# seca 115

# Instructions for Use for Physicians and Assistants

from software version 1.4 from Build 560



# CONTENTS

	•
1.1 Intended use	З
1.2 Description of function	3
Installation options	3
Transmission of data by seca scales and	0
stadiometers	4
Managing seca patient files	4
Recording weight and height	4
	4
	4 1
Administration of user data	5
Update of the PC software	5
Compatibility with seca measuring devices	5
1.3 User qualification	5
	5
	0
	0
2.1 Salety rules in the instructions for use	ю 6
Using the software	6
Using measured results	7
3. Overview	8
3. Overview	<b>8</b> 8
3. Overview         3.1 seca patient list         3.2 seca patient file	<b>8</b> 8 10
3. Overview         3.1 seca patient list         3.2 seca patient file         3.3 Color symbols and other controls	8 10 11
3. Overview         3.1 seca patient list         3.2 seca patient file         3.3 Color symbols and other controls         3.4 Identification on the packaging.	8 10 11 12
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> </ul>	8 10 11 12 <b>12</b>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> </ul>	8 10 11 12 12 13
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Opening the program.</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Dpening the program.</li> <li>Logging off / switching user</li> <li>Eviting program.</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Opening the program</li> <li>Logging off / switching user</li> <li>Exiting program.</li> <li>5.2 "Extras" menu</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>14</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Opening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>14</li> <li>14</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Opening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>14</li> <li>14</li> <li>15</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Dening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> <li>Viewing measuring device administration</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>14</li> <li>15</li> <li>15</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Opening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> <li>Viewing measuring device administration</li> <li>Creating printouts.</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>21</li> </ul>
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Opening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> <li>Viewing measuring device administration</li> <li>Creating patient texts</li> <li>5.3 Working with the seca patient list</li> </ul>	<b>8</b> 10 11 12 <b>13</b> 13 13 13 13 13 14 14 15 16 21 23
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Dening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> <li>Viewing measuring device administration</li> <li>Creating printouts.</li> <li>Creating patient texts</li> <li>5.3 Working with the seca patient list.</li> <li>Adjusting column width.</li> </ul>	<b>8</b> 10 11 12 <b>13</b> 13 13 13 13 14 15 16 21 23 23
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation</li> <li>5.1 Starting/exiting program.</li> <li>Dening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> <li>Viewing measuring device administration</li> <li>Creating printouts.</li> <li>Creating patient texts</li> <li>5.3 Working with the seca patient list.</li> <li>Adjusting column width.</li> <li>Sorting column content in ascending or</li> </ul>	8 8 10 11 12 13 13 13 13 13 14 14 15 16 21 23 23
<ul> <li>3. Overview</li> <li>3.1 seca patient list</li> <li>3.2 seca patient file</li> <li>3.3 Color symbols and other controls</li> <li>3.4 Identification on the packaging.</li> <li>4. Installation/updates</li> <li>5. Operation.</li> <li>5.1 Starting/exiting program.</li> <li>Dopening the program</li> <li>Logging off / switching user</li> <li>Exiting program</li> <li>5.2 "Extras" menu</li> <li>Changing references.</li> <li>Creating user-specific modules.</li> <li>Viewing measuring device administration</li> <li>Creating printouts</li> <li>Creating patient texts</li> <li>5.3 Working with the seca patient list.</li> <li>Adjusting column width.</li> <li>Sorting column content in ascending or descending order</li> </ul>	<ul> <li>8</li> <li>10</li> <li>11</li> <li>12</li> <li>12</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>21</li> <li>23</li> <li>23</li> <li>23</li> </ul>

Showing and hiding the seca patient list	
from the USB memory stick	24
Searching for a seca patient file	24
Creating a new seca patient file	25
Sending seca patient file to a seca mBCA	
(seca mBCA 515/514 only)	26
Copying seca patient files to USB memory	
stick (seca mBCA 515/514 only)	26
Importing seca patient files from the USB	~~
memory stick (seca mBCA 515/514 only)	28
Exporting seca patient files to .csv format	29
Deleting all apparent files	30
E 4 Working with the appendicent file	3U 04
Opening the appa patient file	ত। ০1
	ତ । ସ୍ଥ୍ୟ
Entering a modical history	30
Entering laboratory data	32 32
Entering vital signs	35
Determining weight and height	37
Determining body composition	01
(seca mBCA 515/514)	39
Determining body composition	
(seca mBCA 525, seca mVSA 535)	40
Assessing the examination results	40
Writing comments	47
5.5 Managing a seca patient file	48
Printing a seca patient file	48
Importing a patient file	48
Medical basis	50
6.1 Evaluation modules	50
Vital signs (seca mVSA 535 only)	50
Cardiometabolic risk	53
Development/growth	55
Energy	56
Function/rehabilitation	57
Fluid	59
Health risk	61
Raw data for impedance	63
6.2 References	65
Technical information	66
7.1 Technical modifications	66
7.2 Display of weight values	67
Warranty	68
Declaration of conformity	68
· · · · · · · · · · · · · · · · · · ·	

6.

7.

8. 9.

# **1. SYSTEM DESCRIPTION**

# 1.1 Intended use

The **seca 115** PC software is for administering weight, height, bioimpedance and vital measurements and for calculating automatically parameters such as FMI (fat mass index) which can be derived from these measurements. Results are displayed in graphical form and provide support with the following medical issues:

- Documentation of weight changes
- Documentation of energy expenditure and energy reserves
- Documentation of cardiometabolic risk
- Documentation of metabolic activity and the success of a training program, e.g. within the framework of rehabilitation or physiotherapy
- Documentation of a patient's fluids status and documentation of changes in fluids
- Documentation of changes in vital signs

# 1.2 Description of function

Installation options	The <b>seca 115</b> PC software can be installed in the form of a client/server solution or a standalone solution.
	The <b>seca 115</b> PC software consists of the application software and a seca patient database, together with communication and evaluation modules.
	For client/server operation, the application software is installed on PC work- stations (clients). The seca patient database and the communication and evaluation modules are installed centrally on a server. All clients access the server and use the seca patient database and communication and evaluation modules there.
	For standalone operation, the application software, the seca patient database and the communication and evaluation modules are installed on the same PC workstation.
seca mBCA/mVSA data transmission	seca medical Body Composition Analyzers (mBCAs)/mVSAs have an Ethernet interface and can communicate with the <b>seca 115</b> PC software in a network.
	The network connection allows a seca mBCA/mVSA to use both the seca patient database and the special print function of the <b>seca 115</b> PC software.

The **seca mBCA 525** and **seca mVSA 535** models can be configured so that the seca patient files and user accounts on the device are automatically synchronized with those of the **seca 115** PC software.

The link between the mBCA/mVSA and the **seca 115** PC software can be made via WiFi or Ethernet.

Device	WiFi	Ethernet	Automatic synchronization
seca mBCA 515/514	-	•	-
seca mBCA 525	•	•	•
seca mVSA 535	•	•	•

Transmission of data by seca scales and stadiometers	seca scales and stadiometers from the <b>seca 360° wireless</b> system can com- municate with one another wirelessly and transmit data to the <b>seca 115</b> PC software. For this to happen, the <b>seca 360° wireless USB adapter 456</b> must be connected to a PC on which at least the <b>seca 115</b> application software is installed.
	seca scales with an RS232 interface can transmit data to the PC software by wired connection.
Managing seca patient files	seca patient files can be created in the <b>seca 115</b> PC software or on a seca mBCA/mVSA. seca patient files are saved in the seca patient database of the <b>seca 115</b> PC software. Alternatively, seca patient files can be saved on a USB memory stick. The USB memory stick has to be "initialized" for this purpose.
	"Initializing" is a <b>seca 115</b> PC software function. This function allows the administrator to create an empty seca patient database on a USB memory stick.
	seca patient files and seca patient databases contain exclusively data neces- sary for working with seca products or determined using seca products. seca patient files can only be managed and edited using the <b>seca 115</b> PC soft- ware.
	The export and import functions of the <b>seca 115</b> PC software can be used for exchanging data with surgery and hospital information systems.
Recording weight and height	On scales and stadiometers from the <b>seca 360° wireless</b> system and on seca scales with an RS232 interface, it is possible to start recording weight and height directly from the <b>seca 115</b> PC software.
	Measured results are sent from the <b>seca 360° wireless</b> devices to the PC software. Alternatively, measured values can be entered manually in the <b>seca 115</b> PC software.
Determining body composition	Measurements with a seca mBCA (determines body composition by means of bioimpedance measurement) cannot be started from the <b>seca 115</b> PC software.
	The results of a bioimpedance measurement are assigned to a seca patient file directly on the seca mBCA. The seca patient file is transmitted to the seca patient database of the <b>seca 115</b> PC software.
	The <b>seca 115</b> PC software can only administer bioimpedance measurements determined using a seca mBCA or a seca mVSA.
Recording vital signs	Vital signs (blood pressure, body temperature, pulse rate and oxygen satura- tion) determined using a seca mVSA can be transmitted to the <b>seca 115</b> PC software by WiFi or Ethernet. Alternatively, vital signs can be entered in the <b>seca 115</b> PC software manually.
Evaluation	Measured results are evaluated in graphical form based on scientifically- established formulas. In-house studies by seca established formulas for determining the parameters total body water (TBW), extracellular water (ECW), fat-free mass (FFM) and skeletal muscle mass (SMM) for arms, legs, torso and the whole body. In these studies, in-house reference values were determined for the following parameters to allow normal ranges to be shown: bioimpedance vector analysis (BIVA), mass indices (FMI, FMMI), phase angle ( $\phi$ ).
	Measured results for the vital signs blood pressure (NIBP), temperature (TEMP), pulse rate (PR) and oxygen saturation (SPO <sub>2</sub> ) are displayed graphically. There is <b>no</b> evaluation of vital signs based on references or normal ranges.

Administration of user data	The following roles can be assigned to users of the <b>seca 115</b> PC software: physician, assistant or administrator. User accounts can only be set up or edited by an administrator. A user name and password are required for access to the <b>seca 115</b> PC software. If a user account is set up for the <b>seca 115</b> PC software, the <b>seca 115</b> PC software also generates a user PIN. The user PIN allows access from a seca mBCA to the seca patient database of the <b>seca 115</b> PC software.
Update of the PC software	When the <b>seca 115</b> PC software is updated, the seca patient database and its contents are retained. The seca patient database is adapted to suit the new version of the <b>seca 115</b> PC software. After the update is complete, it will no longer be possible to access the seca patient database with older versions of the <b>seca 115</b> PC software.

# Compatibility with seca measuring Version 1.4 from Build 5 compatible exclusively v

Version 1.4 from Build 560 upwards of the **seca 115** PC software is compatible exclusively with the following device software versions:

Device	Software version
seca mBCA 515/514	1.1 from Build 550
seca mBCA 525	1.0 from Build 600
seca mVSA 535	1.0 from Build 600

There is no downward compatibility with seca mBCAs/mVSAs on which older versions of the device software are installed.

For a summary of technical modifications, see the section entitled "Technical modifications" on page 66.

The **seca 115** PC software has unlimited compatibility with scales and stadiometers from the **seca 360° wireless** system and with seca scales with an RS232 interface.

# 1.3 User qualification

Installation and administration	The <b>seca 115</b> PC software may only be installed and administered by experi- enced administrators or hospital technicians.
Measuring mode	The <b>seca 115</b> PC software may only be used by persons with sufficient expertise.

# 2. SAFETY INFORMATION

# 2.1 Safety rules in the instructions for use



### DANGER!

Identifies an exceptionally hazardous situation. If you fail to take note of this information, serious irreversible or fatal injury will result.

# WARNING!



Identifies an exceptionally hazardous situation. If you fail to take note of this information, serious irreversible or fatal injury may result.



Identifies a hazardous situation. If you fail to take note of this informa-

tion, minor to moderate injury may result.

#### **ATTENTION!**

Identifies possibility of incorrect operation of the product. If you fail to take note of this information, the device may be damaged or the measured results may be incorrect.

## NOTE:

Includes additional information about use of the product.

# 2.2 Basic safety information

Using the software > Please take note of the instructions in these Instructions for Use.

- Carefully store the installation DVD and the user documentation it contains. The user documentation is a component of the PC software and must be available at all times.
- Only install the seca 115 software on PCs equipped with an antivirus program. Always keep your antivirus program up to date to protect your computer system from current and future malware. The seca 115 software is protected from manipulation and was checked for malware at the time the software was created.
- ► Use the seca 115 PC software only for the specified intended use.
- Use only mBCAs/mVSAs, scales and stadiometers from seca in combination with the seca 115 software.
- Keep other medical electrical devices, e.g. high-frequency surgical devices, a minimum distance of approx. 1 meter away to prevent incorrect measurements or wireless transmission interference.
- Keep high-frequency devices such as cell phones and televisions, for example, a minimum distance of approx. 1 meter away to prevent incorrect measurements or wireless transmission interference.
- The actual transmission output of high-frequency equipment may require minimum distances of more than 1 meter. For details, go to www.seca.com.

# Using measured results

# CAUTION! Patient hazard

In order to avoid misinterpretations, test results for medical use must be displayed and used in SI units (weight: kilogrammes, length: metres) only. Some devices offer the ability to display test results in other units. This is only an additional function.

- Use the results exclusively in SI units.
- The use of measurement results in non-SI units is the sole responsibility of the user.

## NOTICE!

#### Inconsistent measuring results

- Before you electronically save measurement values determined using this device and use them further (e.g. in seca PC software or in a hospital information system), make sure that the measurement values are plausible.
- If measurement values are transmitted to seca PC software or a hospital information system, make sure prior to further use that the measurement values are plausible and are assigned to the correct patient.

## NOTICE

#### Results not comparable to other devices

Results of bioelectric impedance measurements are not interchangeable with measurements obtained from different manufacturers' devices. Performing follow-up measurements using devices other than seca mVSAs/mBCAs may produce inconsistent data and lead to misinterpretation of measurement results.

 Make sure to perform follow-up measurements using seca mVSAs/ mBCAs only.

