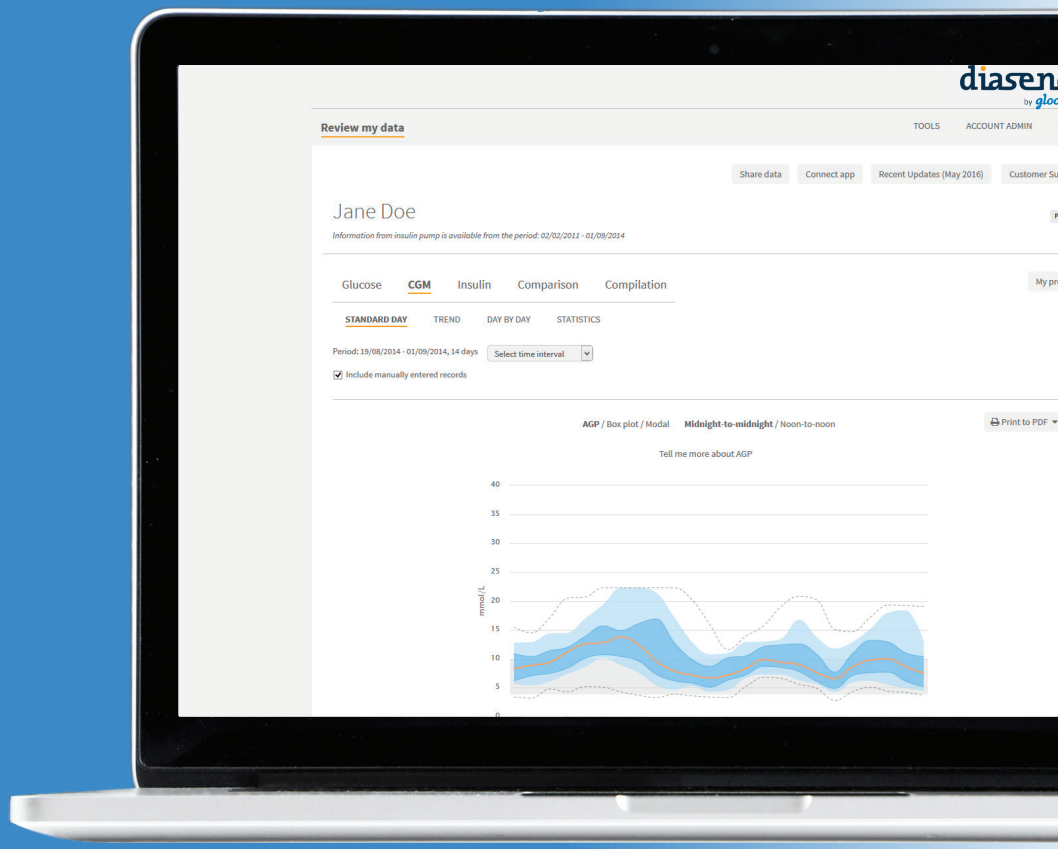
amsl diabetes

Report reference guide

mmol/L

The diasend® solution

Interpreting the charts & graphs



diasend® is a universal cloud-based diabetes data management system, that enables you to upload data from meters, pumps and CGMs.

diasend® by glooko

About the diasend® solution

diasend® solution

With the diasend® solution, data will be consolidated and viewable at www.diasend.com - without requiring any software installation. The data is presented in a clear and structured way on a secure website through graphs, tables and statistics.

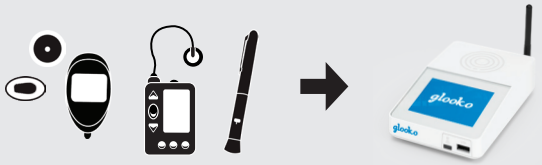
We protect your privacy

In diasend® all your private data is protected from any unauthorised access or use. All data is stored on a secure, industry standard server within the EEA region. diasend® is fully compliant with GDPR and with national privacy regulations where available. The control of sensitive data is yours and our job is to keep your data safe.

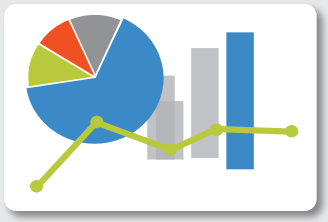
For Clinic

1. Plug Glooko Transmitter into your power outlet

2. Connect the device to Glooko Transmitter



3. Log in at diasend.com



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At diasend.com data is displayed in graphs, tables and statistics. The following pages will display some of these reports and graphs you can view in diasend®. Please note that this is a general overview of the available reports in diasend®. All features and type of devices are not available in all countries and may therefore affect what you can view at diasend.com.

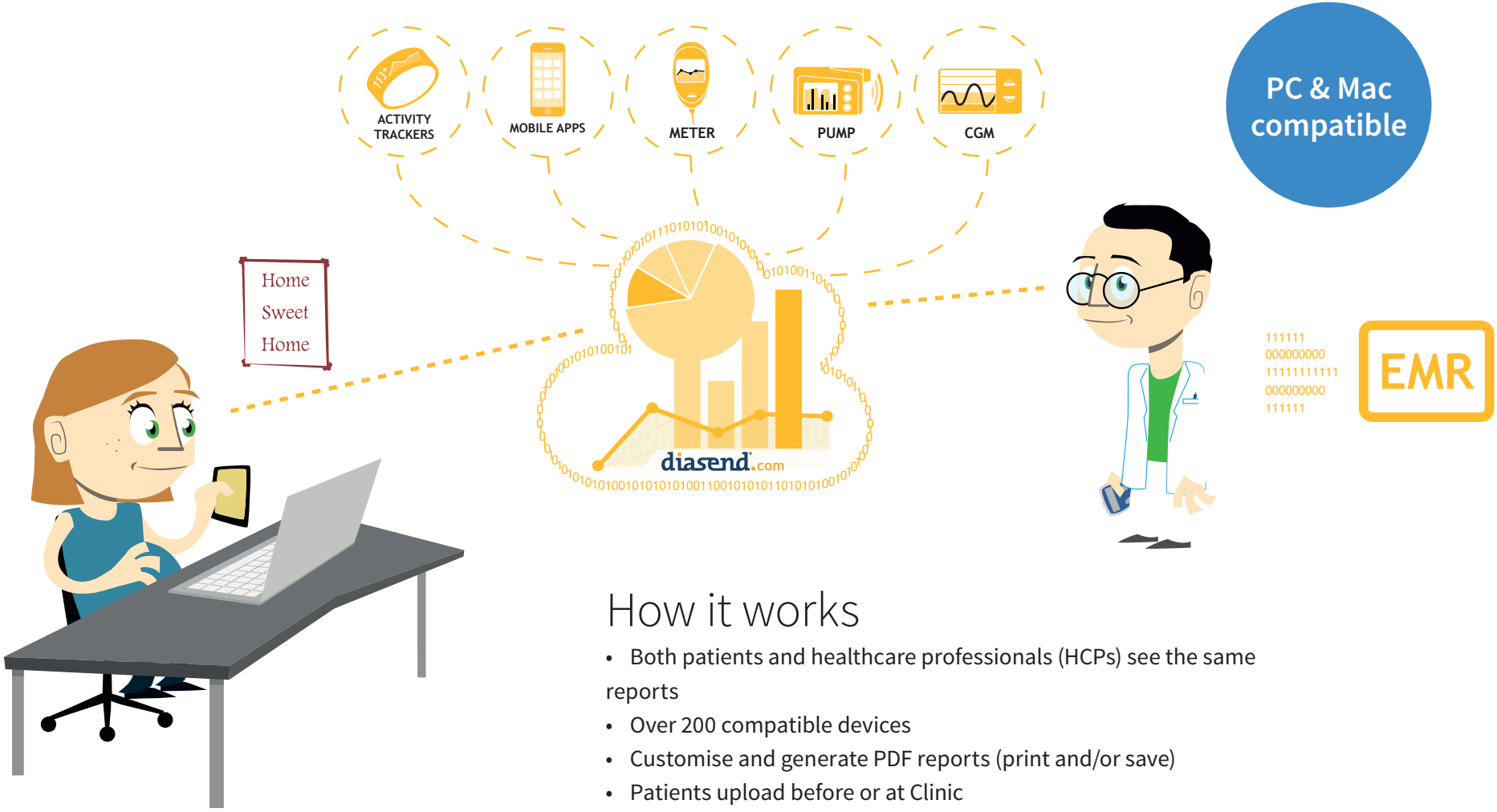
Please visit www.diasend.com for current updates regarding features and compatible devices in your specific country.

You can find a selection of our reports in this reference guide.

