BCCH Insulin Pump Readiness Workshop

BCCH Diabetes Team

Pump Workshop Agenda

- BCCH Pump Workshop Video
- Deep Dive into Specifics of Health Canada—Approved Pumps
- Pump Side-by-Side Comparison
- Glooko®, CareLink[™] and Tandem Source
- Pump Company Contact Information
- Pump Therapy Checklist
- Insulin Pump Readiness & Carb Counting Assessments
- Pump Process and Next Steps





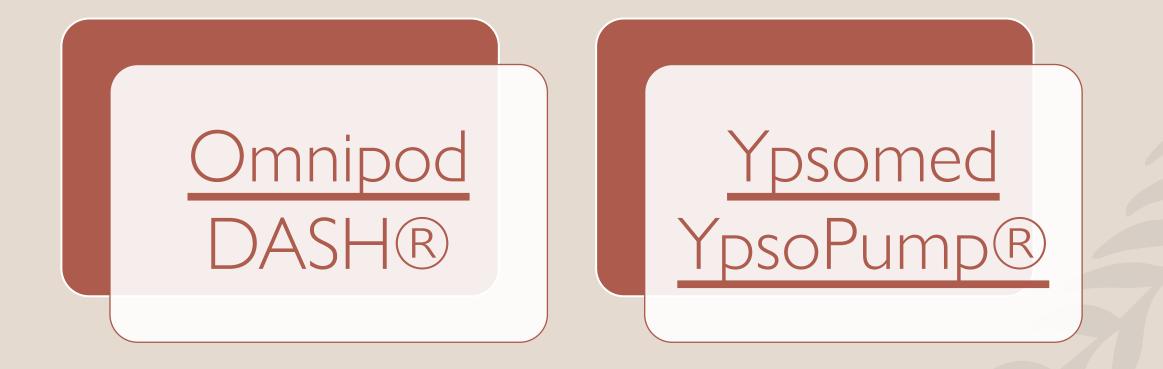
BCCH Insulin Pump Program Workshop

Endocrine & Diabetes Program

BCCH Diabetes Insulin Pump Program Workshop (phsa.ca)

Pumps Available in Canada

Non-AID Pumps in Canada



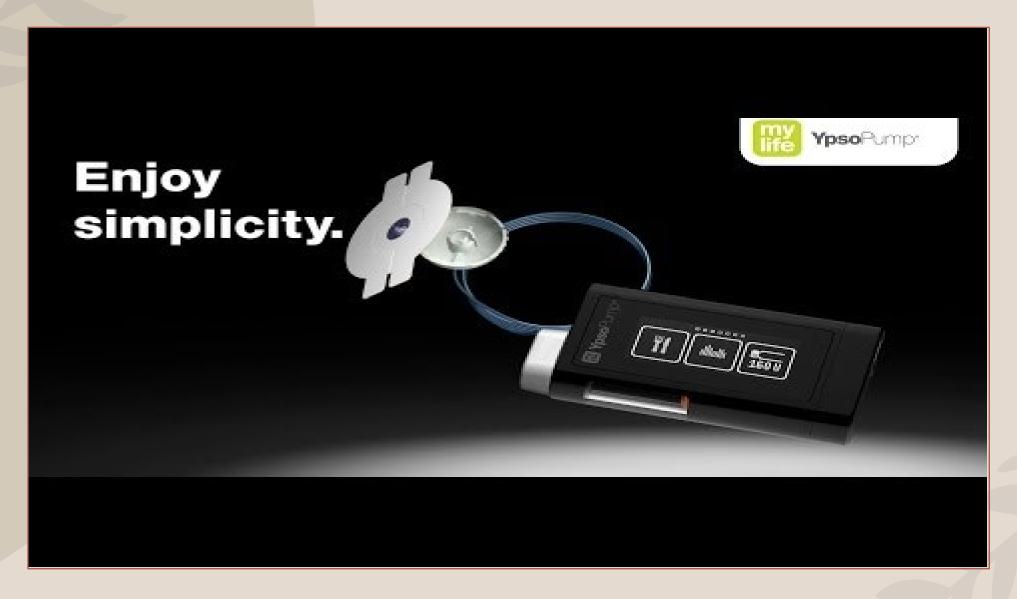


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Omnipod DASH®

- Only tubeless pump
- Need to be on 8–10 units a day minimum to use
- Currently does not pair with any CGM
- Tier 1 Pump pods are covered by BC PharmaCare once deductible is met. Covered by many extended benefit companies
- Need to carry stand alone PDM, does not connect to phone.
 PDM is a deactivated android phone
- Minimum fill 85 units, maximum fill is 200 units
- Omnipod® 5 AID system, recently Health Canada approved

