

## Real Data

- **Q1** (1100): Is this the first day of the patient?

$$Answer(CurrentDate == x) \wedge Order(x, 1, Sequence(d, d.type == Date))$$

- **Q2** (1101): What day is it?

$$Answer(Day(CurrentDate))$$

- **Q3** (11111): How high is the basal rate before midnight?

$$Answer(e.value) \wedge Before(e.time, MidNight()) \wedge e.type == BasalRate$$

- **S1** (01): I see that the blood glucose level is a little high in the midnight.

$$High(e.value) \wedge e.type == BGL \wedge e.time == MidNight()$$

- **Q4** (111111): what happened before that?

$$Answer(e) \wedge Before(e.time, e(-1).time)$$

- **Click1** (20)

$$Click(e) \wedge e.type == Bolus \wedge e.time == 22:12pm$$

- **Click2** (20)

$$Click(e) \wedge e.type == FingerSticks \wedge e.time == 22:31pm$$

- **Q5** (11101): Is there any heart rate reported this day?

$Answer(Any(d.type == HeartRate \wedge d.date == CurrentDate))$

- **Q6** (1101): So what is the first day they also have heart rate reported?

$Answer(e.date) \wedge Order(e, 1, Sequence(d, d.type == HeartRate))$

- **Q7** (11101): Did he eat during the night?

$Answer(Any(d.type == Meal \wedge d.time == Night))$

- **Click3** (20)

$Click(e) \wedge e.type == Meal \wedge e.time == 1:07pm$

- **Q8** (111112): How high was the heart rate when he ate?

$Answer(e.value) \wedge Highest(e.value) \wedge Around(e.time, e(-1).time) \\ \wedge e.type == HeartRate$

- **Q9** (11111): How low did he get during that night?

$Answer(e.value) \wedge Lowest(e.value) \wedge e.type == BGL \wedge e.time == Night()$

- **Q10** (111011): So the blood glucose you showed me, it is a hypoglycemia?

$Answer(Hypo(e(-1)))$

- **Q11** (111112): What did he do when he went hypo?

$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == DiscreteType$

- **Click4** (20)

$$Click(e) \wedge e.type == HypoAction \wedge e.time == 19:49pm$$

- **Click5** (20)

$$Click(e) \wedge e.type == FingerSticks \wedge e.time == 19:58pm$$

- **Click6** (20)

$$Click(e) \wedge e.type == Bolus \wedge e.time == 20:00pm$$

- **Q12** (111011): [Is that just one bolus?](#)

$$Answer(Count(e, e.type == Bolus \wedge Around(e.time, e(-1).time)) == 1)$$

- **S2** (01): [GSR went really high in the morning.](#)

$$High(e.value) \wedge e.type == GSR \wedge e.time == Morning()$$

- **Q13** (111111): [what did he do?](#)

$$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == DiscreteType$$

- **Click7** (20)

$$Click(e) \wedge e.type == Meal \wedge e.time == 7:35am$$

- **Click8** (20)

$$Click(e) \wedge e.type == Bolus \wedge e.time == 7:41am$$

- **Q14** (10): Go next.

$DoSetDate(CurrentDate + 1)$

- **Q15** (1100): Is this patient 101?

$Answer(CurrentPatient == 101)$

- **Q16** (10): Can you go back to the previous day?

$DoSetDate(CurrentDate - 1)$

- **S3** (01): In the morning, he goes low.

$Hypo(e) \wedge e.time == Morning()$

- **S4** (01): In the late afternoon, then again, he goes low.

$Hypo(e) \wedge e.time == Afternoon()$

- **Q17** (11100): Is there another day he goes low in the morning and evening?

$Answer(Any(Hypo(d_1) \wedge Hypo(d_2) \wedge x! = CurrentDate$   
 $\wedge x.type == Date \wedge d_1.time == Morning(x) \wedge d_2.time == Afternoon(x)))$

- **S5** (01): I can see GSR is pretty high in the morning.

$Highest(e.value) \wedge e.type == GSR \wedge e.time == Morning()$

- **Q18** (111111): what did he eat?

