Monitoring

Different ways to test your blood sugar level

Done at home using a glucometer



What is blood sugar level?

• "At the moment" level of sugar (glucose) in your blood

Done at the clinic





What is HbA1c? (Glycosylated haemoglobin)

- Sugar (glucose) attached to protein in red blood cells
- Shows your average blood sugar level over 3 months



Different ways to test your blood sugar level

For individuals with type 2 diabetes, consider self-monitoring (using a glucometer), if you are

- At increased risk of developing hypoglycaemia (low blood sugar)
- Pregnant with pre-existing diabetes or Gestational Diabetes Mellitus (GDM)
- Experiencing acute illness
- Having difficulty achieving glycaemic goals
- Fasting for religious reasons (e.g. Ramadan)

Monitor your blood sugar level **before and after meals**

Blood sugar	Before food	2 hours after food		
Too high Risk of hyperglycaemia	> 7.0 mmol/L	> 10.0 mmol/L		
Optimal	4.0 to 7.0 mmol/L	4.0 to 10.0 mmol/L		
Too low Risk of hypoglycaemia	< 4.0 mmol/L	< 4.0 mmol/L		

Your targets may vary depending on your condition; discuss this with your doctor or care team

When to test your blood sugar level



Before a meal or 2 hours after



When you experience **hypoglycaemia** (low blood sugar) symptoms (e.g. dizziness, hunger)



Before or after **exercise**



When you are sick and not eating well

Monitor your blood sugar level before and after meals

Blood sugar	Before food	2 hours after food
Too high Risk of hyperglycaemia	> 7.0 mmol/L	> 10.0 mmol/L
Optimal	4.0 to 7.0 mmol/L	4.0 to 10.0 mmol/L
Too low Risk of hypoglycaemia	< 4.0 mmol/L	< 4.0 mmol/L

Your targets may vary depending on your condition; discuss this with your doctor or care team

Monitor your blood sugar level ≶

		Breakfast		Lunch			Dinner			Others								
Date	Day	Bef	fore	2 h af	ours ter	Bef	ore	2 ho af	ours ter	Bef	ore	2 ho af	ours ter	Be	fore	2 h af	ours ter	Remarks
		Time	(mmol/L)	Time	(mmol/L)	Time	(mmol/L)	Time	(mmol/L)	Time	(mmol/L)	Time	(mmol/L)	Time	(mmol/L)	Time	(mmol/L)	

Common signs and symptoms of **HYPOglycaemia** (low blood sugar of < 4 mmol/L)



Hunger



Hand tremors



Abnormally fast heartbeat



Fatigue



Mood changes (e.g. anxiety, irritability, nervousness)



Dizziness or headaches



Changes in behaviour (e.g. confusion, weakness, unclear speech)



Drowsiness

If you experience **HYPOglycaemia** symptoms or your blood sugar level is low (< 4 mmol/L)



How can I **prevent HYPOglycaemia** (low blood sugar)

What to do



Do not skip meals even when busy



Bring a few sugar-containing sweets along whenever you go out



Do not **take diabetes medication or insulin injection** in the morning when fasting for a blood test



Closely **follow instructions** on when to take your medication, especially in relation to meals



Eat **extra carbohydrates** before any **exercise or strenuous activity**



If you experience **hypoglycaemia frequently, check with your doctor** if your medication needs adjustment

Common signs and symptoms of **HYPERglycaemia** (high blood sugar)



Increased thirst



Frequent urination



Increased hunger



Blurred vision



Headaches

Weight loss

Slow-healing cuts

Blood sugar level > 15 mmol/L

If you experience **HYPERglycaemia** symptoms or your blood sugar level is high (> 15 mmol/L)





Drink plenty of **plain water**



Seek medical advice if your
blood sugar level is persistently
> 15 mmol/L (i.e. remaining very
high for more than 24 hours)

Go for your **regular check up** to detect and **prevent complications**

Assessment / Test	Frequency	Possible complications			
 Weight and height (BMI) 			1 C		
Blood pressure	At loast over				
 HbA1c (blood sugar) 	3 to 6 months	Kidney failure	BI		
 Stress, emotional well-being 					
 Lipid profile (cholesterol) 		Amputation	He		
• Kidneys	At least	Amputution			
• Eyes	once a year				
• Feet			Th ma		

Stroke

Blindness



Heart attack

The frequency of tests may vary depending on your condition

Treatment

Medications work in different ways, on different body parts

Liver, fat tissues and muscles

E.g. Pioglitazone, metformin

 Reduces amount of sugar made by the liver, and increases the sensitivity of fat, liver and muscle cells to insulin

Liver and pancreas

E.g. Linagliptin, sitagliptin

 Helps the pancreas produce more insulin and reduce amount of sugar made by the liver

Kidneys

E.g. Dapagliflozin, empagliflozin

 Prevents the kidneys from re-absorbing sugar

Intestines

E.g. Acarbose

 Slows down breakdown of starch and absorption of sugar from the intestines

Pancreas

E.g. Glipizide, tolbutamide, gliclazide

 Helps the pancreas produce more insulin

Take your **medication** as **prescribed**



Take your medication(s) regularly at the correct time(s)



If you miss a dose, take it as soon as you remember; if it is time for the next dose, skip the missed dose



Eat meals regularly to prevent hypoglycaemia (low blood sugar)



Avoid taking alcohol with medication



Inform your healthcare professional if you are:



