Report reference guide

mmol/L

One solution — No fuss

EMR

diasend®.com

Easy Diabetes Communication

About diasend®

diasend® is a standalone system for easy uploading of information from most glucose meters, insulin pumps and CGMs.

diasend® System

With the diasend® System data will be consolidated and presented at www.diasend.com - without requiring any software installation. All you have to do is plug Transmitter into an electrical outlet and you are ready to upload data. The data is presented in a clear and structured way on a secure website through graphs, tables and statistics and the information can be viewed on any computer with Internet access. Data is divided over 5 main areas (tabs) including Glucose, CGM, Insulin, Comparison and Compilation.

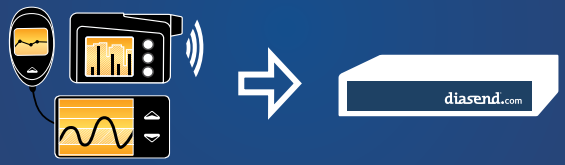
Cloud based

Patients and care providers see the same data, which can be viewed on any computer connected to the Internet.

1. Plug Transmitter into your outlet

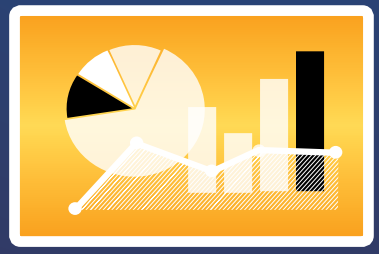
2. Connect the device to Transmitter

Use the appropriate USB cable, bluetooth or infrared eye. Instantly uploaded to diasend.com.

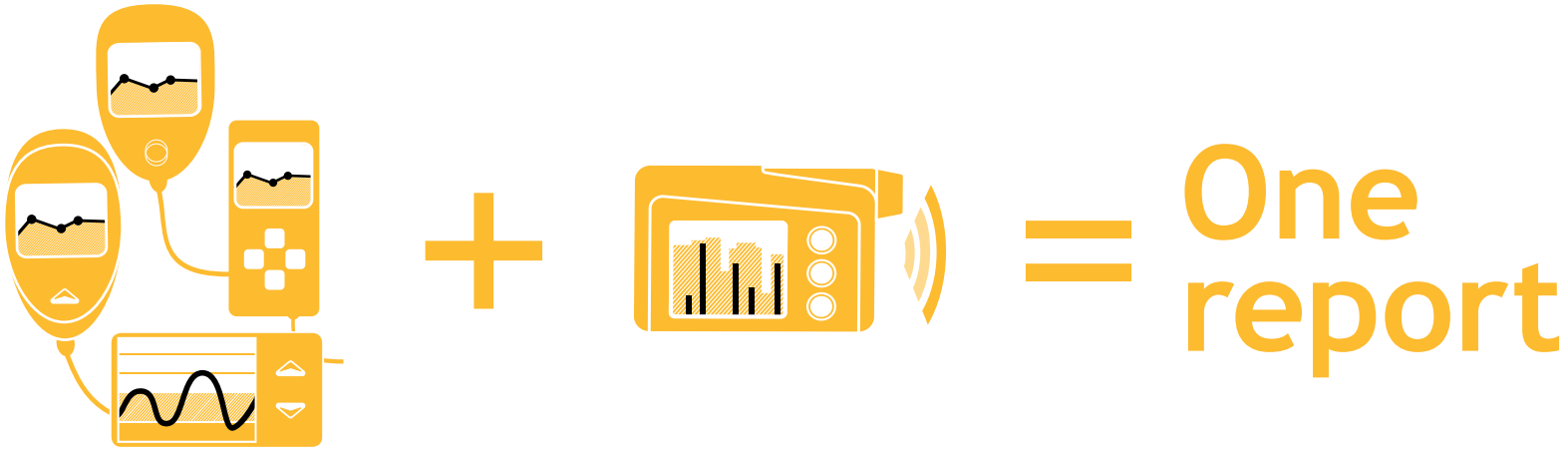


3. Log in at diasend.com

View tables and graphs and send to your Electronic Medical Record (EMR).



Consolidated reports to your EMR



One report for all devices

Consolidates data from multiple glucose meters, CGMs and insulin pumps into one single report, irrespective of device brand.

Send data to EMR

Seamless integration from diasend® to your clinic's Electronic Medical Record (EMR).

Contents

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

Glucose

CGM

Insulin

Comparison

Compilation

PDF Wizard

Information: 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. The device is indicated for professional use and over-the-counter sales.

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 update regarding features, FDA cleared and compatible devices in your specific country.

Viewing data

Improve communication with patients and maximize clinic appointments by seeing the same data - available even before the clinic appointment starts.

Care providers and patients see the same information

The reports, tables, graphs and statistics are presented in the same way whether used by the clinic or patient. It is also possible to customize and generate PDF reports which you can print and/or save.

Free Patient uploads from home

Patients can upload their data at home for their care provider. The data will be ready to view when the appointment starts, reducing time spent on uploads and maximizing valuable clinical face time.

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 customized, giving the individual patient and HCP only the data they are looking for. Our customization 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
This report can be used to identify patients who are not testing regularly and/or look at different time periods to identify problems.

CGM Reports
These reports will 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 SD and averages by the hour.

Day to Day Report
Displays data so that the HCP can 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
This report will help the HCP 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.

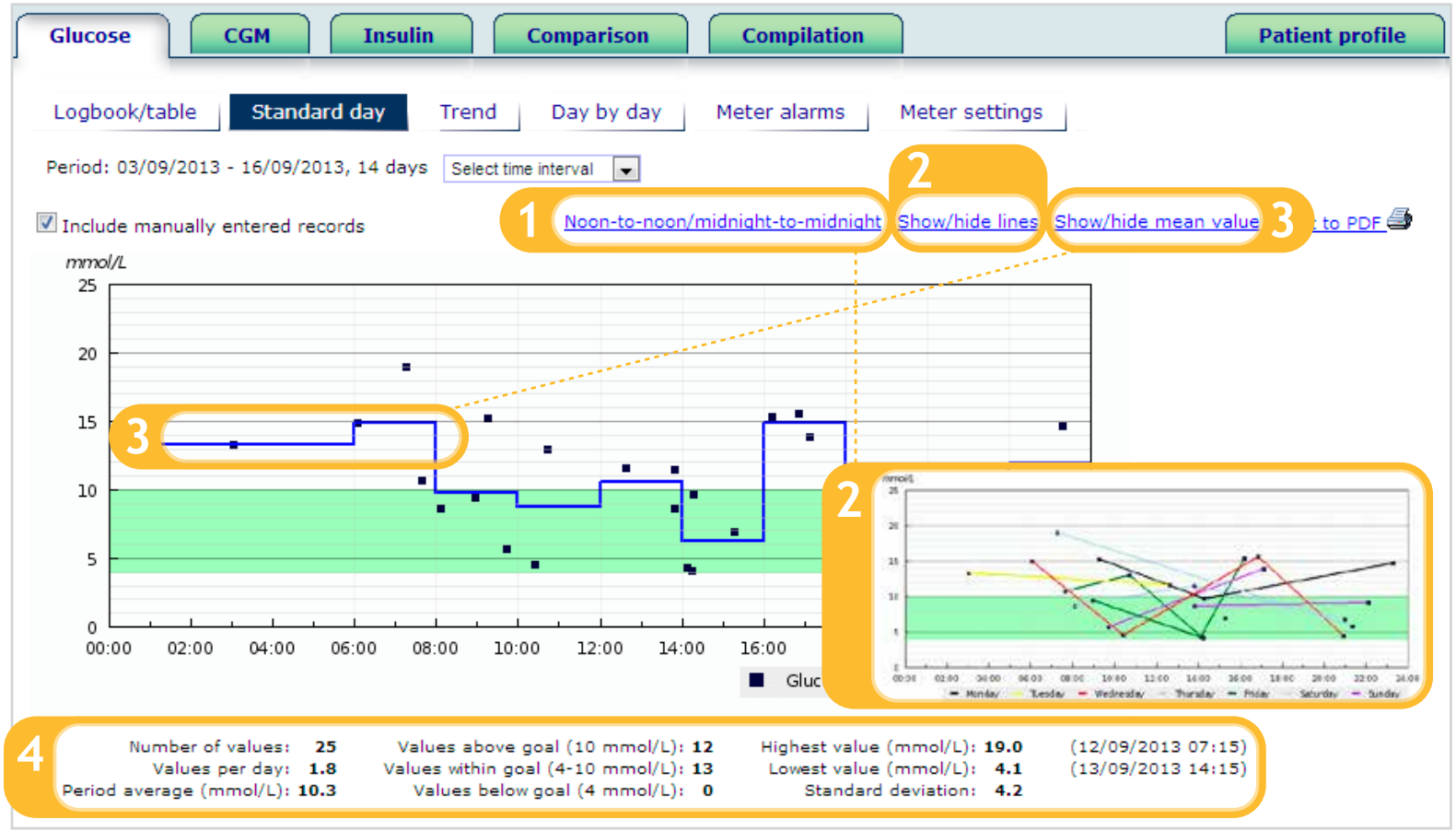
Bolus Adherence Report
Will help the HCP to easily see what the pump has calculated for the patient's bolus against what the patient actually delivered.

