

FUNDED INSULIN PUMPS

Comparison Guide



Two insulin pumps will be funded by Pharmac from October 1st 2024. Both will have the ability to provide automated insulin delivery with a compatible continuous glucose monitor. More information is available on their websites.

	Tandem T: Slim X2 (www.NZMSdiabetes.co.nz)	mylife YpsoPump (www.pharmacodiabetes.co.nz)
HCL Algorithm	Control IQ	CamAPS FX
Location of Algorithm	Pump-integrated	App based (currently only Android – Apple iOS pending) – Phone must be within 6m of pump
Pump Type	Tethered (tubed)	Tethered (tubed)
Continuous Glucose Monitor (CGM)	Dexcom G6 Dexcom G7 FreeStyle Libre 3 Plus pending	Dexcom G6 FreeStyle Libre 3 Plus pending Dexcom G7 pending
Bolus Delivery Operation	Pump Phone compatibility for remote bolus option pending	Android smartphone Apple iOS smartphone pending Pump (manual boluses by units of insulin)
Pump Charging mechanism	Rechargeable	AAA Alkaline battery
Correction Target	6.1mmol/L	Individualised from 4.4-11.1mmol/L (default 5.8mmol/L)
Exercise/Activity treatment values	7.8-8.9mmol/l	No specific target. Ease off mode can be used for exercise with a programmed duration 0-24 hours
Sleep Mode treatment values	6.25-6.7mmol/l	Individualised glucose target can be adjusted overnight
Bolus calculator based on	Carbohydrates entered and/or CGM value, based on programmed bolus calculator settings	Carbohydrates entered and/or CGM value, based on programmed bolus calculator settings
Automatic correction settings	If predicted glucose in 30mins >10mmol/l & increasing/max delivery is reached	Frequent extended microboluses every 8-12 mins based on current and predicted glucose levels and estimated insulin requirements to reach glucose target
Set up requirements	TDD, body weight, basal rates, ICR and ISF, max basal and max bolus	TDD, body weight, basal rates and ICR required for initial set-up
Adjustable settings in automation	Basal rates, ICR and ISF	Target glucose and ICR. Ease off and Boost modes
Learning mechanisms	Predicts glucose 30mins ahead, insulin delivery is adjusted every 5 minutes, remembers TDD over previous 6 days Uses body weight and TDD for initial start-up and resuming HCL	Predictive control: the algorithm calculates the insulin requirement for the next 2.5-4 hours. Adaptive model: insulin delivery is adjusted every 8-12 minutes
Remote monitoring for parents and carers	Glucose data via Dexcom follow app only if wearer has mobile phone	Follow - Mylife CamAPS Companion App SMS (Text) based monitoring
Data share with HCP's	Glooko (download needed) Cloud based Tandem Source pending	Glooko (real-time)
Minimum and maximum daily dose	10-100 units	5-350 units
Pump capacity	300 units	160 units – can change reservoir without changing infusion set
Approved insulins	Humalog and Novorapid	Apidra, Humalog and Novorapid
Licensed in pregnancy	No	Yes
Age range	6 years and over, but may be used for younger children if deemed safe by a specialist	1 year and over
Demo pump app/simulator available	Yes: t:simulator	Yes: mylife CamAPS FX

As kaitiaki (carers/guardians) of diabetes related services, it is a collective responsibility to establish an environment that facilitates a pathway for people with diabetes to navigate te ao mate huka - the world of diabetes¹.

¹ Te Kaiwhakahaere Māori te Roopu mate huka Debbie Rawiri - Te Whatu Ora Waitaha Canterbury