Insulin Pump Comparison Table

Pumps	Medtronic 780G	Tandem T:Slim x2	YpsoPump	Omnipod 5
Monash Children's Hospital				
Approved For	All Ages (Smart Guard for ≥7yo)	All Ages (Control IQ for > 6yo)	All Ages (Auto Mode for > 1yo)	All Ages (Auto Mode > 2yo)
Funding	Private Health Insurance Loan Subscription (discuss with company)	Private Health Insurance Loan Subscription (discuss with company)	Private Health Insurance JDRF Loan Subscription (discuss with company)	Private Health Insurance Subscription (discuss with company)
Type of Sensor	Guardian Link 4 Bluetooth	Dexcom G6 / G7	Dexcom G6	Dexcom G6 / G7 / Libre2+
Phone Connectivity	Yes, Minimed Mobile App (Glucose Levels only)	Yes, Dexcom G6 / G7 App Tandem Source App (Bolusing available via app)	Yes, Pump is fully functional via the CamAPS app	No, uses a 'Controller' (handheld set) to fully function the Pod. Nil compatibility with phone
What is the Automation	Smart Guard	Control-IQ	Auto Mode	Auto Mode
Basal Automation	Automated basal insulin delivery calculated based on total daily insulin from past 2-6 days ("auto basal")	Automated basal insulin delivery that increases or decreases programmed basal rates	Auto mode basal insulin delivery is directed via the algorithm and adjusts basal insulin by using extended boluses every 10-12 mins.	The Omnipod 5 continuously delivers basal (background) insulin at a customized rate, adjusting every five minutes to maintain target glucose levels
Bolus Automation	Auto-correction bolus if glucose > 6.7mmol/L	Auto-correction bolus (max 1/hour) if glucose predicted to be >10mmol/L delivers 60% of	Auto-corrections administered via the algorithm which calculates correction factors	When glucose levels rise above the target range, the system administers small,

		calculated dose	and delivers as an extended bolus every 10-12 minutes. Insulin increases when the glucose is rising.	automated microboluses of insulin every five minutes to bring levels back within the desired range.
Can Users Adjust Basal Rates?	No	Yes	No	No
Can Users Adjust Insulin to Carbohydrate Ratios?	Yes	Yes	Yes	Yes
Correction Factor (Sensitivity)?	No	Yes	No	Yes
Can Users Adjust Active Insulin Time?	Yes	No- fixed at 5 hours	No- Algorithm self-adjusts	Yes
Target BGL in Hybrid Closed Loop	Algorithm treats to a target level which is adjustable at **5.5, 6.1 or 6.7mmol/L**	Algorithm treats to a target range between **6.2-8.3mmol/L**	Algorithm treats to a target level which is adjustable at **4.1-11.0mmol/L**	Algorithm treats to a target level which is adjustable at **6.1 – 8.3mmol/L**
What Are the Special Features in Automation?	**Temp Target:** Changes target glucose to 8.3mmol/L for set duration (30 min - 12 hr)	**Exercise Activity:** Changes target range to 7.8mmol/L (manual start/stop only) Sleep Activity: Narrows target range to 6.2mmol/L -6.7mmol/L and prevents auto corrections. Intended to be used during sleep	**Boost:** 'Boost' is a mode of operation that can be used when more insulin is needed (duration from 0 to 13 hours). **Ease Off:** 'Ease-off' can be used when less insulin is needed (duration from 0 to 24 hours)	**Activity:** Activating the Activity feature sets the system's target glucose to (8.3 mmol/L).
Reservoir Volume	3ml (300 units)	3ml (300 units)	1.6ml (160 units)	2ml (200 units)
Basal Range	0.0 – 35 units/hr	0.1 – 15 units/hr	0.00 – 40 units/hr	0.0 – 30 units/hr
Bolus Range	25 units MAX	30 units MAX	30 units MAX	30 units MAX
Basal Increments	0.025	0.100	0.100	0.05
How often do I change the infusion Set?	2 days – 1 week	2-3 days	2-3 days	3 days