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

The Comparison Logbook/table Report
This 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
The HCP can easily change the default blood glucose target range for the clinic and also individual patients as well as setting up customized PDF reports.

Glucose Standard day



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

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.

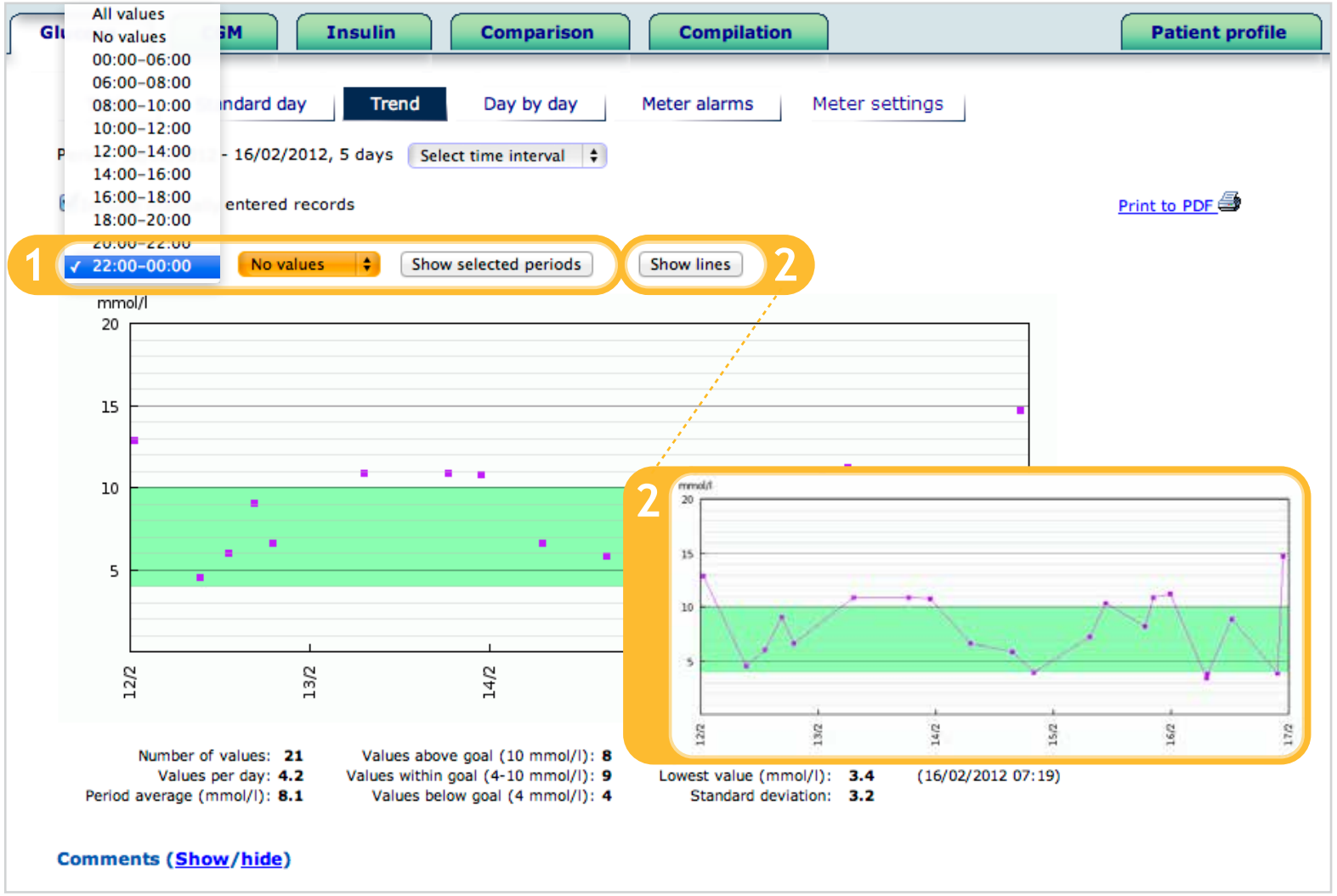
4. Statistics can be found at the bottom of each report.

Glucose Trend

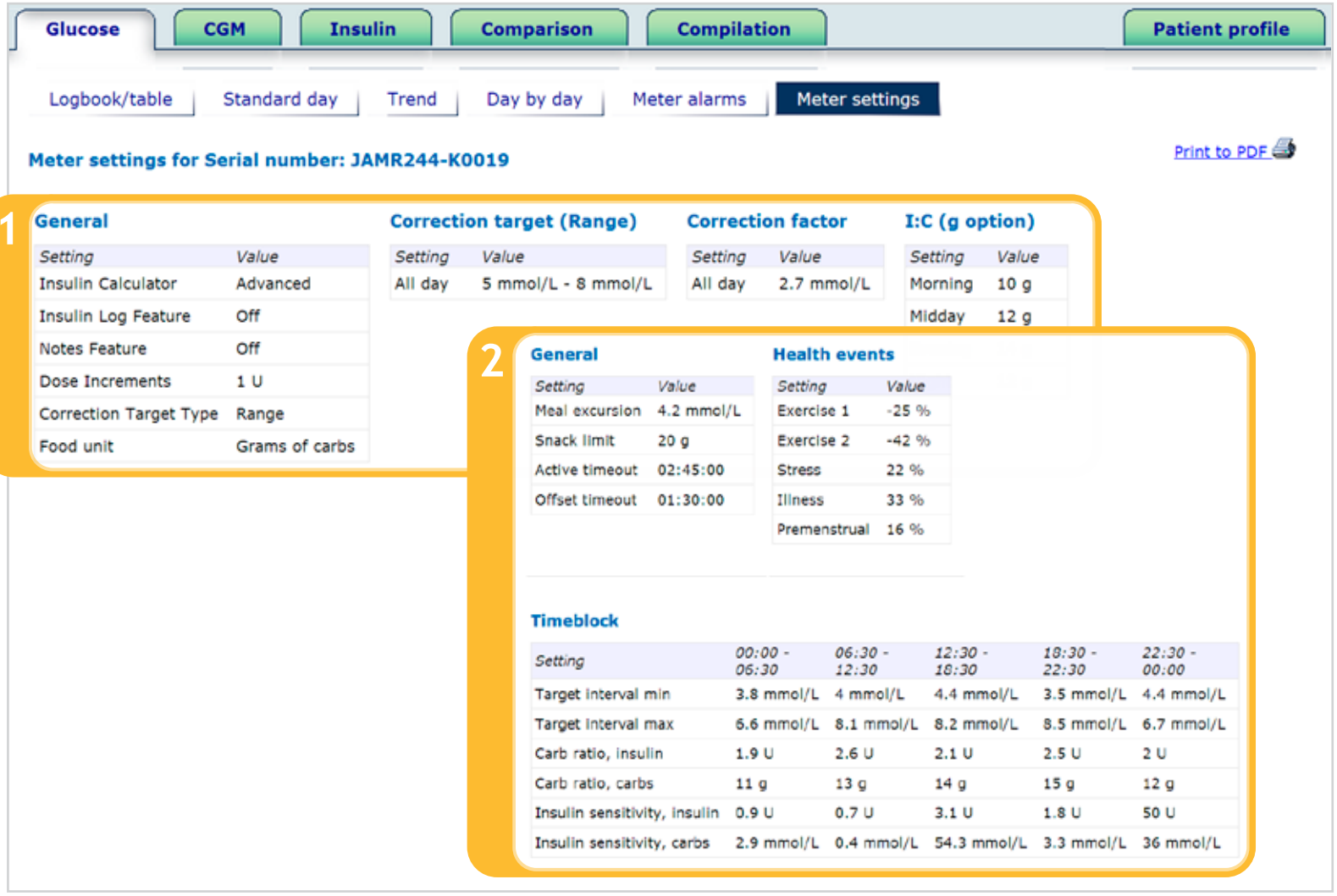
This displays a trend overview of glucose readings by date.