# 3. OVERVIEW

# 3.1 seca patient list

	Edit Extras ?		-			dr. m	nadiba [Doctor]	Log
	7	891	Primary patient list	-11	/1	2		se
	create	open	send to mBCA				Þ	
	ID	First name	Name	Date of birth	Gender	Last measurement	Status	1
_	seca_20120620-042633-984	Catherine	Scott	19.09.1978	Ŷ	20.06.2012	new	
	seca_20120620-042421-312	Federico	Domenico	05.09.1989	S	20.06.2012	new	
	seca_20120620-042713-218	John	Scott	03.09.1978	3	20.06.2012	new	4
	seca_20120620-042806-609	l Dk	Van Aelst	18.05.1976	8	20.06.2012	new	1.14
	seca_20161021-095529-658	Max	Müller	08.09.1962	3	21.10.2016		
	seca_20120620-042052-640	Nikolaj	Knudsen	04.06.1976	8	20.06.2012	new	
	seca_20120620-042258-921	Philipp	Prenzlow	01.04.1978	6	20.06.2012	new	
	seca_20120620-042159-375	Pia	Prenzlow	05.09.2003	Ŷ	20.06.2012	new v	)
· 0		•			Entor or	arch torm		
		First name	Name	Date of birth	Gender	Last measureme	nt Status	
	seca 2011110	Stephanie	Lacroix	12 09 1978	Ŷ			
	seca 2011111	Pia	Prenzlow	05.09.2003	Ŷ		$ \land$	
	seca 2011111	Phillipp	Prenzlow	01.04.1978	3			10
_	20							-

No.	Control	Function
1	File	The following functions can be accessed using this menu element: • CSV export • Exit
2	Edit	The following functions can be accessed using this menu element (only with aseca patient file open):  Cut Copy Paste Also as a context menu - right-click
3	Extras	The following functions can be accessed using this menu element: <ul> <li>References</li> <li>User-specific modules</li> <li>Measuring device administration</li> <li>Printouts</li> <li>Patient texts</li> </ul>
4	?	The following functions can be accessed using this menu element: <ul> <li>Product information</li> <li>Instructions for Use</li> <li>Administrator manual</li> </ul>
5	Registered user [role]	<ul> <li>The following roles are provided:</li> <li>Administrator</li> <li>Physician</li> <li>Assistant</li> <li>Changes can only be made by users with the Administrator role.</li> </ul>
6	log out	Open the login dialog (enter user name and password) to log in another user
7	create	Create a new seca patient file in the main patient list
8	open	Open a seca patient file in the main patient list
9	Column sorting	<ul> <li>Up arrow: sort from A - Z</li> <li>Down arrow: sort from Z - A</li> </ul>

No.	No. Control Function			
10	send to mBCA	Send seca patient file to a seca mBCA		
		Displays seca patient files:		
11	Main patient list	<ul> <li>data entered in the main patient list</li> </ul>		
		<ul> <li>data imported from the USB memory stick</li> </ul>		
		Search for seca patient files in the main patient list.		
12	Search window	<ul> <li>"Asterisk search" - e.g. "Mi*" to find Miller</li> </ul>		
		<ul> <li>Back to the complete list with empty search</li> </ul>		
13	Checkbox	Activates a seca patient file.		
	Chookbox	<ul> <li>Clicking buttons in the seca patient list affects all "activated" seca patient files.</li> </ul>		
14	Selection bar	Indicates which seca patient file is currently selected. Clicking buttons has no effect on		
		the selected file (cf. "Checkbox")		
15	copy to USB stick	Copy seca patient files selected in the main patient list to a USB memory stick, e.g. for		
		use on an mBCA		
16	delete	Delete "activated" seca patient file		
		(seca patient file can be restored by users with the <b>Administrator</b> role)		
47	select all	<ul> <li>Select all seca patient files in the main patient list in order to carry out actions for all</li> </ul>		
17	deselect all	<ul> <li>Deselect all seca patient files in the main patient list if action for all has been carried out on it as action is to be partial out.</li> </ul>		
		Out of it no action is to be carried out		
10	Patient list on USB	Displays seca patient files saved on a USB memory slick		
10	memory stick	<ul> <li>seca patient files powly created on an mRCA</li> </ul>		
	Show/hido patient	• Seca patient lies newly created on an midda		
10	list from the LISB	<ul> <li>seca patient list on the USB memory stick is automatically shown at system start</li> </ul>		
15	memory stick	<ul> <li>List can be hidden in order to display more entries in the main patient list</li> </ul>		
	Drive selection			
20	window	For selecting the USB memory stick		
		Search seca patient files on the USB memory stick.		
21	Search window	<ul> <li>"Asterisk search" - e.g. "Mi*" to find Miller</li> </ul>		
		<ul> <li>Back to the complete list with empty search</li> </ul>		
		Delete seca patient file on the USB memory stick (seca patient file cannot be restored		
22	delete	on the USB memory stick)		
		Select all seca patient files on the USB memory stick in order to carry out actions for		
00	select all	all		
23	deselect all	• Deselect all seca patient files on the USB memory stick if action for all has been car-		
		ried out or if no action is to be carried out		

# 3.2 seca patient file

analytics 115						
Edit Extras ?					dr. m	adiba [Doctor] Log out
		Patient file				Seca
illipp Prenzlow	රී 01.04.1978 / Caucasian		metsur	e import	print save	close
ght: 98.80 kg	Height: <b>1.860 n</b> ı BMI: <b>28.56 kg/m</b>	r \				21.10:2016 09:57
patient data	medical history	laboratory data		vital signs	examination results	
neral patient data	(updated on 20.06.2012)					M
lama	(		Contact			
vame			Contact			
Title:			Street:			
First name:	Phillipp		House no.:			
Name:	Prenzlow		Zip code:			
Name suffix:		<b>~</b>	City/town:			
Seneral data			County:			
Date of birth:	01 04 1978		Country:	Germany		~
Gender	Molo *		E-mail:			
Ethnicity			Telephone 1:		Private	•
Ethnoly.	Caucasian		Telephone 2:		Private	
Specific data			Telephone 3:		Private	
Patient ID:	seca_20120620-042258-921					
ttending physician:	dr. madiba	• *	Comments			
						-

	Symbol	Meaning				
Α	Patient info	Summary of the most important patient data				
В	patient data	Enter, edit, and view the patient's master data				
С	medical history	Enter, edit, and view the patient's medical history				
D	laboratory data	Enter, edit, and view the patient's laboratory data				
<b>E</b> vital signs Enter, edit, and view the patient's vital signs						
-	vital signs	Line, edit, and view the patient's vital signs.				
F	examination results	View examination results				
G measure		Start measuring process for weight and height				
		Send seca patient file to a seca mBCA				
н	import	Import patient data Note: Configuration or programming of an interface to the patient data management				
••	import	system (PDMS) required				
I	print	Print results report or save as PDF				
J	save	Save changes and additions to the seca patient file				
Κ	close	Close the seca patient file and return to the seca patient list				
L	Date/time	Settings are adopted from the operating system				
Μ	comments	Add and view comments about the seca patient file				

# 3.3 Color symbols and other controls

Control/display	Symbol	Meaning
Tab	patient data	White: tab not selected
Tab	laboratory data	Red: tab selected
	<ul> <li>Flüssigkeit</li> </ul>	Red, with selection bar: module is active
Typeface, evalua- tion modules	Function / rehabilitation	Bold: new data available
	Function / rehabilitation	Gray: module not available
Typeface, measurements	07.12.2012 <sup>4</sup>	Red, with selection bar: measurement selected, details shown Alternatively: red, with checkbox: measurements selected, details are displayed
	12.11.2011	Bold: new measurement
Footnotes	X 20.06.2012 <sup>1</sup>	<ul> <li>1: Standing BIA measurement</li> <li>2: Lying BIA measurement</li> <li>3: Lying BIA measurement with vital signs</li> <li>4: Vital signs</li> </ul>
Typeface, evalua- tion parameters	28,6 kg/m <sup>2</sup>	Parameter red: value outside normal range
	3.6 low normal increased high 1.3 5.7 5.1	Green: value within normal range
Display, evaluation	5.9 ivv normst excreased high	Orange: value elevated
	7.5 under normal over. velyht weght weght obesity 16.5 2.5.0 30.0	Red: value outside normal range
Handles	Measurements           17.07.2012         1           16.07.2012         1           15.07.2012         1           14.07.2012         1           13.07.2012         1           12.07.2012         1	<ul><li>Selection of several measurements:</li><li>drag left handle upwards: add measurements of a more recent date.</li><li>drag right handle downwards: add measurements of an older date</li></ul>
Comment symbol for evaluation parameter	P	<ul><li>Comment for evaluation parameters present</li><li>Write comment for evaluation parameter</li></ul>
Comment symbol for seca patient files		Write and edit comments for seca patient files
Detail symbol	۲ <u>س</u>	Detail view available for results graph
Drop-down	-	Gray: function available
triangles	-	Light gray: function not available
	*	Data transmission in progress
Data transmission	0	Data transmission successful
	$\bigotimes$	Data transmission failed
	8 kHz	Selected function
Drop-down menu	Total Muscle mass, torso Muscle mass, left arm Muscle mass, right arm Miscle mass inght arm	Drop-down menu open
Checkboyos		Empty: function deactivated/measurement result deselected
CHECKDUNES	×	Cross: function activated/measurement result deselected
Buttons	new	Gray: function available
Lattorio	new	Light gray: function not available

Control/display	Symbol	Meaning
Parameter	∧ V	Select individual parameter Deselect individual parameter
	× V	Select all parameters Deselect all parameters

# 3.4 Identification on the packaging

Mod	Model number
S/N	Serial number
	Observe user manual
<b>CE</b> 0123	Device conforms to EC directives
	Manufacturer's address
Notion with	Packaging material can be disposed of through recycling programs
Ť	Protect from moisture
	Fragile
	Permitted min. and max. temperature for transport and storage
	Permitted min. and max. moisture for transport and storage

# 4. INSTALLATION/UPDATES

The PC software may only be installed and updated by experienced administrators or hospital technicians.

Information about the software version installed and about the availability of updates can be found in the menu line of the PC software at "? → Product information".

For information about the items below, check the menu line of the software under "? → Administrator manual":

- Installation options
- Configuration options
- Uninstalling the 115 PC software
- Interaction of the seca 115 with other software

In the event of questions about the system currently installed on your PC and if you want to make any changes, please contact your administrator.



#### **ATTENTION!** Loss of data

Incorrect installation or incorrect changes to the installation can lead to loss of data and, as a result, to misdiagnoses.

 Make sure the installation or changes to the installation are carried out by an experienced administrator or hospital technician.

# 5. OPERATION

# 5.1 Starting/exiting program

Opening the program	1.	Click "Start $\rightarrow$ Programs $\rightarrow$ seca $\rightarrow$ seca medical software".
		seca analytics <b>115</b>
		User: Password: Cancel
	2.	Enter your user name.
	З.	Enter your password.
		<b>NOTE:</b> User name and password are created by the administrator. If you want to change the user name or password, please contact your administrator.
	4.	Confirm your entries with <b>ok</b> . The seca patient list opens.
Logging off / switching user	Þ	Click on <b>log out</b> . The login dialog opens. Another user can log in.
		seca analytics <b>115</b>
		User: Password: ok
Exiting program	۲	Click on the cross symbol. The program will close.
		dr. madiba [Doctor] Log out
		Seca

## **Changing references** The **seca 115** PC software evaluates measured results using references. References are formulas and comparison values determined in clinical studies. During the installation and configuration of the **seca 115** PC software, your administrator sets in which country you are operating your **seca 115** PC software. With this setting, the references normally used in your country are preset automatically.

You can change the preset references to suit the regulations applying in your institution and your personal preferences. To do so, proceed as outlined below.

1. From the Extras menu, select the References element.

rs 115
Extras ?
References
User-specific modules
Measuring device administration
Printouts
Patient texts

The References dialog window opens.

OFUS		
Children		
Percentile curves for children:	WHO 2007	ľ
Waist Circumferance:	CDC 2000	h
Waist Oreumerence.	WHO 2007	
Resting Energy Expenditure:	Kromeyer-Hauschild et al. 2001	
Adults		
		-
10-year Risk of Coronary Heart Disease:	Framingham Score - Wilson et	*
10-year Risk of Coronary Heart Disease: Waist Circumf. and Metabolic Syndrome:	Framingham Score - Wilson et	•
10-year Risk of Coronary Heart Disease: Waist Circumf. and Metabolic Syndrome: Resting Energy Expenditure:	Framingham Score - Wilson et IDF 2006 Müller et al. 2004	•
10-year Risk of Coronary Heart Disease: Waist Circumf. and Metabolic Syndrome: Resting Energy Expenditure:	Framingham Score - Wilson et IDF 2006 Müller et al. 2004	•

2. Click on the arrow of the parameter for which you want to select the reference.

A pull-down menu with all the selection options for the reference opens.

3. Click the desired reference.

The pull-down menu closes.

The selected reference appears in the selection field.

- 4. Repeat steps 2. and 3. for all parameters whose references you would like to change.
- 5. To save the settings, click **ok**. The dialog window closes.

# NOTE:

If you click on "cancel", the settings are not saved.

# **Creating user-specific modules**

A number of evaluation modules have already been set up to assess your patient's state of health (see "Evaluation modules" on page 50).

In the **User-specific modules** dialog, you can compile two further modules. You can view and evaluate these in the seca patient file under the **examination results** tab, just like the preset evaluation modules.

To compile a user-specific module, proceed as outlined below.

1. In the Extras menu, click on User-specific modules.

S seca	analytic	s 115
File	Edit	Extras ?
		References
		User-specific modules
	CI	Measuring device administration
	1	Printouts
		Patient texts
	seca 2	0120620-042633-984 Cathenne

The User-specific modules dialog window appears.

Module 1 is preselected.

Module name	
With BIA	Parameter
Bhase Apple (r)	
Phase Angle (φ)	
Eat Mass	Weight     Rody Mass Index
Eat-Free Mass	
Visceral Adipose Tissue (VAT)	Total Energy Expenditure
Body Composition Chart	therapy plan
Energy stored in body	Blood pressure
Skeletal Muscle Mass	□ SpO₂
Total Body Water	Pulse rate
Extracellular Water	Temperature
ECW/TBW	

- 2. In the **Module name** field, enter the name you want to give the module.
- 3. Click a maximum of 4 parameters you want displayed in your module.

#### 4. Click on ok.

The user-specific module is saved.

### NOTE:

- With **cancel selection**, you can deselect all selected items with a mouse-click.
- With cancel, you can exit the dialog window without saving settings.
- To delete a saved module, click on **cancel selection**, delete the module name in the **Module name** field and click on **ok**.
- 5. If desired, repeat the process for Module 2.

# Viewing measuring device administration

You can view which scales and stadiometers are connected to your PC. The following information is displayed for each seca measuring device connected:

- device name if entered by the administrator (recommended)
- model
- setup location if entered by the administrator (recommended)
- serial number
- connection properties:

Connection	Properties
Ethernet	[IP address]:[port]
seca 360° wirelesswirele ss network	[PC name: channel; device type]
WiFi	[IP address]:[port]
RS232 devices	[PC name: COM port]

To have the measuring device configuration displayed, proceed as outlined below.