$Answer(e.food) \wedge Around(e.time, e(-1).time)$

- **S6** (): I see she went low in the middle of the day.

$$Low(e.value) \wedge e.type == BGL \wedge e.time == MidDay()$$

- **S7** (): It looks like there's a hypo.

$$Hypo(e(-1))$$

- **Q19** (): I want to know how low she is?

$$Answer(e(-1).value)$$

- **Click9** ():

$$Click(e) \wedge e.type == FingerStick \wedge e.time == 11:53am$$

- **S8** (): Well the Finger Stick is 56.

$$e.type == Fingerstick \wedge e.value == 56$$

- **S9** (): It looks like she suspended her pump.

$$Suspended(e) \wedge Around(e.time, e(-1).time)$$

- **Q20** (): What did she say about it?

$$Answer(e) \wedge e.type == Misc \wedge Around(e.time, e(-1).time)$$

- **Click10** ():

$$Click(e) \wedge e.type == HypoEvent \wedge e.time == 11:45am$$

- **Q21** (): So what does she do about it?

$$Answer(e) \wedge e.type == HypoAction \wedge Around(e.time, e(-1).time)$$

- **Click11** ():

$$Click(e) \wedge e.type == HypoAction \wedge e.time == 11:46am$$

- **Q22** (): It looks like she ate something?

$$Answer(e) \wedge e.type == Meal \wedge Around(e.time, e(-1).time)$$

- **Click12** ():

$$Click(e) \wedge e.type == Meal \wedge e.time == 11:55pm$$

- **S10** (): look how she goes up like this.

$$Behavior(e.value, Up) \wedge Around(e.time, e(-1).time) \wedge e.type == BGL$$

- **S11** (): 30 carbs, that would be an overcorrection.

$$e.carbs == 30 \wedge e == e_2(-1)$$

- **Q23** (): How high does she get?

$$Answer(e.value) \wedge Highest(e.value) \wedge Around(e.time, e(-1).time) \wedge e.type == BGL$$

- **Click13** ():

$$Click(e) \wedge e.type == FingerStick \wedge e.time == 14:20pm$$

- **S12** (): It looks like she has a miscellaneous comment.

$$e.type == Misc$$

- **Click14** ():

$$Click(e) \wedge e.type == Misc \wedge e.time == 15:40pm$$

- **Q24** (): Did she bolus or anything?

$$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == Bolus$$

- **Click15** ():

$$Click(e) \wedge e.type == Bolus \wedge e.time == 17:24pm$$

- **S13** (): Not until 3:40 in the afternoon, and she's already coming down.

$$Behavior(e.value, Down) \wedge Around(e.time, 3 : 40pm) \wedge e.type == BGL$$

- **Q25** (): What did she come down to?

$$Answer(e.value) \wedge Lowest(e.value) \wedge Around(e.time, e(-1).time) \wedge e.type == BGL$$

- **Click16** ():

$$Click(e) \wedge e.type == FingerStick \wedge e.time == 17:19pm$$

- **Q26** (): What is she doing then?

$$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == DiscreteType$$

- Click17 ():

$$Click(e) \wedge e.type == HypoAction \wedge e.time == 20:47pm$$

- Q27 (): Okay, so why would she have dropped right there?

$$Answer(e) \wedge Before(e.time, e(-1).time) \wedge e.type == DiscreteType$$

- Click18 ():

$$Click(e) \wedge e.type == Exercise \wedge e.time == 20:04pm$$

- S14 (): I also see she's pretty high in the morning here, right when she wakes up.

$$High(e.value) \wedge Around(e.time, e_1.time) \wedge e.type == BGL \wedge e_1.type == Wakeup \\ \wedge e.time == Morning()$$

- Q28 (): This not being winter, we can turn off skin and air temp.

$$DoToggle(Off, SkinTemperature) \wedge DoToggle(Off, AirTemperature)$$

- Q29 (): Let's go to the next day.

$$DoSetDate(CurrentDate + 1)$$

- S15 (): She exercises here, but doesn't go quite so low.

$$Cond(After(e.time, e_1.time) \wedge e.type == BGL ==> !Low(e.value)) \wedge e_1.type == Exercise$$

- S16 (): We can see what the finger stick is.

$$e.type == FingerSticks \wedge Around(e.time, e_2(-1).time)$$



- **Click19** ():

$$Click(e) \wedge e.type == FingerSticks \wedge e.time == 20:40pm$$

- **Q30** (): Let's go to the previous day.

$$DoSetDate(CurrentDate - 1)$$

- **S17** (): Now we see two hypo events on this day.