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



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

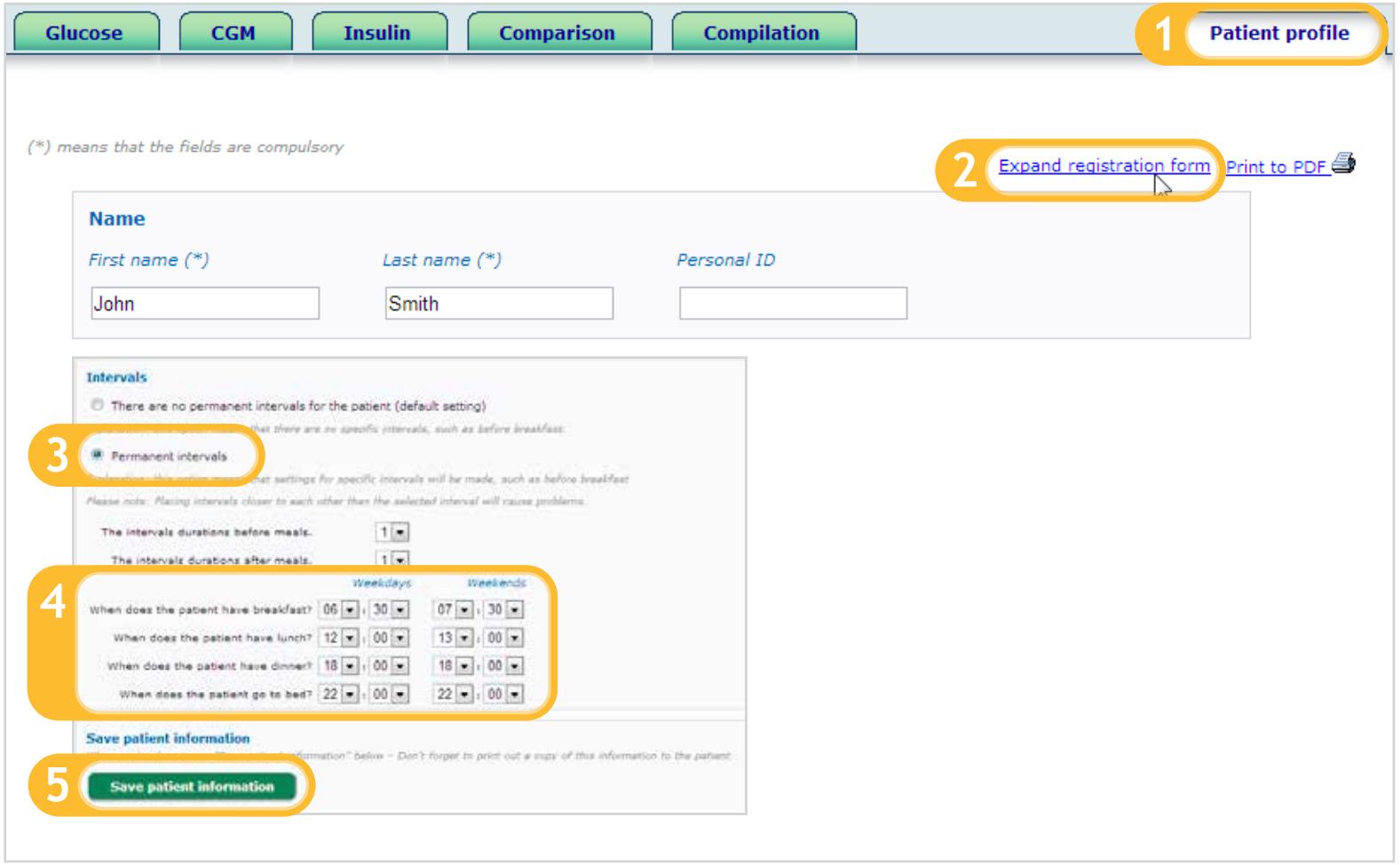
Meter settings data is displayed in different formats depending on the device that is uploaded.

1. Example of the meter settings from the Freestyle InsuLinx.
2. Example of the meter settings from the Aviva Combo.

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 shows the CGM curve in a box plot diagram over a 24 hour standard day allowing to view the range of CGM readings by the time of day as well as the active basal profile. Box plot shows the distribution of values per hour of the day, spanning over multiple days.

1. The whiskers represent the highest (25%) and lowest (25%) values available in that hour. The ends of the ”whiskers” represent the minimum and maximum value.

2. The white box represents the middle 50% of the values available in that hour.

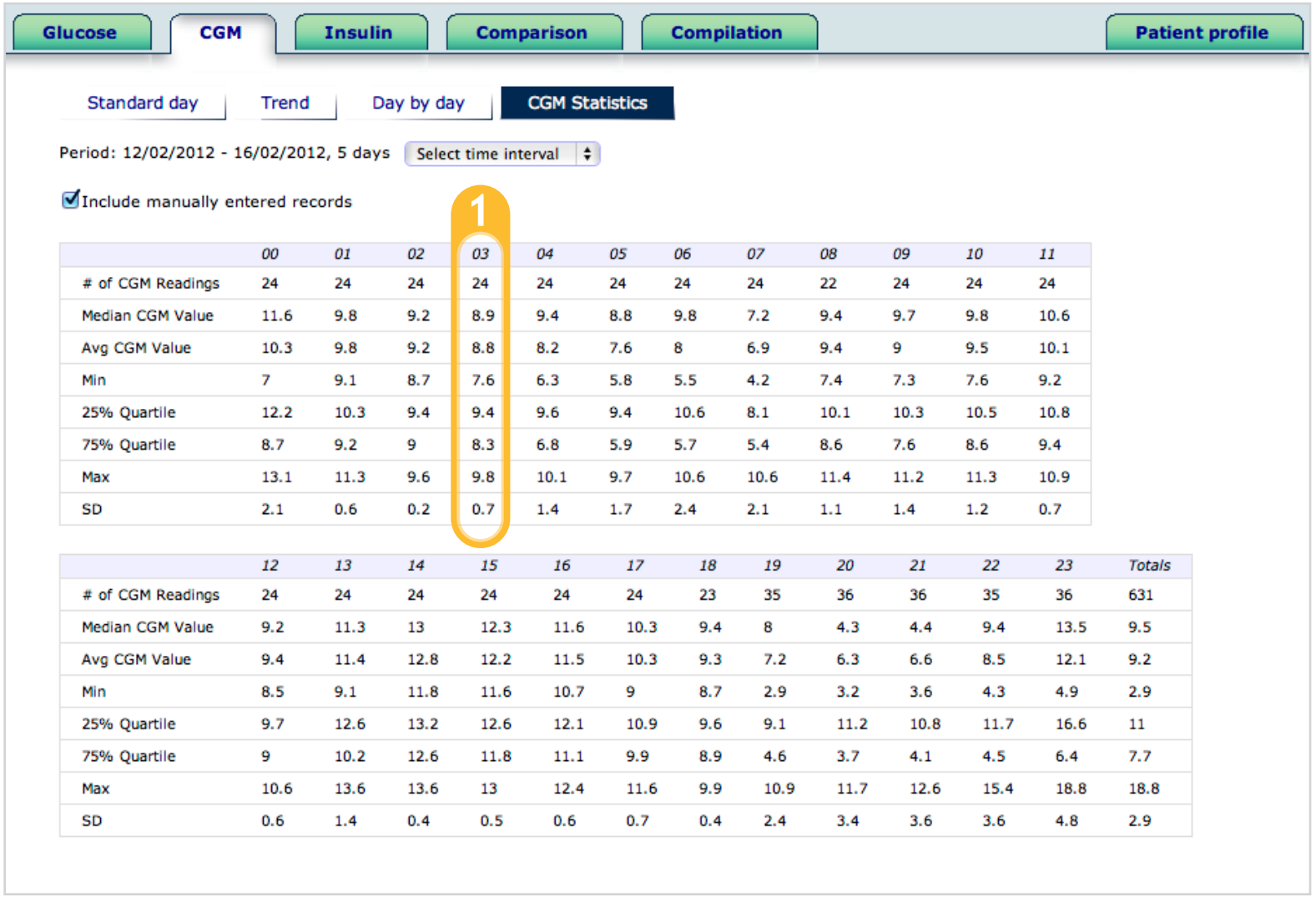
3. The median is the value in the middle of the value series. The average of the series is also shown.

4. You can click on this link to see the Modal view.

CGM Statistics

This table includes detailed CGM statistics over the time period selected by hour of the day.

