2 Incidences of erratic CGM - what that may do to your FCL

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4 One jumpy value in late phase of digesting Pizza triggers (too) big SMB



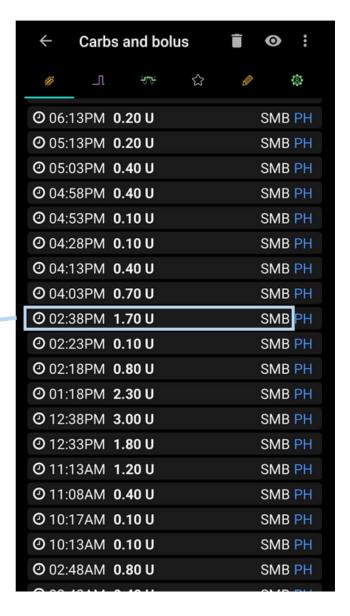
6 Case Study 4.1 discusses this entire pizza meal. Here we like to look only at the 14:33

7 (compression?) low CGM value followed by a significant fake acceleration noticed 14:38 =

3 02:38 PM which triggered a significant SMB of 1.7 U:

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2 To get nice size SMBs at detected strong acceleration, and to run fully automatically <u>without</u>

3 setting EatingSoonTT, I have an Automation that sets TT=74 mg/dl for 26 minutes

immediately when strong acceleration is detected. Shooting towards that low temp. target

15 contributed to the SMB size.

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17	The additional insulin due to the "fake" strong rise made the situation risky with respect
18	to going a bit too low between 17 and 18 h, and I had to watch out whether I need a snack,
19	or whether I just reach a nice low starting bg for my upcoming dinner.
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21	Avenues to avoid the problem
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23	Avenues to avoid over-reactions of autoISF to CGM artefacts could be:
24	 First and foremost, make sure the principal quality of your CGM values are of good
25	quality- See <u>section 1.2.</u>
26	 Build in more "quality control": What is your loop is allowed to see as a sudden
27	acceleration ("logical pattern") in <u>your</u> bg curves?
28	Comparing the sequence of deltas (in my screen about $+3 +3 -18 +21$, or
29	comparing short-average-delta (=the average of the last 3) with the new delta
30	• (+3+3-18)/3= -4 compared to -18 or
31	• (+3-18+21)/3= +2 compared to +21
32	both point to an artefact, and you could build an Automation rule that captures
33	the cases you tend to occasionally have.
34	• Formulate an Automation that gives an alarm at any sudden strong drop; better yet:
35	that sets for \sim 10 minutes an odd TT, so no SMB could be devised at the expected
36	jump back up.
37	• Specifically, if you have nighttime compression lows, consider (1) different sensor
38	placement on your body (2) nighttime SMB shut-off using odd profile target ((see also
39	section 5.1.1)), or (3) use an over-case (3D-printed).
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44	Invitation to add other case reports, here or as an extra case study.
45	Please contribute also one that emphasizes utility of SMB-off at night