

seca | mBCA

phase angle
intracellular water
fat-free mass
fat mass
total body water
extracellular water
lean soft tissue
muscle mass
weight



Where BMI ends, seca
the unique diagnostic
and medical practices.



mBCA begins – instrument for hospitals

Doctors know that the Body Mass Index (BMI) alone is not enough for extensive analysis of a patient's health status and body composition.

In light of the new epidemics such as obesity, malnutrition, diabetes and metabolic syndrome, it no longer suffices to measure only weight and height. These measures are used to calculate a frequently faulty index for the assessment of a patient's weight.

What about contents of fat, muscle, or water? All of which are important indicators of deadly diseases.

This challenge gave seca enough reason to develop a device to measure body composition (Body Composition Analyzer, which we will refer to as "BCA"). The first and only device in the world that delivers all values and has been correlated and validated against the medical science gold standard. Therefore the name seca mBCA, "m" standing for medical, gives a decisive advantage for doctors.

For the first time ever, a single measurement can be taken in less than 20 seconds to determine fat mass, extracellular and intracellular water, and skeletal muscle mass. All of which are fundamental components that assist in accurately assessing the patient with medical precision. With a simple, user friendly medical device that can be seamlessly integrated into your daily routine.

A valuable diagnostic instrument and innovative device, that delivers precise benefits to your patients.



Robert M. Vogel
CEO Sales & Marketing



Frederik Vogel
CEO Development & Manufacturing



Thomas Wessels
CEO Finance & Services



ARTERIES OF THE ABDOMEN, PELVIS, AND LOWER EXTREMITY

EASTMAN KODAK COMPANY Radiography Markets Division ROCHESTER, N.Y. 14600



Contents

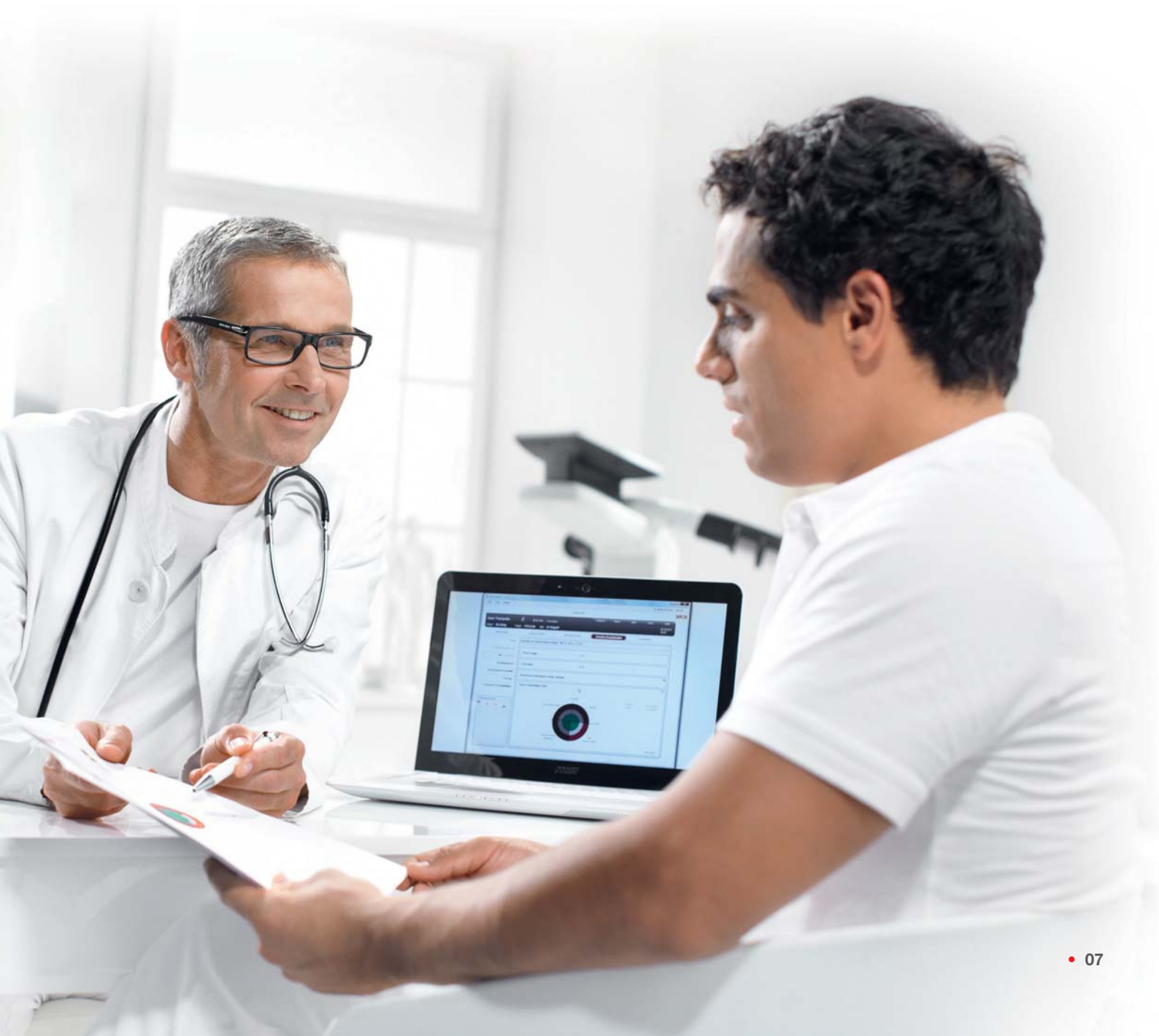
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The first mBCA device because it is precise and for medical use.

