



# GLP-1RA / GIP in Type 1 Diabetes FAQ

*This is as summary of the full and evolving FAQ designed for people living with type 1 diabetes (T1D) and healthcare professionals. It provides detailed guidance on GLP-1 receptor agonists (GLP-1RA, e.g. liraglutide, semaglutide) and dual GLP-1/GIP agonists (e.g. tirzepatide) in T1D.*

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*Evidence comes from: clinical trials led by Professor Viral Shah and colleagues, international consensus guidelines expert opinion pieces, and resources from The Glucose Never Lies® - See the live [FAQ](#) to keep up to date.*

## Q1. Does everyone need a 30% insulin reduction?

No — insulin reduction must be individualised. Suggested starting bands:

- HbA1c >9% or TIR <40% → reduce ~10%
- HbA1c 7.5–9% or TIR 40–60% → reduce ~20%
- HbA1c <7.5% or TIR >60% → reduce up to ~30%
- If TBR >4% → reduce ~30% but monitor closely

*Algorithm:* start with smallest reduction compatible with baseline risk → monitor via CGM → titrate every 1–2 weeks.

## Q2. How should reductions be applied across regimens?

### MDI or standard pumps (50:50 basal:bolus)

Reduce both basal and bolus equally.

### Basal-heavy (>60% basal)

Reduce more off the basal.

### Bolus-heavy (>60% bolus)

Reduce more off the bolus

### t:slim X2 with Control IQ

Program multiple profiles with relaxed carb ratios, basal rates and correction factors

–10%, –20%, –30%, –40%

Switch between profiles based on glucose results

### Omnipod 5 with SmartAdjust

#### CamAPS Fx

Relax carb ratios

Start higher targets

#### iLet

Enter ~10–40% fewer carbs or choose the “smaller meal” option

### Medtronic 780G with Smart Guard

Relax carb ratios

Start with higher target

Extend active insulin time if required

*Fallback:* reduce carb entries (20–40%) if adjusting system settings are complex.

## Q3. GLP-1RA vs dual GLP-1/GIP?

### GLP-1RA (liraglutide, semaglutide)

RCTs show ~30% insulin reduction, weight loss, improved TIR.

### Dual GLP-1/GIP (tirzepatide)

Real-world observational data suggest greater weight loss and insulin reduction, but no RCTs yet in T1D.

## Q4. What about DKA and ketosis risk

Trial results:

- ADJUNCT trials: higher ketosis at high liraglutide doses.
- Semaglutide: NEJM double blind RCT: no DKA
- Tirzepatide observational: no DKA.

Mitigation strategies:

- Never stop basal insulin.
- Educate on ketone monitoring.
- Avoid overly aggressive insulin reduction.
- Maintain carb/protein intake if appetite is suppressed.

*Live FAQ:* <https://theglucoseneverlies.com/faq-glp1-t1d/>

# Managing Side Effects & Optimising Treatment

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## Q5. How can nausea and GI side effects be managed?



Start with lowest dose; titrate every 4 weeks.



Eat smaller, frequent meals.



Avoid large fatty meals during titration.



Moderate fibre intake until tolerated.

## Q6. How can lean mass and bone health be protected?

### Nutrition & Exercise

- Protein ~1.5 g/kg/day across 3–4 meals.
- Resistance training 2–4×/week.

### Monitoring

- Monitor vitamin D, iron, B12.
- Consider bone monitoring — long-term incretin effects are uncertain.

## Q7. How do I reduce risk of hypoglycaemia during insulin adjustments?

- Use CGM with alerts enabled; review data often.
- In AID systems: begin with higher glucose targets, lower gradually.
- For MDI and open-loop pumps, use a higher glucose target when giving correction doses.

## Q8. How do I avoid nutritional deficiencies if appetite is low?

### Food Choices

Prioritise nutrient-dense foods: lean protein, colourful veg, whole grains, nuts, seeds.

### Fibre Management

Use lower-fibre veg if fullness is an issue.

### Supplements

Consider a multivitamin/mineral.

### Monitoring

Bloodwork: renal panel, LFTs, vitamin D, iron, B12.

## Q9. Is there benefit for people with normal weight?

**Yes.** Potential benefits include:

- Reduced postprandial glucagon.
- Lower insulin needs.
- Smoother glucose stability.

But risks of GI side effects are higher without a weight-loss goal. Use minimum effective dose and emphasise lean mass preservation.

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