#### 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**

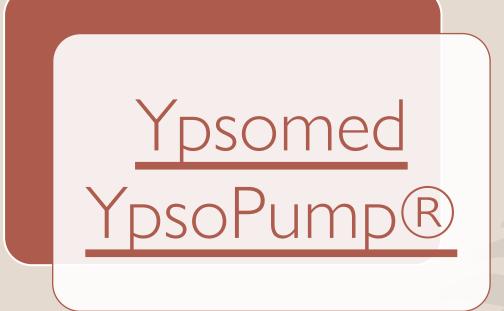
**Endocrine & Diabetes Program** 

BCCH Diabetes Insulin Pump Program Workshop (phsa.ca)

## Pumps Available in Canada

#### Non-AID Pumps in Canada





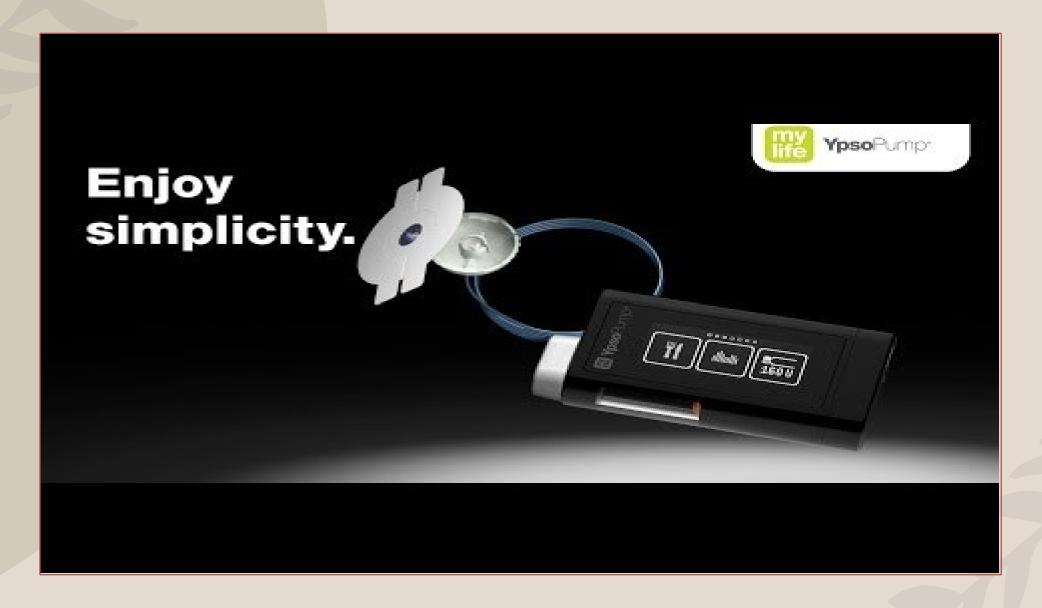


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#### Omnipod DASH®

- 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

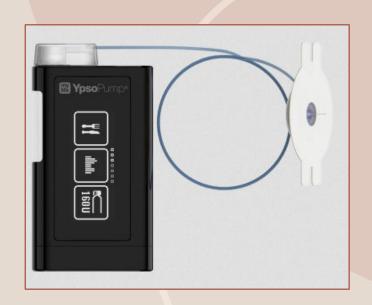




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#### Ypsomed YpsoPump®

- 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<sup>TM</sup>
770G/780G with
SmartGuard<sup>TM</sup>
Technology

Tandem t:slim X2
with Control-IQ
Technology

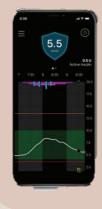


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#### MiniMed<sup>TM</sup> 780G

- Approved for ages 7+, TDD 8 units
- AID System with SmartGuard<sup>™</sup> Technology
  - Allows you to select your glucose target (5.5, 6.1, or 6.7 mmol/L).
  - Can do autocorrections every 5 minutes
  - Modulates basal can increase or decrease every 5 minutes based on sensor glucose reading
- Works with MiniMed<sup>TM</sup> Guardian<sup>TM</sup> 4 sensor
  - Has mobile app to view sensor glucose and boluses
- Tier 2 pump covered by BC PharmaCare once deductible has been met, covered by most extended benefit companies
- MiniMed<sup>TM</sup> CGM is not covered by BC PharmaCare. May be covered by extended benefits, company also has payment plan options
- Maximum fill is 300 units