$$Count(e, e.type == Hypo \wedge e.date == CurrentDate) == 2$$

- **Q31** (): Is there any recent day in which the same thing happens?

$$Answer(Any(d, Before(d, CurrentDate) \wedge Count(d_1, d_1.type == HypoEvent \wedge d_1.date == d) == 2 \wedge d.type == Date))$$

- **Q32** (): Is there any other day close to this day which there are two hypo events?

$$Answer(Any(d, Around(d, CurrentDate) \wedge Count(d_1, d_1.type == HypoEvent \wedge d_1.date == d) == 2 \wedge d.type == Date))$$

- **Q33** (): Can we also go to the day before this one?

$$DoSetDate(CurrentDate - 1)$$

- **Q34** (): Can we look at another day before this one?

$$DoSetDate(CurrentDate - 1)$$

- **S18** (): This one is not after exercise, but during exercise.

$$Around(e.time, e_1.time) \wedge e.type == Hypo \wedge e_1.type == Exercise$$

- **S19** (): She suspended her pump.

$$Suspended(e) \wedge Around(e.time, e(-1).time)$$

- **Q35** (): Well what did she say about that?

$$Answer(e) \wedge e.type == Misc \wedge Around(e.time, e(-1).time)$$

- **Click20** ():

$$Click(e) \wedge e.type == Misc \wedge e.time == 20:01pm$$

- **Q36** (): What else did she say?

$$Answer(e) \wedge e.type == Misc$$

- **Click21** ():

$$Click(e) \wedge e.type == Misc \wedge e.time == 20:26pm$$

- **Q37** (): What kind of exercise is she doing?

$$Answer(e.kind) \wedge e.type == Exercise$$

- **Click22** ():

$$Click(e) \wedge e.type == Exercise \wedge e.time == 19:18pm$$

- **Q38** (): What did she eat to take care of the hypo event?

$$Answer(e.food) \wedge Around(e.time, e_1.time) \wedge e_1.type == Hypo$$

- **Click23** ():

$$Click(e) \wedge e.type == HypoEvent \wedge e.time == 19:54pm$$

- **Click24** ():

$$Click(e) \wedge e.type == HypoAction \wedge e.time == 19:54pm$$

- **Q39** (): Does she usually just take sugar?

$$Answer(Cond(e.type == HypoAction ==> e.food == Sugar))$$

- **Q40** (): How often does she use sugar as a hypo action?

$$Answer(Count(e, e.food == sugar \wedge e.type == HypoAction))$$

- **Q41** (): When she does other types of exercise, does she still go low, or is it just with elliptical exercise?

$$Answer(Any(Hypo(e) \wedge After(e.time, e_1.time) \wedge e_1.type = Exercise \wedge e_1.kind \neq Elliptical))$$

- **Q42** (): How intense is her elliptical exercise?

$$Answer(e.intensity) \wedge e.type = Exercise \wedge e.kind == Elliptical$$

- **Click25** ():

$$Click(e) \wedge e.type == Exercise \wedge e.time == 19:56pm$$

- **Q43** (): Show me exercises where intensity is higher than 5.

$$e.type == Exercise \wedge e.intensity > 5 \wedge e.date == AnyDate$$

- **Q44** (): What is she eating right before her exercise?

$$Answer(e.food) \wedge e.type == Meal \wedge RightBefore(e.time, e(-1).time)$$

- **Click26** ():

$$Click(e) \wedge e.type == Meal \wedge e.time == 19:20pm$$

- **Q45** (): How many meals did she have this day?

$$Answer(Count(e, e.type == Meal \wedge e.date == CurrentDate))$$

- **Q46** (): Did she eat more than average, in terms of carbs?

$$Answer(Sum(e.carbs, e.date == CurrentDate) > Mean(e.carbs))$$

- **Click27** ():

$$Click(e) \wedge e.type == Meal \wedge e.time == 18:06pm$$

- **S20** (): She bolused even though she already had a hypo event.

$$e.type == Bolus \wedge After(e.time, e_1.time) \wedge e_1.type == Hypo$$

- **S21** (): She must have been eating something.

$$e.type == Meal \wedge Around(e.time, e(-1).time)$$

- **Click28** ():

$$Click(e) \wedge e.type == Meal \wedge e.time == 18:08pm$$

- **Q47** (): Well how much insulin did she take in that bolus?