With five decisive advantages for medicine

- 1** Starting now, you can assess the general health and nutritional status of your patients better, faster and more precisely than ever before.
- 2** A brief examination of less than 20 seconds is enough
- 3** To receive early indicators of many diseases
- 4** And to closer monitor the course of therapy.
- 5** All that with the first medical BCA device in the world that can conduct measurements with medical precision.

reliable enough





Clinically validated results. Only for seca mBCA.

Clinically validated, medically precise, and medically relevant. seca is the only manufacturer in the world that has compared its measurement results from the seca mBCA with those of the scientific gold standard in clinical studies. It is clear that the seca mBCA not only promises to but also fulfills medical requirements.

Clinical validation

Validated against the gold standard

Ethnic differences

Definition of normal ranges

Abnormal body composition

The only measurement that can measure itself against the gold standard.

Only the seca mBCA compares fat mass (FM) and fat-free mass (FFM) with the gold standard, which is a combination of four labor-intensive comparative methods (ADP*, D₂O*, DEXA* and weight). Furthermore, seca compared extracellular water with the NaBr* method. The results are clear: In contrast to many other BCA measurement devices on the market, the seca mBCA delivers measurements that are nearly as precise as the immensely complicated scientific methods.

***ADP:** Air-Displacement Plethysmography

D₂O: Deuterium Dilution

DEXA: Dual-Energy X-Ray Absorptiometry

NaBr: Sodium Bromide Dilution

The only measurement that takes ethnic differences into account.

In the validation of the seca mBCA four major ethnicities were considered: Caucasian, South and Central American, Afro-American, and Asian.

Abnormal body composition.

Even abnormal body composition was considered in the validation of the seca mBCA. In contrast to most other BCA devices, which were validated only for healthy patients.



Four clinical studies

placed measurements of the seca mBCA at a clinical level.

Only the BIA measurement by the seca mBCA is validated by four clinical studies! The following served as the scientific basis for the development and validation of the device's analytical formulas:



Prof. Dr. Manfred J. Müller, Director of Human Nutrition Department, Institute of Human Nutrition and Food Science, Christian-Albrechts-University, Kiel, Germany

Study 1:

Generation of predictive formulas for the analysis of body composition of adults with the help of Bioelectrical Impedance Analysis (BIA).

In the first study on formula generation, a representative population was measured with a seca mBCA. The results were then compared to the gold standard methods of ADP, DEXA and the dilution techniques. The comparison yielded an exact correlation formula, which was embedded in the software of the seca mBCA.

Study 2:

Adaptation of device-specific body composition formulas to different ethnicities.

In the study on formula expansion (ethnicity adaptation) a representative group of subjects was measured and, as in the study on formula generation, compared with the identical gold standard methods. The subject population was made up of Caucasians, South and Central Americans, Afro-Americans and Asians. The objective of the study was to expand the formulas generated in the first study by adding the ethnicity factor. As a result of this work, the seca mBCA can take into account ethnic differences in its measurements. The relevant ethnicity can be selected on the device.



Prof. Dr. Dympha Gallagher, Director of Body Composition Unit, New York Obesity and Nutrition Research Center, St. Luke's-Roosevelt Hospital, New York, USA.



Dr. Sven Peine, Director of Transfusion Medicine Department, Center for Diagnostics, University Medical Center Eppendorf, Hamburg, Germany

Study 3:

Generation of normal ranges for body composition analysis of adults with the help of BIA.

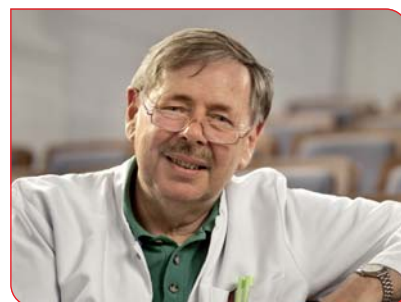
In the study to validate normal ranges, measurements were made of several subjects who were classified in equal proportions according to age, BMI and gender. The objective of this study was to establish normal ranges as the data set for the software and the six analysis modules of the seca mBCA.

Study 4:

Identification of patients with abnormal body water levels with the help of BIA.

Before the device could be used to examine ill patients, this point had to be validated by a clinical study. Proof was provided with the help of dialysis patients. Water was simply a sample component; fat mass or skeletal muscle mass (SMM) could also be considered.

Through determination of total body water (TBW) and extracellular water (ECW) by means of reference measurement methods and BIA measurements made before and after dialysis, it was demonstrated that patients are always correctly identified as ill prior to dialysis and as healthy after dialysis.



Prof. Dr. Hans-H. Neumayer, Director of Medical Clinic with specialization in Nephrology, Charité, Berlin, Germany