Taking metformin before going for any scans (e.g. X-ray) or procedures



- Pregnant or planning to get pregnant before taking medication
- Experiencing persistent symptoms of hypoglycaemia (low blood sugar)

Medication

Take your medication as prescribed



Take your medication(s) regularly at the correct time(s)



If you miss your dose, follow your healthcare professional's instructions on what to do



Eat meals regularly to prevent hypoglycaemia (low blood sugar)



Avoid taking alcohol with medication







Inform your healthcare professional if you are:

- **Taking metformin** before going for any scans (e.g. X-ray) or procedures
- **Pregnant or planning to get pregnant** before taking medication
- Experiencing **persistent symptoms of hypoglycaemia** (low blood sugar)

Types of tablets	Action	Comment
Sulphonylureas e.g. - Chlorpropamide (Anti-D Tablet®) - Glibenclamide (Glyboral®) - Gliclazide (Diamicron®) - Tolbutamide (Tolmide®) - Glimepiride (Amaryl®) - Glipizide (Minidiab®)	Help the pancreas to release more insulin.	 Take the tablet(s) immediately before meals. Do not miss or delay meals. Otherwise, your blood sugar level may fall too low. Inform your doctor if you have G6PD deficiency. May also cause weight gain.
Biguanides e.g. - Metformin (Glucophage®, Glucophage XR®)	Help the body to use insulin more effectively and also decrease the amount of sugar made by the liver.	 Take the tablet(s) with meals or after meals. May cause stomach discomfort, nausea, vomiting, diarrhoea, loss of appetite and metallic taste in your mouth but should get better over time once your body becomes familiar with the medication. Take metformin with meals or after meals to reduce stomach side effects. Make sure to ask your doctor for advice if you need to have an examination involving the injection of dye/contrast or if you need to have major surgery. You may need to stop taking this medicine for a certain time before and after the examination or the surgery.

Types of tablets	Action	Comment
Alpha-glucosidase inhibitors e.g. - Acarbose (Glucobay®)	Help to stop the quick rise of blood sugar after a meal by delaying the breakdown of carbohydrates and absorption of sugar by the intestines.	 Take the tablet(s) with the first mouthful or immediately before each of the three main daily meals. May cause stomach discomfort, bloating or gas, or diarrhoea. These symptoms may happen but should get better over time once your body becomes familiar with the medication.
Meglitinides e.g. - Repaglinide (Novonorm®) - Nateglinide (Starlix®)	Help the pancreas to release more insulin.	• Take the tablet immediately before meals. Do not miss or delay meals. Otherwise, your blood sugar level may fall too low. May cause weight gain.
Thiazolidinediones (TZD) e.g. - Pioglitazone (Actos®)	Help to lower blood sugar level by making body tissues more sensitive to insulin.	 Take the tablet with or without food. Talk to your healthcare professional if you have heart conditions or have fallen down more than once in the past year.
Dipeptidyl peptidase-4 (DPP-4) inhibitors e.g. - Sitagliptin (Januvia®) - Linagliptin (Trajenta®) - Vildagliptin (Galvus®) - Saxagliptin (Onglyza®)	Help to lower blood sugar level by increasing levels of a group of gastrointestinal hormones, which in turn increase insulin secretion and decrease blood sugar levels.	 Take the tablet with or without food. Inform your doctor promptly if you have severe and persistent stomach pain, which might reach through to your back, with or without nausea and vomiting, as these could be signs of an inflamed pancreas (pancreatitis).
Sodium Glucose Co-transportase (SGLT-2) inhibitors e.g. - Dapagliflozin (Forxiga®) - Empagliflozin (Jardiance®) - Canagliflozin (Invokana®)	Help to lower blood sugar level by removing excess sugar from the body via the urine.	 Take the tablet with or without food. May cause weight loss. May cause genital and urinary tract infections, and low blood pressure. Stop the medication and see your doctor if you experience fever, persistent vomiting, dehydration, sweet fruity breath and/or ketones in urine.
Glucagon-like peptide-1 (GLP-1) receptor agonist e.g. - Liraglutide (Victoza®) - Exenatide Extended Release (Bydureon®) - Dulaglutide (Trulicity®)	Help to lower blood sugar level by slowing digestion of sugars.	 This is a non-insulin injection that can be given with or without food. Some patients may experience nausea, vomiting and diarrhoea. Inform your doctor promptly if you have severe and persistent stomach pain, which might reach through to your back, with or without nausea and vomiting, as these could be signs of an inflamed pancreas (pancreatitis).

NDRM2019

Insulin therapy



Insulin allows sugar (glucose) into the body cell



Insulin injections can help

- Improve blood sugar control
- Prevent or delay complications



Insulin injections may cause

- Hypoglycaemia (low blood sugar)
- Potential weight gain

How different types of insulin affect your blood sugar level throughout the day



Part 1: How to draw insulin from a vial



Preparation

Follow these steps to prepare your single or mixed dose insulin



Gather your supplies
 (syringe, insulin, alcohol swabs)



2. Wash your hands with soap and running water then dry your hands thoroughly



3. Roll the vial of insulin (if the insulin is cloudy) between the palms of your hands to mix it and/ or warm it up to body temperature



4. Clean the rubber stopper on the vial with an alcohol swab

If you are drawing a SINGLE dose

After completing part 1 (preparation), follow these steps to draw a **SINGLE** dose of insulin into the syringe



 Draw air into the syringe to the level prescribed for your insulin dose



 With the vial standing upright, inject the air dose into the vial by pushing down the plunger