$$Answer(e.value) \wedge e.type == Bolus$$

- **Click29** ():

$$Click(e) \wedge e.type == Bolus \wedge e.time == 18:08pm$$

- **Q48** (10): Let's move ahead to April 4th.

$$DoSetDate(April4th)$$

- **Q49** (): Is she getting better about going low after exercise?

$$Answer(Cond(After(e.time, e_1.time) \wedge e.type == BGL \wedge e_1.type == Exercise ==> !Hypo(e)))$$

- **S22** (): Here she has a low before exercise.

$$Hypo(e) \wedge Before(e.time, e_1(-1).time)$$

- **S23** (): She drops during exercise.

$$Behavior(e.value, Down) \wedge Around(e.time, e_1(-1).time) \wedge e.type == BGL$$

- **S24** (): She is not into the hypo range.

$$!Hypo(e(-1))$$

- **Q50** (): Let's see what her finger stick is?

$$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == FingerSticks$$

- **Click30** ():

$$Click(e) \wedge e.type == FingerStick \wedge e.time == 20:53pm$$

- **Click31** ():

$$Click(e) \wedge e.type == BGL \wedge e.time == 20:53pm$$

- **S25** (): She ate before exercise.

$$e.type == Meal \wedge Before(e.time, e_1.time) \wedge e_1.type == Exercise$$

- **Q51** (): what did she have?

$$Answer(e(-1).food)$$

- **Click32** ():

$$Click(e) \wedge e.type == Meal \wedge e.time == 18:13pm$$

- **S26** (): But she bolused with that meal.

$$e.type == Bolus \wedge Around(e.time, e(-1).time)$$

- **Q52** (): How much did she bolus?

$$Answer(e(-1).value)$$

- **Click33** ():

$$Click(e) \wedge e.type == Bolus \wedge e.time == 18:18pm$$

- **Q53** (): What intensity was that exercise?

$Answer(e.intensity) \wedge e.type == Exercise$

- **Click34** ():

$Click(e) \wedge e.type == Exercise \wedge e.time == 19:15pm$

- **Q54** (): Does she ever say she's not having exercise intensity 5?

$Answer(Any(e.type == Exercise \wedge e.intensity! = 5))$

- **Click35** ():

$Click(e) \wedge e.type == InfusionSet \wedge e.time == 7:27am$

- **S27** (): It looks like she changed her infusion set today.

$e.type == InfusionSet$

- **Q55** (): When was the last time she changed it?

$Answer(e.date)$

$\wedge Order(e, -1, Sequence(e_1, e_1.type == InfusionSet \wedge e_1.time == Before(CurrentDay)))$

- **Q56** (): Is she running a little high all day long then?

$Answer(Cond(e.type == BGL \wedge e.date == CurrentDate ==> High(e.value)))$

- **Click36** ():

$Click(e) \wedge e.type == Illness \wedge e.time == 13:25pm$

- **Q57** (): Let's look at the next day.

$DoSetDate(CurrentDate + 1)$

- **S28** (): It looks like she woke up in the night because she was feeling low.

$e.type == WakeUp \wedge e.time == Night() \wedge Around(e.time, e_1.time) \wedge Low(e_1)$

- **Q58** (): Does she take sugar, even at night?

$Answer(Any(e.food == Sugar \wedge e.time == Night()))$

- **Click37** ():

$Click(e) \wedge e.type == Hypo \wedge e.time == 2:14am$

- **Click38** ():

$Click(e) \wedge e.type == HypoAction \wedge e.time == 2:14am$

- **Q59** (): Let's see what kind of exercise that is, where the steps are high?

$Answer(e.kind) \wedge e.type == Exercise \wedge Around(e.time, e_1.time) \wedge$   
 $e_1.type == StepCount \wedge High(e_1.value)$

- **Click39** ():

$Click(e) \wedge e.type == Exercise \wedge e.time == 18:30pm$

- **Q60** (): So does she only go low after elliptical and go high after walking?



- **Q61** (): What is the intensity of walking?

$Answer(e.intensity) \wedge e.type == Exercise \wedge e.kind == Walking$

- **Q62** (): Has the heart rate come down since then?

$Behavior(e.value, Down) \wedge Around(e.time, CurrentDate) \wedge e.type == HeartRate$

- **Q63** (): I'm just gonna go to the next day.