In addition to these you can find the following reports in our system:

- *Glucose Logbook/table*
- *Glucose Day by day*
- *Glucose Meter alarms*
- *CGM Trend*
- *CGM Day by day*
- *Insulin Trend*
- *Insulin Day by day*
- *Insulin Pump alarms*

Better control means better healthcare



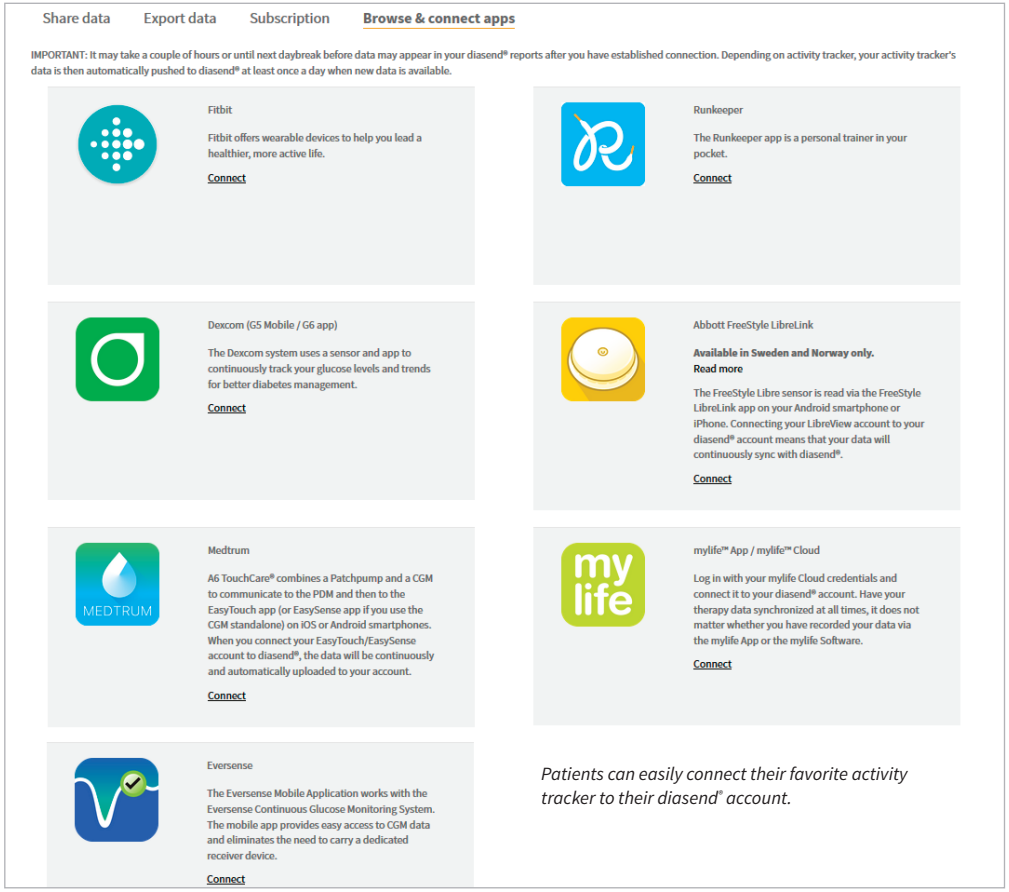
How it works

- Both patients and healthcare professionals (HCPs) see the same reports
- Over 200 compatible devices
- Customise and generate PDF reports (print and/or save)
- Patients upload before or at Clinic
- Combine data from several devices into one patient profile

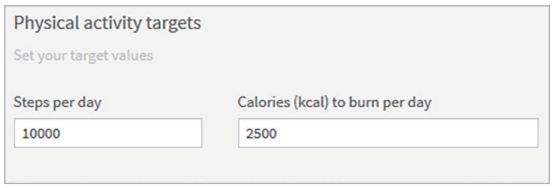
Patients can share data with healthcare professionals (HCPs)

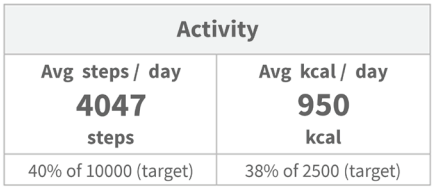
Patients can register for free, upload from home and share their data with their healthcare professionals at www.diasend.com/register

In addition to device data, patients can share data from activity trackers.



Patients can easily connect their favorite activity tracker to their diasend® account.





Report information

diasend® gives you increased accessibility to glucose readings, insulin doses and CGM data. This gives the user the ability to become more involved in their diabetes management and care. diasend® is easily customised, giving the individual patient and HCP only the data they are looking for. Our customisation ultimately allows for a more effective conversation between the patient and the HCP.

Compilation Report
Allows the user to get an overall picture of the data uploaded for that time period.

Glucose Standard Day Report
Can be used to identify patients who are not testing regularly and/or look at different time periods to identify problems.

CGM Reports
Clearly display data to help assist the HCP in identifying problem areas and/or times for each patient. You can use the CGM Standard Day report to identify the range of CGM readings by the time of day or look at the CGM statistics to check standard deviation and averages by the hour.

Day by Day Report
Easily compare different hours of the day, or weekdays against weekends. This may help the patients identify activities or events that have influenced their values.

Insulin Bolus Dose Report
Check for patterns of how the patient is bolusing. This will help identify when the patient is doing well and where they need to improve.

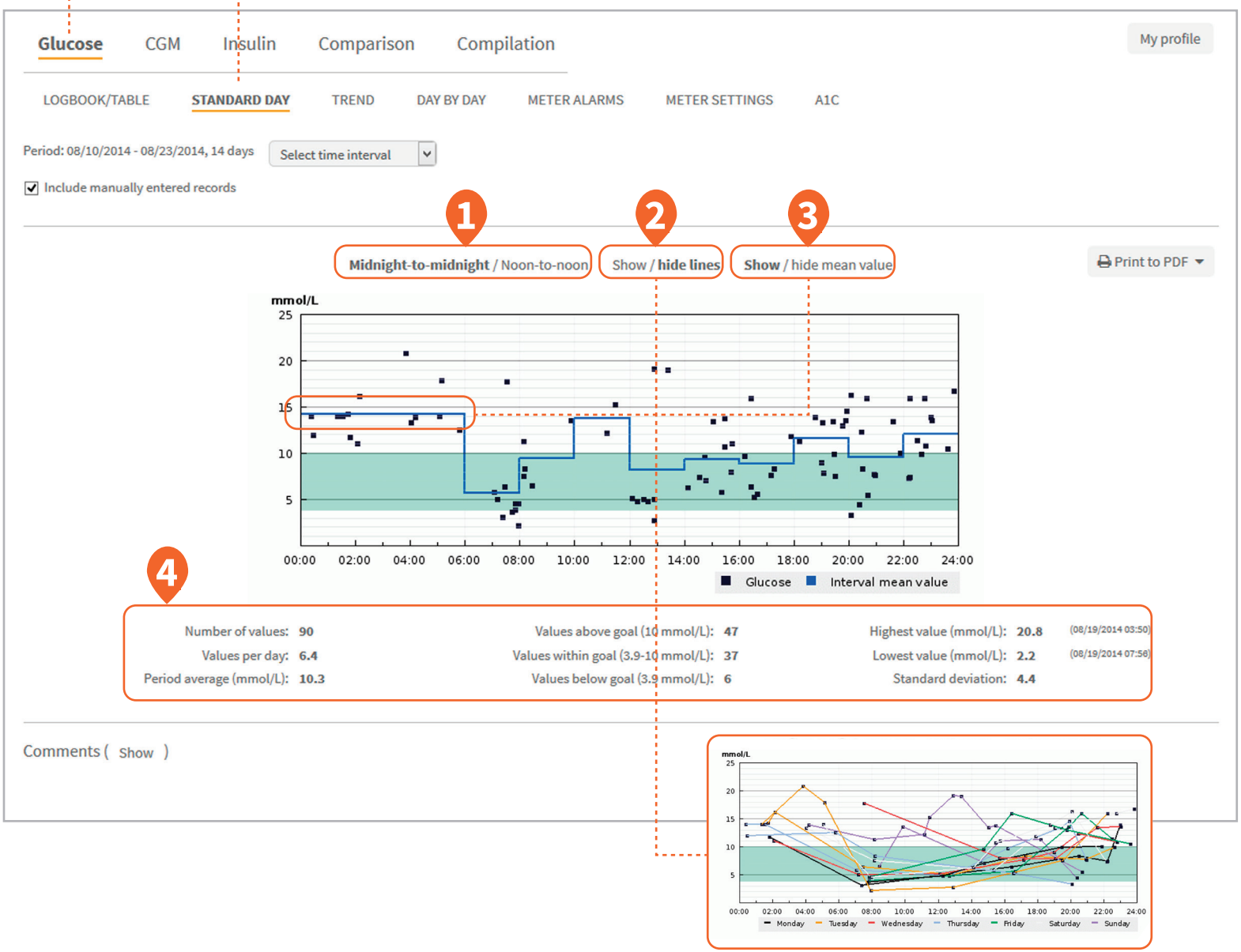
Bolus Adherence Report
Easily see what the pump has calculated for the patient's bolus against what the patient actually delivered.

Insulin Pump Settings Report
View historical data to easily compare and contrast pump settings from different time periods.

The Comparison Logbook/table Report
Gives the HCP insight into glucose measurement, carb intake and cannula fills, as well as boluses, priming, and suspend events, which assists in evaluating events by time and day (and may aid in identifying patterns). This report view also displays ketones if this is saved in the meter.

Settings Tab
Easily change the default blood glucose (BG) target range for the clinic and also individual patients as well as setting up customised PDF reports.

Glucose standard day



An overview of glucose readings plotted by time during a standard 24 hour day.

Can be used to identify patients who are not testing regularly and/or look at different time periods to identify problems.