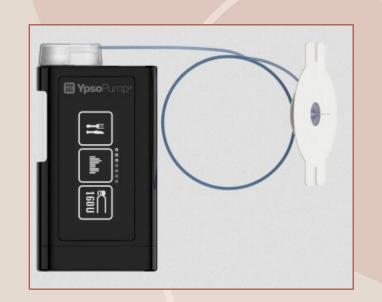




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Ypsomed YpsoPump®

- Can pre-fill insulin cartridges up to 30 days in advance
- Maximum fill is 160 units
- Tier 1 Pump \$800 starter kit may be covered by extended benefits. Infusion sets are covered by BC PharmaCare once deductible is met
- Does not connect with any CGM yet
- Has phone app to calculate insulin doses
- Sales currently on hold pending release of new technology



Automated Insulin Delivery (AID) Systems in Canada

MiniMed™ 770G/780G with SmartGuard™ Technology	Tandem t:slim X2 with Control-IQ Technology	
		J

Medtronic

MiniMed[™] 780G system with new Guardian[™] 4 sensor

Designed for real life



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MiniMedTM 780G

- Approved for ages 7+, TDD 8 units
- AID System with SmartGuard[™] Technology
 - Allows you to select your glucose target (5.5, 6.1, or 6.7 mmol/L).
 - Modulates basal can increase or decrease every 5 minutes based on sensor glucose reading
 - Can do autocorrections every 5 minutes
- Works with MiniMed[™] Guardian[™] 4 sensor
 - Has mobile app to view sensor glucose and boluses
- Tier 1 pump covered by BC PharmaCare depending on the type of plan, covered by most extended benefit companies
 - 70% coverage with Fair Pharmacare once deductible has been met
 - 100% coverage if on Plans B, C, F and W
- MiniMed[™] CGM is not covered by BC PharmaCare. May be covered by extended benefits, company also has payment plan options
- Maximum fill is 300 units





t:slim X2[™] Insulin Pump

WITH CONTROL-IQ TECHNOLOGY

How Control-IQ[™] Technology Works

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Tandem t:slim $X2^{\text{TM}}$

- Approved for ages 6+, TDD 10 units, weight 25 kg*
- AID System with Basal-IQ and Control-IQ Technology
 - Basal-IQ has Low Glucose Suspend vs Control-IQ with advanced hybrid closed loop technology
 - Can do autocorrections every once per hour
 - Modulates basal can increase or decrease every 5 minutes based on sensor glucose reading
- Works with Dexcom G6 CGM
- Not covered by BC PharmaCare, may be covered by extended benefits. Tandem can contact extended benefits to determine eligibility coverage.
- Minimum fill is 95 units, maximum fill is 300 units
- *Discuss with diabetes team



Coming Soon

- Omnipod® 5
 - Recently approved by Health Canada
 - Automated insulin delivery
 - Works with Dexcom G7
 - Available ages 2+ years