$DoSetDate(CurrentDate + 1)$

- **S29** (): She has a lot of steps during exercise.

$High(e.value) \wedge Around(e.time, e_1.time) \wedge e.type == StepCount \wedge e_1.type == Exercise$

- **Q64** (): I wonder what kind of exercise she's doing this day.

$Answer(e.kind) \wedge e.type == Exercise$

- **Click40** ():

$Click(e) \wedge e.type == Exercise \wedge e.time == 19:03pm$

- **Q65** (): What does she eat before this exercise?

$Answer(e.food) \wedge Before(e.time, e(-1).time)$

- **Q66** (10): Do the toggle so we can see step counts.

$DoToggle(On, StepCount)$

- **Click41** (20)

$$Click(e) \wedge e.type == Exercise \wedge e.time == 9:31am$$

- **Click42** (20)

$$Click(e) \wedge e.type == Misc \wedge e.time == 9:50am$$

- **Q67** (11111): What was she doing mid afternoon when her heart rate went up?

$$Answer(e) \wedge Behavior(e_1.value, Up) \wedge Around(e.time, e_1.time) \wedge \\ e_1.type == HeartRate \wedge e_1.time == MidAfternoon()$$

- **Click43** (20)

$$Click(e) \wedge e.type == BGL \wedge e.time == 16:23pm$$

- **S30** (01): If you look around 10 o'clock at night, sweat goes up.

$$Behavior(e.value, Up) \wedge Around(e.time, 10pm) \wedge e.type == GSR$$

- **Q68** (111111): What happened then?

$$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == DiscreteType$$

- **Q69** (10): Let's go next day.

$$DoSetDate(CurrentDate + 1)$$

- **Click44** (20)

$$Click(e) \wedge e.type == Exercise \wedge e.time == 9:41am$$

- **Q70** (10): [Click on the second exercise.](#)

$$DoClick(e) \wedge Order(e, 2, Sequence(d, d.type == Exercise \wedge d.date == CurrentDate))$$

- **Click45** (20)

$$Click(e) \wedge e.type == Exercise \wedge e.time == 12:43pm$$

- **Click46** (20)

$$Click(e) \wedge e.type == BGL \wedge e.time == 13:44pm$$

- **S31** (01): [If you look, she woke up and took 2 boluses.](#)

$$Count(e, e.type == Bolus \wedge After(e.time, e_1.time) \wedge e_1.type == WakeUp) == 2$$

- **Q71** (111111): [What time was that?](#)

$$Answer(e(-1).time)$$

- **Q72** (10): [Let's go back to the day before.](#)

$$DoSetDate(CurrentDate - 1)$$

- **Click47** (20)

$$Click(e) \wedge e.type == Bolus \wedge e.time == 20:03pm$$

- **Q73** (111111): [What did she eat?](#)

$$Answer(e.food) \wedge Around(e.time, e(-1).time)$$

- **Click48** (20)

$Click(e) \wedge e.type == Meal \wedge e.time == 20:27pm$

- **Q74** (10): Toggle on air temperature.

$DoToggle(On, AirTemperature)$

- **Q75** (10): Toggle on skin temperature.

$DoToggle(On, SkinTemperature)$

- **Q76** (10): So, go to Thursday.

$DoSetDate(Thursday)$

- **S32** (01): So it woke her up before she had symptoms.

$e.type == Wakeup$

- **Q77** (111111): Did she do anything?

$Answer(e) \wedge Around(e.time, e(-1).time) \wedge e.type == DiscreteType$

- **S33** (): She's high at night that night.

$High(e.value) \wedge e.type == BGL \wedge e.time == Night()$

- **Q78** (): What did she eat?