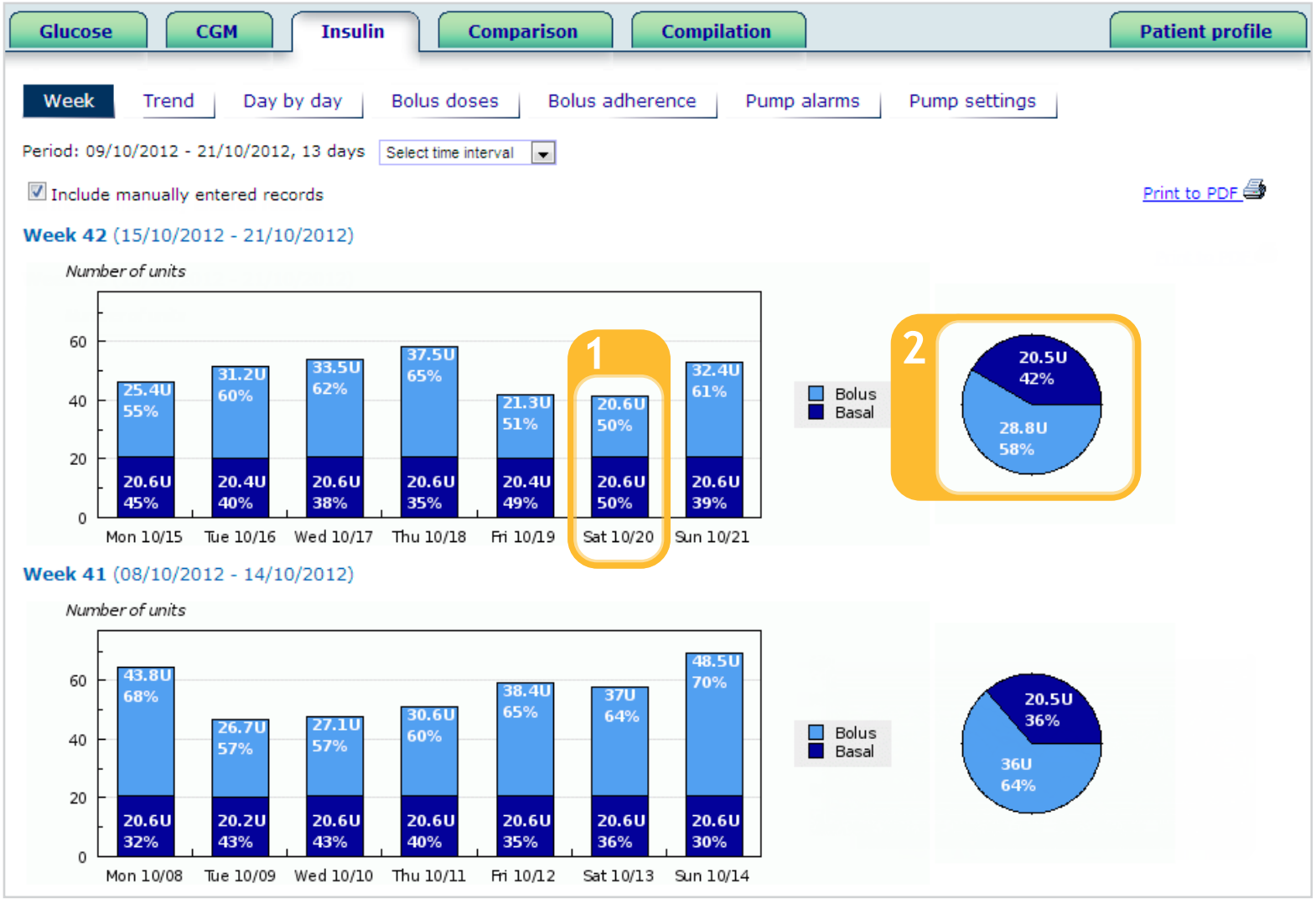
1. Statistics from a particular hour of the day is highlighted.



	00	01	02	03	04	05	06	07	08	09	10	11
# of CGM Readings	24	24	24	24	24	24	24	24	22	24	24	24
Median CGM Value	11.6	9.8	9.2	8.9	9.4	8.8	9.8	7.2	9.4	9.7	9.8	10.6
Avg CGM Value	10.3	9.8	9.2	8.8	8.2	7.6	8	6.9	9.4	9	9.5	10.1
Min	7	9.1	8.7	7.6	6.3	5.8	5.5	4.2	7.4	7.3	7.6	9.2
25% Quartile	12.2	10.3	9.4	9.4	9.6	9.4	10.6	8.1	10.1	10.3	10.5	10.8
75% Quartile	8.7	9.2	9	8.3	6.8	5.9	5.7	5.4	8.6	7.6	8.6	9.4
Max	13.1	11.3	9.6	9.8	10.1	9.7	10.6	10.6	11.4	11.2	11.3	10.9
SD	2.1	0.6	0.2	0.7	1.4	1.7	2.4	2.1	1.1	1.4	1.2	0.7

	12	13	14	15	16	17	18	19	20	21	22	23	Totals
# of CGM Readings	24	24	24	24	24	24	23	35	36	36	35	36	631
Median CGM Value	9.2	11.3	13	12.3	11.6	10.3	9.4	8	4.3	4.4	9.4	13.5	9.5
Avg CGM Value	9.4	11.4	12.8	12.2	11.5	10.3	9.3	7.2	6.3	6.6	8.5	12.1	9.2
Min	8.5	9.1	11.8	11.6	10.7	9	8.7	2.9	3.2	3.6	4.3	4.9	2.9
25% Quartile	9.7	12.6	13.2	12.6	12.1	10.9	9.6	9.1	11.2	10.8	11.7	16.6	11
75% Quartile	9	10.2	12.6	11.8	11.1	9.9	8.9	4.6	3.7	4.1	4.5	6.4	7.7
Max	10.6	13.6	13.6	13	12.4	11.6	9.9	10.9	11.7	12.6	15.4	18.8	18.8
SD	0.6	1.4	0.4	0.5	0.6	0.7	0.4	2.4	3.4	3.6	3.6	4.8	2.9

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.

“Since installing diasend in our department, use of data in the consultation process has changed from an occasional labour intensive process into a routine simple part of nearly all our consultations.”

— Dr. Iain Cranston

Consultant Physician

diasend®.com

Easy Diabetes Communication

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.

For example you can see gaps of missed boluses.