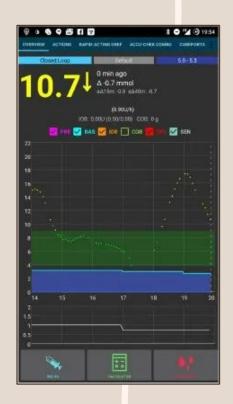
Side-by-Side Comparison

	MiniMed™ 780G	Omnipod [®] DASH [®]	Tandem t:slim X2	Ypsomed YpsoPump
CGM connectivity	Yes – Medtronic Sensor	No – can use stand alone	Yes – Dexcom (G6)	No – can use stand alone
Basal increment	0.025 unit/hr	0.05 unit/hr	0.1 – can change to 0.001	0.05 – can adjust to 0.01
Auto basal adjustment	Yes	No	Yes	No
Reservoir size	300 units (3 ml)	200 units (2 ml)	300 units (3 ml)	160 units (1.6 ml)
Covered by BC PharmaCare	Yes	Yes	No	Yes
Tubing	Yes	No	Yes	Yes
Upgradeable	Yes – software update	No	Yes – software updates	No
Waterproof	Yes – IPX8 (3.6 m for 24h)	Yes – IPX8 (7.6m for 1h)	No – IPX7 (1 meter for 0.5h)	Yes – IPX8 (1m for 1h)
Good to know details	Approved for ages 7+ TDD 8 units	Approved for all ages, TDD 8-10 units	Approved for ages 6+ TDD 10 units, weight 25 kg	Need to use separate app on phone

DIY Looping

- Involves using a pump, sensor with an app to loop
- Nightscout, OpenAPS or Android APS
- Predictive algorithm
- Not Health Canada—approved
- Limited clinical support
- No Nursing Support Services school support
- Requires referral to BCDiabetes from your BCCH Endocrinologist





Specific Pumps and How to Get More Information

Omnipod[®] DASH[®]

- Omnipod DASH® Insulin Management System (omnipodstaging.netlify.app)
- www.omnipod.com/en-ca/home
- Canada toll-free number: 1-855-763-4636
- Cyndi Lund: <u>clund@insulet.ca</u>
 - 1-250-938-5825



Medtronic MiniMedTM 780 G

- www.medtronicdiabetes.ca
- Canada: 1-800-284-4416
- Sherrice Kirby: <u>sherrice.kirby@medtronic.com</u>
 - 1-250-858-2329
- eu.medtronicvirtualpump.com/fxCuA839rYX97WZH/VirtualDe moPump/MiniMed_780G_OUS/gs3/mmol_l/



Tandem t:slim X2

- www.tandemdiabetes.com/
- Canada: 1-833-509-3598
- Teri Currie: tcurrie@tandemdiabetes.com
 - 778-995-1268
- t:simulator app available from the Apple Store and Android Play



Software/Apps and Connectivity

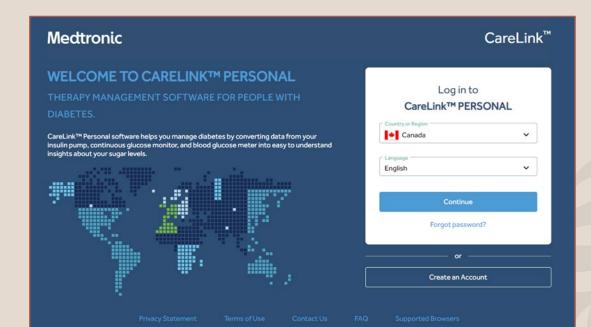
Glooko[®] for Omnipod[®]

Create a Glooko® account
ca.my.glooko.com/users/sign_in

1				
		English (USA)	•	
	Log In			
Email (Use	ername)			
Password				
		0		
	require a minimum of 8 characte ng special characters (!@#\$%^&*			
Forgot Pas)		
	ive unlock instructions?			
	Log In)		
	Log In with SSO			

CareLink[™] for Medtronic MiniMed[™]

- Create a Medtronic CareLink[™] account
 - carelink.minimed.eu/app/registration



Tandem Source for Tandem

- Create a Tandem Source account
 - <u>source.tandemdiabetes.com/registration</u>

TANDEM Diabetes Care	
Account Login Please use your Tandem Diabetes Care Account to log in.	
Email	
Forgot your email?	
Password O	
Forgot your password?	
Log In	
Create Account	

Next Steps

Checklist for Pump Therapy

- Child and all caregivers are interested. This includes younger children who understand that they will be wearing the device on their body
- You have attended the Pump Readiness Workshop and completed the Pump Readiness and Carb Counting Assessment
- For younger children, parents are aware that daycare staff may not be able to operate the pump. This needs to be discussed directly with the school and daycare
- You are able to make insulin dose adjustments as needed
- You rotate injection sites to include a minimum of 2 different parts of your body