3. Turn the vial and syringe upside down, ensure the needle tip is covered by the liquid



 Pull back the plunger to withdraw insulin to the level of the prescribed dose



 Gently flick the side of the syringe to remove air bubbles, if needed

If you are drawing a MIXED (clear + cloudy insulin) dose

After completing part 1 (preparation), follow these steps to draw a **MIXED** dose of insulin into the syringe



 Draw air into the syringe to the level prescribed for your cloudy insulin dose



2. Insert the syringe into the cloudy vial and inject the air dose into the vial by pushing down the plunger - remove the syringe without drawing insulin



 Draw air into the syringe to the level prescribed for your clear insulin dose



4. Inject the air dose into the clear vial in an upright position



5. Turn the vial and syringe upside down - ensure the needle tip is covered by the liquid



6. Slowly pull back the plunger to withdraw clear insulin to the level prescribed



7. Remove the partly filled syringe from the clear vial and insert it in the vial of cloudy insulin



8. Turn the vial and syringe upside down and slowly withdraw to the level prescribed for total amount of insulin (clear + cloudy)

Part 3: How to inject insulin

Step-by-step guide to injecting insulin into your chosen site



1. Clean your chosen site with water and tissue



2. Lift the skin with your thumb and finger on the chosen site. With your other hand, hold the syringe (like a pencil, keeping fingers off the plunger) close to the chosen site at a 90 degree angle



3. Push the syringe all the way into the lifted skin fold, then push the plunger all the way down to deliver insulin into the fatty tissue



4. Withdraw the needle from the skin at the same angle that it was inserted and then release the skin fold

Insulin pen

How to prepare an insulin pen for injection



 For cloudy insulin roll the pen in between your palms in a horizontal motion
 10 times



 Then move the pen up and down gently 10 times as shown so the glass ball moves from one end of the cartridge to the other.

Repeat rolling and moving the pen until the **liquid appears uniformly white and cloudy**



3. Clean the rubber membrane with an alcohol swab and allow it to dry before attaching the insulin needle onto the insulin pen



4. Dial 2 units by turning the dose selector



5. Hold the insulin pen with the needle upwards and tap the cartridge gently with your finger a few times to let air bubbles collect at the top of the cartridge



6. With the insulin pen still pointing upwards, press the push button all the way in (the dose selector should return to '0', and a drop of insulin should appear at the needle tip)



7. Select the dose of insulin you need

How to inject insulin with an insulin pen

- 1. Wash your hands with soap and water
- 2. Dry hands with a tissue paper or hand towel
- 3. Select the injection site at your abdominal area
- 4. Clean the chosen site with water and tissue
- 5. Wait for the site to dry
- 6. Lift up a skinfold using your thumb and index finger
- 7. Inject insulin at 90 degrees perpendicular to the injection site
- 8. Inject the dose by pressing the push-button all the way in until '0'
- **9. Keep the push-button down** fully for **at least 6 seconds** (to ensure the full dose has been injected) and as you withdraw the needle from your skin
- **10. Place the outer needle cap on the table**. Direct the needle tip into the outer needle cap without holding onto it (to prevent finger stick injury). Unscrew and dispose the used needle after it is covered
- **11. Store the insulin pen at room temperature** after injection, away from direct sunlight and heat







Insulin sites

Suitable sites for insulin injection

Visual guide to show where you can inject insulin



To note

- Different sites absorb insulin at different rates. Insulin is absorbed the fastest in the abdomen and slowest in the thighs
- Rotate sites (e.g right and left thigh) to avoid swelling as this may affect insulin absorption

Site rotation

Move 2 fingers along from your last insulin injection site

- Rotate injection sites by moving 2 fingers' breadth along from your last injection site until you have used an entire area
- Move to a new injection area every 1 to 2 weeks



Storage and disposal of insulin

Insulin storage

Quick tips on storing and handling your insulin



1. Write the date on the vial on the day you open it



2. For open vials or pens, store them at room temperature and away from direct sunlight



3. For unused vials or pens, store them in the **fridge**, not the freezer



 Avoid shaking the insulin vial excessively to prevent air bubbles forming



 Discard the insulin if expired (30 days after opening), contaminated, or if there are insoluble particles

How to safely dispose of used syringes and insulin pen needles

Proper disposal protects cleaners from accidental injuries, and prevents your used syringes and insulin pen needles from falling into the wrong hands



Place used syringes

 and insulin pen
 needles in a hard
 puncture-resistant
 container with a
 securable lid



2. Label the container "Used syringes and insulin pen needles"



3. Seal the container when it is full



 Discard the container down the rubbish chute or in a rubbish bin

To note: Discard all used syringes and insulin pen needles – do not reuse them. Containers that are suitable for safe disposal must be hard plastic, metal or a sharps container, such as an empty detergent bottle or metal tin

Foot and Dental Care

Poorly controlled diabetes can lead to **foot complications**





Nerve damage can make your foot feel numb and change its shape, increasing your risk of getting **calluses** and **ulcers**





Extremely **poor blood circulation** (vasculopathy) can cause wounds to heal poorly; an **amputation** may be required to save your life

Good foot care practices



Monitor feet every day



Maintain good foot care and hygiene



Moisturise regularly



Wear well-fitting and covered footwear



Apply simple first aid for small wound



Seek medical help if wound is not healing well, or worsens

Good foot care practices



Monitor feet every day Watch out for:

- Blister, wound, corn, callus, or toenail abnormality
- Redness, swelling, bruise, or increased warmth