1. From the **Extras** menu, select the **Measuring device administration** element.

S seca	analytic	cs 115	
File	Edit	Extras ?	
		References	Ì
		User-specific modules	L
	CI	Measuring device administration	1
	1	Printouts	ł
,		Patient texts	Ļ
	seca_2	20120620-042633-984 Cathenne	1

The Measuring device administration window appears.

eight				
Name	Model	Location	Serial number	Connection properties
loight				
Name	Model	Location	Sorial number	Connection properties
Name	l ength mensuri	Location	057044004400	Connection properties
Length measuri	Length measuri		05704183104409	
3IA and VSA				
Name	Model	Location	Serial number	Connection properties
mBCA	mBCA			0;5
mBCA	mBCA			1;5
				127.0.0.1-102.169.2.12-60671

# NOTE:

- You cannot make any changes in this window. If changes are to be made, please contact your administrator.
- Both seca mBCAs and seca mVSAs appear in the **Model** column as "mBCA".
- 2. To exit the Measuring device administration window, click on close.

# **Creating printouts** Working with print templates

To print out measured results, you can use the default print templates of the **seca 115** PC software or create individual print templates.

The following categories of default print template are available in the **seca 115** PC software:

- Graphs only
- Progression graphs (history over several measurements)
- Graphs with patient text
- Tables

You can edit the print templates as follows:

- "Creating a print template" on page 17
- "Editing the print template" on page 19
- "Deleting the print template" on page 20

## Creating a print template

1. From the Extras menu, select the Printouts... item.

S seca	analytic	s 115	
File	Edit	Extras ?	
		References	
		User-specific modules	
	CI	Measuring device administratio	n
		Printouts	
	D	Patient texts	
		Patient texts	

2. In the **Printouts...** dialog window, select the category for which you would like to create a new print template (in this case: **Graphics + patient text**).

Graphics Progression	graphs Graphics + patient text Tables	
Template Standard template	r new delete	
all parameters	selected parameters	
	Water       BIVA       Visceral Adipose Tissue & Waist Circumference       Phase Angle (a)       Energy       Metabolic Syndrome       ID- year risk of coronary heart disease       Blood pressure       BMI       Body Composition Chart       Body Composition Chart       Body remerature       Fat Mass       Fat-Free Mass       Pulse rate       Skeletal Muscle Mass       SpOx	up down

3. In the **Template** field, enter the name of a new print template.



4. Click on **new**.

The available parameters appear in the all parameters field.

touts	
Graphics Progression gra	aphs Graphics + patient tex
Template newTemplate •	new delete
all parameters	selected parameters
BMI	
Fat Mass	
Fat-Free Mass	
Skeletal Muscle Mass	
Body Composition Chart	
Water	<
BIVA	>>
Visceral Adipose Tissue & Waist Circumference	
Phase Angle (φ)	<<
Energy	
Metabolic Syndrome	
10- year risk of coronary heart disease	
Blood pressure	
Pulse rate	
SpO <sub>2</sub>	
Body temperature	

- 5. In the **all parameters** field, select a parameter to appear in the print template:
  - a) Click on a parameter in the **all parameters** field.
  - b) Click on the > button.
  - c) Repeat steps a) and b) for all parameters you want to add to the print template.

# NOTE:

- Use the < button to cancel the selection.
- On the **tables** tab, you can use the checkbox to activate or deactivate the individual parameters for the print template.

#### The selected parameters appear in the selected parameters field.

Template newTemplate •	new	delete	
all parameters		selected parameters	
10- year risk of coronary heart disease BIVA Blood pressure Phase Angle (o) Duise rate		BMI Body Composition Chart Body temperature Energy Edit Mass	up
Skeletal Muscle Mass SpO <sub>2</sub> Visceral Adipose Tissue & Waist Circumference Water		Fat-Free Mass Metabolic Syndrome	down

- 6. Specify the sequence in which the parameters are to appear on the results printout:
  - a) Click on a parameter in the selected parameters field.
  - b) Click on the **up** and **down** buttons or move the parameter to the desired position by dragging and dropping.
  - c) Repeat steps a) and b) for all parameters whose position you wish to adapt.

Template newTemplate •	new	delete	
all parameters		selected parameters	
10- year risk of coronary heart disease		BMI	-
BIVA		Body Composition Chart	
Blood pressure		Body temperature	
Phase Angle (φ)		Energy	up N
Pulse rate		Fat Mass	down
Skeletal Muscle Mass	<	Fat-Free Mass	dom
SpO <sub>2</sub>	>>	Metabolic Syndrome	
Visceral Adipose Tissue & Waist Circumference	0		
Water	<<		

7. Click on close.

The dialog window closes.

The new print template is available in the **print** (see "Printing a seca patient file" on page 48) dialog window.

# Editing the print template

1. From the Extras menu, select the Printouts... item.



2. In the **Printouts...** dialog window, select the category for which you would like to edit a new print template (in this case: **Graphics + patient text**).

Graphics Progression gr	raphs	Graphics + patient text R Tables	
Femplate Standard template •	new	delete	
all parameters		selected parameters	
	_	Water	
		BIVA	
		Visceral Adipose Tissue & Waist Circumference	
		Phase Angle (φ)	up
	B	Energy	down
	<	Metabolic Syndrome	
	>>	10- year risk of coronary heart disease	
	B	Blood pressure	
	<<	BMI	
		Body Composition Chart	
		Body temperature	
		Fat Mass	
		Fat-Free Mass	
		Pulse rate	
		Skeletal Muscle Mass	
		SpOz	

In the **Template** field, select a print template.
 The parameters included in this print template appear in the **selected parameters** field.



- 4. Edit the print template:
  - a) Select a parameter in the **all parameters** or **selected parameters** field.
  - b) Add parameters to the print template using the > button or remove them from the print template using the < button.
  - c) Repeat steps a) and b) for all parameters to be added to or removed from the print template.

Template	newTemplate •	new	delete	
all parameters			selected parameters	
10- year risk of	coronary heart disease	-	BMI Redu Composition Chort	
Blood pressure	3		Body Composition Chart Body temperature	
Phase Angle (	Phase Angle (φ)		Energy	up
Pulse rate Skeletal Muscle	e Mass	<	Fat Mass Fat-Free Mass	down
SpO₂ Visceral Adipos Water	se Tissue & Waist Circumference	>>	Metabolic Syndrome	

#### NOTE:

- On the **tables** tab, you can use the checkbox to activate or deactivate the individual parameters for the print template.
- The parameters selected for the print template appear in the Gewählte Parameter field.
- 5. Edit the sequence in which the parameters are to appear on the results printout.
  - a) Click on a parameter in the selected parameters field
  - b) Click on the **up** and **down** buttons or move the parameter to the desired position by dragging and dropping.
  - c) Repeat steps a) and b) for all parameters whose position you wish to adapt.

Template newTemplate	new	delete	
all parameters		selected parameters	
10- year risk of coronary heart disease		BMI	
BIVA		Body Composition Chart	
Blood pressure		Body temperature	
Phase Angle (φ)		Energy	up
Pulse rate		Fat Mass	down
Skeletal Muscle Mass	<	Fat-Free Mass	down
SpO <sub>2</sub>	>>	Metabolic Syndrome	
Visceral Adipose Tissue & Waist Circumference	B		
Water	<<		

6. Click on the **close** button.

The dialog window closes.

The new print template is available in the **print** (see "Printing a seca patient file" on page 48) dialog window.

#### Deleting the print template

1. From the Extras menu, select the Printouts... item.

S seca	analytic	s 115			
File	Edit	Extras	?		
		Re	ferences		
		Us	er-specific mod	ules	
	CI	Me	asuring device	administration	
		Pri	ntouts	N	
		Pa	tient texts	10	
	seca 3	0120620-	142633-984	athenne	-

2. In the **Printouts...** dialog window, select the category in which you would like to delete a print template (in this case: **Graphics + patient text**).

Graphics Progression	n graphs	Graphics + patient text N Tables	
Template Standard template	• new	delete	
all parameters		selected parameters	
		Water	
		BIVA	
		Visceral Adipose Tissue & Waist Circumference	
		Phase Angle (φ)	up
		Energy	dow
	<	Metabolic Syndrome	000
	>>	10- year risk of coronary heart disease	
	0	Blood pressure	
	<<	BMI	
		Body Composition Chart	
		Body temperature	
		Fat Mass	
		Fat-Free Mass	
		Pulse rate	
		Skeletal Muscle Mass	
		SpO <sub>2</sub>	

In the **Template** field, select a print template.
 The parameters included in this print template appear in the **selected parameters** field.

Template newTemplate  all parameters  10- year risk of coronary heart disease BIVA Biodo pressure Phase Angle (%) Pulse rate Skeletal Muscle Mass SpO <sub>8</sub> Visceral Adipose Tissue & Waist Circumference Water	new >> >> <<	delete selected parameters BMI Body Composition Chart Body temperature Energy Fat Mass Fat-Free Mass Metabolic Syndrome	up down
4. Click on the <b>delete</b> buttor	า.		

- The print template is deleted.
- 5. Click on the **close** button. The dialog window closes.

# **Creating patient texts**

The software provides default texts for print templates which are to contain graphs and patient text; these default texts contain information about the parameters included in the results printout. You can adapt these patient texts on an individual basis.

1. From the Extras menu, select the Patient texts... item.

The Edit patient text dialog window appears.

S seca analytics 115						
File	Edit	Extras	?			
		Re	ferences			
		Us	er-specific modules			
			asuring device administration			
mbca pri Weight: 90		Pri	ntouts			
		Pat	tient texts			

## NOTE:

Only print templates you have created or modified yourself from the **Graphics + patient text** category are displayed (see "Working with print templates" on page 16). System-specific print templates and print templates from other categories are not displayed.

Edit patient text			
Select template and resu	ult graphic.		
newTemplate	•	Fat Mass	•
newTemplate	N		
Arial	*	4	- C B / U

2. Under **Select template and results graph**, select the template and results graph for which you would like to edit the patient text.

newtemplate	•)	Blood pressure	-
Format typeface (font, siz	e, color)	10- year risk of coron	0
Arial	•	BIVA	В
	10. X.2.0	SpO <sub>2</sub>	

The default patient text for this results graph is displayed.

3. Edit the patient text as you are accustomed to do in industry-standard word-processing applications.

# NOTE:

Use the **reset** button to discard your changes and restore the default patient text.

- 4. If desired, repeat steps 3 and 4 for other parameters.
- Click on the close button. The dialog window closes. The amended patient texts are saved.

# 5.3 Working with the seca patient list

**Adjusting column width** 1. Position the mouse pointer in the title line on the line between two columns.

S seca	analytic	rs 115			
File	Edit	Extras	?		
	С	reate			open
	1				
	ID			4	Pirst name
	ID seca_;	20120620-(	042633-98	4	Pirst name Catherine
	ID seca_2 seca_2	<b>20120620-</b> 20120620-	042633-98 042421-31	4 2	♥irst name Catherine Federico
	ID seca_ seca_ seca_	<b>20120620-</b> 20120620- 20120620-	<b>042633-98</b> 042421-31 042713-21	4 2 8	Pirst name Catherine Federico John

The pointer turns into a double arrow.

- 2. Hold down the left mouse button and drag to make the column wider or narrower.
- 3. Release the left mouse button once the required column width is reached.

1. Click in the title line of the desired column.

Sorung	g c	oiumn	cont	entin
ascending c	or o	descen	ding	order

File	Edit Extras ?		
	create	open	
	ID	First name	N
	seca_20120620-042633-984	Catherine	13
	seca_20120620-042421-312	Federico	
	seca_20120620-042713-218	John	
	seca_20120620-042806-609	Luuk	
	seca_20120620-042052-640	Nikolaj	

An arrow appears next to the column title, to indicate the current sorting direction.

- 2. Click the arrow to re-sort column content.
- 3. To reverse the sorting direction, click the arrow again.

# Showing and hiding columns

1. Position the mouse pointer in the seca patient list.

2. Right-click.

A context menu with the titles of all columns appears.

create	O	pen	send to mBCA
ID	First	name	V Nam
seca_20120620-042338-500	Steph	anie	Lacro
seca_20120620-042547-968	Sann	e	Van
seca_20120620-042159-375	F 🗸	ID	Pren
seca_20120620-042258-921	F 🗸	Name	Pren
seca_20120620-042052-640	N 🗸	First name	Knud
seca_20120620-042806-609	L	Date of birth	Van J
seca_20120620-042713-218	J 🗸	Gender	Scott
seca_20120620-042421-312	F 🖌	Last measurement	Dome
seca_20120620-042633-984	۷	Status	Scott

- Click on the title of the column you want to hide. The checkmark in front of the column title is no longer displayed. The corresponding column is hidden in the seca patient list.
- Click on the title of the column again to show it again. The checkmark in front of the column title is displayed again. The corresponding column is shown in the seca patient list again.

# Showing and hiding the seca patient list from the USB memory stick

The patient list from the USB memory stick is shown each time the program starts. You can hide the patient list from the USB memory stick to obtain more space for the entries of the main patient list.

1. Click on the "-" symbol above the patient list from the USB memory stick.

SB stick		Ent	ter search term	Þ
SB stick				
all				
	06.09.1999	Ŷ	20.06.2012	new
	03.09.1978	δ	20.06.2012	new
	19.09.1978	Ŷ	20.06.2012	new
	01.04.1978	δ	20.06.2012	new
	05.09.2003	Ŷ	20.06.2012	new
	12.09.1978	Ŷ	20.06.2012	new

The patient list from the USB memory stick is no longer shown.

2. To show the patient list from the USB memory stick again, click on the "-" symbol again.

all			
3B stick			

**Searching for a seca patient file** 1. Enter a search term in the search field.

seca	analytics 115						-	• •
File	Edit Extras ?					adm	in [Administrator]	Log out
			Primary patient I	st				seca
	create	open	send to mBCA		Pr*		×.	
	ID First name	N	ame	Date of birth	Gender	Last measurement	Status	1
	seca_201 Federico	Do	omenico	05.09.1989	δ	20.06.2012	new	
	seca_201 Nikolaj	Kr	udsen	04.06.1976	õ	20.06.2012	new	
	seca_201 Stephanie	La	croix	12.09.1978	Ŷ	20.06.2012	new 😑	
	seca_201 Pia	Pr	enzlow	05.09.2003	Ŷ	20.06.2012	new	
	seca_201 Phillipp	Pr	enziow	01.04.1978	δ	20.06.2012	new	
	seca_201 Catherine	Sc	ott	19.09.1978	Ŷ	20.06.2012	new	
	seca_201 John	Sc	cott	03.09.1978	δ	20.06.2012	new	
	seca_201 Sanne	Va	in Aelst	06.09.1999	Ŷ	20.06.2012	new X	
No	USB stick found	· )	USB stick		Enter	search term	•)	
	ID First name	1	Name	Date of birth	Gender	Last measurement	t Status	Π
								<u>)</u>  

#### NOTE:

If you do not know exactly how to spell a name, you can carry out a so-called "asterisk search" - e.g. "Mi\*" to find "Miller".