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

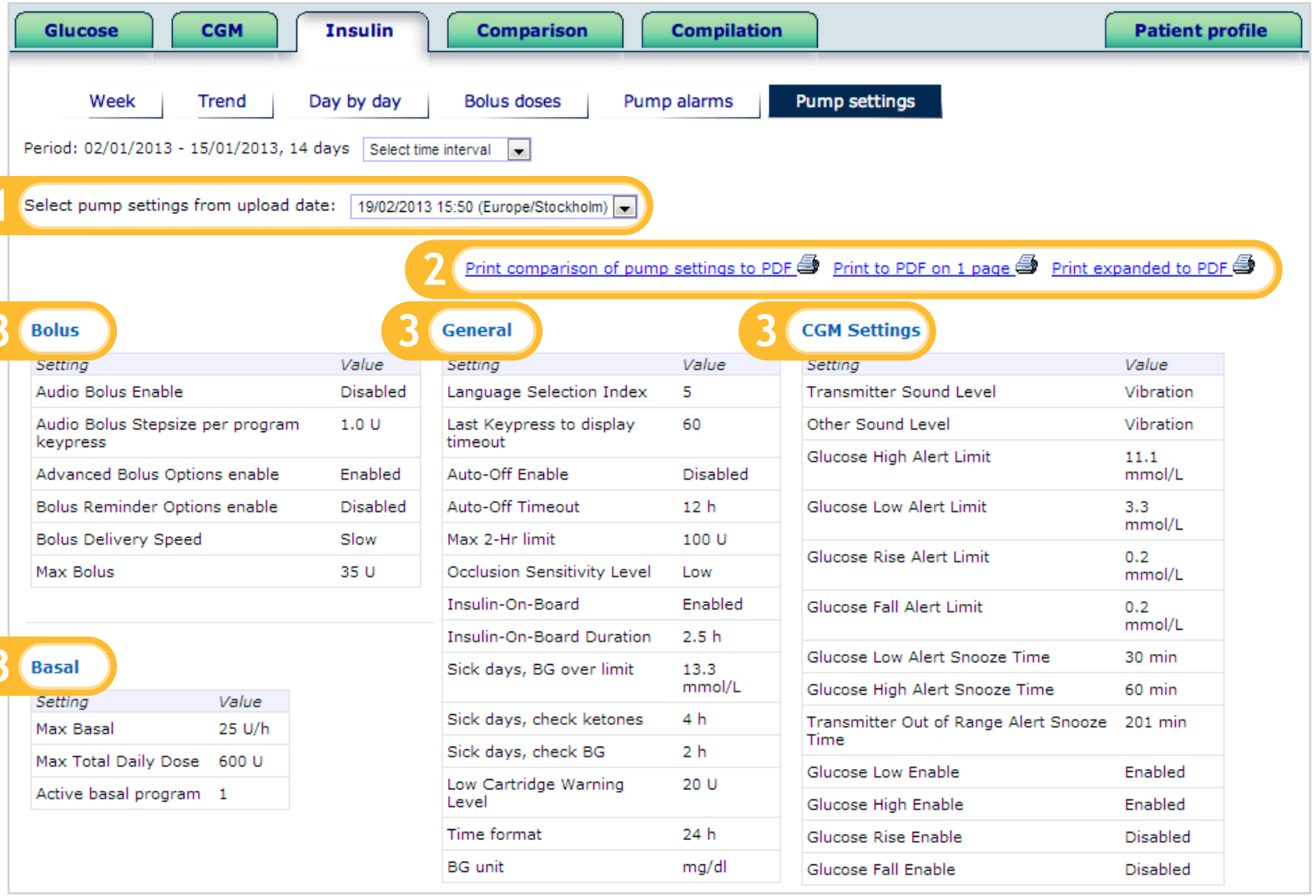
Insulin Pump settings

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

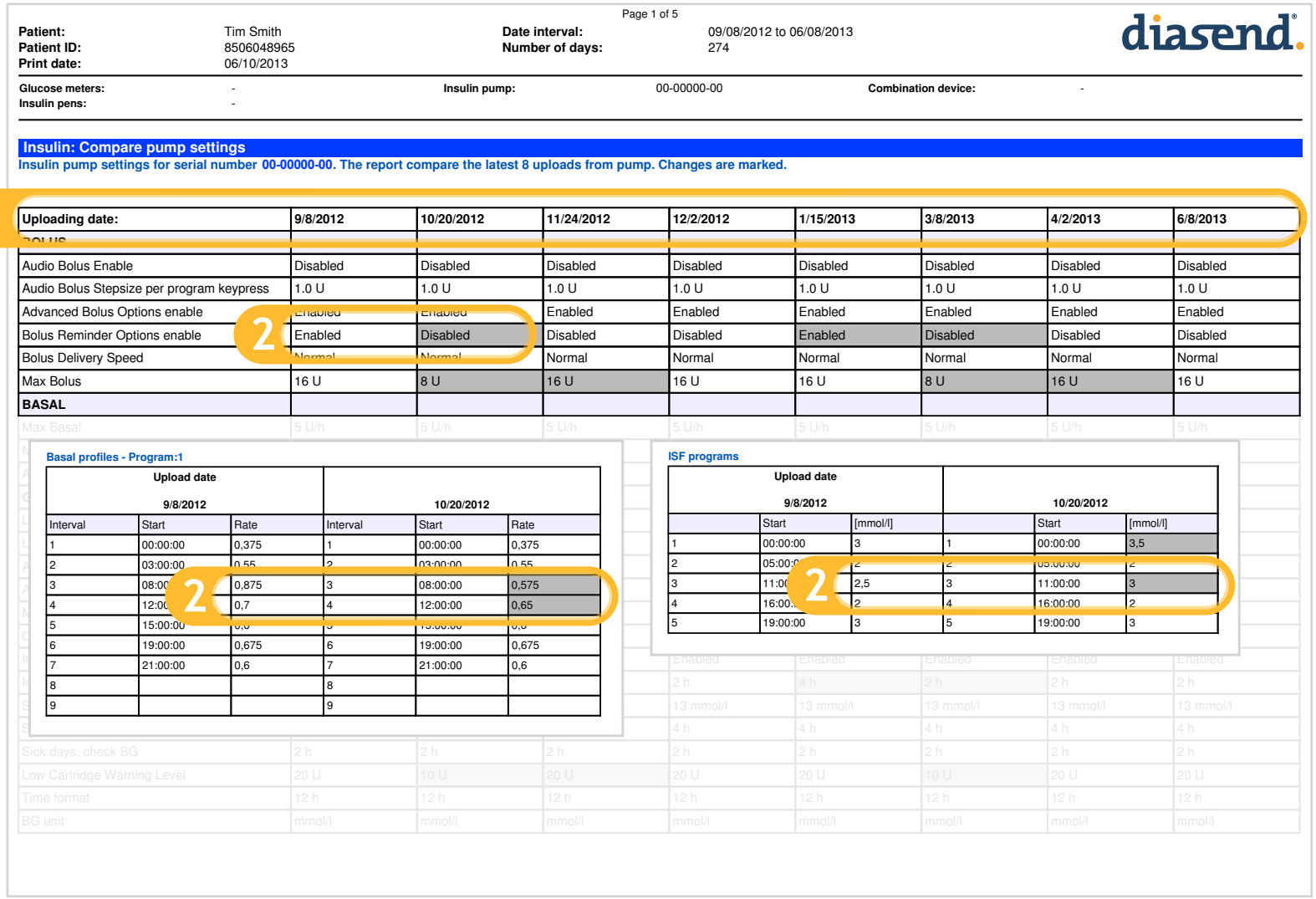
1. You have the option of selecting and viewing the pump settings from every upload.

2. You can choose to print a comparison of the latest available pump settings (see page 17), or select to print the currently selected pump settings in an expanded version, or in a minimized version where all pump settings are compressed onto 1 page (see page 22 for an example). All reports are generated as PDF files.

3. You can 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



Page 1 of 5

Patient: Tim Smith
Patient ID: 8506048965
Print date: 06/10/2013
Date interval: 09/08/2012 to 06/08/2013
Number of days: 274

diasend®

Glucose meters: -
Insulin pens: -
Insulin pump: 00-00000-00
Combination device: -

Insulin: Compare pump settings

Insulin pump settings for serial number 00-00000-00. The report compare the latest 8 uploads from pump. Changes are marked.

Uploading date:	9/8/2012	10/20/2012	11/24/2012	12/2/2012	1/15/2013	3/8/2013	4/2/2013	6/8/2013
BOLUS								
Audio Bolus Enable	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
Audio Bolus Stepsize per program keypress	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Advanced Bolus Options enable	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
Bolus Reminder Options enable	Enabled	Disabled	Disabled	Disabled	Enabled	Disabled	Disabled	Disabled
Bolus Delivery Speed	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal
Max Bolus	16 U	8 U	16 U	16 U	16 U	8 U	16 U	16 U
BASAL								
Max Basal	5 U/h	5 U/h	5 U/h	5 U/h	5 U/h	5 U/h	5 U/h	5 U/h

Basal profiles - Program:1

Upload date 9/8/2012			10/20/2012		
Interval	Start	Rate	Interval	Start	Rate
1	00:00:00	0,375	1	00:00:00	0,375
2	03:00:00	0,55	2	03:00:00	0,55
3	08:00	0,875	3	08:00:00	0,575
4	12:00	0,7	4	12:00:00	0,65
5	15:00:00	0,6	5	15:00:00	0,6
6	19:00:00	0,675	6	19:00:00	0,675
7	21:00:00	0,6	7	21:00:00	0,6
8			8		
9			9		

ISF programs

Upload date 9/8/2012			10/20/2012		
	Start	[mmol/l]		Start	[mmol/l]
1	00:00:00	3	1	00:00:00	3,5
2	05:00:00	2	2	05:00:00	2
3	11:00	2,5	3	11:00:00	3
4	16:00	2	4	16:00:00	2
5	19:00:00	3	5	19:00:00	3

Sick days, check BG	2 h	2 h	2 h	2 h	2 h	2 h	2 h	2 h
Low Cartridge Warning Level	20 U	10 U	20 U	20 U	20 U	10 U	20 U	20 U
Time format	12 h	12 h	12 h	12 h	12 h	12 h	12 h	12 h
BG unit	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l	mmol/l