Maintain good foot care and hygiene

- Clean feet daily with mild soap and water
- Dry thoroughly **between** each toe
- Use a pumice stone or foot file to gently remove hard skin
- Avoid cutting nails too short; cut them straight across and file corners



Moisturise regularly

- Avoid using harsh soap
- Apply moisturiser daily but not between each toe
- Avoid scratching skin as it may lead to wound or bleeding



Wear well-fitting and covered footwear

- Wear well-fitting covered shoes with socks
- Home sandals are
 recommended
- Check and remove any stones or sharp objects inside shoes before wearing them



Apply simple first aid for small wound

- Clean small wound with saline before applying antiseptic and covering with a plaster
- Seek medical help if there is no improvement after two days or if there are signs of infection



Seek medical help if wound is not healing well, or worsens

If **signs of infection** are present, such as redness, swelling, increased pain, pus, fever, or the wound starts to smell, seek medical help as soon as possible

Seek immediate medical attention if your foot is cold, pale, discoloured, numb, painful or unable to move

Where to go for further help

- Go to your doctor for advice, and if needed you can get a referral to a podiatrist for further management
- Seek early review by a podiatrist if your foot feels numb (e.g. you are unable to feel your footwear properly)

Good footwear is important

Ideal features of supportive footwear



Remember to

- Choose socks with tops that are not too tight
- Wear a pair of cotton socks or stockings with your shoes at all times
- Wear **well-fitted covered** shoes
- Check and remove any stones or sharp objects inside your shoes before wearing them
- Use **suitable footwear** for different activities (e.g. exercise with sports shoes, do daily shopping with sandals or sports shoes, and use bedroom slippers with cushioning at home)

Keep your mouth healthy



Brush your teeth and **tongue** at least twice a day (in the morning and before sleeping) for 2 minutes with fluoride toothpaste

Use a soft-bristled toothbrush; change every 3 months or when bristles spread out



If you wear **dentures**, clean them after **every meal**; remove, clean and soak dentures in water before sleeping



Clean **in between your teeth** with a floss or interdental brush at least once a day



Tilt the **brush at an angle** to your gum line, moving it in small circular motions across all front, back and chewing surfaces of your teeth, not forgetting the back molars



Visit a dentist every 6 months to 1 year to check your teeth; let the dentist know about your blood sugar control and the medication you are taking

See your dentist if you have ...



Persistent bleeding gums



White patches in your mouth



Receding gum lines



Loose or shaky adult teeth and/or widening gaps between your adult teeth



Pain in your mouth



Bad breath or dry burning sensation in your mouth

Self-care

How can I manage stress?

Physical and mental stress can affect blood sugar levels



Eat healthy



Stay **active**



Get enough rest



Plan well and **prioritise your activities**



Make **time for yourself** daily



Talk with someone who is **supportive and understanding**
How can I manage stress?

Diabetes can increase stress

- Accepting your diagnosis
- Adjusting to treatment and changes in your life
- Managing relationships

Physical and mental **stress can change blood sugar levels**

Examples of poor social support

- The significance of your condition is downplayed
- You are blamed for your condition
- Your life is micromanaged

What to do if you experience poor social support

- Share how you feel, including what was unhelpful
- If negative support persists, seek professional help

Relaxation techniques that can help to **relieve stress**



Deep breathing



Progressive **muscle** relaxation



Listening to **music**



Creative **hobbies**



Walking and other physical activities



Yoga, taichi, qigong and **meditation**

Relaxation Techniques -Progressive Muscle Relaxation

Find a comfortable position either sitting or lying down. Breathe in deeply through your nostrils and exhale through your mouth slowly. Feel your body relaxing. Repeat this.

Follow the sequence below.

- During each step in the sequence, hold for 5 seconds and slowly relax.
- Complete each step 2 times.
- If you have any pain in any of the targeted muscle groups, please move on to the next step.



1. Raise your **eyebrows** as high as 2. Squeeze your **eyelids** tightly you can





3. Open your **mouth** as wide as you can, as you might when you are yawning



4. Gently pull your head back to look at the ceiling



7. Raise your **elbows** and flex your arm muscles



10. Tighten your **buttocks by** squeezing them together



5. Bring your **shoulders** up towards your ears and tighten shoulder muscles



6. Clench your fists



8. Tuck in your **stomach**



11. Pull your toes towards you and feel the tension in your calves



9. Tighten your thighs



12. Curl your toes downwards

Continue to take deep breaths until you feel completely relaxed

How can I **fast safely** (for religious reasons)?

Before fasting



Consult your doctor if it is safe for you to fast



Adjust your diet with your healthcare professional



Adjust your medication or insulin dose with your doctor

During fasting



Self-monitor blood sugar levels regularly and check for symptoms of hypoglycaemia (low blood sugar)



If your blood sugar level is low (< 4 mmol/L), **stop your fast** and take a sweetened drink



If symptoms of low or high blood sugar persist, stop your fast and **seek medical attention**

When should **I not fast**?

When you are or have any of the following



Frequent hypoglycaemia (low blood sugar) or poorly controlled diabetes



Serious conditions such as nerve disorders, heart problems or uncontrolled hypertension



Pregnant or breastfeeding



Sick



Not been following your prescribed medication, diet and physical activities

What to do **when I am sick***?

*Feeling unwell, e.g. fever, cough, runny nose, vomitting and diarrhoea



See your **doctor**



Get plenty of rest



Continue to take **medication or insulin** as prescribed



Check your blood sugar level more often



Drink plenty of water



Have **small, frequent meals** or fluids (e.g. soups, diluted juices or sweetened drinks)

When do I have to see my doctor?