- Click the arrow next to the search field. The search process starts. The search results are displayed.
- 3. In order to return to the complete seca patient list, delete the search term in the search field.
- 4. Click the arrow next to the search field. The complete seca patient list is shown again.

# Creating a new seca patient file

If you create a new seca patient file, you must fill in at least the following fields (each marked "\*" in the file):

- Date of birth
- Gender
- Ethnicity
- Attending physician (if the current user is a physician, this field will be filled in automatically)

If the patient ID has to comply with a specified structure in your institution, you can enter it manually. If you do not enter a "manual" ID, then an ID will be assigned automatically when the seca patient file is saved.

1. Click on create.

			Primary patie	ent list
create		open	send to mBCA	
ID	First name		Name	Date of bi
seca_201	Federico		Domenico	05.09.198
seca 201	Nikolai		Knudsen	04.06.197

An empty seca patient file appears.

The patient data tab is active.

e Edit Extras ?						dr. mad	iba [Doctor]
		Patient file					5
	<b>ර</b> 08 09 1962 / Caucasian		measure	import	print	save	close
/elaht: -	Height: - BMI: -						21.10.2016 09:55
patient data	medical history	laboratory data	) v	tal signs	exami	nation results	िम्न
Ceneral natient data	(undated on 21 10 2016)						
Namo	(upulled on 21.10.2010)		Contact				
Name							
Litle:			Street:				
First name:			House no.:				
Name:			Zip code:				
Name suffix:		•	City/town:				
General data			County:				
Date of birth:	08.09.1962 *		Country:	Germany			•
Gender	Mala		E-mail:				
Ethnicity			Telephone 1:			Private	-
curricity.	Caucasian		Telephone 2:			Private	
Specific data			Telephone 3:			Private	<u> </u>
Patient ID:	seca_20161021-095529-658						
Attending physician:	dr. madiba	• •	Comments				
			L				-

2. Enter the patient data:

#### NOTE:

If you are logged in as a physician, you will automatically be entered in the **Attending physician** field. The field can be edited.

3. Click on **save**.

If no manual ID was assigned, the ID created automatically by the **seca 115** software is displayed.

## 4. Click on **close**.

The seca patient list is shown again. Additional seca patient files can be created.

# Sending seca patient file to a seca mBCA (seca mBCA 515/514 only)

Use this function to send a seca patient file to a seca mBCA to determine a patient's body composition on that device.

This function is not required for seca mVSAs and the seca mBCA 525.

## NOTE:

This function is only available if you have an Ethernet network connection available.

- 1. Ensure that the desired seca mBCA is switched on.
- 2. In the patient list of the PC software, select the desired seca patient file.
- 3. Click on send to mBCA.

		Primary patient list	
create	open	send to mBCA	
ID	First name	Name	C
seca_20120620-042633-984	Catherine	Scott	1
secs 20120620 042421 312	Federico	Domenico	0

The Measuring device selection dialog window appears.

Weight:	Manual	- ·	
Hoight	Manual	(	measure
Height.			
Deducere Wee			

- 4. In the **Measuring device selection** dialog window, select the desired seca mBCA in the **Body composition** line.
- 5. Click on **send patient file**.

Weight:	Manual	-	
Height:	Manual	•	measure
inorgini.	Cinanaan		
Pady composition	marca		cond patient file

The seca patient file is passed to the selected seca mBCA where it appears in the **patient** tab.

# Copying seca patient files to USB memory stick (seca mBCA 515/514 only)

If you want to work with seca patient files on a seca mBCA and there is no wireless or Ethernet connection to this device, you can use an initialized USB memory stick.

#### NOTE:

If you are uncertain of whether the USB memory stick has been initialized, please contact your administrator.

In order to copy data to a USB memory stick, proceed as outlined below.

- 1. Insert the USB memory stick in a free USB port on the PC. The message **USB stick detected** appears.
- 2. Click on **ok**.
  - The dialog window closes.
- 3. In the main patient list, select the seca patient files you want to copy to the USB memory stick.

# English

S seca	analytics 115							• 💌
File	Edit Extras ?					dr. m	adiba [Doctor	Log out
			Primary patient list					Seca
	create	open	send to mBCA				×.	
	ID	First name	Name	Date of birth	Gender	Last measurement	Status	
	seca_20120620-042633-984	Catherine	Scott	19.09.1978	Ŷ	20.06.2012	new	
	seca_20120620-042421-312	Federico	Domenico	05.09.1989	ð	20.06.2012	new _	
	seca_20120620-042713-218	John	Scott	03.09.1978	8	20.06.2012	new	
	seca_20120620-042806-609	Luuk	Van Aelst	18.05.1976	õ	20.06.2012	new	
	seca_20161021-095529-658	Max	Müller	08.09.1962	3	21.10.2016		
	seca_20120620-042052-640	Nikolaj	Knudsen	04.06.1976	õ	20.06.2012	new	
	seca_20120620-042258-921	Phillipp	Prenzlow	01.04.1978	δ	20.06.2012	new	
×	seca_20120620-042159-375	Pia	Prenzlow	05.09.2003	Ŷ	20.06.2012	new 🗸	J
E: (	D	•)	USB stick		Enter sear	ch term	•	
	ID	First name	Name	Date of birth	Gender	Last measureme	nt Status	
								) - - -
	delete )-	select all						-

#### 4. Click on copy to USB stick.

The copied entries are shown in the patient list of the USB memory stick.

			Primary patient list				
	create	open	send to mBCA				P I
	ID	First name	Name	Date of birth	Gender	Last measurement	Status
	seca_20120620-042633-984	Catherine	Scott	19.09.1978	Ŷ	20.06.2012	new
	seca_20120620-042421-312	Federico	Domenico	05.09.1989	δ	20.06.2012	new 😑
	seca_20120620-042713-218	John	Scott	03.09.1978	õ	20.06.2012	new
	seca_20120620-042806-609	Luuk	Van Aelst	18.05.1976	õ	20.06.2012	new
	seca_20161021-095529-658	Max	Müller	08.09.1962	8	21.10.2016	
	seca_20120620-042052-640	Nikolaj	Knudsen	04.06.1976	δ	20.06.2012	new
	seca_20120620-042258-921	Phillipp	Prenzlow	01.04.1978	δ	20.06.2012	new
	seca_20120620-042159-375	Pia	Prenzlow	05.09.2003	Ŷ	20.06.2012	new 🗘
	-		000 400		<b>C</b> -1		
. /					Enter sea	arch term	
: (			1			A start as a sub-start as a	- Ct-t
: (	םו	First name	Name	Date of birth	Gender	Last measuremen	nt Status
: (	ID seca_2011110	First name Stephanie	Name Lacroix	Date of birth 12.09.1978	Gender	Last measuremen	nt Status
. (	ID seca_2011110 seca_2011111	First name Stephanie Pia	Name Lacroix Prenzlow	Date of birth 12.09.1978 05.09.2003	Gender P P	Last measuremen	
(	D seca_2011110 seca_2011111	First name Stephanie Pia	Name Lacroix Prenzlow	Date of birth 12.09.1978 05.09.2003	Gender Q Q	Last measuremen	
: (	Beca_2011110 seca_2011111	First name Stephanie Pia	Name Lacroix Prenzlow	Date of birth 12.09.1978 05.09.2003	Gender P P	Last measuremen	
: (	D seca_2011110 seca_2011111	First name Stephanie Pia	Name Lacroix Prenziow	Date of birth 12.09.1978 05.09.2003	Gender Q	Last measuremen	
	D seca_2011110 eeca_201111	First name Stephanie Pia	Name Lacroix Prenzłow	Date of birth 12.09.1978 05.09.2003	Gender 9 9	Läst medsuremen	
	D seca_2011110 seca_2011111	First name Stephanie Pla	Name Lacrobx Prenzłow	Date of birth 12.09.1978 06.09.2003	Gender Q Q		

- 5. Eject the USB memory stick in accordance with the procedure of your PC's operating system.
- 6. Extract the USB memory stick from the USB port of the PC.

#### NOTE:

In order to be able to access seca patient files on a seca mBCA, you need your user PIN (generated automatically when your administrator sets up your user account for the **seca 115** PC software) or the USB PIN (generated when your administrator initializes the USB memory stick). If you do not have either of the PINs handy, contact your administrator.

Importing seca patient files from the USB memory stick (seca mBCA 515/ 514 only) If you have created or updated seca patient files on a USB memory stick, e.g. during a measurement on a seca mBCA, you can import these data to the patient database of the **seca 115** PC software. To do so, proceed as outlined below.

NOTE:

It is not necessary to import seca patient files via USB memory stick for the **seca mBCA 525** and the **seca mVSA 535**. These devices are able to synchronize their seca patient databases automatically with those of the **seca 115** PC software.

- 1. Insert the USB memory stick in a free USB port on the PC. The message **USB stick detected** appears.
- 2. Click on ok.
  - The dialog window closes.

The patient files on the USB memory stick are shown in the patient list of the USB memory stick.

						GI. 11	indibu [DO	
			Primary patient lis	st				5
	create	open	send to mBCA				Þ	
	ID	First name	Name	Date of birth	Gender	Last measurement	Status	
	seca_20120620-042633-984	Catherine	Scott	19.09.1978	Ŷ	20.06.2012	new	
	seca_20120620-042421-312	Federico	Domenico	05.09.1989	δ	20.06.2012	new	-
	seca_20120620-042713-218	John	Scott	03.09.1978	δ	20.06.2012	new	
	seca_20120620-042806-609	Luuk	Van Aelst	18.05.1976	õ	20.06.2012	new	
	seca_20161021-095529-658	Max	Müller	08.09.1962	õ	21.10.2016		
	seca_20120620-042052-640	Nikolaj	Knudsen	04.06.1976	ð	20.06.2012	new	
	seca_20120620-042258-921	Phillipp	Prenzlow	01.04.1978	ð	20.06.2012	new	
	seca_20120620-042159-375	Pia	Prenzlow	05.09.2003	Ŷ	20.06.2012	new	-
		,	USB stick					-
. (			USB stick		Entor so	arch tom		
: (	)	•	USB stick		Enter se	arch term	•	
: (	) ]	• ) First name	USB stick Name	Date of birth	Enter sea	arch term Last measuremen	nt Status	
: (	)  D seca_2011110	First name     Stephanie	USB stick Name Lacroix	Date of birth 12.09.1978	Enter sea	arch term	nt Status	5
: (	)  ID seca_2011110 seca_2011111	First name Stephanie Pia	USB stick Name Lacroix Prenzlow	Date of birth 12.09.1978 06.09.2003	Enter sea	arch term	nt Status	5
: (	) ID secs_2011110 secs_2011111 secs_2011111	First name Stephanie Pia Philipp	USB stick Name Lacrobk Prenzlow Prenzlow	Date of birth 12.09.1978 05.09.2003 01.04.1978	Enter sea Gender Q Q S	arch term	nt Status	s
	D secs_2011110 secs_2011111 secs_2011111	First name Stephanie Pha Philipp	USB stick Name Lacroix Prenziow Prenziow	Date of birth 12.09.1978 05.09.2003 01.04.1978	Enter sea Gender Q Q 3	arch term	nt Status	
	) ID seca_2011110 seca_2011111 seca_2011111	First name Stephanie Pia Philipp	USB stick Name Lacroix Prenzlow Prenzlow	Date of birth 12.09.1978 05.09.2003 01.04.1978	Enter sea Gender ♀ ♀ ♂	arch term	nt Status	s
	) ID seca_2011110 seca_2011111 seca_2011111	First name Stephanie Pia Philipp	USB stok Name Lacroix Prenzlow Prenzlow	Date of birth 12.09.1978 05.09.2003 01.04.1978	Enter sea Gender Q Q 3	arch term Last measuremen	nt Status	
	) ID seca_2011110 seca_2011111 seca_2011111	First name Stephanie Pia Philipp	USB stick Name Lacrok Prenzlow Prenzlow	Date of birth 12.09.1978 06.09.2003 01.04.1978	Enter se. Gender Q Q S	Last measuremen	nt Status	

Data import starts automatically.

Imported entries are shown in the main patient list.

### NOTE:

If you accidentally assign a patient ID which already exists in the **seca 115** PC software, the corresponding seca patient file will be copied from the USB memory stick to the patient buffer of the **seca 115** PC software. Your administrator can provide the seca patient file with a unique ID and transfer it to the main patient list.

- 3. Eject the USB memory stick in accordance with the procedure of your PC's operating system.
- 4. Extract the USB memory stick from the USB port of the PC.

# Exporting seca patient files to .csv format

If you would like to re-use a patient's examination results outside this program, you can export them to the .csv format. This data format can be imported into common spreadsheet programs.

# NOTE:

Personal data such as the name and address of the patient will not be exported.

- 1. Position the red selection bar on the seca patient file to be exported.
- 2. Click the appropriate checkbox.

A cross appears in the checkbox. The seca patient file is selected.

3. Repeat steps 1. and 2. for all seca patient files to be exported.

#### NOTE:

If you want to export all the seca patient files, use the  $\ensuremath{\textbf{select all}}$  function.

4. In the File menu, click on Export.

The export window appears.

CSV export	
FM Fat-Free Mass Body Composition Chart Skeletal Muscle Mass Visceral Adipose Tissue (VAT) BMI Height	Total Body Water     Extracellular Water     ECW/TBW     Resting Energy Expenditure     Total Energy Expenditure     Energy stored in body     10 year risk of coronary heart disease
Weight Raw data for impedance left arm Raw data for impedance right arm Raw data for impedance left leg Raw data for impedance left half of body Raw data for impedance left half of body Raw data for impedance right half of body Raw data for impedance Torso	Metabolic Syndrome Vaist Circumference hase Angle Bioelectrical Impedance Vector Analysis Blood pressure SpO: Vulse rate Body temperature

- 5. Select the parameters you want to export.
- 6. To confirm the settings, click ok.

The Save as dialog window appears.



- 7. Select the directory to which you want to export the patient data.
- 8. Click on save.

The data is exported.

#### NOTE:

If an interface to your PDMS is configured, then weight and height, as well as a PDF document with all the measured results and evaluations, will be exported to the PDMS automatically. If you are uncertain of whether an interface has been configured, please contact your administrator.

# Deleting individual seca patient files

You can delete seca patient files both in the main patient list and in the patient list of the USB memory stick. To do so, proceed as outlined below.