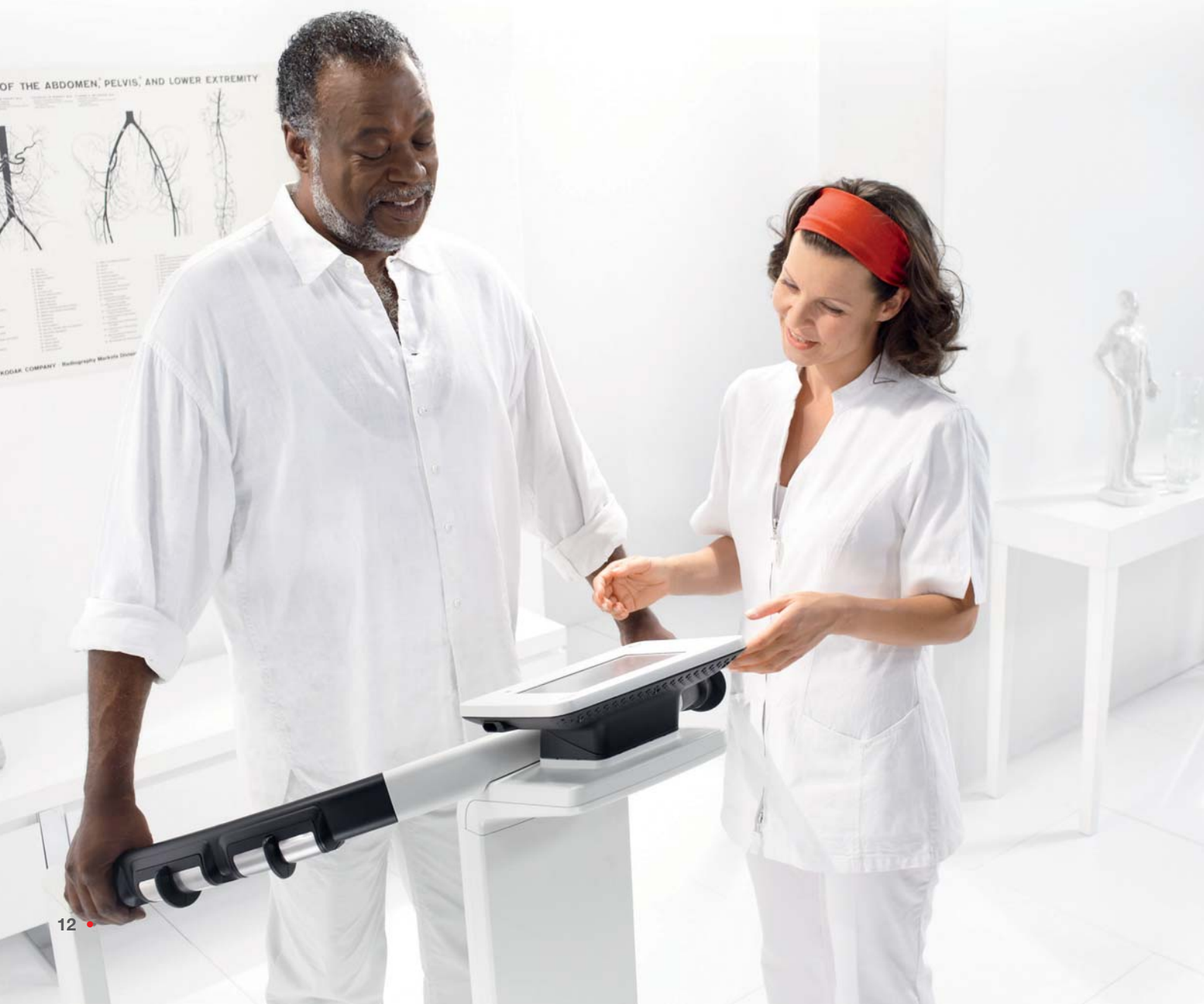


Dr. Torsten Slowinski, Head of Dialysis Division, Medical Clinic with specialization in Nephrology, Charité, Berlin, Germany

BCA technology from seca

knows what the
doctor wants.

Who knows the needs of the medical field inside and out? Who knows what is needed for a better, faster and more accurate diagnosis? Who, if not seca! After all, we are the world's market leader in medical measuring and weighing, the only brand in this field that works exclusively for medical care. We are doing this for more than 170 years, relying on our unique experience in measuring and weighing as well as our know-how about the ways of working in medical practices and hospitals.



The seca mBCA breaks down weight into several compartments which are highly relevant in medical care, namely, fat mass (FM) and fat-free mass (FFM), total body water (TBW), extracellular water (ECW), skeletal muscle mass (SMM) and lean soft tissue (LST). This differentiation makes the seca mBCA the world's only device that distinguishes TBW from ECW and measures SMM across LST. And it sets even more standards:

seca mBCA technology

Differentiation in fat mass and fat-free mass, water and muscle

High reproducibility

Multi-frequency measurement

Seven segments

Low-intensity current

More frequencies.

The seca mBCA measures in many more frequencies than other BCA devices. To be precise, 19 in scientific mode: 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300, 500, 750, 1,000 kHz.

High reproducibility of results.

The results from the seca mBCA are distinguished by their high reproducibility and unequaled high medical precision. One reason for this is the unique standing aid, which guarantees that the patient's arms are always held at the same angle to the body. Another cause can be found in the hand-held electrodes, which, unlike adhesive electrodes, are always in the same position.

Measurements from seven segments.

Another important advantage is that the seca mBCA can measure more segments of a standing patient than other BCA devices (seven instead of five): arms, legs, left, and right sides of the body and trunk. And more segments than devices developed for lying measurements as these often only measure one-half of the patient and then simply double the result.

Low-intensity current.

Low-intensity electrical current of only 100µA is enough for a measurement made with the seca mBCA. When the intensity of the electric current is low, then the risk to the patient from undesirable electrical stimulation of the heart is also low. That too, distinguishes the seca mBCA from many other devices, some of which work with significantly higher amperes.

The seca mBCA self-test.

The seca mBCA conducts a self-test after each new start, a feature hardly any other BCA device has. It guarantees that the device works with 100% accuracy for every measurement.




The standing aid with hand-held electrodes for highest degree of result reproducibility.

Simplified work, quick measurement and medically relevant that is the seca mBCA 514*.



The seca mBCA 514 is the first medical Body Composition Analyzer which is ideally adapted to the working conditions in hospitals and medical practices. In order to obtain a truly meaningful BIA measurement, we need to look beyond the many technical requirements. For one thing, the device has to be quick and easy to use for both medical staff and patients. For another, the measurement results have to be reproducible under normal clinical working conditions. These exact considerations went into the development of the seca mBCA 514.