Chest pains, shortness of breath, fruity breath, dry lips or tongue



Severe **vomiting or diarrhoea** for more than 6 hours



Blood sugar levels that are **low** (< 4 mmol/L) **or high** (> 15 mmol/L) for more than 24 hours



Loss of appetite



Skin sores

How can I prepare for travel?



See your doctor for a **vaccination, if possible**

Check with your care team on **medication and insulin dosage**



Bring a **medical letter** or **diabetes card** regarding your diagnosis and medication



Get **insurance** coverage



Put necessary **medication or insulin** items in your carryon bag

How can I **manage my diabetes while abroad**?









Drink plenty of **water**

Watch your **food** and **calorie intake**

Hand carry **sugar**containing sweets

Always wear **protective shoes**



Hand carry **medication** or **insulin items**



Take **medication** as prescribed







Know where to **seek help**

How can I prepare for travel?

See your doctor for a medical check-up and vaccination Get insurance coverage Get a **doctor's letter** or **diabetes card** regarding your diagnosis and medication Pack Tips Bring at least 50% more medication and twice Medication or insulin items (e.g. insulin pens, the number of glucometer strips you need vials, pen needles, syringe, swabs) • Order them in advance Glucometer with test strips, finger-pricking device and lancets When travelling, keep your medication or • insulin in an insulated bag and in your Medication for common illnesses carry-on bag

- When travelling with insulin, keep it cool and away from direct sunlight and heat
- Plan ahead for storage of insulin when abroad

Do I need to adjust my medication schedule and insulin dosage?

Sweets to prevent hypoglycaemia

(low blood sugar)

For long-haul flights or when the time zone difference is more than 2 hours, discuss with your doctor or care team regarding possible adjustments to your medication schedule and insulin dosage

Note: Maintain your medication schedule and insulin dosage for short-haul flights or when the time zone difference is 1 to 2 hours

Alcohol affects medications and liver functions, and causes HYPOglycaemia (low blood sugar)

Don't drink!

If drinking is unavoidable:



Do not skip meals



Limit to 1 standard drink per day, choose light beer or wine spritzer



Choose **low-calorie light beer** or **dilute mixers with water**



Your **blood sugar** level is **under control**



You **do not have low blood sugar** (< 4 mmol/L) or experience low blood sugar symptoms

Alcohol affects medications and liver function, causing HYPOglycaemia (low blood sugar)

Don't drink!

If drinking is unavoidable:





Do not skip meals



Limit to 1 standard drink per day, choose light beer or wine spritzer



Choose low-calorie light beer or dilute mixers with water



Your **blood sugar** level is **under control**



You **do not have low blood sugar** (< 4 mmol/L) or experience low blood sugar symptoms

What is 1 standard drink?



330 ml light beer



100 ml wine



30 ml spirit or liqueur (e.g. brandy, vodka, whiskey)

Where to go for further help

National Addictions Management Service (NAMS) 6732 6837 https://www.nams.sg/

HPB QuitLine 1800 438 2000 http://www.healthhub.sg/programmes/88/IQuit

Smoking increases risk of diabetes and its complications, and insulin resistance

Quit smoking!

Managing common withdrawal symptoms



Warn family and friends of potential irritability



Distract yourself by doing something else



Do light exercises like brisk walking to lift your mood



Take small, regular meals



Do stretching exercises



Join the I Quit 28-Day Countdown

Smoking increases risk of diabetes and its complications, and insulin resistance

Quit smoking!

Managing common withdrawal symptoms





Warn family and friends of potential irritability



Distract yourself by doing something else



Do light exercises like brisk walking to lift your mood



Take small, regular meals



Do stretching exercises



Join the I Quit 28-Day Countdown

Where to go for further help HPB QuitLine 1800 438 2000 http://www.healthhub.sg/programmes/88/IQuit

Goals

Consider different areas of your life and which of these are **important to you**



Relationships



Health and physical well-being



Work and career



Personal and spiritual growth



Recreation and leisure

9

Consider different areas of your life and which of these are **important to you**

Identify the areas of life that are important to you

- What are some lifestyle changes you are thinking of making or have made?
- How might/ did these changes contribute to important areas of your life?

Example of healthy eating goal

Step 1: Where do you want to be?

Where I am now: "I love having fried chicken everyday!"





Where I want to be: Manage my weight better Eat more veggies and less fried food

This goal is important to me because: I want to be healthier and look better

Step 2: Set your goal

I will	
Action Stick to My Healthy Plate	
Day/Time Lunchtime on Mondays and Thursdays	
Location At work	
Time period For the next 3 months	
Start date From 14 January	

Step 3: Identify and work around potential barriers

What might get in the way	What I can do	Person(s) who can help
1. Colleagues suggest having fast food for lunch	Suggest to try out eateries with healthier options	My colleague James likes vegetables
2. I have a particular craving for curry puffs when I'm stressed	Unwind in other enjoyable ways, like walking or listening to music	Walk and chat with my neighbour in the evening
3. There is a stall that sells delicious fried food, on my way home	Take an alternative path home	NIL

- Complete the "Setting my goal" handout to set a new goal
- Use the two rulers to check that the goal is doable
 - If scores are less than 7, adjust the goal



Step 1: Where do you want to be?

Where I am now:



Where I want to be:

This goal is important to me because ...