1. Select the seca patient file to be deleted (in this case, in the main patient list).

		Primary patient I	ist			
create	open	send to mBCA		Enters	search term	Þ
ID First nar	ne	Name	Date of birth	Gender	Last measurement	Status
seca_201 Federico		Domenico	05.09.1989	δ	20.06.2012	new
seca_201 Nikolaj		Knudsen	04.06.1976	δ	20.06.2012	new
seca_201 Stephanie	e	Lacroix	12.09.1978	Ŷ	20.06.2012	new
seca_201 Pia		Prenzlow	05.09.2003	Ŷ	20.06.2012	new
seca_201 Phillipp		Prenzlow	01.04.1978	ð	20.06.2012	new
seca_201 Catherine	3	Scott	19.09.1978	Ŷ	20.06.2012	new
seca_201 John		Scott	03.09.1978	δ	20.06.2012	new
seca_201 Sanne		Van Aelst	06.09.1999	Ŷ	20.06.2012	new

# 2. Click the appropriate checkbox.

A cross appears in the checkbox.

The seca patient file is selected.

- 3. Repeat steps 1. and 2. for all seca patient files to be deleted.
- 4. Click on **delete**.

The seca patient file is deleted.

# ATTENTION!

#### Loss of data

If you delete data on the USB memory stick, you cannot restore them.

 Before deleting data on the USB memory stick, make sure that the data have been imported into the main patient list (see "Importing seca patient files from the USB memory stick (seca mBCA 515/514 only)" on page 28).

# NOTE:

If you have inadvertently deleted data in the main patient list, your administrator can restore the data using the **Restore patient data** function. The entire patient data set will be restored. Entries and measurements which have not been saved will be lost.

# Deleting all seca patient files

You can delete seca patient files both in the main patient list and in the patient list of the USB memory stick. To do so, proceed as outlined below.

1. Click on select all (in this case, in the main patient list).

create		open	se	nd to mBCA		Enter	search term	Þ
ID	First name		Name		Date of birth	Gender	Last measurement	Status
seca_201	Federico		Domenico		05.09.1989	δ	20.06.2012	new
seca_201	Nikolaj		Knudsen		04.06.1976	8	20.06.2012	new
seca_201	Stephanie		Lacroix		12.09.1978	Ŷ	20.06.2012	new
seca_201	Pia		Prenzlow		05.09.2003	Ŷ	20.06.2012	new
seca_201	Phillipp		Prenzlow		01.04.1978	8	20.06.2012	new
seca_201	Catherine		Scott		19.09.1978	Ŷ	20.06.2012	new
seca_201	John		Scott		03.09.1978	5	20.06.2012	new
seca_201	Sanne		Van Aelst		06.09.1999	Ŷ	20.06.2012	new
copy to	USB stick	) delete		select all				

#### NOTE:

If you want to undo the selection, click on deselect all.

- 2. Click on **delete**.
  - All seca patient files are deleted.

#### ATTENTION! Loss of data

If you delete data on the USB memory stick, you cannot restore them.

 Before deleting data on the USB memory stick, make sure that the data have been imported into the main patient list (see "Importing seca patient files from the USB memory stick (seca mBCA 515/514 only)" on page 28).

#### NOTE:

If you have inadvertently deleted data in the main patient list, your administrator can restore the data using the **Restore patient data** function. The entire patient data set will be restored. Entries and measurements which have not been saved will be lost.

Primon (patient list

# 5.4 Working with the seca patient file

#### Opening the seca patient file

 Click on the checkbox of the seca patient file you want to open. A cross appears in the checkbox. The seca patient file is selected.

			i initialy partor	it not
create		open	send to mBCA	
ID	First name	63	Name	Date o
seca_201	Federico		Domenico	05.09.1
seca_201	Nikolaj		Knudsen	04.06.1
seca_201	Stephanie		Lacroix	12.09.1
seca_201	Pia		Prenzlow	05.09.2
seca_201	Phillipp		Prenzlow	01.04.1

2. Click on **open** or double-click on the entry in the seca patient list. The seca patient file opens.

# **Editing patient data** When you have opened an existing seca patient file, the following fields are filled in as a minimum:

- Date of birth
- Gender
- Ethnicity
- Patient ID
- Attending physician

You can change and add to patient data at any time.

- 1. Open a seca patient file (see "Opening the seca patient file" on page 31). The **patient data** tab is active.
- 2. Select the tab on which you would like to change data.

Edit Extras ?						dr. mad	liba [Doctor]	Lo
		Patient file						SE
	7		measu	ure import	print	save	close	
	O 08.09.1962 / Caucasian						21.10.2016	
/eight: -	Height: - BMI: -	1					09:55	
patient dala	medical history	laboratory data		vital signs		examination results		
eneral patient data	(updated on 21.10.2016)							
Name			Contact					1
Title			Ctreat					
First server			Street.					
First name.	Max		House no.:					
Name:	Müller		Zip code:					
Name suffix:	6	-	City/town:					
			County:					
General data			Country	Cormany				
Date of birth:	08.09.1962 *			Germany				
Gender:	Male •		E-mail:					
Ethnicity:	Caucasian 🔹 🔹		Telephone 1:			Private	•	
			Telephone 2:			Private		
Specific data			Telephone 3:			Private	•	
Patient ID:	seca_20161021-095529-658							
Attending physician:	dr. madiba	• *	Comments					
							-	
								)

- 3. Change or add to the patient data where necessary:
  - supplement data manually.
  - mark entries and use the Cut, Copy and Paste functions. These functions are accessible via the Edit menu element or by right-clicking on the context menu.

seca	analytics 115	Title:	
File	Edit Extras ?	First name:	Max
	Cut	Name:	Müller
	Сору		Cut
	Paste	Name suffix:	Copy Copy
			Paste

- 4. Click on **save**.
- 5. To close the seca patient file, click **close**. The seca patient list is shown again.

**Entering a medical history** 

On the **medical history** tab, you can enter previous illnesses or therapies already started. This information is included in the evaluation of the measured results (see "Assessing the examination results" on page 40).

- 1. Click on **medical history**.
  - The **medical history** tab is active.

ile Edit Extras	?		
			Patient file
Max Müller	රි	08.09.1962 / Caucasian	
Weight: -	Height: -	BMI: -	
patient data		medical history	laboratory data

2. Click on the checkboxes for the relevant previous illnesses and therapies. A cross appears in the corresponding checkboxes.

# English

S seca analytics 115	×
File Edit Extras ? dr. madiba (Doctor) Log o	ut
Patient file	æ
Phillipp Prenzlow & 01.04.1978 / Caucasian	
21.10.2016 Weight: 98.80 kg Height: 1.860 m EMI: 28.56 kg/m² 09.57	
patient data medical history laboratory data vital signs examination results 🧭	
Medical history (updated on - )	
Smoker	
Heart disease or heart defect	
History of heart attack in the family	
Type 1 diabetes	
Type 2 diabetes	
Treatment for elevated triglycerides	
Treatment for reduced HDL	
Treatment for hypertension	
cancel selection	

3. Click on save.

#### NOTE:

Use  $\ensuremath{\textbf{cancel selection}}$  to undo the entire selection. Then click on  $\ensuremath{\textbf{save}}$  again.

**Entering laboratory data** In the **laboratory data** tab, you can enter the patient's current laboratory data and waist circumference and track the history.

If an interface to your patient data management system (PDMS) has been configured for this program, patient and laboratory data can be transferred from the PDMS.

#### NOTE:

If you are uncertain of whether an interface has been configured, please contact your administrator.

To enter laboratory data manually, proceed as outlined below.

1. Click on laboratory data.

The laboratory data tab is active.

ne E	dit Extras	?					
						Patient file	
Philli	pp Prenzic	w đ	01.04	4.1978 / Caucas	ian		
Weight:	98.80 kg	Height:	1.860 m	BMI: 28.56	kg/m²		

- 2. Click in a value field.
- 3. Enter the value.

S seca analytics 115	
File Edit Extras ?	dr. madiba [Doctor] Log out
Patient	lle Seca
Phillipp Prenzlow         8         01.04.1978         / Caucasian           Weight:         98.80 kg         Height:         1.860 m         BMI:         28.56 kg/m²	measure import print save close 21.10.2016 09.58
patient data medical history laboratory da	vital signs examination results
Laboratory data ( )	
LDL cholesterol: 120 mg/dl 3.10 mmol/l >>	
HDL cholesterol: mg/dl mmol/l >>	
Total cholesterol: mg/dl mmol/l >>	
Triglycerides: mg/dl mmol/1 >>	
Fasting glucose: mg/dl mmol/l >>	

#### NOTE:

You can specify the value in mg/dl or in mmol/l. The conversion to the other value takes place automatically as soon as you click on the empty field.

S seca analytics 115	
File Edit Extras ?	dr. madiba [Doctor] Log out
Patient file	sec
Phillipp Prenzlow of 01.04.1978 / Caucasian	measure import print save close
Weight: 98.80 kg Height: 1.860 m BMI: 28.56 kg/m²	21.10.2016 09:58
patient data medical history laboratory data	vital signs examination results
Laboratory data ( )	
LDL cholesterol: 120 mg/dl 3.10 mmol/l >>	
HDL cholesterol: mg/dl mmol/l >>	
Total cholesterol: mg/dl mmol/l >>	
Triglycerides: mg/dl mmol/l >>	
Fasting glucose: mg/dl mmol/1 >>	

- 4. Repeat steps 2. and 3. for all values you want to enter.
- 5. Click on save.

# Viewing history for individual values

You can view the history for individual values. To do so, proceed as outlined below.

1. Click on the » symbol next to the desired value.

le Edit Extras ?							dr. madiba (Do	ctori Log ou
			Patient file	3				sec
	01.01.1070			meas	ure import	print	save clo	se
Weight: 98.80 kg Height:	1.860 m BMI:	28.56 kg/m <sup>2</sup>					21.10. 09:59	2016
patient data	medical histor	y C	laboratory data		vital signs	examir	nation results	
Laboratory data (21.10.2016)	1							
		_						
LDL cholesterol: 138	mg/dl 3.57	mmol/l	<<	History				
LDL cholesterol: 138 HDL cholesterol: 38	mg/dl 3.57 mg/dl 0.98	mmol/l	~	History Date	Time	Value in mg/dl	Value in mmol/l	
LDL cholesterol: 138 HDL cholesterol: 38 Total cholesterol: 167	mg/dl 3.57 mg/dl 0.98	mmol/l	~ ~	History Date 21.10.2016	Time 09:59:01	Value in mg/dl	Value in mmol/l	
LDL cholesterol: 138 HDL cholesterol: 38 Total cholesterol: 167	mg/dl 3.57 mg/dl 0.98 mg/dl 4.32	mmol/l mmol/l mmol/l	*	History Date 21.10.2016 21.10.2016	Time 09:59:01 09:58:56	Value in mg/dl 138 120	Value in mmol/ 3.57 3.10	
LDL cholesterol: 138 HDL cholesterol: 38 Total cholesterol: 167 Triglycerides: 112	mg/dl 3.57 mg/dl 0.98 mg/dl 4.32 mg/dl 1.26	mmol/l mmol/l mmol/l mmol/l	< > > > > > > > > > > > > > > > > > > >	History Date 21.10.2016 21.10.2016	Time 09:59:01 09:58:56	Value in mg/dl 138 120	Value in mmol/1 3.67 3.10	
LDL cholesterol: 138 HDL cholesterol: 38 Total cholesterol: 167 Triglycerides: 112 Fasting glucose: 88	mg/dl 3.57 mg/dl 0.98 mg/dl 4.32 mg/dl 1.26 mg/dl 4.88	mmol/l mmol/l mmol/l mmol/l	* * * *	History Date 21.10.2016 21.10.2016	Time 09:59:01 09:58:56	Value in mg/dl 138 120	Value in mmol/ 3.67 3.10	
LDL cholesterol: 138 HDL cholesterol: 38 Total cholesterol: 167 Triglycerides: 112 Fasting glucose: 88 Wais	mg/dl 3.57 mg/dl 0.98 mg/dl 4.32 mg/dl 1.26 mg/dl 4.88 t Circumf. 0.7	mmol/l mmol/l mmol/l mmol/l mmol/l	* * * * *	History Date 21.10.2016 21.10.2016	Time 09:59:01 09:58:56	Value in mg/dl 138 120	Value in mmol/ 3.67 3.10	

- 2. To close the history view, click «.
- 3. To return to the seca patient list, click **close**.

## Deleting values in the history field

You can delete individual values in the history field. To do so, proceed as outlined below.

- 1. Right-click on the value you want to delete. The **delete** button appears.
- 2. Left-click on the **delete** button. The value is deleted
- 3. To return to the seca patient list, click **close**.

Date	Time	Value in mg/dl	Value
21.10.2016	09:59:11	138	3.57
21.10.2016	09:59:01	138 de	lete
21.10.2016	09:58:56	120	3.10

# **Entering vital signs**

**al signs** On the **vital signs** tab you can enter the current vital signs or view data received from a seca mVSA.

If an interface to your patient data management system (PDMS) has been configured for this program, it is possible to transmit patient and laboratory data, and vital signs from the PDMS.

## NOTE:

If you are uncertain of whether an interface has been configured, please contact your administrator.

#### NOTE:

- The seca patient database of a seca mVSA is automatically synchronized with the seca patient database of the **seca 115** PC software. As soon as results from a vital signs measurement are stored on the device, they are also available in the **seca 115** PC software.
- Vital signs parameters which are not transmitted by your seca mVSA due to its features can be assigned to a vital signs measurement manually within 24 hours.
- Automatic synchronization must be set up by your administrator. If you have any questions about this, contact your administrator.

To enter vital signs manually, proceed as outlined below.

- 1. Click on vital signs.
  - The vital signs tab is active.

eca analytics 115 ·							
e Edit Extras ?						doc1 [Doctor]	] Log o
			Patient file				sec
Phillipp Prenzlow 8	01.04.1978 / Ca						
veight: <b>109.10 kg</b> Height:	1.650 m BMI: 4	0.07 kg <i>l</i> m				11.28.2016 09:54 AM	
patient data	medical history		laboratory data	vital signs	examination resu	lts 🖉	
ītal data from ( )							
Systole (SYS)		mmHg	>>				
Diastole (DIA)		mmHg					
mean arterial pressure		mmHg					
Pulse rate		bpm	>>				
Oxygen saturation		%	>>				
body temperature		°C	>>				
					res	et	

- 2. Click in a value field.
- 3. Enter the value.

C Edit Exites	?			
			Patient file	
Phillipp Prenzlow	් 01.04.1	1978 / Caucasian		measure impo
Weight: 109.10 kg	Height: 1.650 m	BMI: <b>40.07 kg/m²</b>		
patient data	medical	nistory	laboratory data	vital signs
Vital data from (04.1	1.2016)			
Syst	ole (SYS) 120	* mmHg	>>	
		* mmHa		
Dias	tole (DIA)			
Dias mean arterial	pressure 100	* mmHg		

- 4. Repeat steps 2. and 3. for all values you want to enter.
- Click on save (speichern). The results can be assessed in the examination results tab of the seca 115 PC software.