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

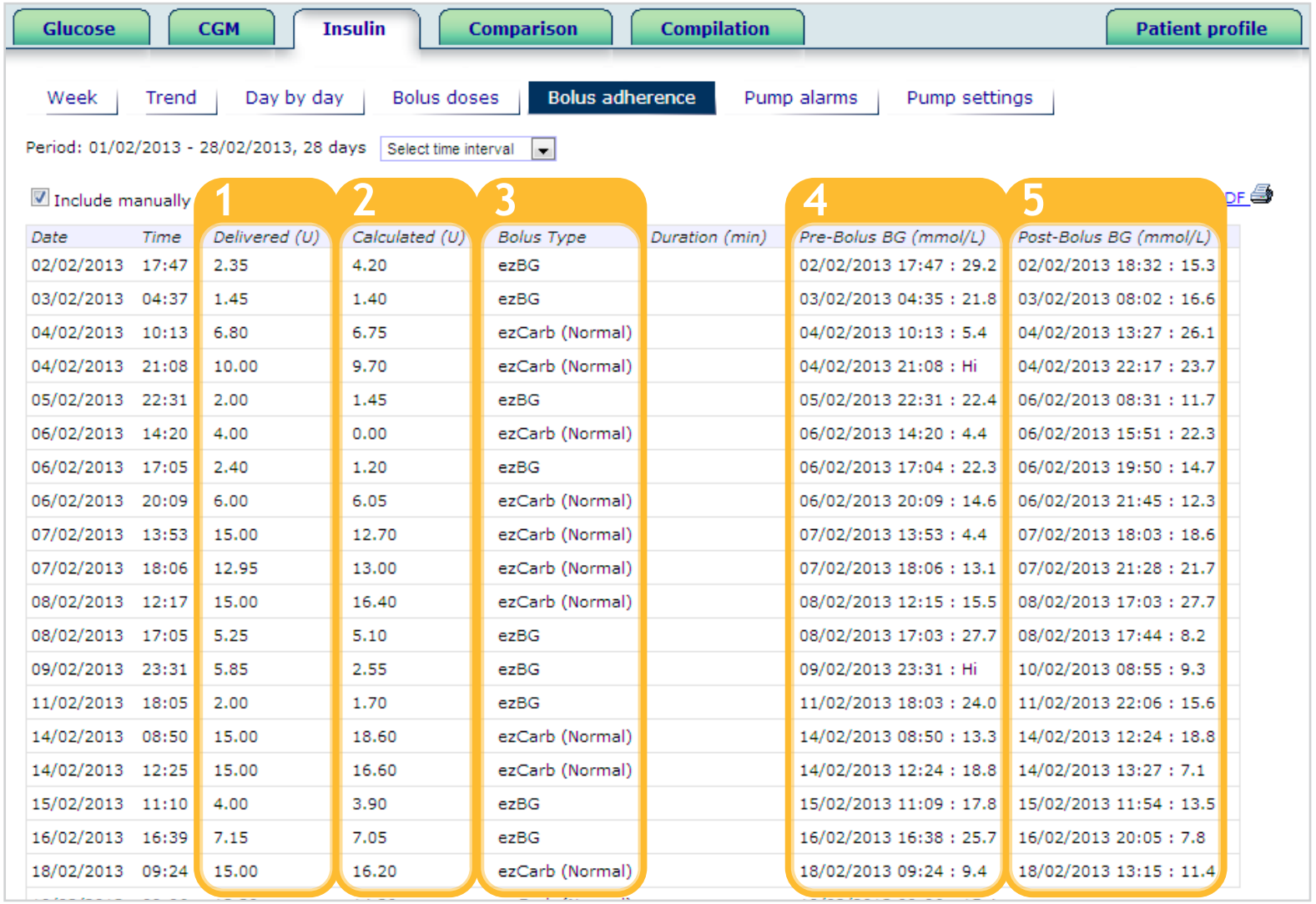
1. The date of the upload is indicated in the top row.

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

Insulin Bolus adherence

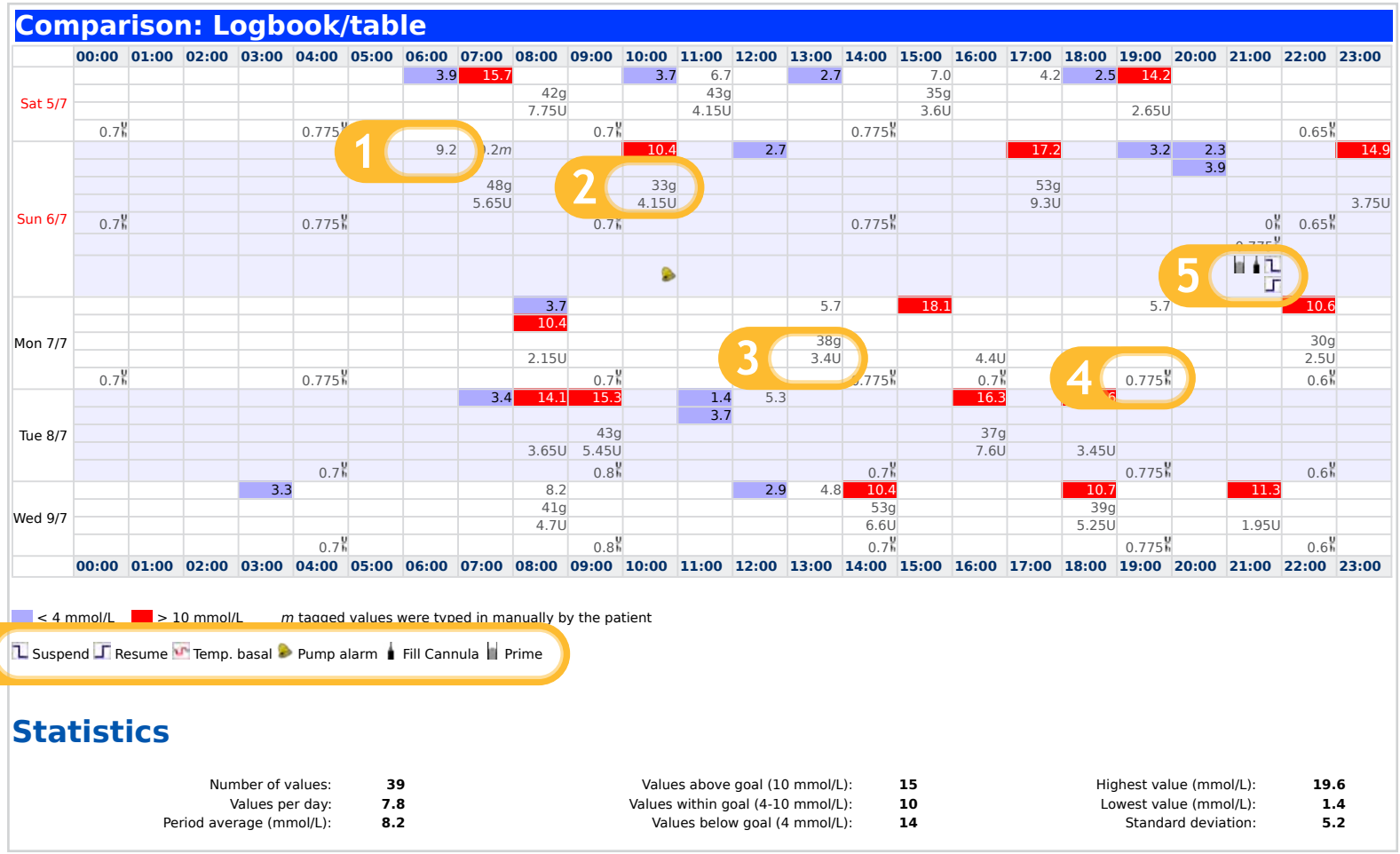
Log of when bolus overrides have occurred. This displays:

1. Insulin actually delivered.
2. Calculated units of insulin.
3. Bolus Type.
4. You can view the pre-bolus BG reading.
5. You can view the post-bolus BG following a bolus override.



Date	Time	Delivered (U)	Calculated (U)	Bolus Type	Duration (min)	Pre-Bolus BG (mmol/L)	Post-Bolus BG (mmol/L)
02/02/2013	17:47	2.35	4.20	ezBG		02/02/2013 17:47 : 29.2	02/02/2013 18:32 : 15.3
03/02/2013	04:37	1.45	1.40	ezBG		03/02/2013 04:35 : 21.8	03/02/2013 08:02 : 16.6
04/02/2013	10:13	6.80	6.75	ezCarb (Normal)		04/02/2013 10:13 : 5.4	04/02/2013 13:27 : 26.1
04/02/2013	21:08	10.00	9.70	ezCarb (Normal)		04/02/2013 21:08 : Hi	04/02/2013 22:17 : 23.7
05/02/2013	22:31	2.00	1.45	ezBG		05/02/2013 22:31 : 22.4	06/02/2013 08:31 : 11.7
06/02/2013	14:20	4.00	0.00	ezCarb (Normal)		06/02/2013 14:20 : 4.4	06/02/2013 15:51 : 22.3
06/02/2013	17:05	2.40	1.20	ezBG		06/02/2013 17:04 : 22.3	06/02/2013 19:50 : 14.7
06/02/2013	20:09	6.00	6.05	ezCarb (Normal)		06/02/2013 20:09 : 14.6	06/02/2013 21:45 : 12.3
07/02/2013	13:53	15.00	12.70	ezCarb (Normal)		07/02/2013 13:53 : 4.4	07/02/2013 18:03 : 18.6
07/02/2013	18:06	12.95	13.00	ezCarb (Normal)		07/02/2013 18:06 : 13.1	07/02/2013 21:28 : 21.7
08/02/2013	12:17	15.00	16.40	ezCarb (Normal)		08/02/2013 12:15 : 15.5	08/02/2013 17:03 : 27.7
08/02/2013	17:05	5.25	5.10	ezBG		08/02/2013 17:03 : 27.7	08/02/2013 17:44 : 8.2
09/02/2013	23:31	5.85	2.55	ezBG		09/02/2013 23:31 : Hi	10/02/2013 08:55 : 9.3
11/02/2013	18:05	2.00	1.70	ezBG		11/02/2013 18:03 : 24.0	11/02/2013 22:06 : 15.6
14/02/2013	08:50	15.00	18.60	ezCarb (Normal)		14/02/2013 08:50 : 13.3	14/02/2013 12:24 : 18.8
14/02/2013	12:25	15.00	16.60	ezCarb (Normal)		14/02/2013 12:24 : 18.8	14/02/2013 13:27 : 7.1
15/02/2013	11:10	4.00	3.90	ezBG		15/02/2013 11:09 : 17.8	15/02/2013 11:54 : 13.5
16/02/2013	16:39	7.15	7.05	ezBG		16/02/2013 16:38 : 25.7	16/02/2013 20:05 : 7.8
18/02/2013	09:24	15.00	16.20	ezCarb (Normal)		18/02/2013 09:24 : 9.4	18/02/2013 13:15 : 11.4

Comparison Logbook/table



Statistics

Number of values:	**39**	Values above goal (10 mmol/L):	**15**	Highest value (mmol/L):	**19.6**
Values per day:	**7.8**	Values within goal (4-10 mmol/L):	**10**	Lowest value (mmol/L):	**1.4**
Period average (mmol/L):	**8.2**	Values below goal (4 mmol/L):	**14**	Standard deviation:	**5.2**

Consolidated data from insulin pump and glucose meters in a logbook view.

