proactive diabetes management



Stop highs **GAME**



G = Glucose time in range desired

A = Alert on high set accordingly

Time in range desired? 4.0-10.0mmol/L	Set high alert mmol/L	Predicted HbA1c mmol/mol (%)	Daily energy & future health
50%	No alert	64 (8.0)	
60%	14.0	58 (7.5)	
70%	12.0	52 (7.0)	
75%	11.0	50 (6.8)	
80%	10.0	48 (6.5)	
85%	9.0	45 (6.2)	
90+%	8.0	42 (6.0)	

M = Mode of exercise that can be done

E = Exercise when high alert sounds

Glucose mmol/L	Trend arrow			How many minutes
	Libre	Dexcom	Medtronic	
8.0 - 9.9				5
				10
				15
10.0 - 14.0				15
				20
				25
More than 14.0				30
				30
				30
				30
				40



Stay in target **SET**



S = Start insulin before eating

Glucose mmol/L	Trend arrow			Minutes to bolus before meal
	Libre	Dexcom	Medtronic	
4.0 - 5.9				Prevent hypo
				Prevent hypo
				Prevent hypo
				15
				20
				25
6.0 - 9.9				30
				0
				10
				15
				20
				25
10.0 - 14.0				30
				35
				40
				45
				50
				50
More than 14.0				50
				50
				50
				50
				50
				50

E = Eat three balanced meals

T = Ten minutes activity after eating



Prevent lows **MATCH**



M = Measure weight to calculate hypo treatment

Weight (kg)	Grams of glucose	Dextrose 3g tablets
10	3	1
20	6	2
30	9	3
40	12	4
50	15	5
60+	18	6

A = Always use glucose only, not sugar

T = Try to prevent lows

C = Change amount according to glucose value & arrow

Glucose mmol/L	Trend arrow			Percent of hypo treatment
	Libre	Dexcom	Medtronic	
4.0 - 6.0				100%
				75%
				50%
Less than 4.0				125%
				100%
				75%
				50%
				25%

H = Have patience and wait 20 mins