1. You can select a midnight-to-midnight or noon-to-noon view over the selected date range.

2. You can choose to show lines to connect the values relating to each day of the week in different colors.

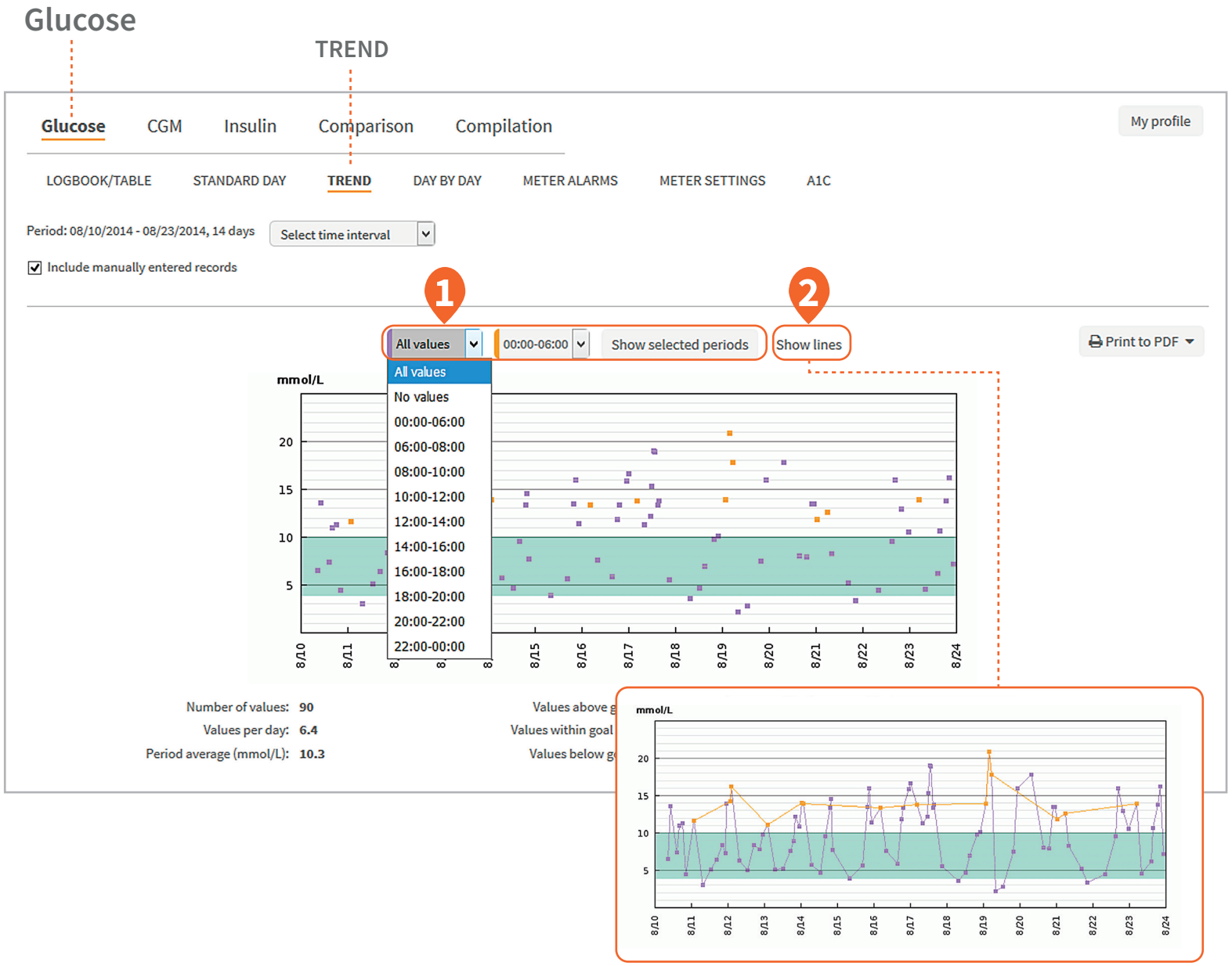
3. View the mean value by clicking on this link.

4. Statistics can be found at the bottom of each report.

Glucose trend

This displays a trend overview of glucose readings by date.

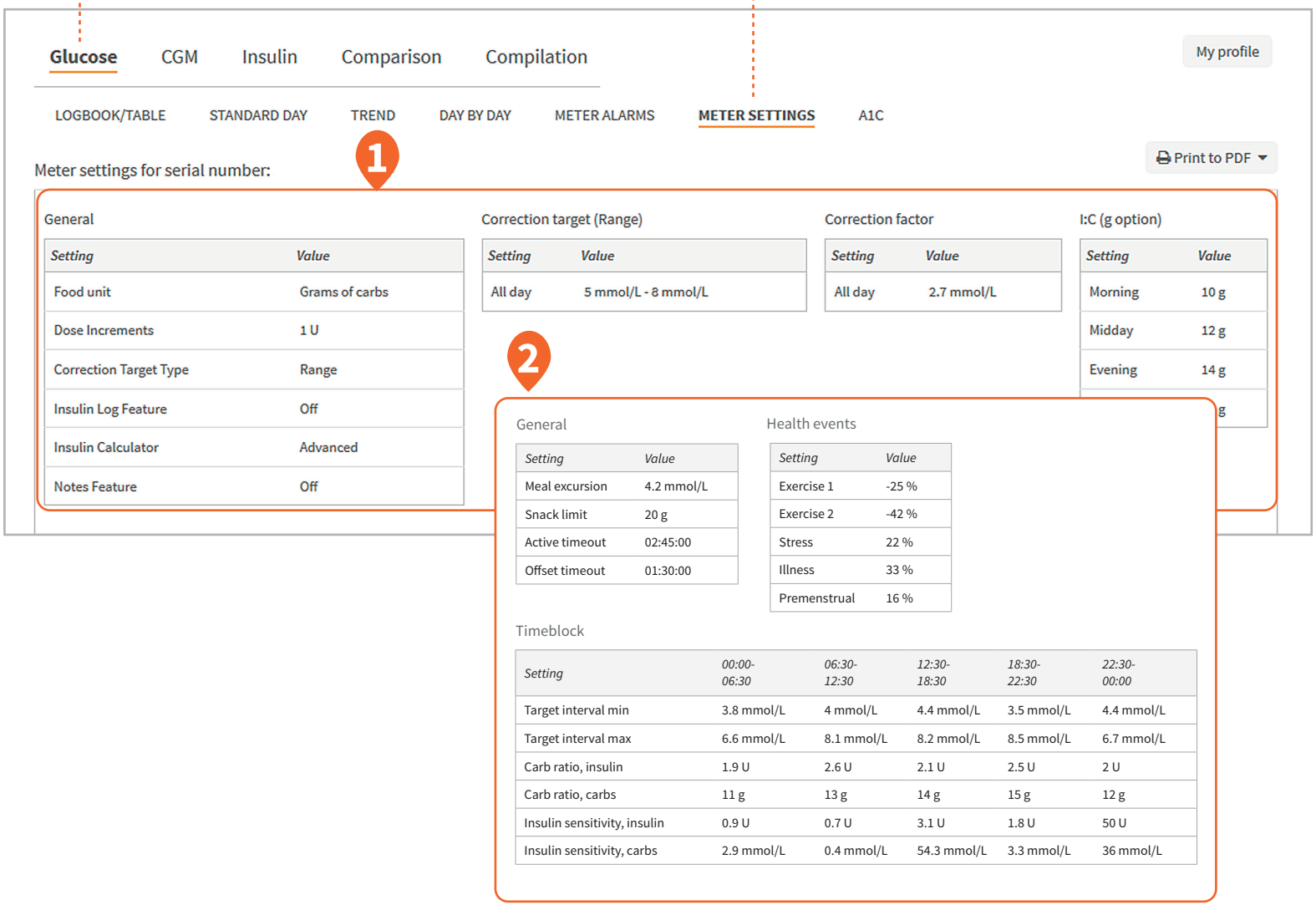
1. This view also offers the possibility to look at values during specific time periods such as before or after meals.
2. Click here to Show lines.



Glucose meter settings

Glucose

METER SETTINGS



This shows the settings for meters that have advanced settings activated.

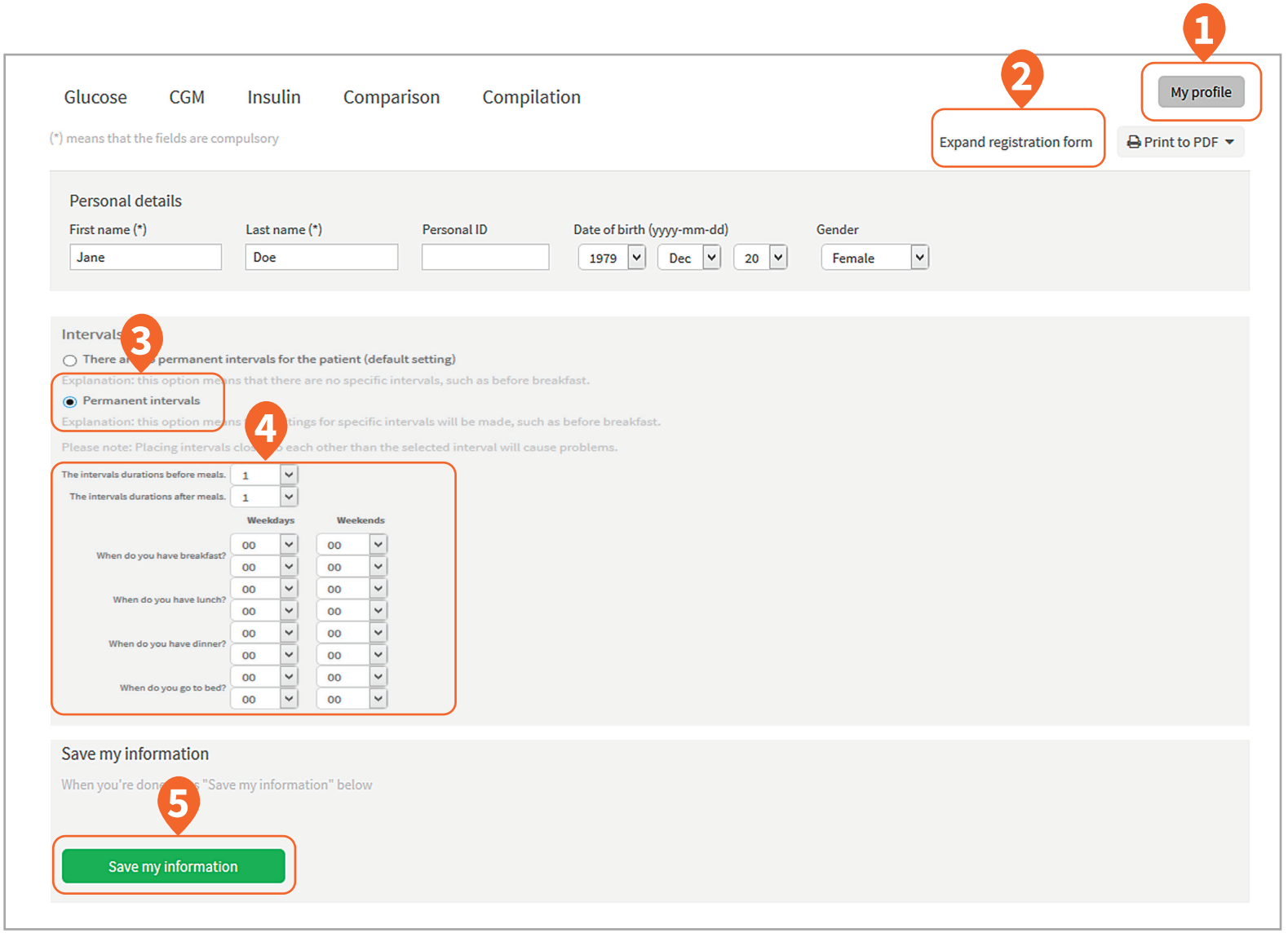
Meter settings data is displayed in different formats depending on the device that is uploaded.