Step 2: Set your goal

I will		
Action	Day/Time	Location
	Time period	Start date

Step 3: Identify and work around potential barriers

What might get in the way	What I can do	Person(s) who can help

Keeping up with my goal

Example of physical activity goal

Step 1: Write down the original goal

1 WIII
Action Brisk walk for 30 minutes
Day/Time
Mondays, Wednesdays
and Fridays after dinner
at 8pm

Location Along the park connector

Time period For the next 4 weeks

Start date From 18 June

	Ste So	ep 2: lve the pro	oblem	Step 3: Revise your goal
		What got in the way?	How can I work	I will
			around it?	Action
	1	l couldn't get off work	Do lunchtime exercises or	and brisk walk
		on time	pick a day without 5pm meetings	 Day/Time Lunchtime exercise on Mondays Brisk walk on Wednesdays
	2	Poor weather	Do indoor exercises	and Saturdays
				Location
	3	Low energy	l can sleep	Office gym, park connector
		level	earlier the night before or pick a	Time period Another 4 weeks
			weekend day to exercise earlier	Start date From 18 July

Keeping up with my goal

- Complete the "Keeping up with my goal" handout if there were barriers to accomplishing the goal
- Use the two rulers to check that the goal is doable
 - If scores are less than 7, adjust the goal



Keeping up with my goal

Step 1: Write down the original goal		Step 2: Solve the problem			Step 3: Revise your goal
I will		What got in the way?	How can I work around it?		I will
Action					Action
Day/Time					Day/Time
Location					Location
	-				
Time period					Time period
Start date					Start date

Finance

How your outpatient bill may be covered



Offset your bill with government subsidies first

E.g. Government subsidies at public specialist outpatient clinics and polyclinics, Community Health Assist Scheme (CHAS), Pioneer Generation (PG) and Merdeka Generation (MG) outpatient subsidies



Then, if available, **further reduce your bill by tapping on employee benefits or private medical insurance**



You can then **use your Medisave** through the **Chronic Disease Management Programme (CDMP)** to reduce out-of-pocket payment



After deduction from the sources above, you may still need to **cover the remaining bill with out-of-pocket payment**

Government subsidies at subsidised specialist outpatient clinics (SOCs) and polyclinics

Households with income						
	Subsidy at subsidised SOCs [^]		Subsidy at polyclinics	Martin		
Household Monthly Income Per Person	Subsidised services	Subsidised medications	Subsidised medications for adults*	Additional PG / MG subsidy		
\$1,200 and below	70%	75%	75%	PG: Additional 50%		
\$1,201 to \$2,000	60%	7 3 70	7 3 70	off the remaining bill		
Above \$2,000/ Unassessed	50%	50%	50%	off the remaining bill		

Households with no income					
	Subsidy at subsidised SOCs [^]		Subsidy at polyclinics	Mandala	
Annual Value [#] (AV) of Home	Subsidised services	Subsidised medications	Subsidised medications for adults*	Additional PG / MG subsidy	
\$13,000 and below	70%	7604	7604	PG: Additional 50%	
\$13,001 to \$21,000	60%	75%	75%	off the remaining bill	
Above \$21,000/ Unassessed	50%	50%	50%	off the remaining bill	

Government subsidies at subsidised specialist outpatient clinics (SOCs) and polyclinics

[^]To receive subsidies for Public SOC visits, you will first need to be assessed and referred by a CHAS clinic or polyclinic. The doctor will refer you to a Public SOC as a subsidised patient where eligible.

*Children (18 years or younger) and elderly (65 or older) already receive 75% subsidy for subsidised medications at the polyclinics

*The AV of your home is the estimated annual rent if it is rented

Government subsidies at CHAS GPs

From 1 November 2019

			CHAS Contract of the Contract Contract of the Contract of the Contract Contract of the Contract of the Contrac	Kerdeka Generation	PORES.
PCHI (Per Capita Household Income)	Above \$2,000	\$1,201 to \$2,000	\$1,200 and below	All Merdeka Generation seniors	All Pioneers receive
AV (Annual Value) of Home (For households with no income)	Above \$21,000	\$13,001 -\$21,000	\$13,000 and below	3,000 and below regardless of income or AV of home	
Acute (common illnesses)	-	Up to \$10 per visit	Up to \$18.50 per visit	Up to \$23.50 per visit	Up to \$28.50 per visit
Simple Chronic	Up to \$28 per visit, capped at \$112 per year	Up to \$50 per visit, capped at \$200 per year	Up to \$80 per visit, capped at \$320 per year	Up to \$85 per visit, capped at \$340 per year	Up to \$90 per visit, capped at \$360 per year
Complex Chronic	Up to \$40 per visit, capped at \$160 per year	Up to \$80 per visit, capped at \$320 per year	Up to \$125 per visit, capped at \$500 per year	Up to \$130 per visit, capped at \$520 per year	Up to \$135 per visit, capped at \$540 per year
Dental	-	\$50 to \$170.50 subsidy per procedure (denture, crown, root canal treatment only)	\$11 to \$256.50 subsidy per procedure (dependent on procedure)	\$16 to \$261.50 subsidy per procedure (dependent on procedure)	\$21 to \$266.50 subsidy per procedure (dependent on procedure)
Recommended Health Screening under Screen for Life (SFL)	A fixed fee of \$5 with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required	treatment only) procedure) A fixed fee of \$2 with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required		A fixed fee of \$2 with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required	Free with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required