# Viewing history for individual values

You can view the history for individual values. Proceed as outlined below.

1. Click on the » symbol next to the desired value.

ile Edit	Extras ?										do
						Patient file					
Phillipp	Prenzlow	රී	01.0-	4.1978 / Cau	ucasian		me	asure	import	print	save
Weight: 1	09.10 kg	Height:	1.650 m	BMI: 40.	.07 kg/m²						
p	patient data	$\overline{)}($	medica	al history	$\square$	laboratory data		vital sig	jns 💦	examina	tion results
Vital data	a from (28.11	1.2016)									
Vital data	a from (28.11 Systol	e (SYS)	120	*	mmHg	15	History				
Vital data	<b>a from (28.11</b> Systol Diasto	e (SYS) (	120 80	*	mmHg mmHg	(L)	History Date	Time	Systole in	Diastole in	MAP in
Vital data	a from (28.11 Systol Diasto mean arterial p	e (SYS) (	120 80	*	mmHg mmHg		History Date 14.11.2016	Time	Systole in	Diastole in	MAP in 95
Vital data	a from (28.11 Systol Diasto mean arterial p	e (SYS) ( e (DIA) ( ressure (	120 80 100	*	mmHg mmHg mmHg	<b>1</b> 5	History Date 14.11.2016 13.11.2016	Time 16:56:56 16:46:45	Systole in 132 143	Diastole in 77 87	MAP in 95 94

The history field for that value opens.

- 2. To close the history view, click «.
- 3. To return to the seca patient list, click **close**.

# Deleting values in the history field

You can delete individual values in the history field. Proceed as outlined below.

- Right-click on the value you want to delete. The **delete** button appears.
- 2. Left-click on the **delete** button. The value is deleted.
- 3. To return to the seca patient list, click **close**.

Date	Time	Systole in	Diastole in	MAP in	
14.11.2016	16:56:56	132	77	- 95	
13.11.2016	16:46:45	143	delet	•	
12.11.2016	16:35:58	129	93	105	
11.11.2016	16:29:47	133	89	99	
10.11.2016	16:13:55	134	84	97	

Determining weight and height

To determine a patient's weight and height, proceed as outlined below.

- 1. Open the seca patient file (see "Opening the seca patient file" on page 31) or create a seca patient file if necessary (see "Creating a new seca patient file" on page 25).
- 2. In the title bar of the seca patient file, click on measure.

	measure	import			close	
	h	<i>3</i> ,			21.10.2016 09:57	
The <b>Mea</b>	suring device	selectio	<b>n</b> dialog	window	w appears.	
	Measuring device selec	tion				
	Weight:	Manual		I •	measure	
	Height:	Manual		*		
	Body composition			•	send patient file	
					cancel	

3. In the **Weight** and **Height** lines, click on the devices you want to use to perform the measurement.

# ATTENTION!

## Incorrect measurement if incorrect device selected

If the incorrect device is selected, measured results may be assigned to an incorrect patient or no measurement may be performed at all.

- Use the name of each device to check you have selected the right devices.
- For selecting devices logged on to the same USB wireless adapter: make sure that the selected measuring devices are logged on to the same wireless group.
- If devices in the network have to be renamed or the configuration of wireless groups changed, contact your administrator.

#### NOTE:

Select the **Manual** setting if your scales and stadiometers are not networked with the PC. In the next dialog window, you can then enter the measured values directly.

4. In the Measuring device selection dialog window, click on measure.

weight.	Personenwaage	-	
Height:	Langenmessgerat	•	measure
Porty composition	mBCA	•]	send patient file

#### The Measured values dialog window appears.

The selected measuring devices are displayed next to the corresponding value windows.

Measured values	
Weight (kg)	80 seca 285, Raum 1
Height (m)	seca 285, Raum 1
Please enter the patient's risk:	s Waist Circumference to determine cardiometabolic
Waist Circumf. (m)	
	e estivity level /DAL) to determine Tetel Freezey
Please enter the patient's Expenditure:	s activity lever (PAL) to determine Total Energy
Please enter the patient's Expenditure: PAL	Control of the second sec

- 5. Perform the measurements as described in the instructions for use for the selected devices.
- 6. Ensure that the measured values are shown in the **Measured values** dialog window:
  - If you are using seca 360° wireless devices on which automatic data transmission is activated, the measured values are automatically sent to the PC.
  - If you are using seca 360° wireless devices on which automatic data transmission is not activated or is not provided, press the Enter key (Send/print) on the measuring devices to send the measured values to the PC.
  - If you are working with scales which are connected to the PC via RS232 interface, the measured values are transmitted to the PC automatically.
  - If your scales and stadiometers are not networked with the PC, enter the measured values manually.

### NOTE:

 If you are unsure whether automatic data transmission is activated or available on your seca 360° wireless devices, contact your administrator.

- Regardless of the setting on the measuring devices, measured values will be displayed in the units preset for the seca 115 PC software.
- 7. If you want to assess the patient's cardiometabolic risk, enter the **Waist** circumference in the **Measured values** dialog window.

Weight (kg)	80	seca 285, Raum 1
Height (m)	1.83	seca 285, Raum 1
Please enter the patient's risk:	s Waist Circumference	to determine cardiometabolic
Waist Circumf. (m)	0.9	)
Please enter the patient's Expenditure:	s activity level (PAL) to	determine Total Energy
	47	?)
PAL	1.7	

8. If you want to determine the patient's total energy expenditure (TEE), enter the patient's **Physical Activity Level (PAL)** in the **Measured values** dialog window.

#### NOTE:

- If you do not enter waist circumference and PAL, the following modules will not be displayed in the examination results tab: Cardiometabolic risk, Energy.
- If waist circumference is not yet available, you have the option of entering waist circumference in the **laboratory data** tab later. This must be done the same day as the weight and height measurement (see "Entering laboratory data" on page 33).
- If you click on the ? symbol next to the Physical Activity Level (PAL) line, a table of PAL values appears. If you click on a value, it will be adopted in the Measured values window.

PAL	1.6
	ok cancel
PAL	Activity
≤ 1.2	almost exclusively lying down
1.4	almost exclusively sitting down
1.6	mainly sitting, occasionally standing
1.8	primarily standing or walking
≥ 2.0	physically demanding

- 9. In the measured values window, click on  $\boldsymbol{\mathsf{ok}}.$ 
  - The measuring procedure is complete.
  - The examination results tab is active.

The results of the examination can be evaluated.

# Determining body composition (seca mBCA 515/514)

If you would like to determine a patient's body composition using a seca mBCA (bioimpedance measurement), you can send an open seca patient file to the desired seca mBCA. To do so, proceed as outlined below.

#### NOTE:

This function is only available if you have an Ethernet network connection available.

- 1. Ensure that the desired seca mBCA is switched on.
- 2. Open the seca patient file (see "Opening the seca patient file" on page 31) or create a seca patient file if necessary (see "Creating a new seca patient file" on page 25).
- 3. In the title bar of the seca patient file, click on **measure**.

Measuring device se	lection		
Weight:	Manual	•	
Height:	Manual	•	measure

- 4. In the **Measuring device selection** dialog window, select the desired seca mBCA in the **Body composition** line.
- 5. In the Measuring device selection dialog window, click on send patient file.

Weight:	Manual	-	
Hoight:	Manual	•	measure

The seca patient file is passed to the selected seca mBCA where it appears in the **patient** tab.

- 6. Perform the bioimpedance measurement as described in the "Instructions for Use for Physicians and Assistants" for the seca mBCA.
- Save the bioimpedance measurement on the seca mBCA as described in the "Instructions for Use for Physicians and Assistants" for the seca mBCA.

The seca patient file in the **seca 115** PC software is updated automatically.

The results can be assessed in the **examination results** tab of the **seca 115** PC software.

Determining body composition (seca<br/>mBCA 525, seca mVSA 535)The seca patient database of the seca mBCA 525 and the seca mVSA 535 is<br/>automatically synchronized with the seca patient database of the seca 115<br/>PC software. As soon as results from a bioimpedance or vital signs measure-<br/>ment are stored on the aforementioned device, they are also available in the<br/>seca 115 PC software.

Automatic synchronization must be set up by your administrator. If you have any questions about this, contact your administrator.

Assessing the examination results

On the **examination results** tab, you can view the evaluations of all measurements performed for the patient. In addition to weight and height, the evaluation also includes waist circumference and physical activity level, as well as medical history and laboratory data. If the values for a bioimpedance measurement are available, these are also taken into account. The results are displayed in evaluation modules.

#### NOTE:

This section describes how to use the **seca 115** PC software. For basic information about the medical content of the evaluation modules, see the section entitled "Medical basis" from page 50.

The following evaluation modules can be considered if weight, height, PAL and waist circumference are available for a patient.

- Cardiometabolic risk
- Development/growth
- Energy

The following evaluation modules can be considered in addition if data from a bioimpedance measurement are available:

- Function/rehabilitation
- Fluid
- Health risk

#### Raw data for impedance

The following evaluation module can also be considered if data from a vital signs measurement (seca mVSA 535 or manual) are available:

· Vital signs

On the **examination results** tab you can also view the results for **User-specific modules**.

#### **Viewing examination results**

To view the evaluation modules, proceed as outlined below.

1. Click on examination results.

The examination results tab is active.

				dr. m
Patient file				
Caucasian				
28.56 kg/m²				
laboratory data	vital	signs	exami	nation result
		1		

2. Click on the module you want displayed.

<ul> <li>Kardiometabolisches Risiko</li> </ul>
Entwicklung/Wachstum
Energie

3. Click on the measurement you want displayed.

Mea	Measurements		
×	23.10.2016		
	22.10.2016 <sup>1</sup>		
X	21 10 2016 1		
	04.40.0040.1		
×	21.10.2016		
[a. a]	or recercit		

#### NOTE:

Measurements can be selected by either dragging or using checkboxes. If you want to change the type of selection, contact your administrator.

The evaluation of the measurement is displayed.

For some evaluations, a graphical display is provided.

seca analytics 115		
ile Edit Extras ?		doc1 [Doctor] Log ou
	Patient file	Sec
Phillipp Prenzlow Weight: 109.10 kg Heigh	01 04 1976         / Caucasian         measure         import           t         1.650 m         EMI:         40.07 kg/m²	print save close 04.11.2016 11.33
patient data	medical history laboratory data vital signs	examination results 🕗
Vital signs	Results of examination dated 24.09.2012 15:40	BIA, standing
Development / growth Energy Function / rehabilitation	Body Mass Index 24.93 kg/m² Cost and a cost	
Health risk Cardiometabolic risk Raw data for impedance	Visceral Adipose Tissue (VAT) 3.31	33 33 7997
Measurements while starr  Measurements  24.09.2012 1  23.09.2012 1	Metabolic Syndrome Calculation not possible due to lack of data.	
<ul> <li>22.09.2012<sup>1</sup></li> <li>21.09.2012<sup>1</sup></li> <li>20.09.2012<sup>1</sup></li> <li>19.09.2012<sup>1</sup></li> </ul>	10- year risk of coronary heart disease Calculation not possible.	

# Adding a comment to an evaluation parameter

You can add a comment to every evaluation parameter shown.

- 1. Right-click in a results graph.
  - A context menu appears.

Body Mass Index		20.3
29.32 kg/m²	Display comments	25.3
	New comment	weight weight weight

# 2. Click on New comment.

The comments window opens.

Date compiled: 23.10	0.2016			

The date and time are entered automatically.

- 3. Enter a **subject**.
- 4. Enter your comment in the comments field.
- 5. Click on **ok** in the comments field. The comments field closes.

P

The comment symbol appears in the results graph.

#### Viewing comments on an evaluation parameter

- If the comment symbol is shown in the results graph of an evaluation parameter, there is at least one comment.
  - 1. Right-click in a results graph.
    - A context menu appears.

Body Mass Index	lody Mass Index	
29.32 kg/m²	Display comments	
	New comment 😡	weight weight weight occasity

2. Click on **Display comments**.

The comments list opens.

Measurement of:	Date compiled:	Author:	Comment	
23.10.2016	23.10.2016 10:07:38	dr. madiba	Kommentar 2 Kommentar 2	
23.10.2016	23.10.2016 10:07:33	dr. madiba	Kommentar 1 Kommentar 1	

All the comments on that evaluation parameter are displayed.

3. To exit the comments list, click on **close**.

#### Deleting comments on evaluation parameters

You can delete comments on the evaluation parameters.

- 1. Open the comments list as described in the section entitled "Viewing comments on an evaluation parameter" on page 43.
- 2. Right-click on the comment you want to delete.

Body Mass Index			
Date compiled:	Author:	Comment:	
23.10.2016 10:07:38	dr. madiba	Kommentar 2 Kommentar 2	
23.10.2016 10:07:33	dr. madilina delete	Kommentar 1 Kommentar 1	
	Date compiled:           23.10.2016 10:07:38           23.10.2016 10:07:33	Date complet         Author:           23 10.2016 10.07.38         dr. madba           23 10.2016 10.07.33         dr. madba	

The **delete** button appears.

3. Click on the **delete** button.

The measurement is deleted.

#### **Displaying results graphs enlarged**

The results graphs can be displayed enlarged if the window symbol appears in the graph  $\square$ .

The enlarged displays contain additional details which enable you to assess your patient's state of health better.

1. Click on a graph to have it displayed enlarged and with details (in this case, BMI).

Body Mass Index		I
23.1	Height Weight BMI	1.860 m 80.00 kg 23.12 kg/m²
under- weight weight weight obesity		
18.5 25.0 30.0		
		WHO 2004

2. Click on the graph again to shrink it back to its original size.

# NOTE:

If you position the mouse pointer on a measurement point in the graph, the associated measured values will be displayed.



Height 190.0 cm Weight 90.00 kg BMI 24.93 kg/m²

# Viewing the history

You can view a patient's history by selecting several measurements. Measured results and evaluations are then displayed in progression graphs.

#### NOTE:

Measurements can be selected by either dragging or using checkboxes. If you want to change the type of selection, contact your administrator.

#### NOTE:

This function is not available in the **Cardiometabolic risk** and **Raw data for impedance** modules, as in these modules, a progression display is not relevant for assessing a patient's state of health.

Proceed as outlined below to select measurements for the history.

- 1. Click on the examination results tab.
- 2. Click on the module you want displayed (in this case: View with selection bar).

The module is displayed in a selection bar.

Mea	asurements	
×	23.10.2016 1	
	22.10.2016 <sup>-1</sup>	
$\times$	21.10.2016 <sup>1</sup>	
$\times$	21.10.2016 <sup>1</sup>	

3. Filter by desired measuring method.



- 4. Click on a measurement you wish to select. The measurement is displayed on a selection bar.
- 5. While holding down the left mouse button, drag the selection bar across all the other measurements you want to view as a history (in this case, left handle upwards).