- Examples of meter settings are shown on the left.

Before and after meal settings

You can choose if you want to display time intervals, or you can set it to show before and after meal times. You will see this in the Compilation (page 21) and Glucose trend (page 8) reports.

1. Click on the patient profile tab.
2. Expand the registration form to set the meal times for the patient.
3. Click on permanent intervals.
4. Set the meal times.
5. Click to save the information.



CGM standard day

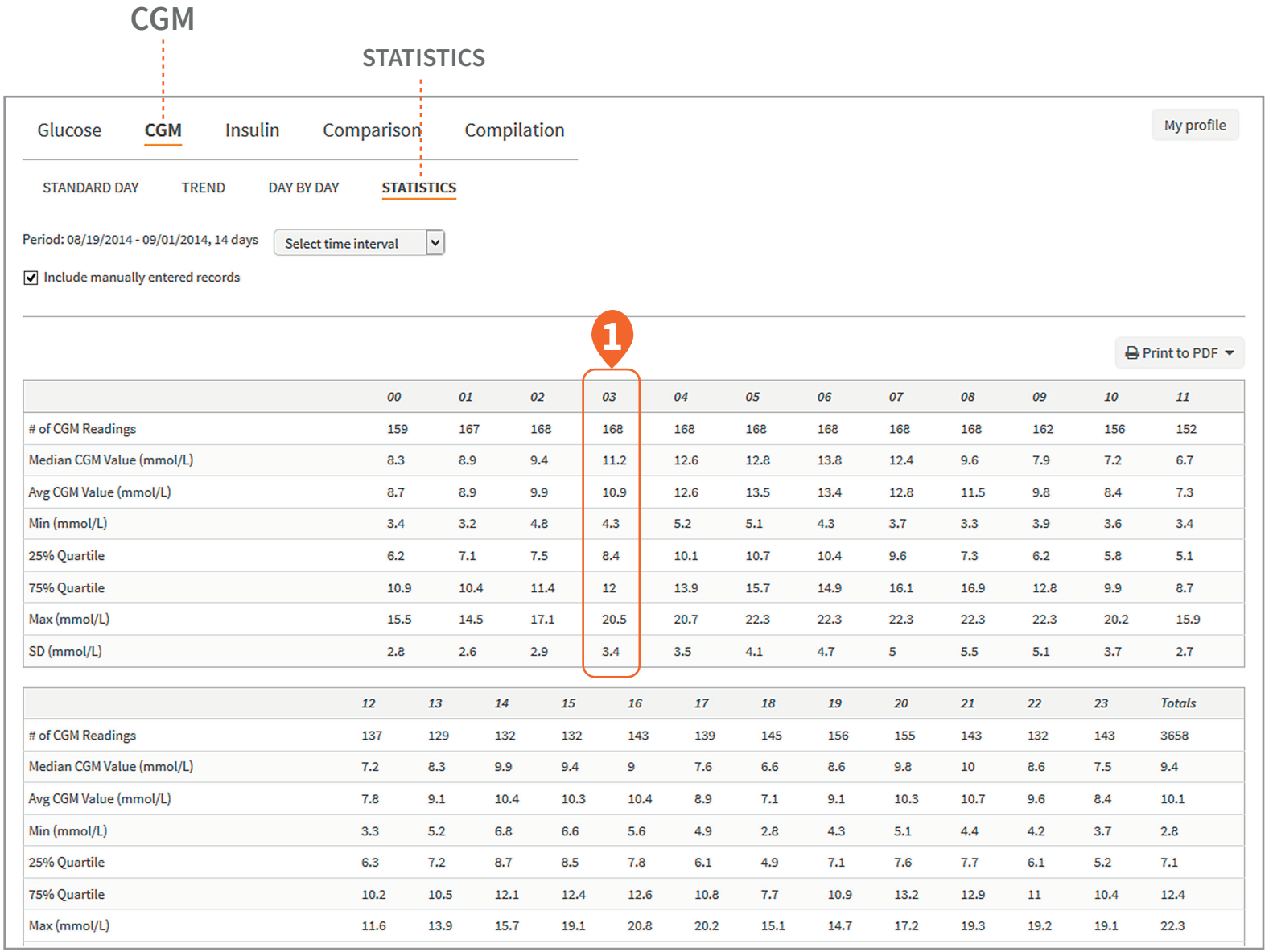
This mode shows the distribution of values per hour of the day, spanning over multiple days.

1. The median line represents the middle of the value series within each hour.
2. The darker blue area represents the Interquartile range ("IQR"), meaning the middle 50% of the values are within this range.
3. The lighter blue area represents the 10th and 90th percentile, meaning that middle 80% of the values are within this range
4. The maximum and minimum values are also visualised.
5. You can click on this link to choose to see the values as an AGP, Box plot or modal graph.

CGM statistics

This table includes detailed CGM statistics over the time period selected by hour of the day, check SD (standard deviation) and averages by the hour.

1. Statistics from a particular hour of the day.



	00	01	02	03	04	05	06	07	08	09	10	11
# of CGM Readings	159	167	168	168	168	168	168	168	168	162	156	152
Median CGM Value (mmol/L)	8.3	8.9	9.4	11.2	12.6	12.8	13.8	12.4	9.6	7.9	7.2	6.7
Avg CGM Value (mmol/L)	8.7	8.9	9.9	10.9	12.6	13.5	13.4	12.8	11.5	9.8	8.4	7.3
Min (mmol/L)	3.4	3.2	4.8	4.3	5.2	5.1	4.3	3.7	3.3	3.9	3.6	3.4
25% Quartile	6.2	7.1	7.5	8.4	10.1	10.7	10.4	9.6	7.3	6.2	5.8	5.1
75% Quartile	10.9	10.4	11.4	12	13.9	15.7	14.9	16.1	16.9	12.8	9.9	8.7
Max (mmol/L)	15.5	14.5	17.1	20.5	20.7	22.3	22.3	22.3	22.3	22.3	20.2	15.9
SD (mmol/L)	2.8	2.6	2.9	3.4	3.5	4.1	4.7	5	5.5	5.1	3.7	2.7

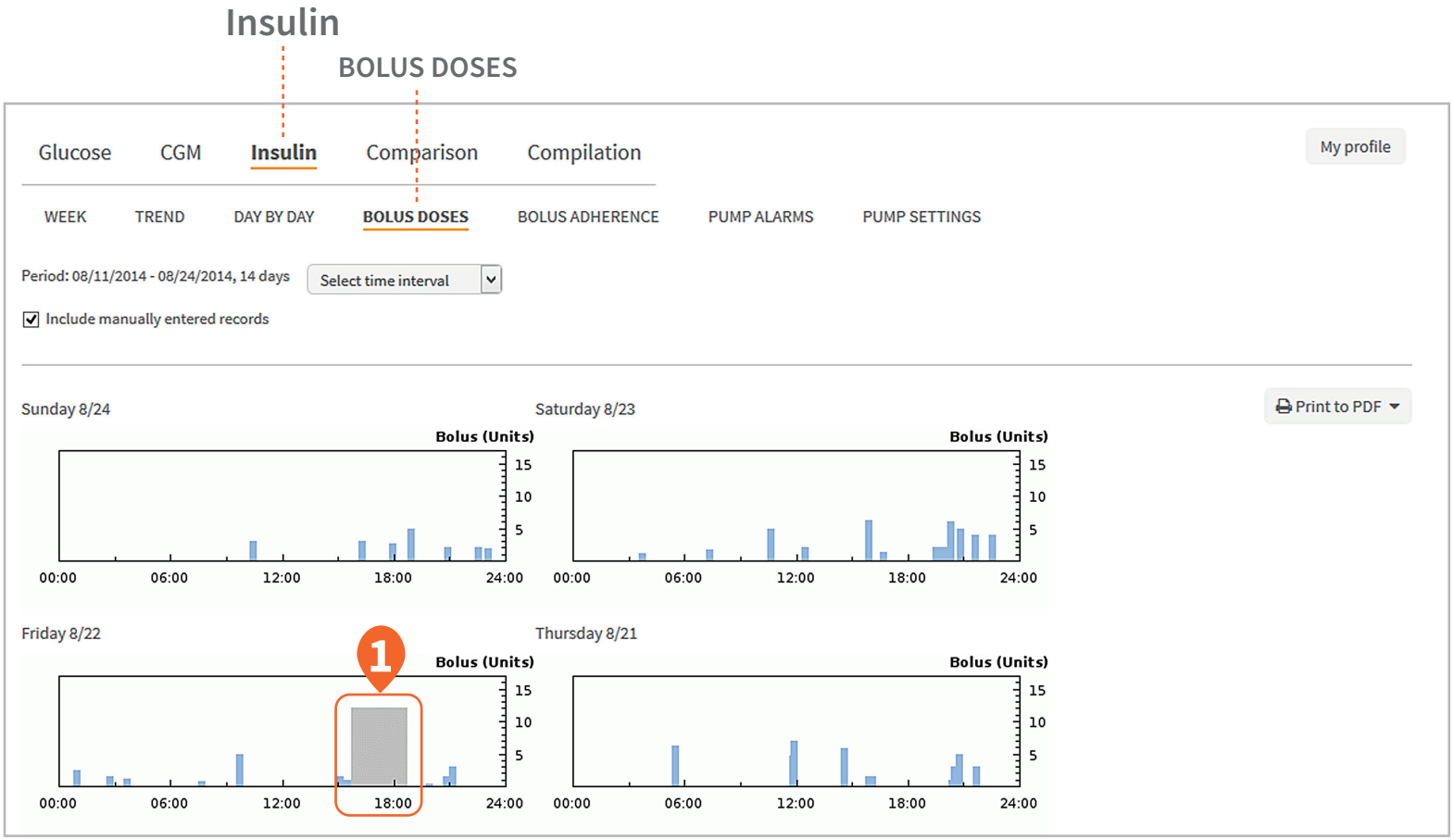
	12	13	14	15	16	17	18	19	20	21	22	23	Totals
# of CGM Readings	137	129	132	132	143	139	145	156	155	143	132	143	3658
Median CGM Value (mmol/L)	7.2	8.3	9.9	9.4	9	7.6	6.6	8.6	9.8	10	8.6	7.5	9.4
Avg CGM Value (mmol/L)	7.8	9.1	10.4	10.3	10.4	8.9	7.1	9.1	10.3	10.7	9.6	8.4	10.1
Min (mmol/L)	3.3	5.2	6.8	6.6	5.6	4.9	2.8	4.3	5.1	4.4	4.2	3.7	2.8
25% Quartile	6.3	7.2	8.7	8.5	7.8	6.1	4.9	7.1	7.6	7.7	6.1	5.2	7.1
75% Quartile	10.2	10.5	12.1	12.4	12.6	10.8	7.7	10.9	13.2	12.9	11	10.4	12.4
Max (mmol/L)	11.6	13.9	15.7	19.1	20.8	20.2	15.1	14.7	17.2	19.3	19.2	19.1	22.3