*also available in calibration class  as seca mBCA 515

results –



04

.....○
Simple, fast and user-friendly: The intuitive user navigation permits operation of the seca mBCA 514 without hours of training.

.....○
Always accurate results:
The hand-held electrodes on the standing aid prevent measurement errors and ensure reproducible results at all times.



○.....
Simply wireless: Data and measurements are quickly transmitted wirelessly to any Electronic Medical Record (EMR) system.

○.....
Large and turnable:
With the integrated touch-screen display, patient data can be entered, the progress of the measurement can be monitored and results can be conveniently analyzed from many different perspectives.

○.....
Always in the right position: The unique standing aid guarantees that the patient is always in the same measurement position.

○.....
Ergonomic and user-friendly: The large easy-access weighing platform accommodates patients who weigh up to 300 kg. Made of safety glass, the platform can be cleaned quickly and easily.

Standing aid with hand-held electrodes for precise results.

No other BCA has hand-held electrodes in a standing aid. This combination is important as it prevents faulty measurements and ensures result reproducibility. When the patient always grasps the electrodes in the same way, the angle of the arms to the body is unchanged for every measurement. The handrail also

makes the measuring process easier for the patient, who is often overweight or ill and has trouble standing motionless without assistance.



For routine clinical work

Standing aid
Hand-held electrodes

seca 360° wireless
Short measurement time

Automatic electrode detection
Flexible storage concept

04

Automatic electrode detection.

The seca mBCA 514 makes a measurement only when all the electrodes have proper contact. This safeguard prevents faulty measurements and thus spares the patient from having to repeat the procedure. As the seca mBCA 514

shows when one of the eight electrodes is not working correctly, it is possible to intervene and correct the positions of the hands and feet before a measurement is taken.

The large and flat platform for accurate weighing of up to 300 kilograms.

No other BCA device has such a large and flat platform as the seca mBCA 514. Made of safety glass that is especially easy to clean. With an ergonomic and user-friendly design, the seca mBCA 514 allows easy access and, with a high weight capacity, accommodates heavy-weight patients of up to 300 kilograms.



Hand and foot positions have to be checked for correct contact with electrodes.



A red bar displays the measurement progress for patient and medical staff.



Short measurement time.

The faster a BIA measurement is made, the easier the process is for patient and medical staff. Speed is especially important because the patient should not move at all during the measuring process. Fortunately, a BIA measurement on the seca mBCA 514 takes less than 20 seconds.

Easy entry of patient data.

If a patient file is not already in the database, the required patient data can be entered via the large and turnable touch-screen monitor. The user can stand comfortably next to the device and turn the monitor toward the practitioner for data entry. Then the monitor can be turned back toward the patient so he can follow the progress of the measurement.

Flexible storage concept.

The measurement and analysis results from the seca mBCA 514 can be saved on a USB stick on the device or in the PC software seca analytics mBCA 115. Digital storage takes place on the PC or directly in the EMR system.

Simple user navigation.

The seca mBCA 514 has a graphic user interface to allow simple and intuitive operation. The design minimizes the amount of training required and makes it easy for the user to put all the device's functions to work.



The fast and easy integration in every EMR system.

With the PC software seca analytics mBCA 115, the seca mBCA 514 can be quickly and simply connected to any database via an HL7 or GDT standard interface. All patient records from the EMR system can be imported to the seca mBCA 514 and all measurement and analysis data can be exported from the seca mBCA 514 to the EMR system.

Wireless instead of cables with seca 360° wireless.

The seca mBCA 514 offers varied interface options for connection to the PC software seca analytics mBCA 115. They include the seca 360° wireless technology, Ethernet or USB stick. The seca 360° wireless function can also capture the patient's height wirelessly – providing the height is measured with a seca 360° wireless measuring rod.

Printout on thermal paper.

The measurement data can be transmitted directly from the seca mBCA 514 to a seca 360° wireless printer, by which a thermal paper printout is generated.



A seca 360° wireless printer allows the printout on thermal paper.



seca mBCA 514

Technical data

- Capacity: 300 kg
- Division: 50 g
- Dimensions (WxHxD):
976 x 1,251 x 828 mm
- Display type: 8.4" touch-screen display, can be rotated 360°
- Interfaces: seca 360° wireless, USB 2.0, Ethernet
- Measurement method: 8-point Bioelectrical Impedance Analysis
- Measurement current: 100 µA
- Measurement time, normal mode:
max. 20 seconds



Six times more from every measurement.

With the six modules in the
seca mBCA 514.

The six analytical modules of the new seca mBCA 514 offer the user innumerable diagnostic options. With precise ratios such as fat mass to weight or extracellular to intracellular water, the doctor can now obtain indications of medical disorders which were previously difficult to diagnose without additional examinations. Another significant advantage comes with the graphic presentation of measurement results, which visualizes the doctor's findings for the patient.

1. Energy

The module Energy provides data on the energy stores in the body not only in absolutes, but also as a relative value of fat mass to weight. It can also calculate the resting energy and total energy expenditure.



Results from the Energy module give a helpful summary of the patient's energy status.

2. Fluid

The Fluid module determines TBW and its makeup in terms of extracellular and intracellular water. If the relationship to each other is within the normal range, the patient is said to be healthy. If, however, the proportion of extracellular water is too high, that could represent that the patient is retaining water. With the help of raw data from the Bioelectrical Impedance Vector Analysis (BIVA), the patient's fluid status can be presented in easy-to-understand graphics.



The proportion of body water to total weight is important in the prevention, diagnosis and treatment of heart failure and liver disease.