$Answer(e.food) \wedge Before(e.time, e(-1).time)$

- **Click49** ()

$$Click(e) \wedge e.type == BGL \wedge e.time == 5:11am$$

- **Q79** (): [Look at her bolus at 6pm.](#)

$$DoClick(e) \wedge e.type == Bolus \wedge Around(e.time, 6:00pm)$$

- **Click50** ()

$$Click(e) \wedge e.type == Bolus \wedge e.time == 17:05pm$$

- **Q80** (): [Look at her bolus at 2.](#)

$$DoClick(e) \wedge e.type == Bolus \wedge Around(e.time, 2:00pm)$$

- **Click51** ()

$$Click(e) \wedge e.type == Bolus \wedge e.time == 13:13pm$$

- **Q81** (): [Okay, see what she ate.](#)

$$Answer(e.food) \wedge Around(e.time, e(-1).time) \wedge e.type == Meal$$

- **Click52** ()

$$Click(e) \wedge e.type == Meal \wedge e.time == 13:39pm$$

- **Q82** (): [Let's just go to the next day.](#)

$$DoSetDate(CurrentDate + 1)$$

- Click53 ()

$Click(e) \wedge e.type == FingerSticks \wedge e.time == 11:51am$

- Q83 (): Any activity (exercise) in the afternoon?

$Answer(Any(d.type == Exercise \wedge d.time == Afternoon()))$

- S34 (): She suspended the pump at about 12:30, 1 o'clock.

$Suspended(e) \wedge (Around(e.time, 12 : 30pm) \vee Around(e.time, 1pm))$

- Q84 (): What did she eat there?

$Answer(e.food) \wedge Around(e.time, e(-1).time)$

- Click54 ()

$Click(e) \wedge e.type == Meal \wedge e.time == 13:04pm$

- Q85 (): What did she eat at supper that night?

$Answer(e.food) \wedge e.type == Meal \wedge e.time == Night()$

- Click55 ()

$Click(e) \wedge e.type == Meal \wedge e.time == 12:22pm$

- Q86 (): Now the 28th.

$DoSetDate(28th)$

- Q87 (): Was that low after exercise?

$Answer(After(e.time, e_1.time)) \wedge Hypo(e) \wedge e_1.type == Exercise$

- **Click56** ()

$Click(e) \wedge e.type == Exercise \wedge e.time == 19:52pm$

- **S35** (): [There's the exercise.](#)

$e == e(-1)$

- **Q88** (): [What did she do then?](#)

$Answer(e(-1).kind)$

- **Q89** (): [Did she take a bolus before then?](#)

$Answer(Any(e.type == Bolus \wedge Before(e.time, e(-1).time)))$

- **Click57** ()

$Click(e) \wedge e.type == Bolus \wedge e.time == 18:39pm$

- **Q90** (): [Now go to the 29th.](#)

$DoSetDate(29th)$

- **Q91** (): [Click on that meal.](#)

$DoClick(e) \wedge e.type == Meal$

- **Q92** (): [Go to the next day.](#)

$DoSetDate(CurrentDate + 1)$

- **Q93** (): Go to the 26th.

$DoSetDate(26th)$

- **Click58** ()

$Click(e) \wedge e.type == BGL \wedge e.time == 14:04pm$

- **Click59** ()

$Click(e) \wedge e.type == Hypo \wedge e.time == 12:42pm$

- **Q94** (): What did she eat before her exercise?

$Answer(e.food) \wedge Before(e.time, e_1.time) \wedge e.type == Meal \wedge e_1.type == Exercise$

- **Q95** (): What did she bolus before her exercise?

$Answer(e.value) \wedge Before(e.time, e_1(-1).time) \wedge e.type == Bolus$

- **Q96** (): Go to the 22nd.

$DoSetDate(22nd)$

- **Q97** (): Let's just go to the 17th.

$DoSetDate(17th)$

- **Q98** (): What did she eat for supper?

$Answer(e.food) \wedge e.type == Meal \wedge e.time == Night()$



- **Click60** ()

$Click(e) \wedge e.type == Meal \wedge e.time == 16:28pm$

- **Click61** ()

$Click(e) \wedge e.type == InfusionSet \wedge e.time == 15:06pm$

- **Click62** ()

$Click(e) \wedge e.type == FingerSticks \wedge e.time == 05:45am$

- **Q99** (): [Did she eat anything for that low?](#)

$Answer(Any(e.type == Meal \wedge Around(e.time, e_1.time)))$   
 $\wedge Hypo(e_1) \wedge Around(e_1.time, e(-1).time)$

- **Click63** ()

$Click(e) \wedge e.type == Meal \wedge e.time == 05:26am$

- **Click64** ()

$Click(e) \wedge e.type == Bolus \wedge e.time == 07:15am$

- **S36** (): [Did you see the low in the mid-afternoon?](#)

$Hypo(e) \wedge e.time == MidAfternoon()$

- **Q100** (): [Next day.](#)

$DoSetDate(CurrentDate + 1)$

- **Q101** (): Put steps in.