Insulin week

Daily and weekly basal and bolus distribution.

1. Daily basal-bolus numbers can be viewed in the bar graph.
2. You can view the insulin distribution for the week in the pie chart.

Insulin bolus doses



Bolus doses displayed in graph format to easily view daily bolus activity by time of day.

This graph gives you a general overview of the bolus doses over a period of time. Check for patterns of how the patient is bolusing. This will help identify when the patient is doing well and where they need to improve.

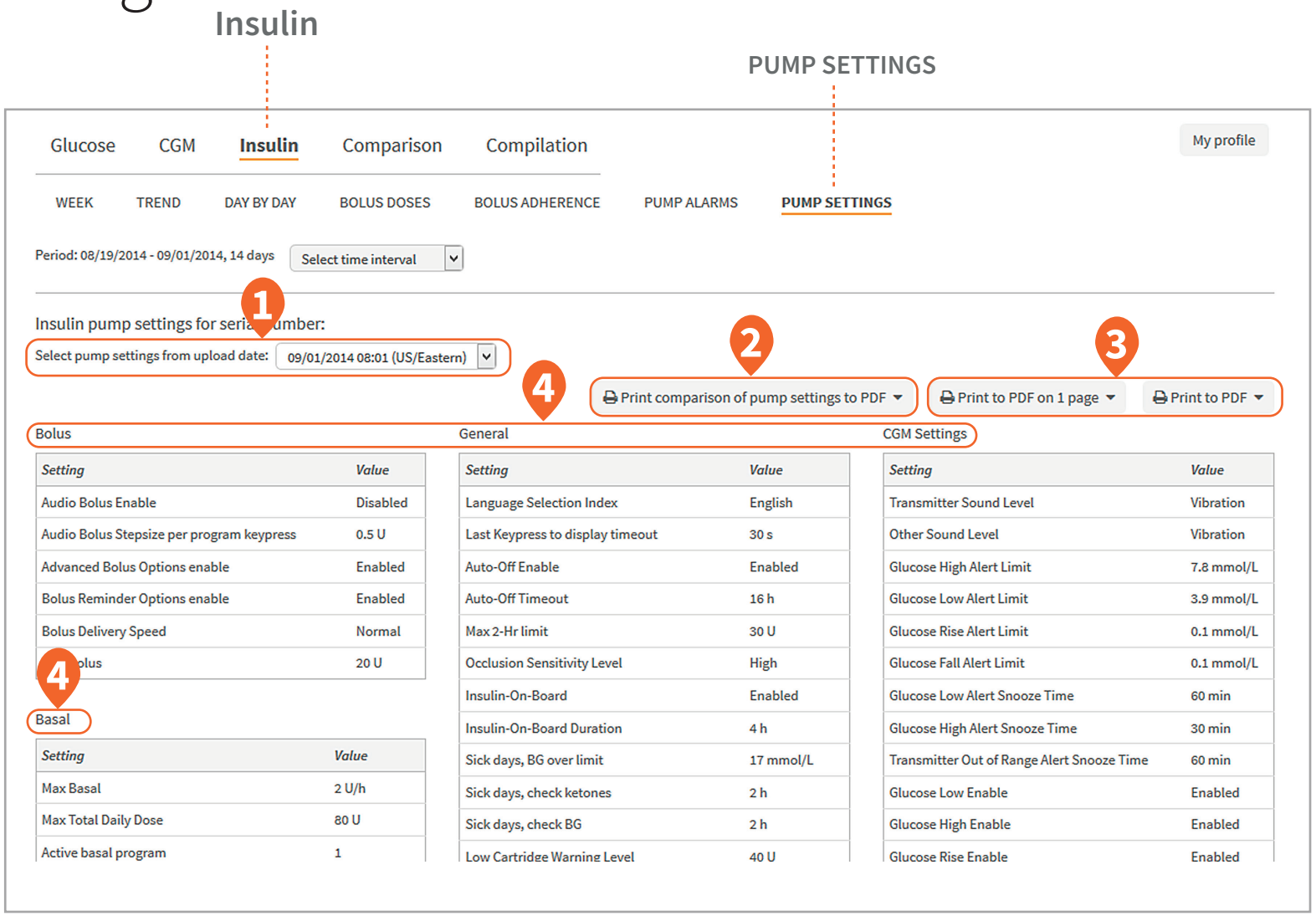
For example you can see gaps of missed boluses.

1 A combo bolus may be used for high fat/carb meals providing a percentage of the dose immediately and then a slow infusion of insulin spread out over a set amount of time.

Insulin pump settings

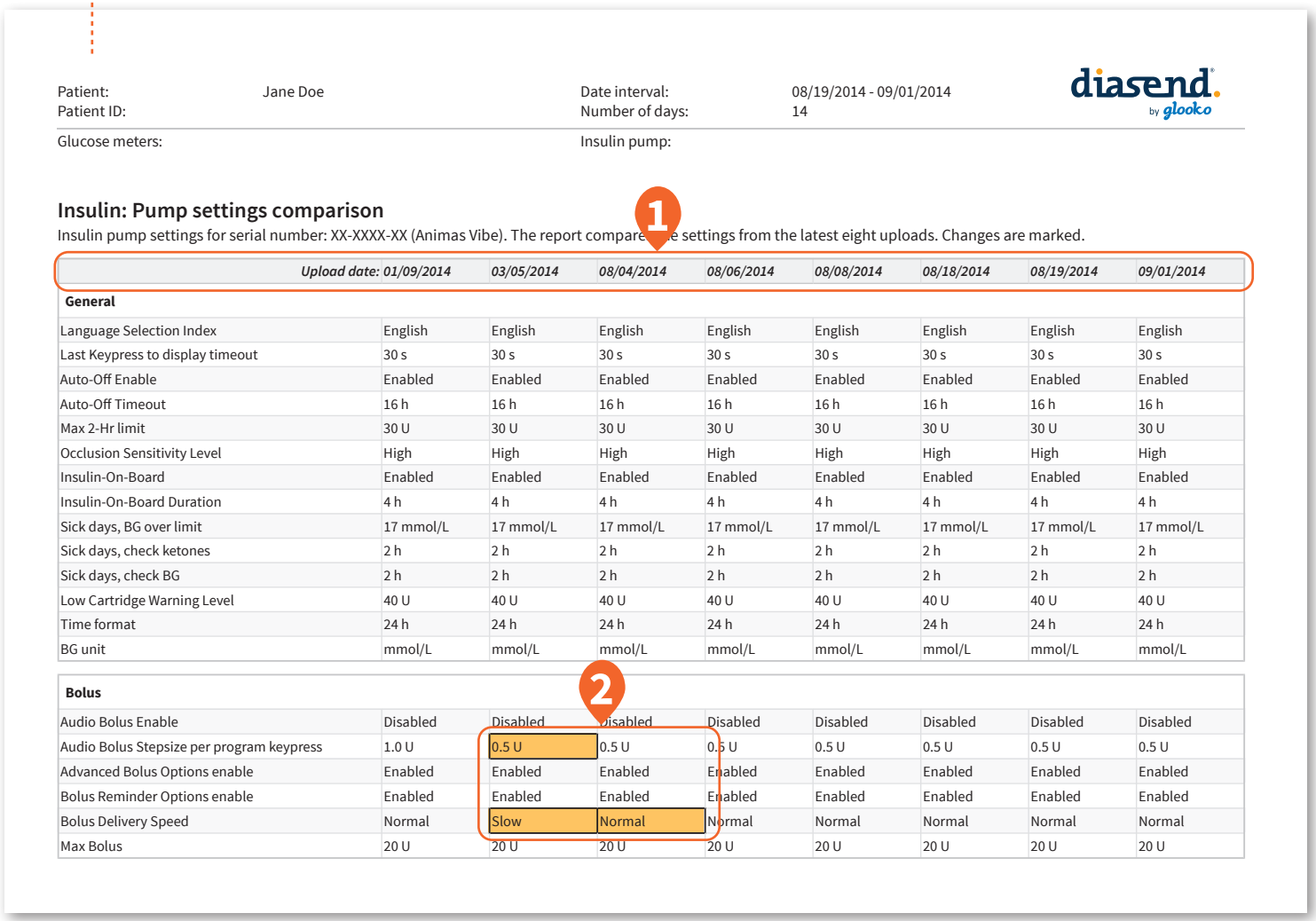
This provides the information of the current and historical settings in the pump to easily review, compare and adjust as necessary.