Analysis with six modules

Energy
Fluid

Function/Rehabilitation
Health risk

Development/Growth
Raw impedance data

50

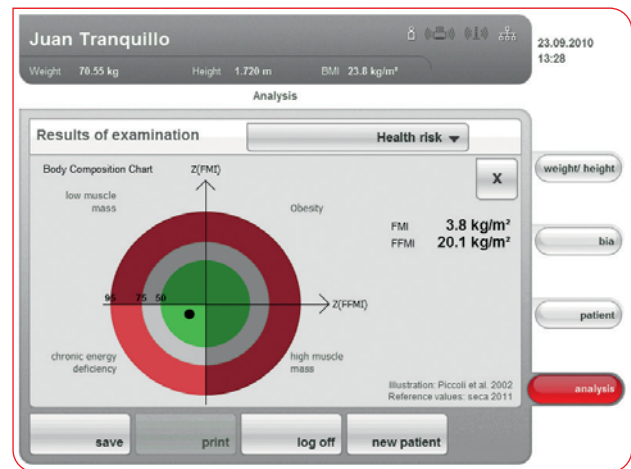


Module selection.

Decide for yourself which modules should be available to you. Then you can set up the seca mBCA 514 to exactly suit your medical specialty.

3. Function/Rehabilitation

The module Function/Rehabilitation ascertains the patient's level of fitness, metabolic activity and training progress in physiotherapy. The Body Composition Chart (BCC) developed by seca, which depicts the measurement points of the fat mass indices over a coordinate system, helps to determine body composition precisely.



The composition of body compartments and their assessment are important in the diagnosis and treatment of weight-related disorders such as obesity, malnutrition and metabolic syndrome.

4. Health risk

With the Health risk module, a prognosis can be made for the general health of the patient. The decisive factor is the phase angle, which permits conclusions to be drawn about the condition of the body's cells or the entire organism. The healthier the cells, the higher the phase angle, and vice versa. This evaluation of cell mass is shown in the BIVA. The module also determines fat mass index (FMI) and fat-free mass index (FFMI) and plots the measurement points in the BCC.



With considerable body cell mass and proportional water, the phase angle is high. The patient's condition is then said to be in the normal range.

5. Development/Growth

The module Development/Growth allows monitoring of changes in weight, as the patient's weight, height and BMI are graphically presented for each measurement.



With this module, the patient's BMI can be determined and compared to reference values.

6. Raw impedance data

The Raw impedance data module reports the results of the Bioelectrical Impedance Analysis in raw data form so that they can be used for clinical studies. The data includes impedance, phase angle, resistance, and reactance.



The modules at a glance

Energy

- Fat mass (FM/%FM)



- Energy stores in body
- Resting energy expenditure (REE)
- Total energy expenditure (TEE)

Health risk

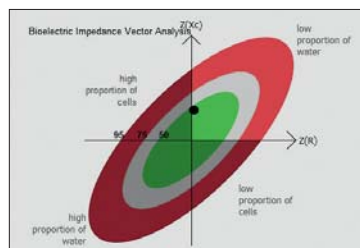
- Phase angle (ϕ)



- Hydration (HYD) = Extracellular water (ECW)/intracellular water (ICW)
- Bioelectrical Impedance Vector Analysis (BIVA)
- Fat mass indices (FFMI/FFMI)

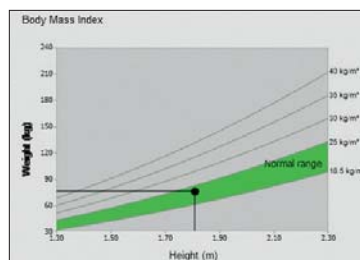
Fluid

- Total body water (TBW)
- Extracellular water (ECW)
- Hydration (HYD) = Extracellular water/intracellular water
- Bioelectrical Impedance Vector Analysis (BIVA)



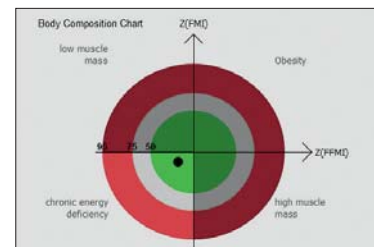
Development/Growth

- Weight (W)
- Height (H)
- Body Mass Index (BMI)



Function/Rehabilitation

- Fat-free mass (FFM)
- Fat mass (FM/%FM)
- Fat mass indices (FFMI/FFMI)