The individual parameters of the module will be displayed as progression graphs.



Mea	surements	
	17.07.2012 1	
	16.07.2012 <sup>1</sup>	
	15.07.2012 <sup>1</sup>	
	14.07.2012 <sup>1</sup>	
	13.07.2012 <sup>-1</sup>	

## English

S seca analytics 115		<b>- X</b>
File Edit Extras ?	doc1 [Doctor]	Log out
	Patient file	seca
DLilling Descelation	a crossore import print save close	
Weight: 109.10 kg Height:	0 01.04.1978 / Caucasaan 10.11.2016 t 1.650 m EMI: 40.07 kg/m² 13.40	
patient data	medical history laboratory data vital signs examination results 🥑	
Vital signs	Results of examination dated 22.09.2012 15:42 to 09.11.2016 11:10 BIA standing	
<ul> <li>Development / growth</li> </ul>	Weightin kg	
Energy	80.00 kg	
Function / rehabilitation		
Fluid	Heightin cm	
Health risk	170.0 cm	
Cardiometabolic risk		
Raw data for impedance		
All measurements	Body Mass Index in kg/m <sup>2</sup>	
Measurements	27.58 Kg/m*	
9.11.2016 <sup>1</sup>		
24.09.2012 1		
23.09.2012 1		
21.09.2012		
20.09.2012 1		
19.09.2012 <sup>1</sup>		

6. Click on a graph to have it displayed enlarged and with details (in this case, BMI).



7. Click on the graph again to shrink it back to its original size.

## Using the therapy planner (Energy module only)

If the patient's resting energy expenditure and total energy expenditure are known, you can calculate the recommended daily energy intake for the patient in order to achieve a target weight within a defined time (duration of therapy).

The **seca 115** PC software can calculate resting energy expenditure (REE) if the following parameters are entered or have been measured: age, gender, weight and height. Total energy expenditure (TEE) can be calculated if the physical activity level (PAL) has also been entered.

1. In the Energy module, click on Therapy planner.

Therapy goal:	0	BMI in kg/m <sup>2</sup>	•
Duration of therapy in days:	0		
Recommended Energy Intake in [kcal/day]:			

- 2. Enter the value and type of the therapy objective.
- 3. Enter the therapy duration in days. The recommended daily energy intake is calculated.

erapy plan		
Therapy goal:	25	BMI in kg/m <sup>2</sup>
Duration of therapy in days:	60	
Recommended Energy Intake in [kcal/day]:	3655	

4. To save settings in the **Therapy planner**, click on **close**.

# **Deleting measurements**

You can delete individual measurements. To do so, proceed as outlined below.

- Right-click on the measurement you want to delete. The **delete** button appears.
- 2. Left-click on the **delete** button. The measurement is deleted.

All r	measurements	26
Mea	asurements	24
$\times$	23.10.2016	
	22.10.2016	select all
$\times$	21.10.2016	delete
$\times$	21.10.2016 1	16
$\times$	21.10.2016 <sup>1</sup>	21.10.
	20.06.2012 1	

## Writing comments

On the **comments** tab, you can add comments to the seca patient file.

1. Click on the 🕗 symbol.



The comments tab is active.

S seca analytics 115					
File Edit Extras ?		dr. madiba [Doctor] Log out			
	Patient file	seca			
Phillipp Prenzłow & 01.04.1978 / Caucasian inport print save close					
Weight: 98.80 kg Height: 1.860 m BMI: 28.56 kg/m² 09:57					
patient data medical h	istory laboratory data	vital signs examination results			
Comments (updated on 21.10.2016)					
Measurement of: Date compiled: General 21 10 2016 09:57:55	Author:	Comments:			
Seneral 21, 10,2010 05,07,00	ui, mauba	Untersuchungsergebnisse Dem Patienten wurde eine Gewichtsreduktion von 5kg empfohlen.			
		write comment			
-					

## 2. Click on Write comments.

The comments window opens.

I late an unit of a second balance				
Ontersuchungsergebnisse				
Dem Patienten wurde eine Gewid	htsreduktion von	5kg empfohlen.		

The date and time are entered automatically.

#### NOTE:

Comments can be neither deleted nor subsequently edited in the  $\ensuremath{\textit{comments}}$  tab.

- 3. Enter a subject.
- 4. Enter your comment in the comments field.
- Click on ok in the comments field. The comments field closes. The comment appears as the top entry in the comments list.

## Printing a seca patient file

In the **print** dialog, you can save all the results of a measurement in the form of a PDF file. You can print out the PDF file using a PDF viewer such as Adobe Reader.

## NOTE:

If you do not have a PDF viewer installed on your computer, contact your administrator.

- 1. Open the seca patient file.
- 2. In the seca patient file, click on print.



The print dialog window appears.

- 3. Select the print template.
- 4. Specify the scope of the printout:
- **Graphics**: results graphs for all parameters without further explanations
- with patient text: results graphs for all parameters with explanations for the patient
- as a table: all parameters in tabular form
- Progression graphs: results graphs for all parameters in time order.

#### NOTE:

A description of how to create your own patient text can be found in the section entitled "Creating patient texts" on page 21.

#### NOTE:

A description of how to create your own print template can be found in the section entitled "Creating printouts" on page 16. The printout is printed.

5. Use the print dialog of the PDF viewer to print out the PDF file.

# Importing a patient file

If an interface to your patient data management system (PDMS) has been configured for the **seca 115** PC software, you can import patient files from the PDMS.

The import will work differently depending on the configuration of the interface. As an example, the import may run as described in this section.

#### NOTE:

If you are uncertain of whether an interface has been configured and how the import works on your system, please contact your administrator.

 In the seca patient list, click on create. An empty seca patient file appears. The patient data tab is active.



# English

S seca analytics 115			
File Edit Extras /		Patient file	
		Fallent life	
			measure import print save close
Weight:	Height: BMI:	)	09:55
patient data	medical history	laboratory data	vital signs examination results
General patient data	(updated on - )		
Name			Contact
Title:			Street
First name:			House no.:
Name:			Zip code:
Name suffix:		•	City/town:
			County:
General data			Country: Germany
Date of birth:	*		E-mail:
Gender:	Male • *		Telephone 1:
Ethnicity:	Caucasian •		Telephone 2:
Specific data			Telephone 3:
Patient ID:			
Attending physician:	dr. madiba	•	Comments
			-

- 2. In the **Patient ID** field, enter the ID under which the patient file is managed in your PDMS.
- 3. Click on **import**. The patient data are imported.



# 6. MEDICAL BASIS

This section briefly describes the content of the preset evaluation modules in this **seca 115** PC software, together with their medical objectives. The references on which the evaluations are based will also be introduced.

For additional information, we refer you to the appropriate professional literature.

# 6.1 Evaluation modules

The evaluation modules described below are preset in this **seca 115** PC software and will assist you in assessing your patients' state of health.

For information about how to access the evaluation modules and navigate within them, see "Assessing the examination results" from page 40.

The following evaluation modules can be considered if weight, height, PAL and waist circumference are available for a patient.

- Cardiometabolic risk
- Development/growth
- Energy

The following evaluation modules can be considered in addition if data from a bioimpedance analysis are available for the patient:

- Function/rehabilitation
- Fluid
- Health risk
- Raw data for impedance

The following evaluation modules can also be considered if data from a vital signs measurement (seca mVSA 535 or manual) are available:

Vital signs

Vital signs (seca mVSA 535 only) This module shows the vital signs determined with a seca mVSA 535.

# NOTE:

Individual parameters may not appear depending on the device variant.

No weight, height, PAL, waist circumference or bioimpedance analysis are required for this module. The following parameters are displayed:

- Blood Pressure
- Pulse Rate
- SpO<sub>2</sub> (oxygen saturation)
- Body Temperature

# English

S seca analytics 115 -		×
File Edit Extras ?	doc1 [Doctor]	Log out
Patient file		seca
measure import print save	e close	
Primipp Prenziow         O         01.04.19/8         / Caucasian           Weight:         109.10 kg         Height:         1.650 m         BMI:         40.07 kg/m²	11.28.2016 10:26 AM	
patient data medical history laboratory data vital signs examination re	esults 🕗 🕗	
Vital signs     Examination results - manual input of 11.24.2016 03:33 PM     Vital signs		
Development / growth Blood pressure - Manual input	•	
Energy SYS 120 mmHg DIA 80 mmHg		
Function / rehabilitation MAP 100 mmHg		
Fluid Pulse rate - Manual input		
Health risk Source Unknown 65 bpm		
Cardiometabolic risk		
Raw data for impedance		
All measurements   SpOx - Manual input	•	
Measurements		
☑     11242016 <sup>4</sup> □     11242016 <sup>4</sup>		
37.0 °C		

Detail views are available for the following parameters:

## **Detail view, Blood Pressure**



# Detail view, Pulse Rate



# Detail view, SpO<sub>2</sub> (oxygen saturation)



# Detail view, Body Temperature



# **Cardiometabolic risk**

This module indicates whether metabolic syndrome is present and the level of the 10-year risk for coronary heart disease.

# NOTE:

The **Cardiometabolic risk** module is only available if a seca patient file has been created for a patient and the laboratory data and waist circumference have been entered no later than the day weight and height were measured (see "Entering laboratory data" on page 33).

No bioimpedance analysis is required for this module. The following parameters are displayed:

- Body Mass Index (BMI)
- Visceral Adipose Tissue (VAT)
- Metabolic Syndrome (MSX)
- 10- year Risk of Coronary Heart Disease

ile Edit Extras ?		doc1 [Doctor]	Log
	Patient file		se
	measure import	print save close	
Weight: 109.10 kg Height:	1.650 m BMI: 40.07 kg/m*	04.11.2016 11:33	
patient data	medical history laboratory data vital signs	examination results 🤇	
Vital signs	Results of examination dated 24.09.2012 15:40	BIA, standing	
Development / growth	Body Mass Index	•	
Energy	24.93 kg/m² 24.9	er obesity	
Function / rehabilitation		J	
Fluid	Visceral Adipose Tissue (VAT)	•	
Cardiometabolic risk	3.31	3.3	
Raw data for impedance		]	
Measurements while stane	Metabolic Syndrome Calculation not possible due to lack of data.		
Measurements			
23.09.2012 <sup>1</sup>			
22.092012 <sup>1</sup> 21.092012 <sup>1</sup> 20.092012 <sup>1</sup>	10- year risk of coronary heart disease Calculation not possible.		
13.09.2012			
		)	)

Detail views are available for the following parameters:

# Detail view, body mass index



# Detail view, visceral adipose tissue (VAT)



## Detail view, metabolic syndrome

Risk factor	Limit value	Result	Unit	Specific treatment	Date
Waist Circumference	>=94.0	100.0	cm		24.09.2012
Triglycerides	>=150	111	mg/dl	no	24.09.2012
HDL cholesterol	<40	111	mg/dl	no	24.09.2012
Blood pressure	>=130 / >=85	111 / 80	mmHg	no	24.09.2012
Fasting blood sugar	>=100	111	mg/dl		24.09.2012
Type 2 diabetes		no			24.09.2012

# Detail view, 10-year risk of coronary heart disease for the age group 30-74 years

sk of coronary hea	art disease			
	25 9	6		
<	14 % > 14 %		30 %	
	low normal		high	
Risk factor	Result	Unit	Date	Points
Gender	male	-	12.07.2012	-
Age	70	Years	12.07.2012	7
Total choleste	rol 200	mg/dl	12.07.2012	1
HDL cholester	ol 200	mg/dl	12.07.2012	-2
Blood pressur	e 200/100	mmHg	12.07.2012	3
Diabetes	no	-	12.07.2012	0
Smoker	no	-	12.07.2012	0
Total points				9

# Development/growth

This module indicates both the weight and height of a person and automatically calculates the BMI. This allows weight changes to be monitored in both children and adults.

In children, this module assists with regular checks to assess growth and development.

No bioimpedance analysis is required for this module. The following parameters are displayed:

- Weight
- Height
- Body Mass Index (BMI)

S seca analytics 115		x
File Edit Extras ?	doc1 [Doctor] L	Log out
	Patient file S	seca
	measure import print save close	
Phillipp Prenziow	0 01.04.1978 7 Caucasian 04.11.2016	
Weight: 109.10 kg Heigh	t 1.650 m EMI: 40.07 kg/m*	
patient data	medical history laboratory data vital signs examination results	
Vital signs	Results of examination dated 13.07.2012 14:16 BIA, standing	
<ul> <li>Development / growth</li> </ul>	Weight	
Energy	100.00 kg	
Function / rehabilitation		
Fluid		
Health risk	180.0 cm	
Cardiometabolic risk		
Raw data for impedance		
All measurements	Body Mass Index (a)	
Measurements	30.86 kg/m² 30.9	
17.07.2012 <sup>1</sup>	Cheight height height	
□ 16.07.2012 <sup>1</sup>		
□ 15.07.2012 <sup>1</sup>		
12.07.2012		
1		

A detail view is available for the BMI:

DUU y wass muex		
	Height	1.860 m
23.1	Weight	80.00 kg
20.1	BMI	23.12 kg/m²
under- normal over- weight weight weight obesity		
18.5 25.0 30.0		
		WHO 2

**Energy** The aim of this module is to determine a person's energy expenditure and energy reserves. The following parameters are displayed:

- Fat Mass (FM)
- Energy stored in body (E<sub>body</sub>)
- Total Energy Expenditure (TEE)
- Resting Energy Expenditure (REE)

The parameter resting energy expenditure (REE) is available without bioimpedance analysis. REE is determined with the aid of the parameters height and weight, and with the aid of automatic BMI calculation.

For all other parameters in this module, a bioimpedance analysis is required in addition to height and weight.

eca analytics 115		×
le Edit Extras ?	doc1 [Doctor]	Log out
	Patient file	sec
Dhilling Descalary	A measure import print save close	
Mainter 109 10 km Haint	0 01.04.11976 / Caucasan 04.11.2016 + 1.650 m SNI: 40.07 kabr? 1140	
patient data	medical history laboratory data vital signs examination results	,
Vital signs	Results of examination dated 13.07.2012 14:16 to 15.07.2012 14:15 BIA standing [therapy plan]	1
Development / growth	Fat Mass Index in kg/m²	
<ul> <li>Energy</li> </ul>	No calculation possible. Please perform bioimpedance measurement.	
Function / rehabilitation		
Fluid		
Health risk	Energy stored in body in MJ Calculation not possible.	
Cardiometabolic risk		
Raw data for impedance		
All measurements	Total Energy Expenditure in MJ/ day	
Measurements	8.23 MJ/ day 1968 kcal/ day	
□ 17.07.2012 <sup>1</sup>		
□       15.07.2012 1         □       14.07.2012 1         □       13.07.2012 1         □       12.07.2012 1	Resting Energy Expenditure in MJ/day 8.23 MJ/day 1968 kcal/day	

A detail view and a therapy planner are available for this module:

#### Fat Mass



#### Therapy tool

The **Energy** module serves as a basis for dietary advice. The therapy planner of the module assists you in this. You can use the therapy planner to specify the following values:

- treatment objective: weight or BMI
- duration of treatment in days

From these values, the planner calculates recommended daily energy intake.