1. Select and view the pump settings from every upload.
2. Print a comparison of the latest available pump settings (see page 17).
3. Select one of these options to print the displayed pump setting in an expanded version, or in a minimised version where all pump settings are compressed onto 1 page (see page 22 for an example).
4. View the Bolus, Basal, General and CGM settings. In this report you can also view I:C ratio, ISF and glucose target ranges.



Compare pump settings

(PRINTED COMPARISON OF PUMP SETTINGS)



Patient: Jane Doe
Patient ID:
Date interval: 08/19/2014 - 09/01/2014
Number of days: 14

diasend by glooko

Glucose meters:
Insulin pump:

Insulin: Pump settings comparison

Insulin pump settings for serial number: XX-XXXX-XX (Animas Vibe). The report compare[illegible]e settings from the latest eight uploads. Changes are marked.

Upload date:	*01/09/2014*	*03/05/2014*	*08/04/2014*	*08/06/2014*	*08/08/2014*	*08/18/2014*	*08/19/2014*	*09/01/2014*
General								
Language Selection Index	English	English	English	English	English	English	English	English
Last Keypress to display timeout	30 s	30 s	30 s	30 s	30 s	30 s	30 s	30 s
Auto-Off Enable	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
Auto-Off Timeout	16 h	16 h	16 h	16 h	16 h	16 h	16 h	16 h
Max 2-Hr limit	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
Occlusion Sensitivity Level	High	High	High	High	High	High	High	High
Insulin-On-Board	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
Insulin-On-Board Duration	4 h	4 h	4 h	4 h	4 h	4 h	4 h	4 h
Sick days, BG over limit	17 mmol/L	17 mmol/L	17 mmol/L	17 mmol/L	17 mmol/L	17 mmol/L	17 mmol/L	17 mmol/L
Sick days, check ketones	2 h	2 h	2 h	2 h	2 h	2 h	2 h	2 h
Sick days, check BG	2 h	2 h	2 h	2 h	2 h	2 h	2 h	2 h
Low Cartridge Warning Level	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Time format	24 h	24 h	24 h	24 h	24 h	24 h	24 h	24 h
BG unit	mmol/L	mmol/L	mmol/L	mmol/L	mmol/L	mmol/L	mmol/L	mmol/L
Bolus								
Audio Bolus Enable	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Audio Bolus Stepsize per program keypress	1.0 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Advanced Bolus Options enable	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
Bolus Reminder Options enable	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
Bolus Delivery Speed	Normal	Slow	Normal	Normal	Normal	Normal	Normal	Normal
Max Bolus	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U

This report shows the pump settings from the latest uploads. You can easily compare changes between uploads.

1. The date of each upload.

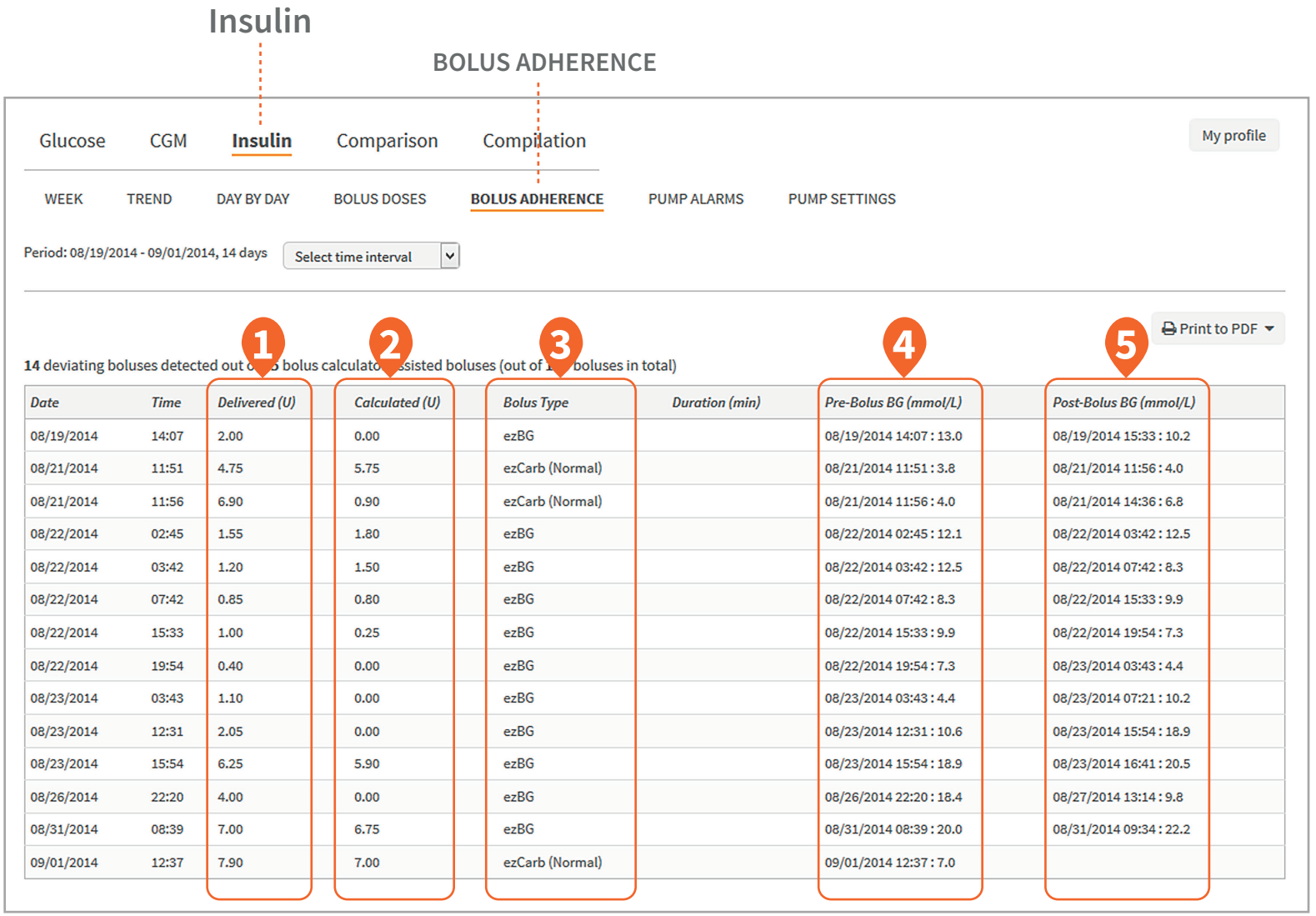
2. For ease of reference all changes, compared to the latest uploads to diasend®, are highlighted in the report.

Insulin bolus adherence

Log of when bolus overrides have occurred. This report allows you to see what the pump calculated as the patient's bolus against what the patient actually delivered.

The report displays:

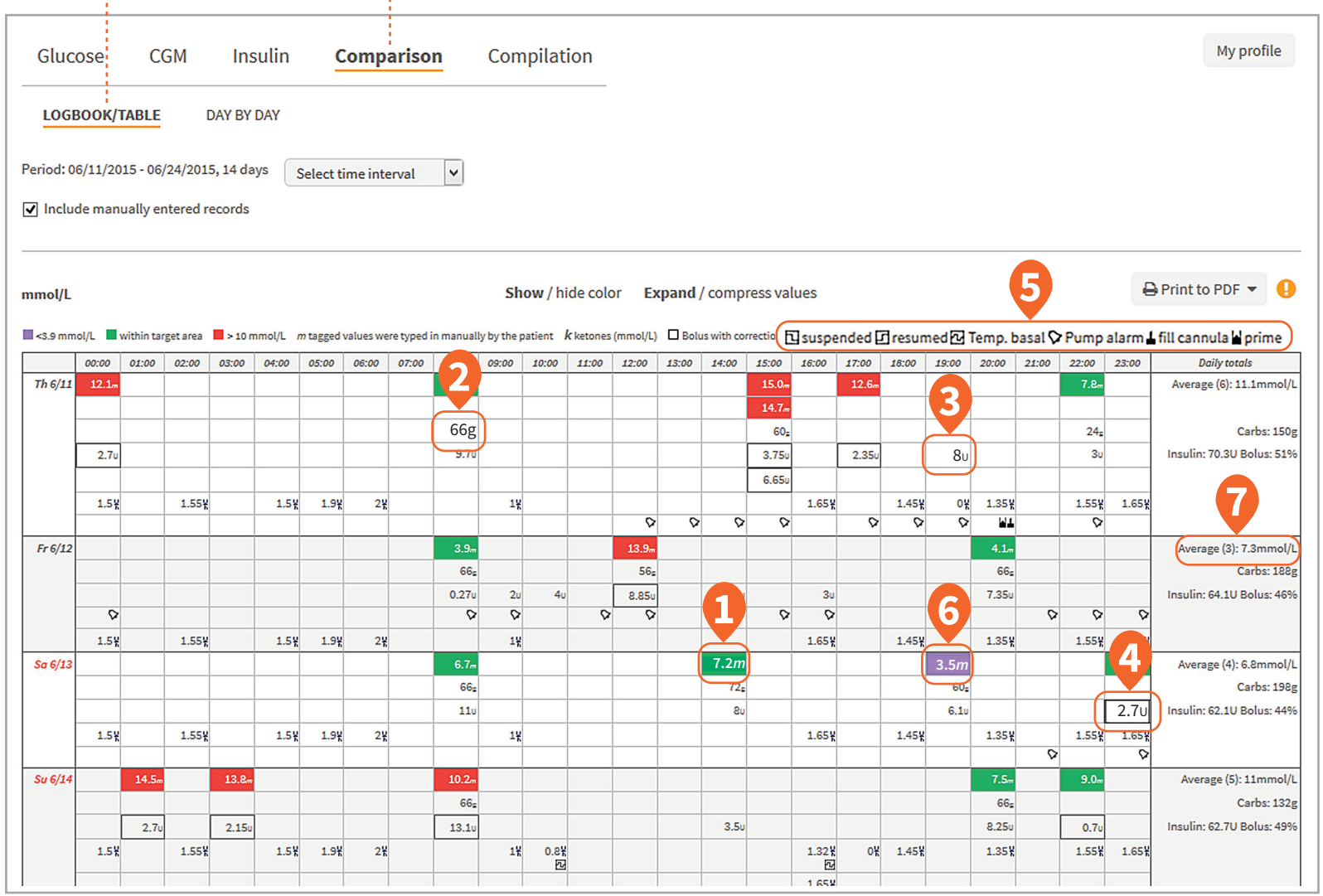
1. Insulin actually delivered.
2. Amount of insulin suggested by bolus calculator.
3. Bolus Type.
4. Pre-bolus BG reading.
5. Post-bolus BG reading