You have a computer (or access to one) to upload the pump at least 3 times a week when initially starting the pump

> You agree to accept the BCCH clinic request to share your pump data so that we can safely manage your child's diabetes

Caregivers are required to attend the initial pump training session together. We are unable to offer separate training sessions

Continue to upload the pump regularly at home to review and make any dose adjustments as needed

Upload the pump at home **before** your diabetes clinic appointment

Pump Readiness & Carb Counting Assessments

BC	ENDOCRINOLOGY & DIABETES UNIT Diabetes Clinic: 604-875-2868 Toll-free Phone: 1-888-300-3088, x2868 Fax: 604-875-3231 http://endodiab.bcchildrens.ca	BC. Children's Children's Hospital Http://endodiab.bcchildrens.ca
INSULIN	PUMP READINESS ASSESSMENT	CARBOHYDRATE COUNTING ASSESSMENT
 a) Only with my endocrim b) At least once a week c) At least once a week c) At least once a work e) At least once a week c) At least once a week d) At least once a week d) At least once a work d) At least once a week d) Unsure KNOWLEDGE: 4) What is true about basis d) Delivered 24 hours ad d) Background insulin d) Background insulin d) Background insulin d) Can be temporarily ince 	My child's name: months you make dose adjustments based on your blood sugar data alogist months ulin pump, you will need to bolus for all carbohydrate containing See also our BCCH Insulin Pump Program Workshop Video See also our BCCH Insulin Pump Program Workshop Video insulin on an insulin pump? Select all that apply. Passed or decreased for short periods of time insulin on an insulin pump? Select all that apply. Tes load sugar levels sy	Before you begin multiple daily injections (MDI) or insulin pump therapy, you need to become familiar with advanced carbohydrate counting. For MDI and pump therapy, you will be calculating an insulin desage based on an insulin-to-carbohydrate ratio; therefore, you must have an accurate estimate of the "available carbohydrates" in the meal you will be eating. Please email the completed assessment to pumpeducation@cw.bc.ca using the button above. To complete this assessment, you can use different tools: apps and or websites, e.g. Calorie King@, MyFitnessPal, or Nutritionix BCCH Diabetes Clinic Food & Nutrition handouts food labels biabetes Canadas's Beyond the Basics poster calculator Msc biabetes Clinic Food & Nutrition handouts food labels biabetes Canadas's Beyond the Basics poster calculator Background insulin Given with meals Background insulin Given to correct high glucose levels Starts working within 10-15 minutes Given with meals Background insulin Given to correct high glucose levels Starts working within 10-15 minutes Which of the follow is an appropriate way to treat a low blood sugar (using a 15-gram treatment option)? Choose all that apply: A: 3-4 Dex4@ glucose tablets A fun-sized bag of Skittles@ (15 pieces) A: 4 fun-sized bag of Skittles@ (15 pieces) A: 4 fun-s
	a/endocrinology-diabetes-site/documents/pumpreadinessfill.pdf Page 1 of 2	June 4, 2024 www.bcchildrens.ca/endocrinology-diebetes-site/documents/carbquizfill.pdf Page I of 4

Process

PUMP VIDEO AND READINESS WORKSHOP

CONTACT COMPANIES

Contact companies for information and to determine coverage. Complete forms as required and send to clinic

READINESS

Assessments will be reviewed by team. If there is anything that needs further review or follow up, the diabetes team will reach out.

READINESS ASSESSMENT

Readiness assessments will be sent – complete both assessments.

PUMP WAITLIST

Family will be placed on pump training waitlist.

Ready to Go?

- Scan this QR code to send the <u>BCCH Insulin Pump Nurses</u> an email to let them know that you have:
 - viewed this Insulin Readiness Workshop and videos
 - completed and returned the Insulin Pump Readiness and Carb Counting assessments
 - contacted the pump company rep
 - discussed insurance coverage with company
 - decided on a brand of pump
- ... and are ready to move forward with pump therapy for your child.



open using your email app

Thank You!