Government subsidies at CHAS GPs

Pioneer Generation eligibility

- Born on or before 31 December 1949
- Received citizenship by 31 December 1986

Merdeka Generation eligibility

- Born from 1 Jan 1950 to 31 Dec 1959; and
- Received citizenship on or before 31 Dec 1996

OR

- Born on or before 31 Dec 1949; and
- Received citizenship on or before 31 Dec 1996; and
- Did not receive Pioneer Generation Package

Type of visit

Acute (common illnesses)

 Capped at 24 visits for common illnesses per patient per calendar year, across all CHAS clinics, from 2020 onwards

Simple

• "Simple" refers to visits for a single chronic condition

Complex

• "Complex" refers to visits for multiple chronic conditions, or a single chronic condition with complication(s)

Refer to MediSave pages for the list of chronic conditions under the Chronic Disease Management Programme (CDMP) for CHAS Chronic conditions

Screen for Life

 Recommended health screening refers to screening for diabetes, high blood pressure, high blood cholesterol, colorectal cancer and cervical cancer

Government subsidies

at subsidised specialist outpatient clinics (SOCs) and polyclinics

Households with income						
Household	Subsidy at sub	osidised SOCs^	Subsidy at polyclinics	Verdeka Georgian		
Monthly Income Per Person	Subsidised services	Subsidised medications	Subsidised medications for adults*	Additional PG / MG subsidy		
\$1,200 and below	70%	7504	7604	PG: Additional 50%		
\$1,201 to \$2,000	60%	7370	7370	off the remaining bill MG: Additional 25%		
Above \$2,000/ Unassessed	50%	50%	50%	off the remaining bill		

Households with no income								
Annual Value [#] (AV) of Home	Subsidy at subsidised SOCs^		Subsidy at polyclinics	Verdeka Generation				
	Subsidised services	Subsidised medications	Subsidised medications for adults*	Additional PG / MG subsidy				
\$13,000 and below	70%	7504	75%	PG: Additional 50% off the remaining bill MG: Additional 25%				
\$13,001 to \$21,000	60%	7370						
Above \$21,000/ Unassessed	50%	50%	50%	off the remaining bill				

[^]To receive subsidies for Public SOC visits, you will first need to be assessed and referred by a CHAS clinic or polyclinic. The doctor will refer you to a Public SOC as a subsidised patient where eligible

^{*}Children (18 years or younger) and elderly (65 or older) already receive 75% subsidy for subsidised medications at the polyclinics

[#]The AV of your home is the estimated annual rent if it is rented out. It is assessed by IRAS.

Government subsidies at CHAS GPs

From 1 November 2019	CHASS Denors from Anno Sector Denors from Anno Sector Network			Verdeka Generation	WELINE LIN Kasming
PCHI (Per Capita Household Income)	Above \$2,000	\$1,201 to \$2,000	\$1,200 and below	All Merdeka Generation seniors receive	All Pioneers receive CHAS benefits, regardless of income or AV of home
AV (Annual Value) of Home (For households with no income	Above \$21,000	\$13,001 to \$21,000	\$13,000 and below	CHAS benefits, regardless of income or AV of home	
Acute (common illnesses)	-	Up to \$10 per visit	Up to \$18.50 per visit	Up to \$23.50 per visit	Up to \$28.50 per visit
Simple Chronic	Up to \$28 per visit, capped at \$112 per year	Up to \$50 per visit, capped at \$200 per year	Up to \$80 per visit, capped at \$320 per year	Up to \$85 per visit, capped at \$340 per year	Up to \$90 per visit, capped at \$360 per year
Complex Chronic	Up to \$40 per visit, capped at \$160 per year	Up to \$80 per visit, capped at \$320 per year	Up to \$125 per visit, capped at \$500 per year	Up to \$130 per visit, capped at \$520 per year	Up to \$135 per visit, capped at \$540 per year
Dental	-	\$50 to \$170.50 subsidy per procedure (denture, crown, root canal treatment only)	\$11 to \$256.50 subsidy per procedure (dependent on procedure)	\$16 to \$261.50 subsidy per procedure (dependent on procedure)	\$21 to \$266.50 subsidy per procedure (dependent on procedure)
Recommended Health Screening under Screen for Life (SFL)	A fixed fee of \$5 with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required	A fixed fee of \$2 with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required		A fixed fee of \$2 with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required	Free with SFL Invitation letter, for recommended screening test(s) and first post-screening consultation, if required

Pioneer Generation eligibility

- Born on or before 31 December 1949
- Received citizenship by 31 December 1986

Merdeka Generation eligibility

- Born from 1 Jan 1950 to 31 Dec 1959; and
- Received citizenship by 31 December 1986 OR
- Born on or before 31 Dec 1949; and
- Received citizenship on or before 31 Dec 1996; and
- Did not receive Pioneer Generation Package

MediSave for outpatient bills



Chronic Disease Management Programme (CDMP)

- Specific chronic diseases
- Requires 15% co-payment
- Part of MediSave500, i.e. up to \$500 per year
 - Patients can tap on accounts of immediate family members (i.e. spouse, parents and children)
 - Patients who are SC/PR can tap on grandchildren's and sibling's MediSave



Flexi-MediSave

- For patients \geq 60 years old
- Can be used for the 15% co-payment under CDMP
- Up to \$200 per patient per year
 - Patient's own and spouse's account may be used, provided spouse is also ≥ 60 years old

MediSave for outpatient bills

MediSave

- National medical savings scheme
- Can help to pay for personal or immediate family members' hospitalisation, day surgery, and certain outpatient expenses

