CamAPS FX App Training for use with the Dana Insulin Pump



This slide deck is a training resource to be used after completing the online CamAPS FX training in conjunction with your diabetes healthcare team







hosting CamAPS FX



Preparing the Dana RS or Dana-i insulin pump

Set the pump with current pump settings with special attention to the following:

✓ Extended bolus should be switched "ON"





7.NIGHT CIR:25 8.NIGHT CF:50







Preparing the Dana RS or Dana-i Insulin pump

Accessing the Doctor's Mode...





FX

Cam**APS** |

- Within MAIN MENU, press and hold +, , , three buttons at the same time.
- The pump will request a PASSWORD, - enter **30XY** and press (OK).
- **Notice** THE **XY** of 30**XY** is derived from the manufacturing day of the pumps. You can see the manufacturing date in the shipping Information menu on the pumps.



Suggested Dr's Mode settings:

- 1. Pre-set bolus : 0 (off)
- 2. Melody : 0
- 3. Bolus block : 0
- 4. Bolus increment : 0.05
- 5. Basal increment : 0.01
- 6. Ideal target BG : ?? mmol/L match with app's glucose target
- 7. Active insulin :
- 8. Dec ratio: e.g. 25% for 4h active insulin time, 30% = 3h or 50% = 2h
- 9. Basal max : Double highest hourly basal
- 10. Bolus max : 0.5 x total daily dose (TDD)
- 11. Daily maximum : 3 x total daily dose (TDD)
- 12. Safety Ratio : Off
- 13. Blockage sensitivity : L to avoid false occlusion alarms
- 14. UTC setting (time)











Before pairing to CamAPS FX app... Please remove Any-Dana & Dexcom G6 App

In Bluetooth menu of phone

• Unpair (forget) pump and G6 transmitter

In App menu on phone

- Delete (uninstall) both apps
- Please have record of Dexcom transmitter serial number





Download from Amazon Appstore

✓ Visit <u>https://www.amazon.co.uk/androidapp</u> on

the android smartphone to be used

- ✓ Tap on the link "Download Amazon Appstore"
- ✓ Once downloaded, search for **CamAPS FX**

and install









Create an account on the CamAPS FX app

- ✓ Please allow "Everything"✓ Password:
 - 12 characters
 - Letters, numbers and special characters





If already paired with virtual pump and CGM....

Please go to...
✓ Main menu
✓ Pump section
✓ Tap on the blue
virtual pump to
start pairing
process







Pair the Dana insulin pump

Before pairing the pump:

- Unpair pump from AnyDana App in Bluetooth settings on the phone
- 2. Delete (uninstall) AnyDana app from

phone

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	Select pump
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	O DANA-i
	O Virtual pump
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Dana-i



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Serial number 🛞	Connecting to your pump.		contains letter	s or
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Cancel Confirm	CANCEL OK	1	2 авс	3 DEF
	C	4 сні	5 јкі	6 мло
		7 PQRS	8 тич	9 wxyz
K Back Continue	Back	$\langle \times \rangle$	0 +	Done

- Pop-up window appears: confirm the pump serial number
- When prompted, start pairing by pressing 'OK' on your smartphone and then on your pump
- You are requested to enter pairing PIN shown on the pump



Enter the online training code to unlock the app







Pair the Dexcom G6 transmitter

Before pairing the Dexcom

transmitter

- 1. Make note of transmitter serial number
- Unpair transmitter from Dexcom app in Bluetooth settings on the phone
- 3. Delete Dexcom G6 app from phone







Enter body weight (kg)





Enter average Total Daily Insulin Dose (TDD)

TDD =

- 1. All bolus <u>AND</u>
- 2. All basal insulin used
- 3. Average last 5-7 days

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Help 🛞	TOD	51
Enter the average total daily dose in Units per day.	U/day	Total daily insulin dose
This information is an important marker of your body sensitivity to insulin.	Enter an average of the total daily insulin dose for the last 5 days . You should be able to get the average from total daily insulin	54 U/day
The app will refine this information as it learns how your blood glucose drops in response to insulin during auto mode.	doses recorded by your pump.	Cancel Confirm
Continue >	Continue >	Continue >



It will now connect...

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your transmit	ter in order to air.		- 10 - 5		- 10
10.00 11:0	0 12:00	10:00 11:00	12:00	12:00	13:00
Boost	Ease-off	Boost	Ease-off	Boost	Ease-off
Auto mode Off		Auto mode Off		Auto mode	



Turn Auto mode "ON"













How does the algorithm learn?

- ✓ Continually adjusts based on previous learning
- ✓ Learns more without "Ease-off" & "Boost"
- ✓ Learns from bolus calculator
- ✓ Takes on average 1-3 weeks to optimize
- ✓ In first few weeks, most people need to review
 - insulin to carb ratios and
 - personal glucose target.







The dangers of late bolusing on closed-loop...