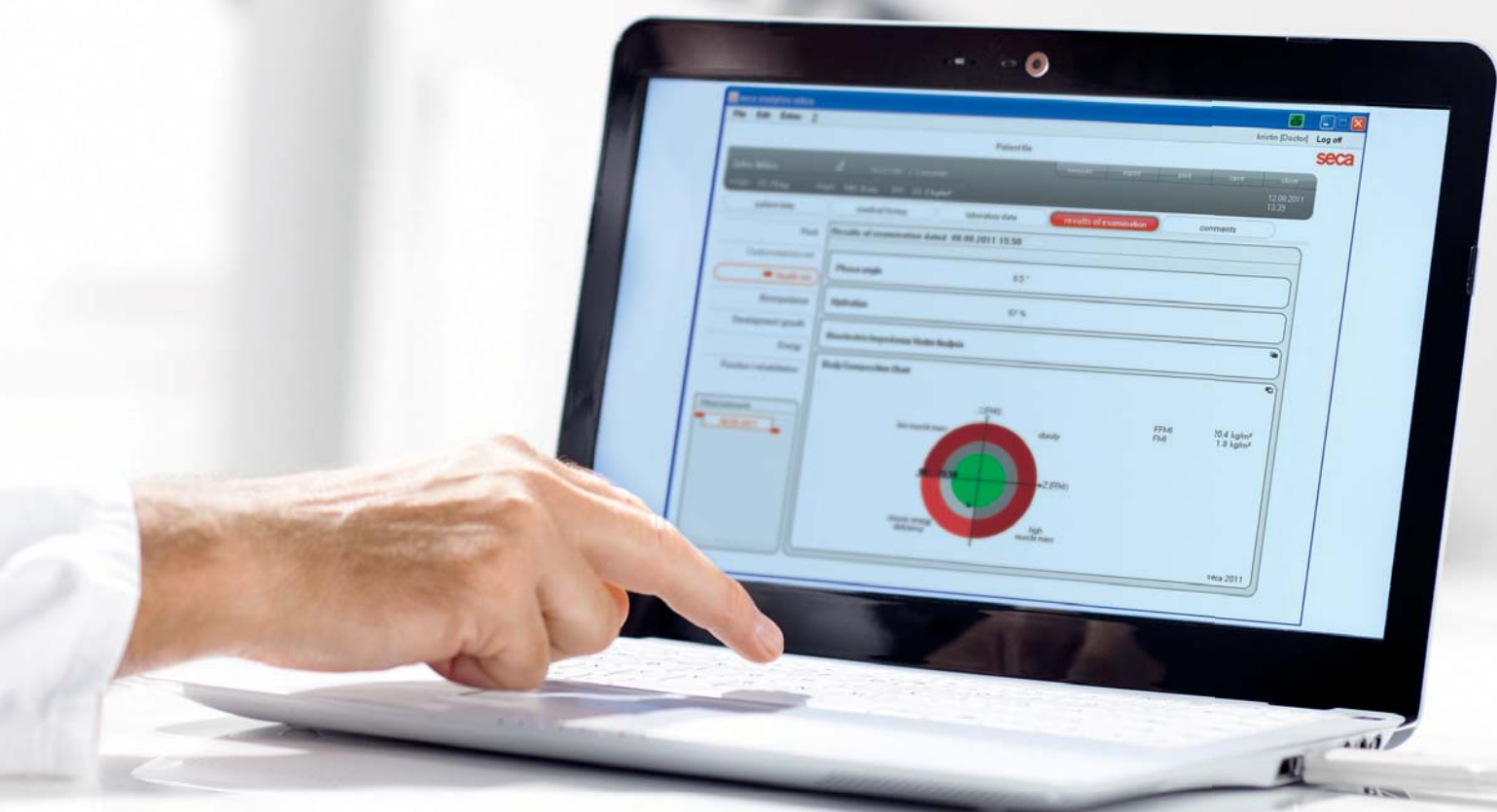
- Skeletal muscle mass (SMM)

Raw impedance data

- Impedance (Z)
- Phase angle (ϕ)
- Resistance (R)
- Reactance (Xc)

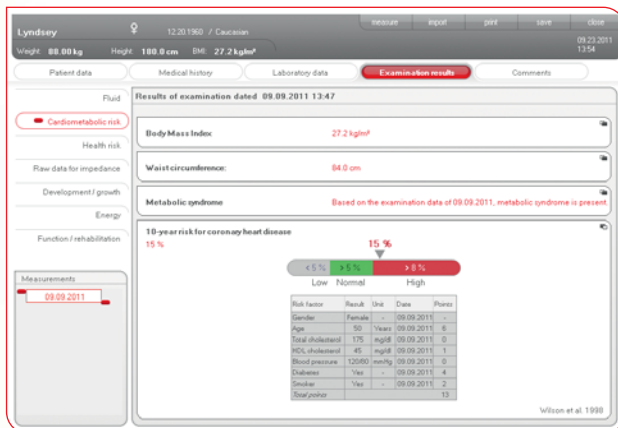
The PC software seca analytics mBCA 115 for expanded analysis.

The PC software seca analytics mBCA 115 does more than deliver the examination results from the seca mBCA to your PC. It offers some additional and significant advantages, such as a module to estimate the Cardiometabolic risk for heart patients and a therapy planner for the Energy module.



An additional module for Cardiometabolic risk

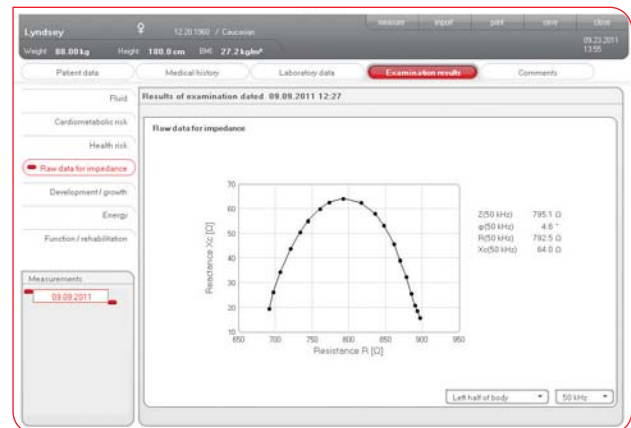
This module assesses whether a metabolic syndrome is present and estimates the risk of coronary heart disease. Risk scores are used to calculate the patient's risk as a percentage and to analyze risk factors for cardiovascular disease according a point evaluation system.



The module Cardiometabolic risk compares BMI and waist circumference to reference values, calculates the 10-year risk of coronary heart disease and checks whether a metabolic syndrome is present.

Detailed Raw impedance data for science and research

The PC software seca analytics mBCA 115 can present the Raw impedance data from the seca mBCA in a more differentiated form. The data provided includes impedance, phase angle, resistance, and reactance for the right half of the body and the left half, and separately for each body segment (arms, legs, left and right sides and trunk). The data yields very detailed examination results which are useful to scientists and researchers.



