

OFFICIAL

FACT SHEET | SEPTEMBER 2023

Endoscopy and type 1 diabetes (insulin injections)

RSS Diabetes Service

An endoscopy involves fasting, changes in your diet, physical activity levels, diabetes medications and may cause stress, anxiety and discomfort. These factors can also disrupt your usual blood glucose control and could result in hypoglycaemia (low blood glucose) or hyperglycaemia (high blood glucose).

Preparing for a procedure and responding to changes to your blood glucose following your procedure can reduce your risk of infections. Your diabetes team can help you during your admission and support your safe discharge home.

How can I prepare for my procedure?

Please bring with you to the hospital:

- All your medications and a current list.
- Your blood glucose/ketone meter, continuous glucose monitor (CGM), relevant consumables, your glucose diary and/or CGM system report. In most instances, you can continue to use your own equipment and your diary.
- Your insulin injecting devices and additional consumables. You may like to use your own insulin pens before or after your procedure.
- A copy of your Hypoglycaemia Action Plan and Hyperglycaemia/Sick Day Action Plan.

Continue to check your blood glucose. If you have low blood glucose, follow your *Hypoglycaemia Action Plan*. If you have high blood glucose, check your blood ketone level and follow your *Hyperglycaemia Action Plan*.

Please ask a family member or friend to bring you. Do not drive yourself to your hospital admission.

I am also on oral diabetes medication. What about this?

If you use **oral diabetes medication** (e.g. Metformin or a sodium glucose co-transporter 2 (SGLT2) inhibitor), please continue your usual dose up until the day **before** your procedure.

Are there specific instructions for my type of insulin?

Yes, an endoscopy requires a period of fasting and specific adjustments to your insulin on the day of the procedure.

OFFICIAL

What to do on the day prior to the procedure?

For long acting (basal) insulin

- Continue the usual insulin dose/s OR
- Reduce your evening basal insulin dose by 20% if you have had recent overnight hypoglycaemia.

For rapid acting (mealtime) insulin

• Continue your usual mealtime rapid acting insulin doses.

For pre-mixed insulin

- Continue your usual insulin dose/s OR
- Reduce your evening insulin dose by 20% if you have had recent overnight hypoglycaemia.

For co-formulation insulin

- Continue your usual insulin dose/s OR
- Reduce your evening insulin dose by 20% if you have had recent overnight hypoglycaemia.
- Continue to check your blood glucose at your usual times and if concerned.
- If you have low blood glucose, follow your Hypoglycaemia Action Plan.
- If you have high blood glucose, follow your Hyperglycaemia Action Plan.

What to do on the day of the procedure?

- On the day of procedure, you are allowed clear fluids up until you are required to fast.
- Do not take your diabetes tablets.

For long acting (basal) insulin

• Continue usual insulin dose/s

For rapid acting (mealtime) insulin

- If your procedure is in the morning, you will be fasting from 6:00am:
 - o do not take your breakfast insulin bolus dose as you will not be eating.
 - a correction bolus insulin dose (based on your insulin sensitivity factor/correction factor) may be given at breakfast time if you are above your blood glucose target (even when fasting).
- If your procedure is in the afternoon, you will be fasting from 11:00am after a light breakfast:
 - reduce your breakfast insulin bolus dose to match the carbohydrates in the light breakfast to be consumed OR reduce your 'set' breakfast dose by 50%.
 - a correction bolus insulin dose (based on your insulin sensitivity factor/correction factor) may be given at breakfast time if you are above your blood glucose target (even when fasting).

For pre-mixed insulin

- If your procedure is in the morning, you will be fasting from 6:00am: reduce your usual breakfast insulin dose by 50%.
- If your procedure is in the afternoon, you will be fasting from 11:00am after a light breakfast: reduce your usual breakfast dose by 50%.

For co-formulation insulin

- If your surgery is in the morning, you will be fasting from 6:00am: do not take your usual breakfast insulin dose.
- If your surgery is in the afternoon, you will be fasting at 11:00am after a light breakfast: reduce your usual breakfast insulin dose by 50%.
- Check your blood glucose every 1-2hours from the time you wake until the time you arrive at the hospital.
- If you have low blood glucose, follow your Hypoglycaemia Action Plan.

OFFICIAL

• If you have high blood glucose, follow your *Hyperglycaemia Day Action Plan* which will blood ketone testing and correction bolus insulin dose instructions. A blood ketone level greater than 0.6mmol/L may indicate that you are at risk of developing diabetic ketoacidosis.

What will happen when I am admitted?

Please inform medical and nursing staff of any of the following:

- hypoglycaemia and treatment used
- hyperglycaemia and action taken.

The medical and nursing staff will check your blood glucose. If your blood glucose is above 10.0mmol/L, a correction bolus insulin may be used to return your blood glucose levels to target, aid recovery and assist your body to fight infection.

Where possible, self-care of your insulin devices are encouraged and supported. Regional hospitals require people with type 1 diabetes using insulin device/s to use the supplied safety pen needles. Your medical and nursing staff need to know what insulin device/s you are using so that they can prevent complications and assist you in your recovery.

What will happen after my procedure?

Your insulin injections and any oral diabetes medication (e.g. Metformin or sodium glucose co-transporter 2 (SGLT2) inhibitor) will be restarted as soon as possible after your procedure. This is usually when you are comfortably eating and drinking again.

What support do I have on discharge?

The medical and nursing staff will assist you to restart your medications and plan your discharge. They will also be available after you are discharged home to monitor your recovery and discuss any concerns that you may have.

Your diabetes team are available to discuss your return to your usual diabetes management in preparation for your discharge home or provide alternative instructions. If required, your diabetes team can arrange a follow up appointment to review your diabetes management after discharge.

Please ask a family member or friend to take you home. Do not drive yourself.

Additional information

Where can I get more information?

- Diabetes Australia
- National Diabetes Services Scheme
- Juvenile Diabetes Research Foundation
- My D (for under 25s)

For more information

Rural Support Service Diabetes Service PO Box 3017, Rundle Mall ADELAIDE SA 5000 Email: <u>Health.DiabetesService@sa.gov.au</u>

www.chsa-diabetes.org.au

www.sahealth.sa.gov.au/regionalhealth

Public-I3-A2

© Rural Support Service, SA Health, Government of South Australia. All rights reserved.

www.diabetesaustralia.com.au www.ndss.com.au www.jdrf.org.au www.ndss.com.au/MyD



