# Cheatography

# **T2DM Cheat Sheet**

by Michellephillipso2 via cheatography.com/214485/cs/46698/

# **Prediabetes**

Impaired pasting glucose or impaired glucose tolerance. High risk of developing T2DM. Aggressive lifestyle change.

#### Insulin resistance

↑ insulin production to try and keep up (chronic hyperinsulinemia) = body becomes less sensitive to it = exhaust the beta cells "burn out" = decline in function = ↓ insulin (alongside resistance)

**Progression**: beta cells fail to compensate, leading to insulin deficiency alongside resistance

**Treatment** = Lifestyle. ↓ weight, ↑ exercise. *Education on progression*.

### Metabolic syndrome

Central adiposity (measured by waist circumference) PLUS AT LEAST ONE OF:

- ↑ triglycerides (>1.7mmol/L)
- ↓ HDL (males <1.03, females <1.29)
- ↑ BP (S >130, D >85)

Fasting BGL >5.6mmol/L

Diagnosed T2DM

### T2DM

Defective insulin receptors → Cells cannot efficiently take up glucose = ↑ blood glucose levels. Compensatory hepatic response → The liver ↑s gluconeogenesis

Insulin resistance AND relative insulin deficiency

Risk factors: age, family hx, obesity, sedentary lifestyle, HT, dyslipidaemia, impaired glucose tolerance, ethnicity, insulin resistance

Consider	
prev education/age on diagnosis	how they take their medication
insulin?	

#### Diagnosis

FBG: >7 mmol/L (confirmed with repeat)
FBG: >7 mmol/L AND 2h glucose >11.1

Hb1c >6.5% (confirmed with repeat)

S/S	
Нуро	Hyper
Trembling	3 Ps
Trouble concentration	blurred vision
Sweating	weight loss
↑ HR	fatigue
Dizzy	low energy
Weakness	delayed healing
	irritability

# Consequences

retinopathy (vision nephropathy loss or blindness) (leading cause of CKD)

stroke

neuropathy – numbness/feet amputations

delayed wound healing - infections

Biochem	
BGL	
Glucose, random	3.0-7.7 mmol/L
Glucose, fasting	3-6 mmol/L
Impaired, fasting glucose	6.1-6.9 mmol/L
Diabetic, fasting glucose	> 7 mmol/L
Insulin	5-25 mmol/L
OGTT	

	Biochem (cont)	
	OGTT	3-7.7 mmol/L
	(normal)	
	OGTT	7.8-11 mmol/L
	(impaired)	
	OGTT	>11.1 mmol/L
	(probable	
	diabetic)	
	HbA1c	long-term indicator of
		blood glucose control
	Normal range	3.5-6%
	Prediabetes	6-6.4%
	Diabetes	>6.5%

## MNT Objectives

Good control

Poor Control

Fasting blood glucose 6-8 mmol/L

<7%

>8.1%

HbA1c < 7%

Moderate weight loss if overweight (5–10% of body weight)

CHO consistency across meals

Contact: 3-6 encounters in first 6 months. Min 1 annual review.

# **Nut Reqs**

Na <2 300 mg/day

Fibre intake ≥38g/day

Strategies	
Weight	↑ exercise, portion control,
Management	↑ lean P/Fibre, meal plans,
	swaps
Carb	1 carb choice/exchange =
counting	15g CHO. 2-4 exchanges
	per meal (30-60g CHO). 1-
	2 carb exchanges per
	snack. Label reading,
	sugar-free substitutes
CHO consis-	↑ complex carbs, even

spacing throughout the day



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#### Strategies (cont)

GI Lower GI foods and "dressing up" CHO

Group counselling

#### **Carb Counting**

# 1 exchange (15g CHO)

1 sl bread

1/2 bread roll

1/2 english muffin

2-4 multigrain crackers (eg vitaweat)

1 crumpet

1/3 cup raw oats

1/2 cup muesli

1 1/2 weetbix

1/2 cup cooked pasta

1/4 cup cooked rice

1/3 cup cooked noodles

1 small potato

1 medium cob corn

## **Example PESS**

Inappropriate intake of types of carbohydrates (intake), related to food/nutrition knowledge deficit, as evidenced by CHO intake/CHO distribution ratio/FBG

#### Medications

Metformin	↑ insulin sensitivity.
	liver glucose. S/E:

metallic taste, N/D.

Tablet taken w/ food.

↑ insulin production. ↓

Alogliptin, Linagliptin,

Linagliptin, liver glucose. S/E: Gl Saxagliptin, upset. Tablet.

Sitagliptin, Vildagliptin

# Medications (cont)

GLP-1	↑ insulin production. ↓
(e.g.	stomach emptying. N/V/D,
Ozempi-	weight loss, appetite suppre-
c/Sema-	ssion. Injection twice a day,
glutide)	or once a week

 SGLT2
 ↑ glucose loss in urine.

 inhibitor.
 Tablet taken w/ water. S/E:

 Dapagliff-ozin,
 dehydration (↑ urination), ↓

 BP, weight loss, ketoacidosis.

Empaglifl- Avoid if eating a very low ozin,CHO diet.

Ertugliflozin

Sulfonylurea *Glibencla-*

Gliclazide,

N/D, hypoglycaemia, weight - gain.

↑ insulin production. S/E:

Glipizide, Glimepiride

mide.

## **INSULIN Injections**

**Background**: control fasting blood glucose levels. 1-2/day regardless of mealtimes.

Long-acting (onset 2.4h, duration ~24): TOUJEO, OPTISULIN. Intermediateacting (onset 0.5-1h, duration 10-16h): PROTAPHANE, HUMULIN NPH

**Bolus**: Quickly reduce high blood glucose levels

Rapid acting (onset 5 mins, duration 4.5 hours). *NOVORAPID, HUMALOG, APIDRA, FIASP.* Taken immediately after a meal. **Short acting**. (onset 30 mins, duration 6 hours). *ACTRAPID, HUMULIN R.* Taken 15-30 mins before meal.

## **INSULIN Injections (cont)**

**Premix**: Mix of background & bolus. Best taken at regular times of the day with a meal

Analogue (onset 5-15min, duration 10-16h). *NOVOMIX30, HUMALOG MIX 25, HUMALOG MIX 50, RYZODEG 70*Human (onset 30min, duration 10-16h). *MIXTARD 30, MIXTARD 50.* 

Important to have carbs at every meal and avoid skipping meals.

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