For those who want to know exactly the resistance and reactance for a particular body segment and the analysis of every measured frequency, the software presents the data graphically in a Cole-Cole plot.

Additional functions

Cardiometabolic risk
Patient database

Trend curves
Patient printout

EMR integrated
Therapy planner

But wait, seca analytics mBCA 115 can do even more!

Therapy planner in the Energy module.

As a supplement to the Energy module, the PC software seca analytics mBCA 115 ascertains the recommended caloric intake per day. This information can be used as a therapy planner to achieve a targeted weight or in the hospital to protect patients from malnutrition.

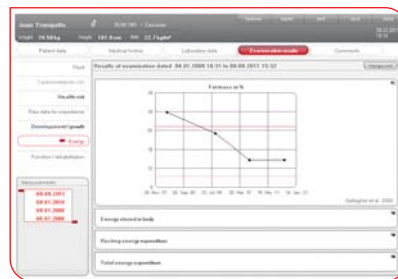


The screenshot shows a 'Therapy planner' window with the following fields: 'Treatment objective' set to 22, 'Duration of treatment in days' set to 120, and 'Recommended energy intake in kcal/day' set to 2350. There is a 'Save' button at the bottom right.

The assessment of resting and total energy expenditure is more important than ever, since more and more patients are suffering from malnutrition, overweight or obesity.

Trend curves.

Several measurements of a patient taken over a certain period and stored in seca analytics mBCA 115 can be depicted in a trend curve. For example, the graphics support the diagnosis of obesity in all age groups.



Trend curves document and monitor data such as the proportion of fat mass.

CSV export.

The results from one or more patients can be exported in an Excel file. This feature is particularly interesting for scientific purposes or further calculations.

Results conveniently displayed for your patients.

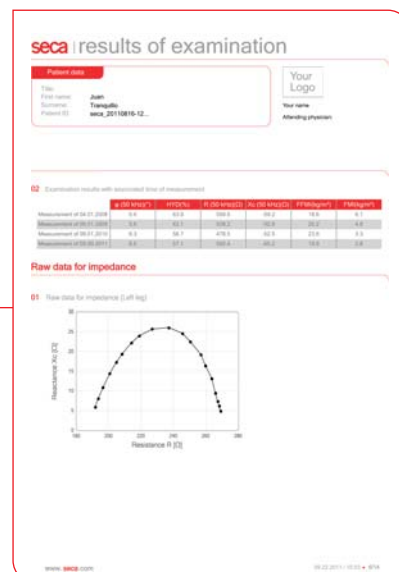
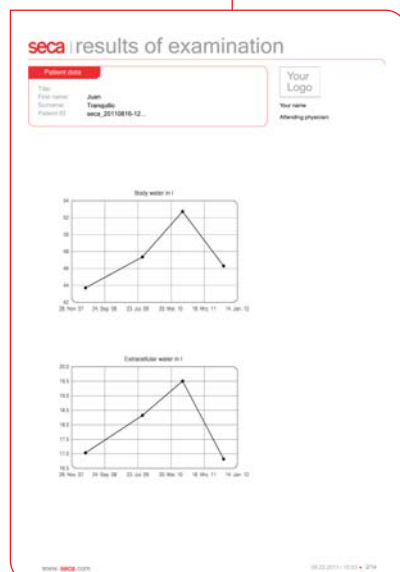
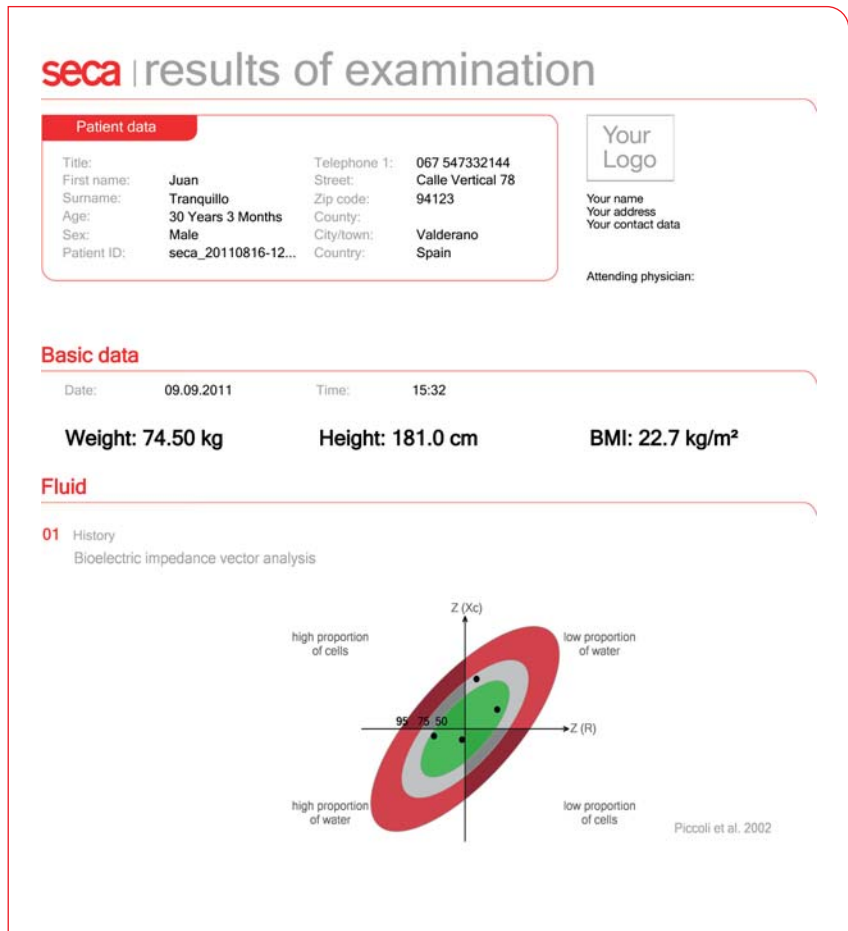
The assessment of one's general health and nutritional status is a service that any patient can appreciate. Especially with the convenience of taking home all the results and analysis on a printout.

