DPV: documentation CGM/FGM

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Chapter 1

Documentation in follow-up input mask

You can find all relevant data for the documentation of CGM-/FGM-data on the tab “metabolic control-self monitoring” in the follow-up input mask.

You can document the amount of days that the patient has used a CGM-/FGM-device in the field “cont. gluc. measurement”. These are the days since the last documentation, maximum for one year.

![Figure 1.1: Input field for amount of days with CGM/FGM](image1)

You can copy the amount of days since the last follow-up with the button “cont.” if the patient has used a CGM-/FGM-device without interruptions.

![Figure 1.2: Copy amount of days since last follow-up](image2)

Please document additional blood glucose measurements in the field “blood glucose / week”.

![Figure 1.3: Number of capillary BG measurements](image3)

You can document information about the used CGM-/FGM-device in the region “CGMS”.

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Figure 1.4: Input fields for device and indication.

If it is not possible for you to import sensor raw data into DPV, you can enter a few values manually in the region “profiles”. The data relates to the last two weeks.

Figure 1.5: Manual documentation of CGM-/FGM-values
Chapter 2
Import of CGM-/FGM-data

You can import adequate files via the button “import CGM-/FGM-data”.

Figure 2.1: Button for the import of CGM-/FGM-data.

After the sensor data has been imported successfully the imported data will be shown in prepared form directly.

Figure 2.2: Selection of a file with CGM-/FGM-data
Additionally the sensor data will be displayed in various graphics.

The following graphics will be displayed:

- **single values**: every measured value will be displayed as a point
- **trend line**: line: median, dark brown surface: 20th - 80th percentile, light brown surface: 5th - 95th percentile, time range: latest 20 days
- **individual days**: layered intraday values of the latest 30 days

Graphics will be displayed enlarged while hovering over the graphic with the mouse.
Only the most current sensor values related to the current visit date are displayed in the input mask (90 days before examination date). A prompt appears if the imported sensor data does not match the current visit date. The sensor data can then be assigned to another existing visit. Or a new visit can be created directly.

Importing a lot of CGM-/FGM-data can lead to large anonymised export files for the benchmarking. A note is shown while creating the anonymised export if the transfer of the anonymised data will not be possible by e-mail. Please then use our http-upload (https://sweet.zibmt.uni-ulm.de/uploadSweet/).
Figure 2.7: Note that anonymised export is too large for transfer by e-mail
Chapter 3

Export of CGM-/FGM-data from the respective software

DPV has no direct access to the CGM-/FGM-devices. Therefore, You have to import the CGM-/FGM-data into the respective software of the CGM-/FGM-manufacturer before you can import the data into DPV.

Please ensure that the sensor is using the correct date and the correct time before you export the data. Otherwise meaningful analysis of day/night or work day/weekend are not possible.

Processing of sensor data saved as a PDF report is not possible.

Please contact us if one of the following descriptions should not work for you.

3.1 Abbott – FreeStyle Libre

Measured data can be exported from the FreeStyle Libre software into a temporary file via the menu item “File > Export Data”.

![Figure 3.1: Export of the data from FreeStyle Libre software](image-url)
3.2  Abbott – FreeStyle CoPilot

You can export the measured data via the menu item “File > Export”.

![Figure 3.2: Export of the data from FreeStyle CoPilot software](image)

3.3  Abbott - LibreView

At the bottom of the page with the measurements you can find the link “Export Patient’s Glucose Data”. You can export the sensor data using this link.

![Figure 3.3: Link for exporting the sensor data](image)

After clicking on the link you will be asked if you really want to export the data. Please confirm the request.

![Figure 3.4: Request whether data should be exported](image)
If your browser asks you how the file should be processed, please click on “Save”.

**Figure 3.5: Request when saving data**

### 3.4 Medtronic – CareLink Pro

You can export the measured data via the button “Export selected data”.

**Figure 3.6: Export of the data from CareLink Pro**

### 3.5 Medtronic – CareLink Personal

You can export the measured data via “Reports > Data export (CSV)”.
3.6 Dexcom Studio

The Dexcom Studio software can be downloaded via http://www.nintamed.eu/- Tab “Service” -> “Dowloads” ->“Dexcom G4 Platinum System” -> “Software”. You can export the desired patient via the tab item “Patient data” > “Export data”. You can choose between the formats “TXT” and “XML”. DPV can handle both formats.
Figure 3.8: Export of the data from Dexcom Studio

3.7 Dexcom Clarity

You can export the data via “Patient list” > “Export”.

Figure 3.9: Export of the data from Dexcom Clarity

3.8 Diasend

You can create Excel files for individual patients via “Composition” yourself. Please first select the time interval for which you want to export data. Please then scroll to the bottom of the site. To generate the Excel file please click the button “Export to Microsoft Excel”.