14 deviating boluses detected out o bolus calculato sisted boluses (out of 1 boluses in total)

Date	*Time*	*Delivered (U)*	*Calculated (U)*	*Bolus Type*	*Duration (min)*	*Pre-Bolus BG (mmol/L)*	*Post-Bolus BG (mmol/L)*
08/19/2014	14:07	2.00	0.00	ezBG		08/19/2014 14:07 : 13.0	08/19/2014 15:33 : 10.2
08/21/2014	11:51	4.75	5.75	ezCarb (Normal)		08/21/2014 11:51 : 3.8	08/21/2014 11:56 : 4.0
08/21/2014	11:56	6.90	0.90	ezCarb (Normal)		08/21/2014 11:56 : 4.0	08/21/2014 14:36 : 6.8
08/22/2014	02:45	1.55	1.80	ezBG		08/22/2014 02:45 : 12.1	08/22/2014 03:42 : 12.5
08/22/2014	03:42	1.20	1.50	ezBG		08/22/2014 03:42 : 12.5	08/22/2014 07:42 : 8.3
08/22/2014	07:42	0.85	0.80	ezBG		08/22/2014 07:42 : 8.3	08/22/2014 15:33 : 9.9
08/22/2014	15:33	1.00	0.25	ezBG		08/22/2014 15:33 : 9.9	08/22/2014 19:54 : 7.3
08/22/2014	19:54	0.40	0.00	ezBG		08/22/2014 19:54 : 7.3	08/23/2014 03:43 : 4.4
08/23/2014	03:43	1.10	0.00	ezBG		08/23/2014 03:43 : 4.4	08/23/2014 07:21 : 10.2
08/23/2014	12:31	2.05	0.00	ezBG		08/23/2014 12:31 : 10.6	08/23/2014 15:54 : 18.9
08/23/2014	15:54	6.25	5.90	ezBG		08/23/2014 15:54 : 18.9	08/23/2014 16:41 : 20.5
08/26/2014	22:20	4.00	0.00	ezBG		08/26/2014 22:20 : 18.4	08/27/2014 13:14 : 9.8
08/31/2014	08:39	7.00	6.75	ezBG		08/31/2014 08:39 : 20.0	08/31/2014 09:34 : 22.2
09/01/2014	12:37	7.90	7.00	ezCarb (Normal)		09/01/2014 12:37 : 7.0	

Comparison logbook/table



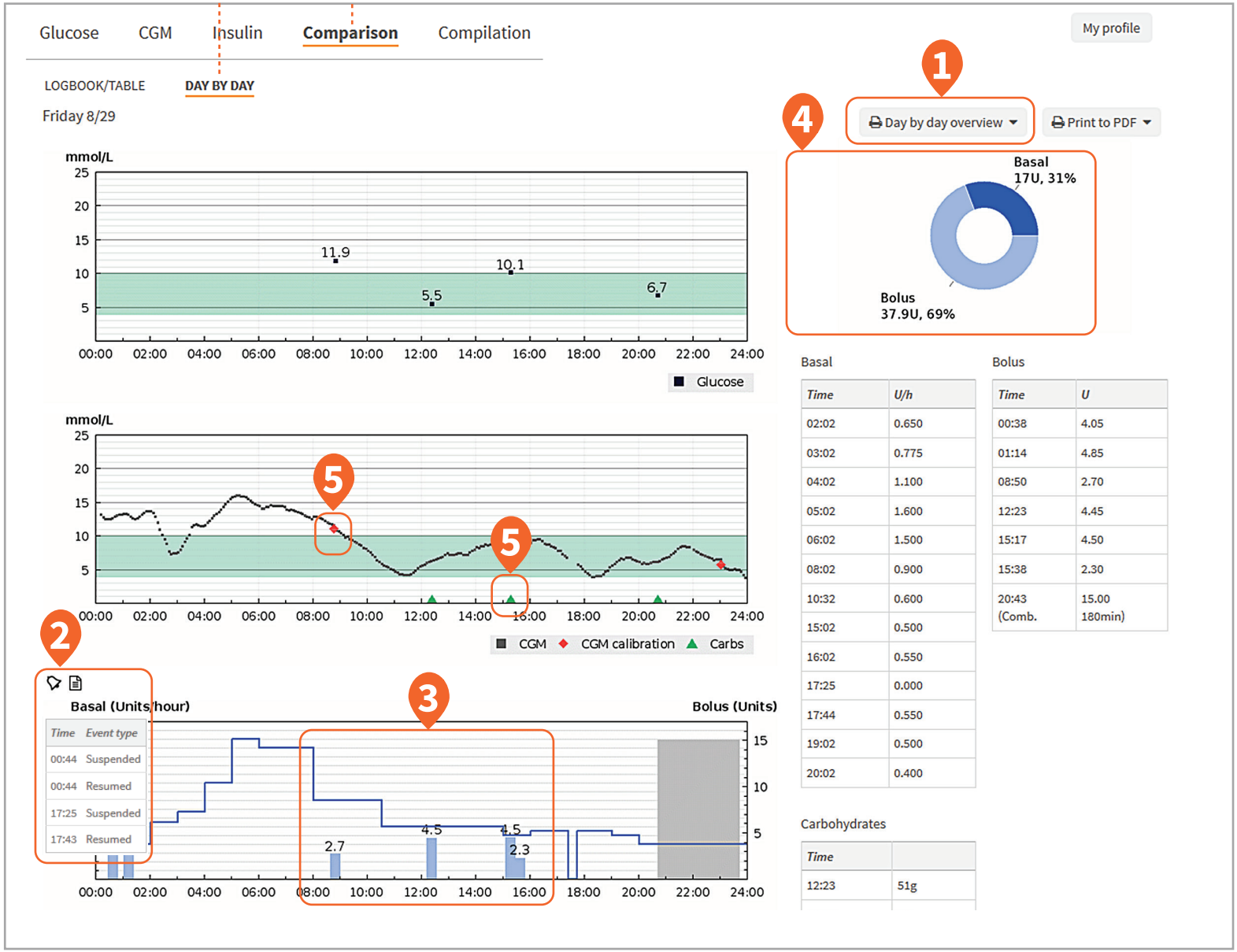
Consolidated data from insulin pump and glucose meters in a logbook view. Gives the HCP insight into glucose measurement, carb intake and cannula fills, as well as boluses, priming, and suspend events, which assists in evaluating events by time and day (and may aid in identifying patterns). This report view also displays ketones if this is saved in the meter.

1. The free standing numbers are glucose readings.
2. ”g” stands for grams of carbohydrates.
3. ”U” stands for units of insulin.
4. The box indicates that a correction was made.
5. You can view pump events.
6. Red = above target range
   Blue = below target range
   Green = within target range
7. Daily averages also available

