



Thanks to the events of the past few years, we're in our houses more than ever before. Many of us work, learn and socialise in our homes – and of course we sleep there, too. That's a lot of time inside!

It's common to have developed habits that make managing type 1 diabetes (T1D) trickier, doing things like staying up late and sleeping in, having trouble sticking to a routine, and eating at odd times, all of which is completely understandable and normal.

But these habits all affect how we snack – and how our blood glucose levels react to our snacking – in weird and wonderful ways. With that in mind, it's important we tune up our knowledge of snacking with T1D.

To further Tune Up your nutrition, you can:

- Visit jdrf.org.au/resources and download Straight to the Point, JDRF's guide for adults living with T1D, or the Teen Toolkit, for parents of teens living with T1D
- Follow us at facebook.com/jdrfoz & instagram.com/jdrfaus

SNACKING 101: AN EXPLAINER

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WHAT'S A HEALTHY SNACK?

Healthy snacks are food and drink choices which add nutritional value to your diet, while poor quality snacks provide excess energy, high amounts of added sugars and unhealthy fats. These combined elements can result in too much weight gain.

When snacking, it's best to choose snacks that contain a source of protein, such as yoghurt or nuts, because these options fill you up and prevent over-eating. Vitamin C rich fruits such as kiwi fruit, oranges and mandarins are also great snacks and can help prevent you catching a cold or the flu.

SNACKING: GOOD OR BAD?

The simple answer is it depends! To tell the difference between "good" and "bad" snacking with T1D, we need to look at the amount we're eating or drinking, how often we're doing it, the type of food or drink, and how well it's being covered with insulin.

There's a big difference between having a couple of planned portioned healthy snacks a day and grazing. Grazing occurs when we frequently eat varied amounts of food at random times of the day/night, often close together. The quality of our diet often slips when we graze because we tend to choose high energy and nutrient poor options.

Grazing can impact many aspects of our lives, such as:

- Our main meals – grazing ruins our appetite, making us choose less nutritious foods or skip meals
- Our teeth – eating continuously (particularly sugary foods) is bad for teeth and can lead to tooth decay
- Our weight – if we eat too often, our body is unable to use up the energy we're putting into it, so it's stored, and we gain weight
- Our kids – grazing is a common cause of fussy eating behaviours and meal refusal in children (which is an additional challenge for those living with T1D).

However, if incorporated into a routine eating plan, a couple of small snacks a day can help to meet nutritional requirements, regulate our energy and boost our concentration throughout the day (particularly in growing children).

SNACKING AND BLOOD GLUCOSE LEVELS

Frequent snacking with T1D can cause continual high blood glucose levels (BGLs). In fact, studies have shown that those who skip meals and snack more than twice a day have a higher HbA1c. They also display less healthy dietary and leisure habits (eg, more screen time).

Conversely, routine meal patterns in children and young people using intensive insulin therapy has been associated with lower BGLs. There are more benefits to keeping a routine, including making time for carb counting and giving insulin before eating.

MANAGING SNACKS WITH T1D

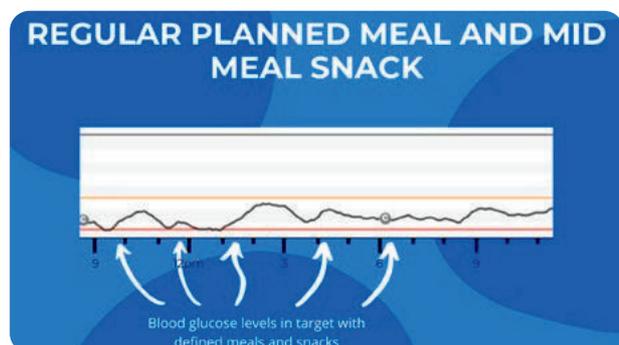
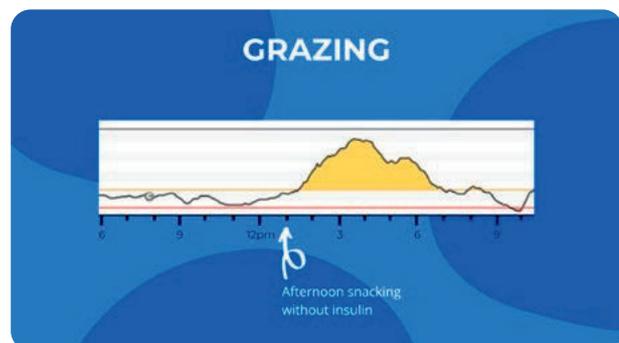
People living with T1D should base their diet around a routine eating plan. By following a routine, you're more likely to think about food choice, check the portion for accurate carb counting, and give insulin before eating, helping to maintain BGLs in target. Spacing meals and snacks apart will also prevent insulin stacking and make sure you have a good appetite for healthy meals.

Some tips for creating a routine include:

- Focus on three bigger main meals
- Make your snacks small and space them out (eg, snacking two to three hours before and after meals during the day)
- Avoid eating before bed
- Designate timed breaks for snacks and meals while at home, like you would have at school, to avoid continuous grazing.

It's also important to note that with intensive insulin therapy, snacks shouldn't need to be eaten regularly to prevent hypos. Instead, they should be a quick, nutritious energy burst to fuel kids learning and play.

The CGM traces below highlight the difference between afternoon grazing and a regular eating routine with a mid-morning and mid-afternoon snack.



HOW SLEEP IMPACTS SNACKING

Good sleep is important in preventing craving foods that are high in saturated fat and sugar. Studies show that staying up late at night is related to skipping breakfast; this can lead to unhealthy snacking, which causes excessive weight gain.

A good bedtime routine is important. It's necessary to turn off all screens early to stop you staying awake.