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Information update: Dexcom G5™ compatibility with Diasend

We understand that some of the previous information regarding the compatibility between Dexcom G5™ and Diasend has caused some confusion. Therefore, here comes a short clarification, the roll-out plan and an FAQ segment. As mentioned earlier, compatibility will be available in pre-determined markets and the method of data transfer varies.

Data transfer and availability

The new Dexcom G5™ Mobile CGM System has two options. It can be used together with the Dexcom G5™ Mobile Receiver as a “standard CGM unit”. Or it can be used together with an iPhone and the Dexcom app to make the iPhone act as a receiver. This solution is called the Dexcom G5™ Mobile CGM System and the data is wirelessly transferred to the Dexcom cloud.

<table>
<thead>
<tr>
<th>How to upload data from Dexcom G5™ into diasend®</th>
<th>US</th>
<th>Rest of the world</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cloud to cloud</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dexcom G5™ Mobile CGM System - The data is wirelessly transferred via an iPhone and stored in Dexcom’s cloud. This data is then seamlessly integrated into the diasend® cloud by adding the Dexcom G5™ in the connected apps section in your diasend® Personal account.</td>
<td>Available in Q2 2016*</td>
<td>✓</td>
</tr>
<tr>
<td><strong>diasend® Transmitter</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Data from the Dexcom G5™ Mobile Receiver can be uploaded into diasend® by using a micro USB cable and a diasend® Transmitter at a clinic.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>diasend® Uploader</strong></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Data from the Dexcom G5™ Mobile Receiver can be uploaded into diasend® by using a micro USB cable and the diasend® Uploader software.</td>
<td>Within the next month</td>
<td>Within the next month</td>
</tr>
</tbody>
</table>

* For more information on cloud to cloud availability in the US, please contact Dexcom’s customer service.
How to upload Dexcom G5™ Mobile - cloud to cloud
(Currently not available in the US)

Requires an iPhone and Dexcom’s G5™ Mobile app
If you are using an iPhone to act as a receiver, it is possible to transfer data wirelessly from Dexcom’s cloud directly into diasend®.

1. Log into your diasend® Personal account and click on the button Connect app.

2. Click on the Connect link for Dexcom G5™ Mobile*.

3. Sign in with your Dexcom username and password to authorize and add the Dexcom G5™ Mobile to your diasend® Personal account.

* This feature is currently not available in the US. For more information on the cloud to cloud availability in the US, please contact Dexcom’s customer service.
FAQ

1. When can I upload my Dexcom G5™ Mobile Receiver from home (via my diasend® personal account)?
   a. The current time frame is to have an update released within the next month.
   b. In the meantime, if your clinic has a diasend® Clinic account and a diasend® Transmitter, you can upload at the clinic.

2. Will my Dexcom G5™ data sync seamlessly with Diasend?
   a. Yes, as long as this is available in your country/region and you have an iPhone. The data will sync to diasend® with a 3 hour delay, due to regulatory restrictions.

3. I have an Android phone and/or the Dexcom G5™ Mobile System is not yet available in my country. Can I still upload data via diasend®?
   a. Yes. Provided that you have a Dexcom G5™ Mobile Receiver and that your clinic has a diasend® Clinic account and a diasend® Transmitter. If so, you will have the ability to upload at the clinic.

4. Can my health care provider upload my Dexcom G5™ data?
   a. Yes, as long as your health care provider has a diasend® Clinic account and a diasend® Transmitter, then your device can be uploaded at the clinic.

5. Can I view my Dexcom G5™ data from home if my receiver was uploaded at the clinic?
   a. Yes. As long as you have entered your Dexcom G5™ serial number into your account, under patient profile.

6. My Dexcom G5™ data has wirelessly transmitted to my iPhone, but the data does not show up in my diasend® Personal account, why?
   a. There is a 3 hour delay for the data to transfer to diasend due to regulatory restrictions.

7. I have an iPhone. How do I seamlessly connect my Dexcom G5™ data to Diasend?
   a. Login to your diasend® Personal account. Press the Connect App button. Then, under the Dexcom G5™ app, press connect and enter your Dexcom credentials.

Any other questions?
Should you have any other questions, please do not hesitate to contact our customer support.
3.9 Roche - Accu Chek SmartPix software

Using the tab “Interfaces” in the system parameters in DPV you can install a plugin for the Accu Chek Smart Pix software which lets you export the sensor data from the Accu Chek SmartPix software. Please note that the Accu Chek SmartPix software must be running during the installation of the plugin.

![Figure 3.10: Installing the plugin for Accu Chek SmartPix software](image)

Using the menu item “Device settings > DPVExport” in the patients data you can export the sensor data from the Accu Chek SmartPix software.

![Figure 3.11: Export of the data from the Accu Chek SmartPix software](image)