1. The free standing numbers are glucose readings.
2. ”g” stands for grams of carbohydrates.
3. ”U” stands for units of insulin.
4. You can see what the basal rate was changed to and the arrow indicates whether this was an increase or decrease.
5. You can view pump events.

Comparison Day by day

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

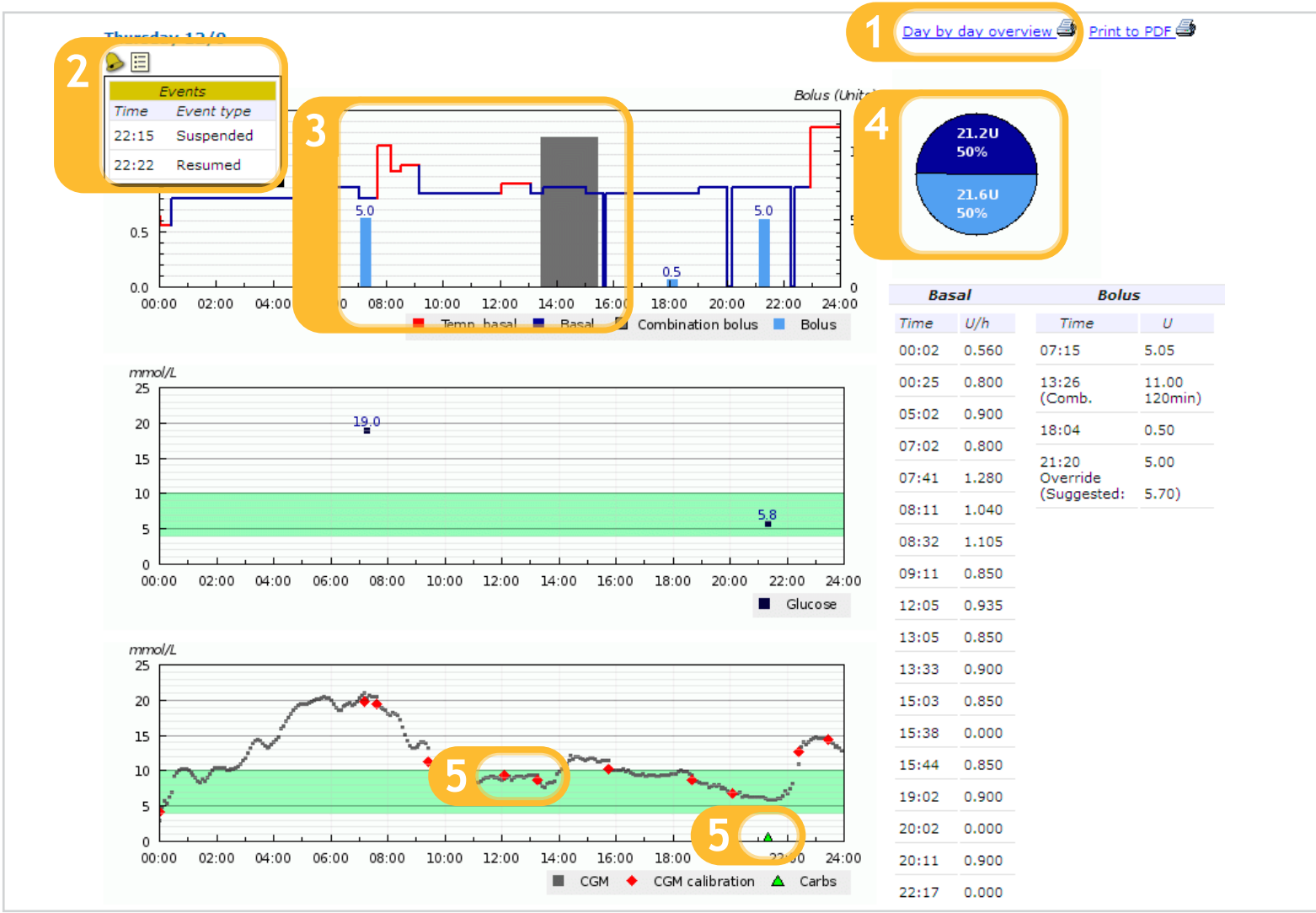
1. Click on this link to see a 2 week overview on one page (see page 22 for a sample)

2. Details of events and alarms can be seen if you hover over the icons above the graph.

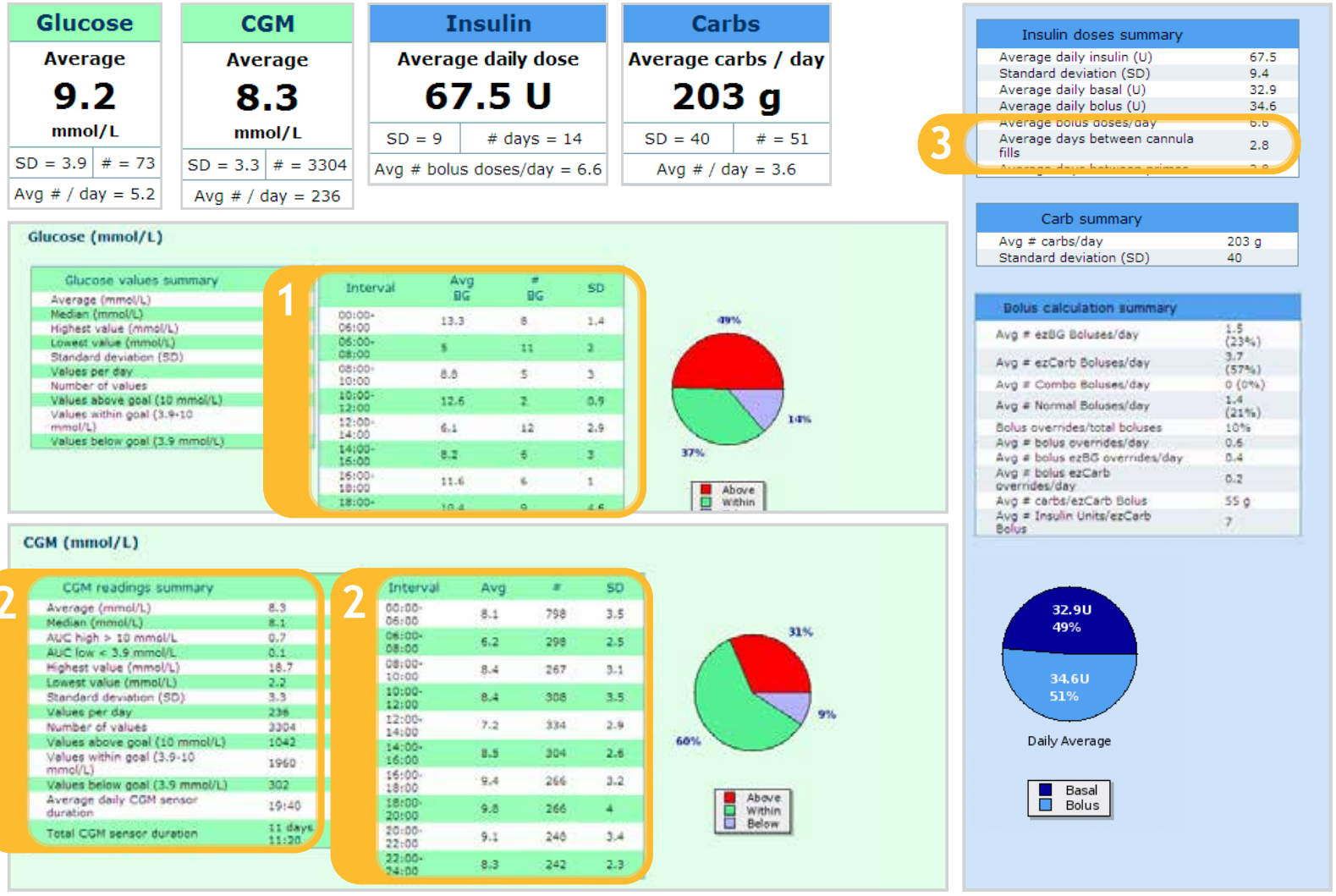
3. The bolus and basal graph will display insulin data which includes basal rate, temporary basal rate, boluses doses, combination boluses, and doses of basal (long-acting) insulin.