Personalized presentation.

The seven modules for the analysis of measurement results can be compiled for each patient as needed and presented in an easy-to-read PDF document.

Patient printout.

The PC software *seca analytics* mBCA 115 generates a patient printout that can be easily understood. Decide which analyses should appear on your printout and integrate the logo of your hospital or medical practice.



So many possibilities – so simple to integrate: In hospitals, medical practices and all Electronic Medical Record (EMR) systems.

Many devices bear the seal “EMR ready”, but in reality that is not enough. Only EMR integrated products like the seca analytics mBCA 115 put data into the internationally recognized HL7 or GDT format, which is what most EMR systems require in order to process data.

For installation on your PC, you only need the seca software DVD, which contains all the necessary applications:

- The seca database
- The application software
- The seca EMR Connector for communication with your Electronic Medical Record system



All the advantages of the seca analytics mBCA 115 at a glance

- Set up your PC so that it can wirelessly receive the measurements of the seca mBCA and other seca 360° wireless devices.
- Acquire the Cardiometabolic risk and the detailed Raw impedance data module for science and research, additional interpretation options, trend curves and the therapy planner.
- Generate easy-to-understand graphic presentations and print them out for your files or for your patients.
- Store all patient and examination data in a central seca database.
- Take the first step toward electronic medical records with EMR integrated.
- With the necessary security, thanks to simple user account management and access rights.

Scientifically sound:

The seca mBCA and the PC software seca analytics mBCA 115 consider the following reference values for the analysis and interpretation of measurements:

- Total body water (TBW): seca 2011
- Extracellular water (ECW): seca 2011
- Fat mass (FM): Gallagher et al. 2000
- Fat-free mass (FFM): seca 2011
- Bioelectrical Impedance Vector Analysis (BIVA): Piccoli et al. 1994 (illustration), seca 2011 (reference values)
- Fat mass indices (FFMI/FMI): Piccoli et al. 1994 (illustration), seca 2011 (reference values)
- Skeletal muscle mass (SMM): Kim et al. 2002
- Percentile charts for children: Centers for Disease Control and Prevention (CDC) 2000, World Health Organization (WHO) 2007, Kromeyer-Hauschild et al. 2001
- Waist circumference for children: Fernandez et al. 2004, Inokuchi et al. 2007
- Resting energy expenditure for children: Müller et al. 2004
- Resting energy expenditure for adults: Müller et al. 2004, Liu et al. 1995, Food and Agriculture Organization of the United Nations (FAO)/WHO/United Nations University (UNU) 2004
- Energy input and output/caloric equivalents: Wishnofsky 1958
- Metabolic syndrome: International Diabetes Federation (IDF) 2006, National Cholesterol Education Program – Adult Treatment Panel III (NCEP-ATP III) 2001
- 10-year risk of coronary heart disease: Framingham Score, Wilson et al. 1998, Prospective Cardiovascular Münster (PROCAM) Assmann et al. 2002, SCORE Conroy et al. 2003

seca analytics mBCA 115

System requirements

- Supports operating systems: Windows XP (SP3), Windows Vista (SP1), Windows 7, Windows Server 2003 (SP2) and Windows Server 2008 R1 (SP2)
- Processor: 1.2 GHz or higher
- Required available hard disk space: minimum 1 GB
- Required available RAM: minimum 512 MB RAM
- Peripherals: DVD drive
- Ports: For use with seca devices USB 2.0 or serial interface (RS232)
- Monitor: 1024x768, High Color (16-bit), 32-bit (recommended)



System compatible with all products in the seca 360° wireless system

The seca mBCA 514 – complicated technology simplified.



1

Measuring:

Measure your patient's height with a wireless seca measuring rod and wirelessly transmit the data to the seca mBCA 514.



2

Weighing:

Weighing the patient takes just a few seconds.



3

Bioelectrical Impedance Analysis:

The complete medical assessment of the patient's body composition requires less than 20 seconds.

4

Height: 1.810 m BMI: 22.9 kg/m²

Patient list - 7 hit(s) - page 1 of 2

Surname, First name	Date of birth	Gender
Dornberger, Maik ID: seca_20110816-124612-559	09.09.1979	♂
Morrison, James ID: seca_20110816-122804-209	17.03.1953	♂
MÜLLER-LÜDENSCHIEDT, FRIEDHELM	15.08.1961	♂
Richards, Hannes ID: seca_20110816-123355-178	04.04.1978	♂
Stevens, Gloria ID: seca_20110816-123149-598	10.07.1977	♀

create

new search

forward

back

4

Assign data to patient:

Retrieve the patient file from your database or enter the data manually.



5

Data transmission to printer:

With the press of a button transmit the data to a seca 360° wireless printer.



6

Analysis:

Transmit the data to a PC for further analysis and processing with the PC software seca analytics mBCA 115.



7

Consultation:

You can give your patients a complete analysis on a printout, in addition to medical advice.

Medical Scales and Measuring Systems since 1840

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and branches in France, United Kingdom, North America, Switzerland, China, Japan, Mexico, Austria, Poland and UAE

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