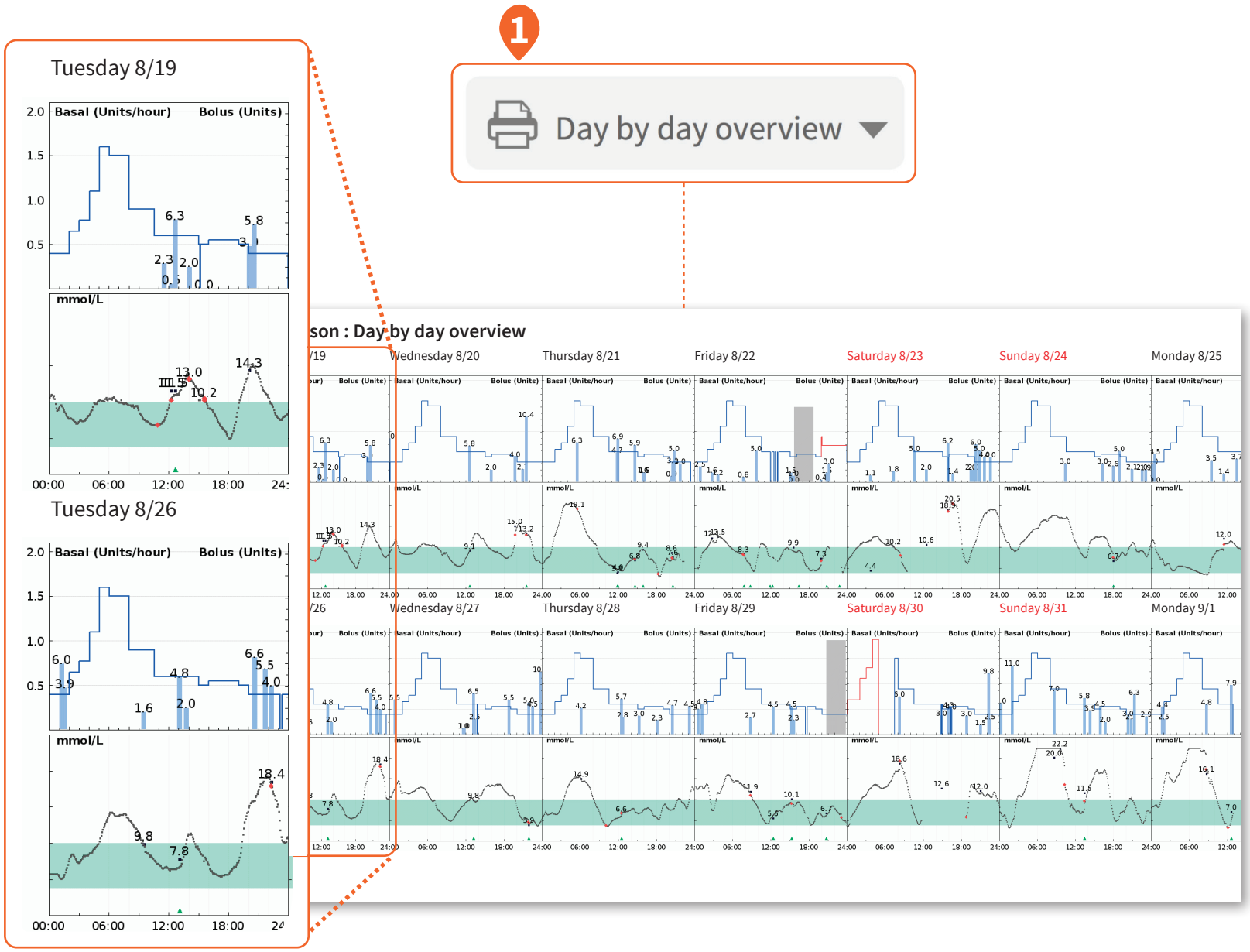
Comparison day by day

A day by day view of consolidated data from insulin pumps, glucose meters and CGMs in table and graphs.

1. Click on this button to see a 2 week overview on one page (see page 21 for a sample).
2. Details of events and alarms can be seen if you hover over the icons above the graph.
3. The bolus and basal graph will display insulin data which includes basal rate, temporary basal rate, boluses doses, combination boluses.
4. You can view the daily total basal and bolus insulin distribution which is isplayed in a separate pie chart.
5. You can view the carbs in this graph as well as the CGM curve and calibrations if CGM has been uploaded.



Comparison day by day overview (print to pdf)



Create a pdf with a 14 day overview!

All reports in diasend® can also easily and quickly be exported and printed in PDF by setting up the PDF Wizard. Please see page 23 for information on personalisation/customisation of PDF reports.

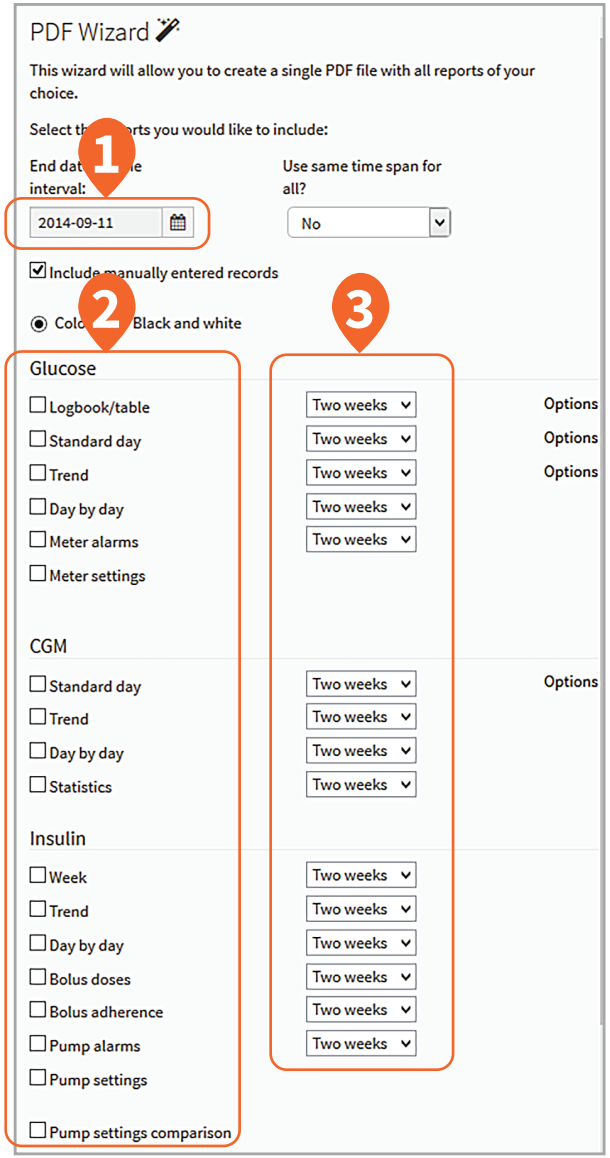
1 By clicking here you can create a day by day overview containing several weeks. This gives you the ability to compare data from one week to the next.

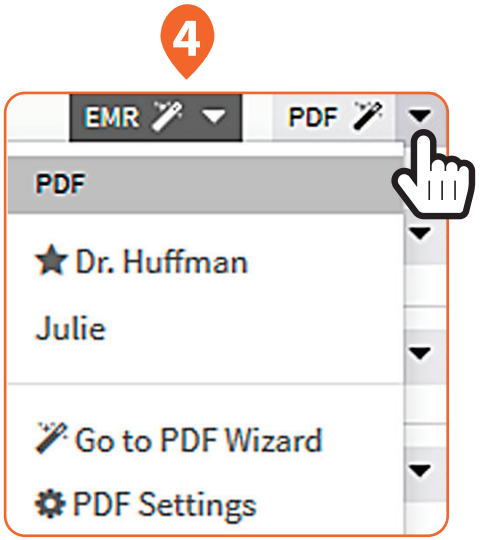
Compilation report

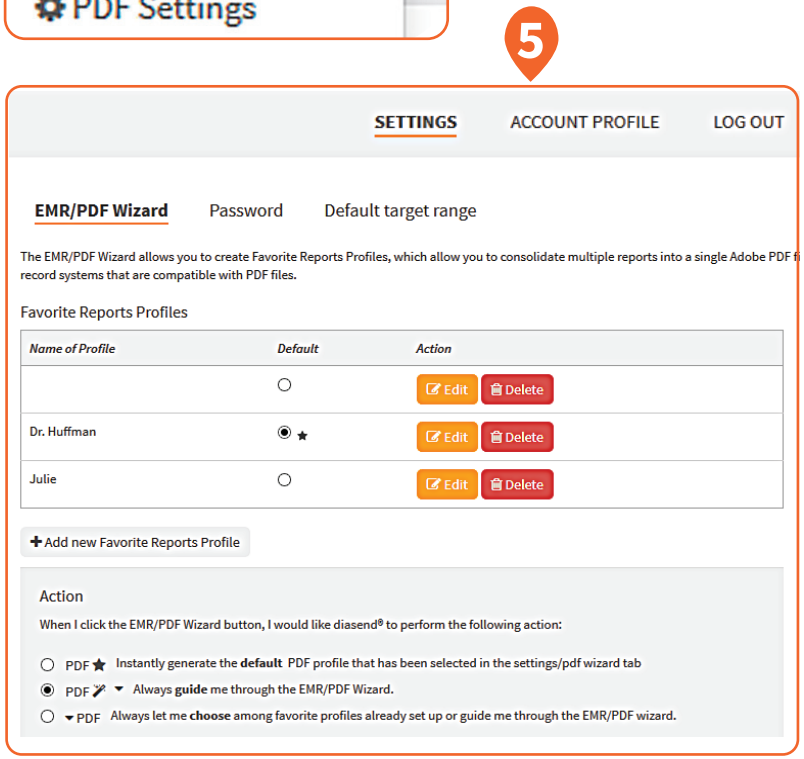
A summary of aggregated data from glucose meters, insulin pumps and CGMs. Allows the user to get an overall picture of the data uploaded for that time period.

1. View average BG and SD by time of day.
2. View detailed CGM data such as average by time of day and AUC (area under the curve).
3. View detailed insulin pump and carb information such as average days between cannula fills and average days between primes.

PDF wizard







Allows customisation and management of report preferences consolidated into one PDF file. This includes the ability to add favorite profiles per user.

1. Set the end date of the desired time interval.
2. The PDF Wizard allows you to choose which reports to include.
3. Set the time span.
4. In the patient list you can click on the PDF icon to create a compiled PDF report or click on the downward pointing arrow to select the pre-set profile you wish to view/print.
5. You can also find the PDF Wizard under Settings in your account. There you can also add new customised report profiles.

diasend® is indicated for use by individuals or healthcare professionals in the home or health care facilities for transmitting data from home monitoring devices such as glucose meters and insulin pumps to a server database to support diabetes management.

For more information on diasend by Glooko please contact us on **1300 851 056** or at **diabetes@amsl.com.au**

amsldiabetes.com.au

To contact Glooko directly, visit glooko.com/int or email support@diasend.com. PR-100-49 March 2020

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