4. You can view the daily total basal and bolus insulin distribution which is displayed in a separate pie chart.

5. You can view the carbs in this view as well as the CGM curve and calibrations if CGM has been uploaded.



Compilation report



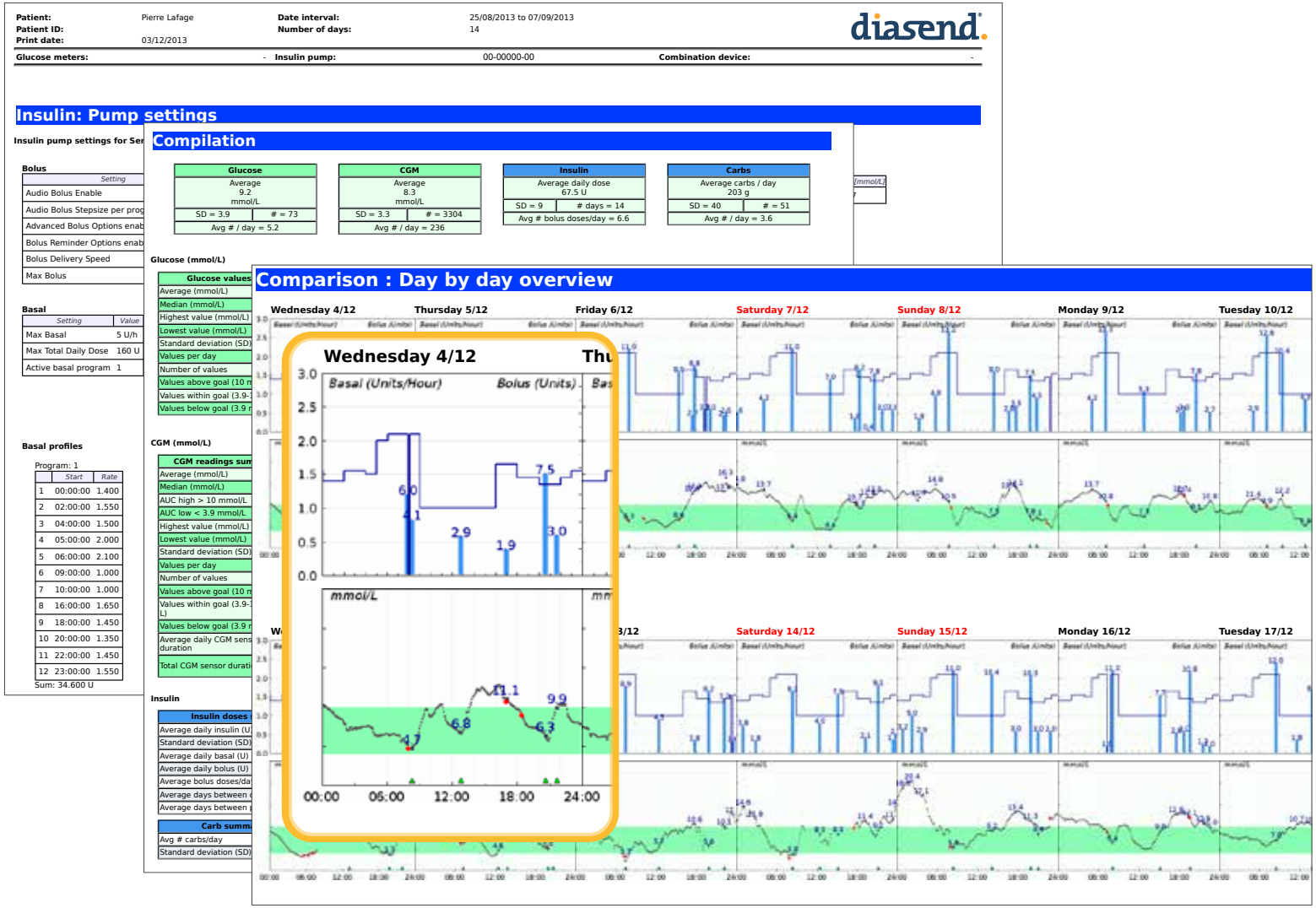
A summary of aggregated data from glucose meters, insulin pumps and CGMs.

1. View average BG and SD by time of day.
2. View detailed CGM data such as average by time of day and AUC.
3. View detailed insulin pump and carb information such as average days between cannula fills.

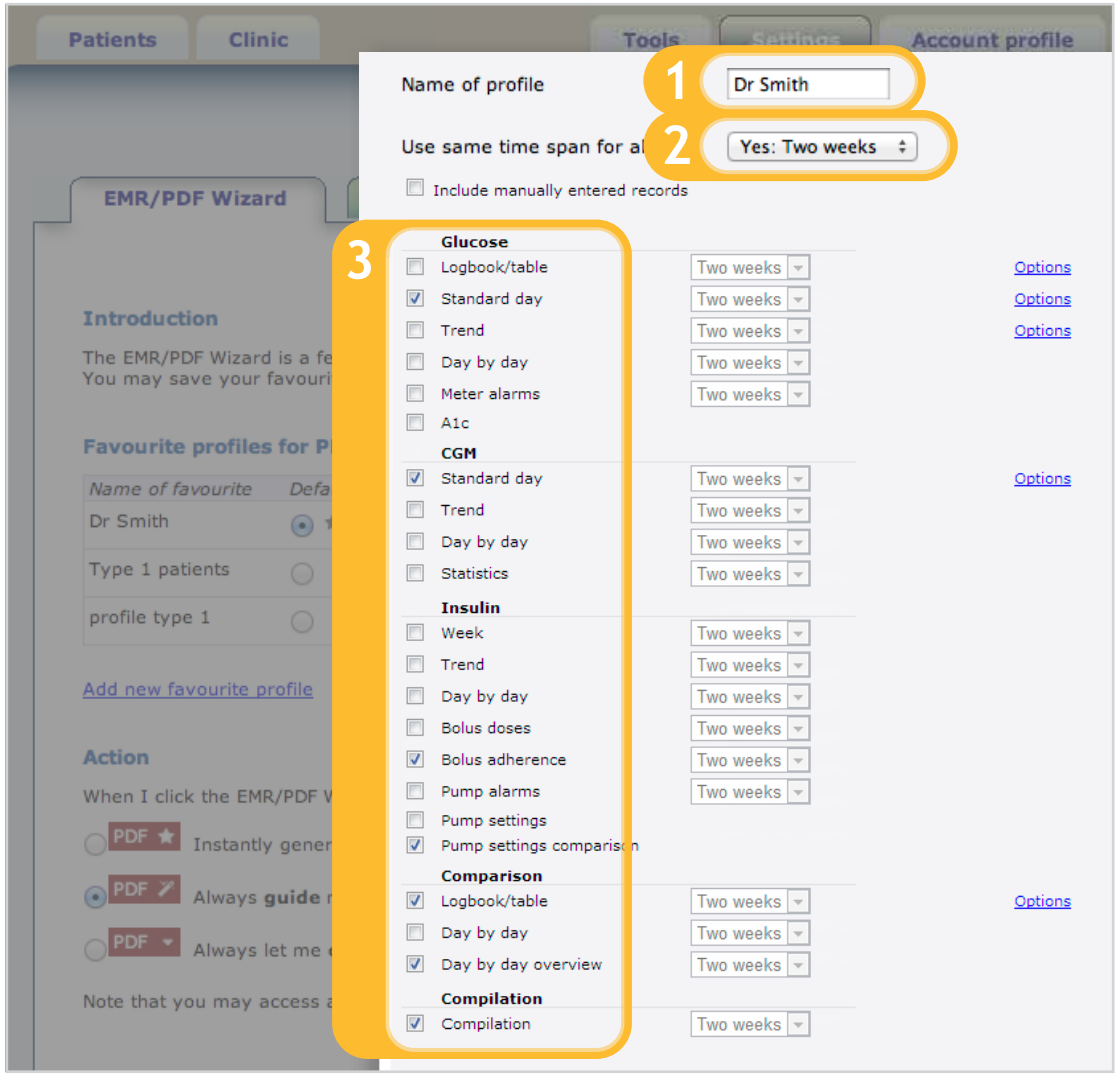
PDF reports

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 personalization/customization of PDF reports.

Note: All PDF reports display the devices' serial numbers.



PDF Wizard



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

1. Fill in name.
2. Set time period.
3. The PDF Wizard allows HCPs in the same clinic to set up their own favorite reports.
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.

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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. The device is indicated for professional use and over-the-counter sales.

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