Therapy goal:	25	BMI in kg/m <sup>2</sup> 🔻
Duration of therapy in days:	60	
Recommended Energy Intake in [kcal/day]:	3655	

No detail views are available in this module.

#### **Function/rehabilitation**

This module is for determining a person's level of fitness. This allows the success of a training regime to be assessed.

The parameters height and weight, as well as a bioimpedance analysis, are required for this module. The following parameters are displayed:

- Fat-Free Mass (FFM)
- Fat Mass (FM)
- Body Composition Chart (BCC)
- Skeletal Muscle Mass (SMM)

le Edit Extras ?		doc1 [Doctor]	Log
	Patient file		S
Phillipp Propzlow	A 01.01.1978 / Causacian measure import print	save close	
Weight: 109.10 kg Heigh	tt: 1.650 m BMI: 40.07 kg/m²	04.11.2016 11:42	J.
patient data	medical history laboratory data vital signs e	xamination results 🔵 🕗	
Vital signs	Results of examination dated 24.09.2012 15:40	BIA, standing	
Development / growth Energy Eunction / rehabilitation	Fat-Free Mass         19.7           FFM         71.25 kg         19.7           FFM%         79.2 %         ************************************		
Huid Health risk Cardiometabolic risk	Fat Mass         5.2           FM         18.75 kg         5.2           FM%         20.8 %		
All measurements           All measurements           Xeasurements           Xeasurements           Xeasurements           Xeasurements	Body Composition Chart           FFMI         19.7 kg/m²           FMI         5.2 kg/m²	EMI)	
<ul> <li>22.09.2012<sup>1</sup></li> <li>21.09.2012<sup>1</sup></li> <li>20.09.2012<sup>1</sup></li> <li>19.09.2012<sup>1</sup></li> </ul>	Skeletal Muscle Mass           SMM         38.5 kg           SMM%         42.8 %		

The following detail views are available for this module:









## Skeletal muscle mass



For this parameter, you can have the following additional information displayed for each part of the body:

- Skeletal Muscle Mass (SMM) in kg
- Skeletal Muscle Mass (SMM) in %
- height and gender as a reference for the limit values used
- 1. Click on the drop-down menu
  - The drop-down menu opens.



2. Click on the desired part of the body.



The additional information for the selected part of the body is displayed.

Body Composition Chart (mass indices)



Fluid This module allows a person's fluids status to be determined.

The parameters height and weight, as well as a bioimpedance analysis, are required for this module. The following parameters are displayed:

- Total Body Water (TBW)
- Extracellular Water (ECW)
- ECW/TBW ratio
- Bioelectric Impedance Vector Analysis (BIVA)

S seca analytics 115			- X
File Edit Extras ?		doc1 [Doctor]	Log out
	Patient file		seca
Dhilling Progalow	measure import print save	close	
Weight: 109.10 kg Height	: 1.650 m BMI: 40.07 kg/m²	04.11.2016 11:43	
patient data	medical history laboratory data vital signs examination result		
Vital signs	Results of examination dated 24.09.2012 15:40 BIA, standing		
Development / growth	Total Body Water	-	
Energy	51.21 56.5 %		
Function / rehabilitation	( low hgs)		
Fluid	L		
Health risk	Extracellular Water 17.7 17.7	-	
Cardiometabolic risk	19.5 %		
Raw data for impedance			
All measurements	ЕСW/ТВW	•	
Measurements	17.71 51.21		
≥ 24.09.2012 <sup>1</sup>	34.5 %		
23.09.2012 <sup>1</sup>			
22.09.2012	Bioelectrical Impedance Vector Analysis	-	
20.09.2012 <sup>1</sup>	R (50 kHz) 705.8 Ω		
□ 19.09.2012 <sup>1</sup>	Z (60 MHZ) 114.0 L1		
			1

The following detail view is available for this module:

## **Total Body Water**



# Extracellular Water



# ECW/TBW ratio



#### **Bioimpedance vector analysis**



**Health risk** The aim of this module is to provide an overview of body composition and to compare the results with values for healthy people. A body composition which deviates from the normal range is an indicator which can be used to assess the risk to health. The goal is to determine the general state of health or, in the case of a previously known disease, assess its severity.

The parameters height and weight, as well as a bioimpedance analysis, are required for this module. The following parameters are displayed:

- Phase Angle (φ) (Phasenwinkel)
- Visceral Adipose Tissue (VAT)
- Bioelectric Impedance Vector Analysis (BIVA)
- Body Composition Chart (BCC)

lo Edit Extras 2		doot (Posted Line
e Eult Extras 7	Patient file	Se
Phillipp Prenzlow ( Weight: 109.10 kg Height	o 01 04 1978 / Caucasian measure inv : 1.650 m EMI: 40.07 kg/m²	port print save close 04.11.2016 11.43
patient data	medical history laboratory data vital signs	examination results 🕗
Vital signs	Results of examination dated 24.09.2012 15:40	BIA, standing
Development / growth Energy Function / rehabilitation	Phase Angle (p) 9.2 *	Age (years)
Fluid Health risk Cardiometabolic risk	Visceral Adipose Tissue (VAT) 3.31	3.3 VOLUMI 1129
Raw data for impedance All measurements Measurements 24.09.2012 <sup>1</sup> 23.09.2012 <sup>1</sup>	Bioelectrical Impedance Vector Analysis           R (60 kHz)         705.8 Ω           Xc (50 kHz)         114.0 Ω	Z (Xz/H) Z (R/H) Z (R/H)
<ul> <li>22.092012 <sup>1</sup></li> <li>21.092012 <sup>1</sup></li> <li>20.092012 <sup>1</sup></li> <li>19.092012 <sup>1</sup></li> </ul>	Body Composition Chart           FFMI         19.7 kg/m²           FMI         5.2 kg/m²	2 (FM) 2 (FFM)

The following detail views are available for this module:

#### Phase Angle



## Visceral Adipose Tissue



### **Bioelectric Impedance Vector Analysis**



## Body Composition Chart (mass indices)



# Raw data for impedance

This module shows detailed raw data for resistance (R), reactance (X<sub>c</sub>), impedance (Z) and phase angle ( $\phi$ ) for information purposes.

You can also view impedance (Z), reactance (X\_c), resistance (R) and phase angle  $(\phi)$  for individual parts of the body and frequencies.



#### Selecting the part of the body



1. Click on the drop-down menu to select the part of the body.

The drop-down menu opens.

- 2. Click on the desired part of the body.
- 3. The values for the selected part of the body are displayed.

# Selecting frequency

1. Click on the drop-down menu to select the frequency.



The drop-down menu opens.

2. Click on the desired frequency.

# NOTE:

If the **Raw data for impedance** module on the mBCA was not activated, only four frequencies will be available to choose from.

3. The values for the selected frequency are displayed.

# 6.2 References

Bioimpedance analysis using a seca medical Body Composition Analyzer is scientifically based on clinical studies. The results of the clinical studies are stored as references in the seca mBCA and in the **seca 115** PC software and form the basis for assessing your patients' state of health

For some evaluation parameters (e.g. waist circumference for children), the reference used depends on the patient's ethnicity. The device automatically uses ethnicity-dependent references to suit the corresponding entry in the seca patient file (see "Creating a new seca patient file" on page 25).

Which references you use depends on the country in which you are operating, the regulations applying in your institution and your personal preferences.

For information about how to set the references in this **seca 115** PC software, see "Changing references" from page 14.

The evaluation module in question indicates which clinical study is being used as a reference for determining and assessing an evaluation parameter, e.g. "Peine et al. 2013".



Details about the clinical studies referenced can be found on our website www.seca.com.

# 7. TECHNICAL INFORMATION

# 7.1 Technical modifications

	seca 115 PC software, Version 1.4 from Build 560
Downward- compatible?	No
Compatible devices:	<ul> <li>seca mBCA 525 (lying measurements): software Version 1.0 from Build 600</li> <li>seca mBCA 515/514 (standing measurements): software Version 1.1 from Build 550</li> <li>seca mVSA 535 (vital signs measurement): software Version 1.0 from Build 600</li> <li>seca 360° wireless measuring devices: unrestricted (not compatible: seca wireless printer)</li> </ul>
seca patient database	Existing seca patient database is adopted in the current version of the PC software; no further access is then possible using older versions of the PC software
New	<ul> <li>Vital signs module <ul> <li>Evaluation of vital signs measurement using seca mVSA</li> <li>Vital signs measured results shown in analogy to other measured results</li> <li>Vital signs measured results printed out in analogy to other measured results</li> </ul> </li> <li>Select printer for mBCA function renamed Select printer for seca mBCA and seca mVSA</li> <li>Data connection to seca mVSA 535 with automatic synchronization</li> <li>Network connection for seca mBCA 525 and seca mVSA 535 possible via WiFi</li> </ul>
Modified	<ul> <li>Results graphs shown in percent: Fat-free mass index (FMI), skeletal muscle mass (SMM)</li> <li>Blood pressure values moved from laboratory data tab to Vital signs tab</li> <li>examination results tab         <ul> <li>Measurements window: Filter by lying BIA measurement, standing BIA measurement, lying BIA measurement with vital signs, vital signs</li> </ul> </li> </ul>

Downward- compatible?	No
Compatible devices:	<ul> <li>seca mBCA 525 (lying measurements): software Version 1.0</li> <li>seca mBCA 515/514 (standing measurements): software Version 1.1 from Build 293</li> <li>seca 360° wireless measuring devices: unrestricted (not compatible: seca wireless printer)</li> </ul>
seca patient database	Existing seca patient database is adopted in the current version of the PC software; no further access is then possible using older versions of the PC software
New	<ul> <li>Extras\Printouts tab</li> <li>Configurable printout of measured results</li> <li>Individual selection of measured results for progression graphs possible</li> <li>Extras\Patient texts tab</li> <li>Configurable patient texts</li> </ul>
Modified	<ul> <li>Optimized representation of results graphs: Fat-free mass (FFM), fat mass (FM), body mass index (BMI), body composition chart (BCC), skeletal muscle mass (SMM)</li> <li>Hydration (HYD) parameter changed to extracellular water (ECW)/total body water (TBW)</li> </ul>

seca 115 PC software, Version 1.4 from Build 381				
Downward- compatible?	No			
Compatible devices:	<ul> <li>seca mBCA 525 (lying measurements): software Version 1.0</li> <li>seca mBCA 515/514 (standing measurements): software Version 1.1 from Build 271</li> <li>seca 360° wireless measuring devices: unrestricted (not compatible: seca wireless printer)</li> </ul>			
seca patient database	Existing seca patient database is adopted in the current version of the PC software; no further access is then possible using older versions of the PC software			

seca 115 PC software, Version 1.4 from Build 381					
New	<ul> <li>examination results tab         <ul> <li>Measurements window: Lying measurements are marked "*"</li> <li>examination results window: History of lying measurements is marked "Lying measurements only"</li> <li>Mixed history (lying and standing measurements) not possible</li> </ul> </li> <li>For data connection to seca mBCA 525         <ul> <li>In the Extras\Settings menu (login: admin) Synchronization section added: automatic synchronization of seca patient files and user accounts             <ul> <li>Automatic synchronization not available for seca mBCA 525, unchanged for seca mBCA 515/514</li> </ul> </li> </ul> </li> </ul>				
Modified	Name of Extras\Wireless configuration menu entry (login: admin) changed to: Extras\seca 360° configuration				

Combination of seca mBCA seca 515/514 (SW version 1.1) and seca 115 (SW version 1.4)				
Downward- compatible?	No			
seca patient database	Existing seca patient database is adopted in the current version of the PC software; no further access is then possible using older versions of the PC software			
New	<ul> <li>Regional settings: "Name format" drop-down menu</li> <li>Enter waist circumference with "Health risk" evaluation module activated (seca mBCA only)</li> <li>Visceral fat (VAT) parameter in the "Health risk" evaluation module</li> <li>Skeletal muscle mass (SMM) parameter in the "Function/rehabilitation" evaluation module</li> <li>In evaluation modules: comments function for every evaluation parameter</li> <li>Send individual secaseca patient file from the seca 115 PC software to a seca mBCA</li> <li>Initiate a printout of results reports directly on the seca mBCA</li> </ul>			
Modified	Graphical representation: phase angle ( $\phi$ ), bioimpedance vector analysis (BIVA), body composition chart (BCC), total body water (TBW)			
No longer applicable	Lean soft tissue mass (LST) parameter in the "Function/rehabilitation" evaluation module			

# 7.2 Display of weight values

The **seca 115** PC software displays the weight values it receives only in the unit set in the PC software. If the setting on the transmitting device is different, the weight values will be converted automatically. Details are in the table below.

seca 115 PC	seca device setting	seca 115 display		
software setting		Weight ≤ 20 kg	Weight > 20 kg	
	kg			
kg	lbs	kkk.ggg	kkk.gg	
	sts			
	-	kkk.gg <sup>1)</sup>		
lbs	kg			
	lbs	ppp:oo.o	ppp.p	
	sts			
	-	ppp.p <sup>1)</sup>		
sts	kg			
	lbs	s:pp:oo.o ss:pp.p		
	sts			
	-	ss:pp.p <sup>1)</sup>		

<sup>1)</sup> Manual entry of measured values directly in the PC software **seca 115** 

# 8. WARRANTY

Please note that this PC software is subject to restrictions on the warranty which may arise in conjunction with the license, for example. The warranty restrictions can be called up at www.seca.com.

# 9. DECLARATION OF CONFORMITY

seca gmbh & co. kg hereby declares that the product meets the terms of the applicable European directives. The unabridged declaration of conformity can be found at: www.seca.com.

# Medical Measuring Systems and Scales since 1840

seca gmbh & co. kg Hammer Steindamm 3–25 22089 Hamburg • Germany Telephone +49 40 20 00 00 0 Fax +49 40 20 00 00 50 info@seca.com

# seca operates worldwide with headquarters in Germany and branches in:

- seca france
- seca united kingdom
- seca north america
- seca schweiz
- seca zhong guo
- seca nihon
- seca mexico
- **seca** austria
- **seca** polska
- seca middle east
- seca brasil
- seca suomi
- seca américa latina

and with exclusive partners in more than 110 countries.

All contact data under www.seca.com

Seca Precision for health