Bolus Calculator... pre-meal bolus

Ideally 10-15 minutes

before eating

Consider splitting bolus:

- not reliable eater
- large carb meal ٠

(±60 grams or more)







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×

0.0

(0.0)

2.4

٠

Bolus Calculator... correction bolus





Calibrating the sensor – only when necessary

If sensor inaccurate:

- More than 3mmol/L difference
- ✓ Pick a time when glucose stable
- ✓ Do <u>NOT</u> calibrate if glucose and sensor accurate





Main menu



Cam**APS** | FX





Add meal







Add meal

✓ Meal or snack

- extra snacking, topping up meals
- during or at end of meal •
- if snack, close to a previous bolus

✓ Hypo treatment

- treat hypo
- enter fast-acting carbs to document the treatment
- CamAPS FX will NOT give insulin (unless hypo ++ over-treated) and will "soften' its calculations •

Slowly absorbed meal

- give % as pre-meal bolus using bolus calculator
- input rest of carbs eaten here
- algorithm will deliver extra insulin over 3-4 hours depending on glucose levels

CamAPS FX will deliver ONLY more insulin in response to rising glucose levels





Alerts









Need to set phone's "widget and banners"
to show glucose on phone's locked screen
✓ Look in notifications setting on phone

Cam**APS** | FX

Alerts can be silenced...





Share data via Diasend, CamAPS Companion and SMS text alerts

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Diasend/Glooko Data is uploaded every to Diasend/Glooko.	5 to 10 minutes
User 1 none	
User 2 none	
CamAPS Companio Data can be viewed by CamAPS app.	n Companion using
Companion 1 none	
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Share data via Diasend, CamAPS Companion and SMS text alerts

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← Share		← Cam	APS Companion
Diasend/Glooko Data is uploaded every to Diasend/Glooko.	y 5 to 10 minutes	Enter ema person (ak see your s	il address and nickname of a a Companion) who you want to ensor glucose and insulin data.
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CamAPS Companic Data can be viewed by CamAPS app.	on / Companion using	example(@email.com
Companion 1 none		Nickname	e
Companion 2 none			
Companion 3			Invite
Companion 4			



Share data via Diasend, CamAPS Companion and SMS text alerts

To send SMS alerts, phone must have:

- ✓ SIM card
- ✓ Mobile signal and data

Please clear alert on user's phone:

 ✓ If not, repeated SMSs will be sent to all active followers for safety reasons

Toggle SMS on / off:

 ✓ Turn off SMS for carers who are not full time. As appropriate





Sharing data with clinic via CamAPS clinic





Statistics

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← Statistics durati	on
Day	
Week	
Month	
Last three months	
Generate PDF report	<u>כ</u>

🖼 🔍	🕏 📢 🕾 🔟 97% 🖬 09:41
← Statistics	
< Wednesday, 5 Dec	ember 2018 >
Average glucose	10.1 mmol/L
GMI	7.7 %
GMI	60 mmol/mol
Glucose SD	3.5 mmol/L
Glucose CV	35 %
Time in target	53 %
Time below target	1.7 %
Time above target	45 %
Number of hypos	1
Average hypo duration	25 minutes
Sensor glucose availability	y 100 %
Total daily dose	28.3 u/day
Total daily bolus	1.8 U/day
Total daily basal	26.5 Wday
Auto mode use	67 %
Auto mode interrupted	0
No sensor glucose	0
No connection to pump	0



Settings

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← CamAPS FX	
CamAPS FX	•
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Sensor expires 5d 23h 40min	
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Info	-20 -15
Settings	
About	16:00
Account	Ease-off
Contact	
Help	





Settings

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CamAPS FX	•
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Sensor expires 5d 23h 40min	
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Info	-20 -15
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Account	Ease-off
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Settings

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Sensor expires 5d 23h 40min	
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About	16:00
Account	Ease-off
Contact	
Help	





Personal Glucose Target

Default = 5.8 mmol/L

Strongly recommend a higher PGT is programmed when starting CamAPS FX



Personal	glucose ta	arget	
From	То	Target (mmol/L)	
00:00	24:00	6.5	







3.9 – 10 mmol/L



Time in Range (TIR)

3.9 – 10 mmol/L



¤ For age <25 yr., if the A1C goal is 7.5%, then set TIR target to approximately 60%. (See Clinical Applications of Time in Ranges section in the text for additional information regarding target goal setting in pediatric management.)

† Percentages of time in ranges are based on limited evidence. More research is needed.

§ Percentages of time in ranges have not been included because there is very limited evidence in this area. More research is needed. Please see Pregnancy section in text for more considerations on targets for these groups.

* Includes percentage of values >250 mg/dL (13.9 mmol/L).

** Includes percentage of values <54 mg/dL (3.0 mmol/L).



Meal Size

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₩ 40 g	сно			Meal siz	ze 🛞	¥ 40 g	сно	
X 70 g	сно			9		X 70 g	сно	
140	g CHO		L	10		X 140 g	g CHO	
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				Cancel	Confirm			



Carb grams or exchanges

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Last few things on settings menu



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Change weigh	t	
Block		
Personal gluco	ose target	
Statistics		
Meal size		
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Bolus step	.05 units	
Bolus speed	L <mark>2 sec / u</mark> r	nits
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Stopping Dexcom sensor













Using "Ease-off"





Using "Boost"







"Ease-off" and "Boost" in action...

Practicalities

Suspend insulin delivery

- ✓ more than 15 minutes disconnected
- ✓ suspend on Dana Pump
- ✓ app alerts every 30 minutes when pump suspended

Carb Ratios

✓ adjust on the Dana Pump

Practicalities

Minimising connectivity issues:

- ✓ Bluetooth range < 6m</p>
- \checkmark carrying phone in the day time
- charging phone at night
- switching phone off and on regularly
 (? at set / sensor changes)

App's **Help** menu has link to **CamAPS FX user manual** = great troubleshooting guide

Help?

CamDiab customer support: ✓ <u>support@camdiab.com</u> ✓ 020 3695 3780

Closed FB groups ✓ CamAPSFX for kids ✓ CamAPS users