$DoToggle(On, StepsCount)$

- **Q102** (): Let's see if she walked Sunday.

$Answer(Any(e.kind == Walk \wedge e.time == Interval(Sunday)))$

- **Q103** (): Go to the 24th.

$DoSetDate(24th)$

- **Click65** ()

$Click(e) \wedge e.type == BGL \wedge e.time == 07:12pm$

- **Q104** (): Go back to Saturday.

$DoSetDate(Saturday)$

- **Click66** ()

$Click(e) \wedge e.type == FingerSticks \wedge e.time == 06:23am$

- **Q105** (): Start at the 28th.

$DoSetDate(28th)$

- **Q106** (): Look at the 27th.

$DoSetDate(27th)$

- **Q107** (): Look at 28th.

$DoSetDate(28th)$

- **Q108** (): Look at the exercise she used to bring that blood sugar down.

$DoClick(e) \wedge Behavior(e_1.value, Down)$   
 $\wedge Around(e.time, e_1.time) \wedge e.type == Exercise \wedge e_1.type == BGL$

- **Click67** ()

$Click(e) \wedge e.type == FingerSticks \wedge e.time == 05:15am$

- **Q109** (): Look at the bolus at 11pm.

$DoClick(e) \wedge e.type == Bolus \wedge Around(e.time, 11pm)$

- **Q110** (): Look at the 31st.

$DoSetDate(31st)$

- **S37** (): She boluses at night.

$e.type == Bolus \wedge e.time == Night()$

- **Q111** (): Will you toggle the steps on?

$DoToggle(On, StepCount)$

- **Q112** (): Look at the 1st.

$DoSetDate(1st)$

- **Q113** (): Did she change her infusion set?

$Answer(Any(e.type == InfusionSet \wedge e.date == CurrentDate))$

- **Click68** ()

$Click(e) \wedge e.type == Bolus \wedge e.time == 20:23pm$

- **Q114** (): How much did she bolus?

$Answer(e.value) \wedge e.type == Bolus \wedge e == e(-1)$

- **Q115** (): go to the 1st.

$DoSetDate(1st)$

- **Q116** (): go to the 3rd.

$DoSetDate(3rd)$

- **Click69** ()

$Click(e) \wedge e.type == FingerSticks \wedge e.time == 03:54am$

- **Q117** (): How low did she go right there.

$Answer(e.value) \wedge Lowest(e.value) \wedge Around(e.time, e(-1).time) \wedge e.type == BGL$

- **Click70** ()

$Click(e) \wedge e.type == Hypo \wedge e.time == 03:54am$

- **Q118** (): [Click on the exercise.](#)

$$DoClick(e) \wedge e.type == Exercise$$

- **Q119** (): [Was he working on cars again?](#)

$$Answer(e.kind == Cars) \wedge e.type == Work$$

- **Click71** ()

$$Click(e) \wedge e.type == Exercise \wedge e.time == 17:02pm$$

- **Q120** (): [On Saturday was he working on cars too?](#)

$$Answer(e.kind == Cars) \wedge e.type == Work \wedge e.date == Saturday$$

- **Q121** (): [Just look at his meals for fun.](#)

$$DoClick(e) \wedge e.type == Meal$$

- **Q122** (): [Look at the next day.](#)

$$DoSetDate(CurrentDate + 1)$$

- **Q123** (): [see if he went low.](#)

$$Answer(Any(e, Hypo(e)))$$

- **Q124** (): [Let's just look at all of his meals for fun.](#)

$$DoClick(e) \wedge e.type == Meal$$

- **Click72** ()

$$Click(e) \wedge e.type == Meal \wedge e.time == 19:09pm$$

- **Click73** ()

$$Click(e) \wedge e.type == Meal \wedge e.time == 06:19am$$

- **Click74** ()

$$Click(e) \wedge e.type == Meal \wedge e.time == 12:18pm$$

- **Q125** (): [How much did he bolus?](#)

$$Answer(e.value) \wedge Around(e.time, e(-1).time) \wedge e.type == Bolus$$

- **Q126** (): [Did he work on cars this day?](#)

$$Answer(e.kind == Cars) \wedge e.type == Work$$