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#### Tandem t:slim X2<sup>TM</sup>

- 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



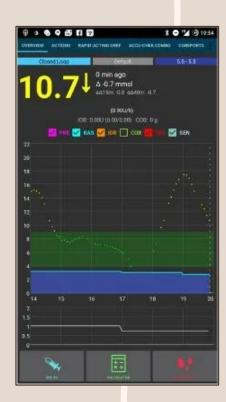
#### Side-by-Side Comparison

	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

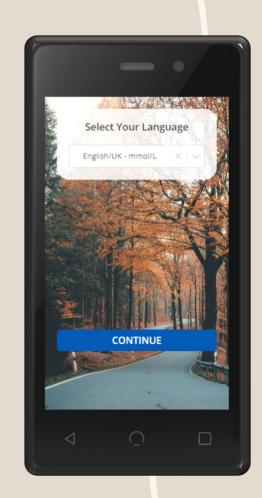




## Specific Pumps and How to Get More Information

#### 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 MiniMed<sup>TM</sup> 780 G

- www.medtronicdiabetes.ca
- Canada: 1-800-284-4416
- Sherrice Kirby: <a href="mailto:sherrice.kirby@medtronic.com">sherrice.kirby@medtronic.com</a>
  - 1-250-858-2329
- eu.medtronicvirtualpump.com/fxCuA839rYX97WZH/VirtualDe moPump/MiniMed\_780G\_OUS/gs3/mmol\_I/



#### Tandem t:slim X2

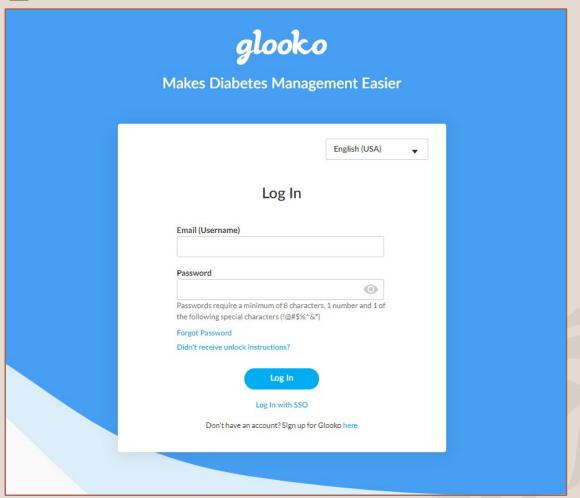
- www.tandemdiabetes.com/
- Canada: 1-833-509-3598
- Teri Currie: tcurrie@tandemdiabetes.com
  - 778-995-1268
- t:simulator app available from the Apple Store and Android Play



### Software/Apps and Connectivity

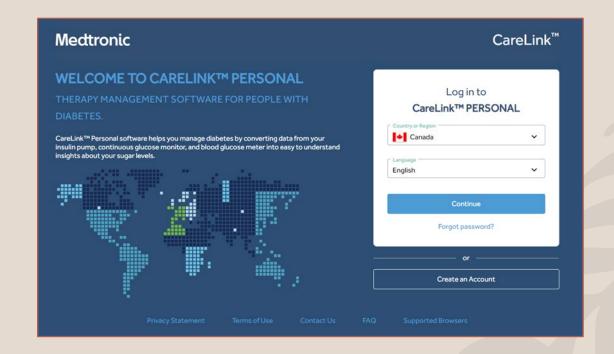
#### Glooko® for Omnipod®

- Create a Glooko® account
  - ca.my.glooko.com/users/sign\_in



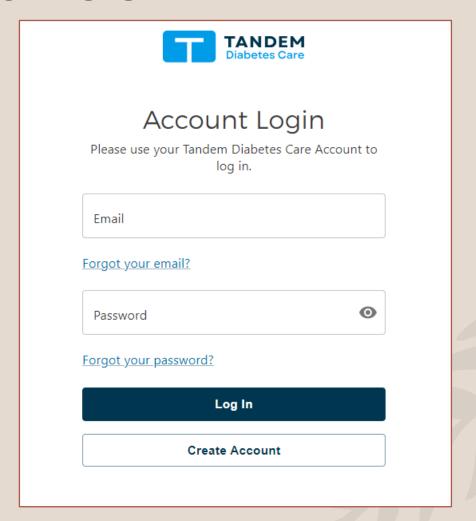
#### CareLink<sup>TM</sup> for Medtronic MiniMed<sup>TM</sup>