MediSave500

• Scheme for outpatient care

Flexi-MediSave

 Can be used at Specialist Outpatient Clinics (SOC) in public hospitals and national specialty centres, polyclinics, and participating Community Health Assist Scheme (CHAS) Medical GP clinics

Chronic Disease Management Programme (CDMP)

20 conditions for outpatient treatment

- Diabetes (including pre-diabetes)
- Hypertension
- Lipid disorders
- Stroke
- Asthma
- Chronic Obstructive Pulmonary Disease (COPD)
- Schizophrenia
- Major depression
- Bipolar disorder
- Dementia
- Osteoporosis

Patients can tap on CDMP after

- Certification by a doctor that they have one of the listed chronic conditions
- Signing the MediSave authorisation form

- Benign Prostatic Hyperplasia (BPH)
- Anxiety
- Parkinson's disease
- Chronic kidney disease (nephrosis/ nephritis)
- Epilepsy
- Osteoarthritis
- Psoriasis
- Rheumatoid arthritis
- Ischaemic heart disease

MediSave for outpatient bills



Chronic Disease Management Programme (CDMP)

- CDMP is part of MediSave500, a scheme for outpatient care
- Requires 15% co-payment
- You can withdraw up to \$500 per year¹ for specific chronic diseases:
 - Diabetes (including pre-diabetes)
 - Hypertension
 - Lipid disorders
 - Stroke
 - Asthma
 - Chronic Obstructive Pulmonary Disease (COPD)
 - Schizophrenia
 - Major depression
 - Bipolar disorder
 - Dementia
 - Osteoporosis
 - Benign Prostatic Hyperplasia (BPH)
 - Anxiety
 - Parkinson's disease
 - Chronic kidney disease (Nephrosis/nephritis)
 - Epilepsy
 - Osteoarthritis
 - Psoriasis
 - Rheumatoid arthritis
 - Ischaemic heart disease



Flexi-MediSave

- For patients ≥ 60 years old
- Can be used for the 15% co-payment under CDMP
- Up to \$200 per patient per year²
- Can be used at Specialist Outpatient Clinics (SOC) in public hospitals and national specialty centres, polyclinics, and participating Community Health Assist Scheme (CHAS) Medical GP clinics

To start using MediSave for the Chronic Disease Management Programme (CDMP)

- Visit a clinic/ doctor who is registered with MediSave for CDMP to:
 - Be certified by a doctor that you have one of the listed chronic conditions
 - Sign the MediSave authorisation form
- If you are using multiple accounts, your family members' consent will have to be provided

¹Patients can tap on accounts of immediately family members (i.e. spouse, parents and children); Patients who are SC/PR can tap on grandchildren's and sibling's MediSave

²Patient's own and spouse's account may be used, provided spouse is also \geq 60 years old
Acknowledgements

Acknowledgements

Patient Empowerment for Self-care Working Group

Chairperson	Dr Eric Khoo (NUH)
Advisors	Assoc Prof Sum Chee Fang (AdMC/KTPH) Prof Tai E Shyong (NUHS)
Members	Dr Anthony Chao (Boon Lay Clinic & Surgery) Mr Arumugam Ardhanari (Patient) Ms Chee Ching Yee (SHP) Ms Christine Chern (NHGP) Ms Fidlya Binte Kamsani (Caregiver) Dr Kalpana Bhaskaran (DS) Dr Agnes Koong Ying Leng (SHP) Ms Julia Lee (TOUCH Diabetes) Ms Lim Poh Choo Patsy (SHP) Dr Low Kang Yih (NHGP) Ms Ng Soh Mui (NUP) Dr Jonathan Pang (Frontier PCN) Ms Christina Tan (Patient) Dr David Tan Hsien Yung (NUP) Ms Brenda Tan Yue Lin (HPB) Mr SB Viknesan (NAMS/IMH) Dr Wong Mei Yin (NHGP)
	Mr Yong Ming Fung (AIC)
Community Support Advisor	Ms Julie Seow (formerly Life Coach at TOUCH Diabetes)

Acknowledgements

Professional Groups

Association of Diabetes Educators Singapore (ADES)	Ms Lim Pei Kwee (KKH)
College of Family Physicians (CFPS)	Dr Ng Lee Beng (SGH)
Pharmaceutical Society of Singapore (PSS)	Ms Irene Quay Siew Ching (KKH) Ms Debra Chan (TTSH) Ms Lim Kae Shin (KKH) Ms Lim Shu Fang (TTSH)
Podiatry Association Singapore (PAS)	Ms Heng Li Wen Marabelle (SGH)
Singapore Nutrition and Dietetics Association (SNDA)	Ms Ong Li Jiuen (CGH) Mr Chad Han (NUH) Ms Izabela Kerne (Advanced Laparoscopic Surgery) Ms Koh Pei Ling (AdMC/ KTPH) Ms Loh Win Nie (CGH)
Singapore Physiotherapy Association (SPA)	Mr Muhammad Jazimin Bin Haron (KTPH) Ms Junisha Binte Jumala (CGH) Dr Cindy Ng Li Whye (SGH) Ms Soh Seok Chin Cindy (NHGP) Ms Virginia Tai (SHF)
Sport Singapore, Ministry of Culture, Community and Youth (MCCY)	Mr Kenneth McGeough (Sport Singapore) Mr Aw Boon Wei (Sport Singapore)

An initiative under the War on Diabetes



Partners



Cluster Partners





Brought to you by







SingHealth

Defining Tomorrow's Medicine