	Type 2 Diabetes Exercise Action Plan (on Insulin and/or Sulphonylureas)
	This resource is designed to be used by an Exercise Specialist with diabetes knowledge.
	Guidelines for Starting Exercise
Glucose Level:	OK to exercise
5.5 – 15.0mmol/L	If on insulin – carry one serve of fast acting carbohydrate when exercising, especially when > 60min. If on a sulphonylurea – carry one serve of slow acting carbohydrate when exercising, especially when > 60min.
Glucose Level:	Below target glucose – Delay exercise or do not exercise
4.0 – 5.4mmol/L	Delay Exercise – Consume one to two serves of fast acting carbohydrate. - If accustomed to exercise and their own glucose response to this starting level = may start exercising. Follow with slow acting carbohydrate if exercise duration >30 min and/or next meal is more than 30 min away. Monitor glucose trend during exercise. - If unaccustomed to exercise and/or glucose response to starting level, wait 15 min after consuming the carbohydrate and then re-test. OK to exercise when glucose ≥5.5mmol/L and feeling well. Follow with slow acting carbohydrate if exercise duration >30 min and/or next meal is more than 30 min away. Monitor glucose trend during exercise.
Glucose Level:	Hyperglycaemia, but feel well – Exercise with caution
>15.0mmol/L	If Likely Due to Food – If feeling well and usual medications have been taken - perform exercise with caution (may be beneficial in lowering glucose). Monitor the glucose level during exercise and increase fluid intake. If Likely Due to Missed Medication – If feeling well - low-intensity exercise only and catch up on missed medications as soon as possible nd increase fluid intake.
Glucose Level:	Hypoglycaemia or Hyperglycaemia - Do not exercise or delay exercise
DO NOT EXERCISE - If	 hypoglycaemic event within the previous 24 h that required assistance from another individual to treat the event. hypoglycaemic event within the previous 24 h that did not require assistance but the intended exercise is potentially unsafe (e.g. swimming, skiing, surfing, etc.). TIL SYMPTOMS IMPROVE – If feeling unwell (e.g. abnormal sweating, trembling, anxiety, hunger, weakness, dizziness, inability to think straight) Delay Exercise – Treat hypoglycaemia: Consume one serve of fast acting carbohydrates and re-test after 15 min. If still wishing to exercise, ensure glucose level is
<4.0mmol/L	≥5.5mmol/L and follow up with one serve of slow acting carbohydrate. Do low to moderate intensity exercise and closely monitor glucose, re-test every 15 min. DO NOT EXERCISE – If alone or type of exercise is potentially unsafe (e.g. swimming, skiing, surfing, etc.). If glucose level is frequently <4.0mmol/L, schedule review with a Diabetes Healthcare Professional.
>15.0mmol/L	DO NOT EXERCISE – If feeling unwell, tired, weak, thirsty and/or frequently urinating. If glucose level is frequently >15.0mmol/L, schedule review with a Diabetes Healthcare Professional.
Fast Acting Carbohydr - 100mL Lucozade - 3 teaspoons honey, jan - 3 glucose tablets	ate (15g=one serve) examples: One serve as initial treatment - 7 small or 4 large jelly beans - 1 successful or 4 large jelly beans - 1 tub (200g) yoghurt - 1 slice of bread n or sugar - 150mL fruit juice or soft drink - 2 sweet plain biscuits - 1 piece of fruit - next meal (if served within 30 min)

inn-intensity evernies o	greater reductions in glucose during aerobic exercise than individuals with reduced cardiorespiratory fitness. r resistance exercise before aerobic exercise will attenuate the decrease in glucose compared to aerobic exercise alone.
•	kercise cool down after high-intensity or resistance exercise will attenuate the glucose rise compared to performing high-intensity or resistance exercise alone.
Glucose Level:	
	Below target glucose - Exercise with caution
<5.5mmol/L	- Consume fast acting carbohydrates if next meal not planned within 30 min – one serve per hour with gentle exercise, two serves per hour with moderate-
	intensity exercise, four serves per hour with vigorous or high-intensity exercise. Alternative approach = 0.3-0.5g carbohydrate per kg of body mass per hour
	activity with reduced insulin. If this occurs frequently, schedule review with Diabetes Healthcare Professional.
Glucose Level:	Rising glucose - Exercise with caution
Rises above pre-	- Ensure medications have not been missed.
exercise level	- Rise is more likely with higher intensity exercise such as weight lifting, sprints and racing.
	- Rise may also be due to food consumed within the last 90 min.
	- Monitor the rise but be prepared for the fall in the glucose later – may require correction in carbohydrate consumption and/or insulin after exercise.
Glucose Level:	Hypoglycaemia - Not safe to continue exercise
<4.0mmol/L	STOP EXERCISING – Consume one serve of fast acting carbohydrate and re-check after 15 min. If glucose is still <4.0mmol/L repeat one serve fast acting
	carbohydrate. Once glucose is ≥4.0mmol/L consume one serve slow acting carbohydrate if next meal is more than 30 min away.
	- Only resume exercise when glucose is ≥5.5mmol/L.
	- If this occurs frequently, schedule review with a Diabetes Healthcare Professional.
	Guidelines for After Exercise
Risk of hypoglycaemia is	elevated for at least 12 h after exercise. Monitor glucose after exercise if there has been an increase in exercise or when performing new exercise.
	aemia occurs, treat and confirm resolution then check the glucose level at least every 2 h up to 6 h post exercise.
	q. for night-time hypoglycaemia) is required when exercising in extreme heat, cold or high altitude, changing exercise type/duration/intensity, and if post-exercise
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ypoglycaemia has previc	oon, monitor for the risk of night-time hypoglycaemia.
If exercising in the aftern	nia occurs, check the glucose level before sleep, once during the night (e.g. 2:00 am), and immediately upon waking.
If exercising in the aftern If night-time hypoglycaer	

If the glucose level is of concern and/or is within orange or red areas of the Action Plan recurrently, the following should be discussed and reviewed with a Diabetes Healthcare Professional.

- Type of medications to lower glucose
- Timing of medications
- Glucose trend prior to exercise
- Timing and amount of previous food intake

- Presence and severity of diabetes complications
- Use of other medications secondary to diabetes
- Intensity, duration and type of exercise
- Time of day conducting exercise