- Create a Medtronic CareLink<sup>TM</sup> account
  - carelink.minimed.eu/app/registration



#### Tandem Source for Tandem

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





#### 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

PRINT FILE E-MAIL TO BCCH	
ENDOCRINOLOGY & DIABETES UNIT Diabetes Clinic: 604-875-2868 Children's Hospital Toll-free Phone: 1-888-300-3088, x2868 Fax: 604-875-3231 http://endodiab.bcchildrens.ca	_
ASSESSMENT:  1) At present, how often do you review your blood sugar data (fingersticks or CGM)?	
a) Only with my endocrinologist b) At least once a week c) At least once a month e) At least once or month e) At least once or month e) At least once every 3 months	
2) At present, how often do you make dose adjustments based on your blood sugar data (fingersticks or CGM)?  a) Only with my endocrinologist  b) At least once a week  c) At least every 2 weeks  d) At least once a month  e) At least once every 3 months	
<ol> <li>If you are wearing an insulin pump, you will need to bolus for all carbohydrate containing meals and snacks?</li> </ol>	
a) Yes See also our BCCH Insulin Pump Program Workshop Video	]
□ b) No □ c) Sometimes □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	J
(NOWLEDGE:	
4) What is true about basal insulin on an insulin pump? Select all that apply.  a) Delivered with meals  b) Delivered 24 hours a day  c) Background insulin  d) Long acting insulin (e.g. Basaglar, Levemir, Lantus)  e) Can be temporarily increased or decreased for short periods of time	
5) What is true about bolus insulin on an insulin pump? Select all that apply.  a) Given with carbohydrates b) Given to correct high blood sugar levels c) Delivered 24 hours a day d) Can be automatically delivered by the pump	
June 3, 2024 www.bc.childrens.ca/endocrinology-diabetes-site/documents/pumpreadinessfill.pdf Page 1 of &	2

BC - Children's Hospital	ENDOCRINOLOGY & DIABETES UNIT Diabetes Clinic: 604-875-2868 Toll-free Phone: 1-888-300-3088, x2868 Fax: 604-875-3231 http://endodiab.bcchildrens.ca
CARBOHYDRA	TE COUNTING ASSESSMENT
familiar with advanced carbohydrate of	ions (MDI) or insulin pump therapy, you need to become counting. For MDI and pump therapy, you will be calculatin, o-carbohydrate ratio; therefore, you must have an accura ites" in the meal you will be eating.
Please email the completed assessmen complete this assessment, you can use	nt to pumpeducation@cw.bc.ca using the button above. To
	rie King® , MyFitnessPal , or Nutritionix lutrition handouts  My child's name:
✓ calculator	
(1) Basal insulin is (choose all that  A. Given with meals  B. Background insulin  C. Given to correct high glucose le  D. Starts working within 10-15 min	evels
(2) Bolus insulin is (choose all that	apply):
A. Given with meals B. Background insulin C. Given to correct high glucose le D. Starts working within 10-15 min	
(3) Which of the follow is an appro treatment option)? Choose all th	opriate way to treat a low blood sugar (using a 15-gram that apply:
A. 3-4 Dex4® glucose tablets B. A fun-sized bag of Skittles® (i C. \frac{1}{2} of a regular-sized chocolate   D. \frac{1}{2} cup (4 oz, 120 mL) of orange E. I scoop of vanilla ice cream (\frac{1}{2} to 120 mL) of honey	15 pieces) borieces) or apple juice

 $\underline{www.bcchildrens.ca/endocrinology-diabetes-site/documents/pumpreadinessfill.pdf}$ 

www.bcchildrens.ca/endocrinology-diabetes-site/documents/carbquizfill.pdf

#### 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 ASSESSMENT

Readiness assessments will be sent – complete both assessments.

#### READINESS

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

#### PUMP WAITLIST

Family will be placed on pump training waitlist.

#### Ready to Go?

- Scan this QR code to send the BCCH Insulin Pump Nurses an email to let them know that you have:
  - viewed this Insulin Readiness Workshop and videos
  - completed and returned the <u>Insulin Pump</u> <u>Readiness</u> and <u>Carb Counting</u> 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!