A New Standard for Body Water Analysis —





A New Standard for Body Water Analysis

In the last 20 years, body composition analysis has established itself as a standard practice in various fields, and InBody has continuously strived to further expand its application to specialized areas, such as dialysis, rehabilitation, nutrition, and etc.

With the need for the precise measurement of body water, InBody introduces a new standard for body water analysis, BWA 2.0.

The BWA 2.0 is equipped with state-of-the-art 3MHz technology and provides extensive research parameters for professionals to better suit diverse patients with different conditions and medical specialties than ever before.







Cole-Cole Plot Graph for Monitoring Changes in Body Water and Cellular Integrity



Statistical Analysis by Age, Based on InBody Big Data



Clamp Electrode for High Reproducibility





Covering Wide Range of Subjects / Patients and Conditions



Extensive Research Parameters for Professionals



BWA Highlights

Cole-Cole Plot Graph for Monitoring Changes in Body Water and Cellular Integrity

With Cole-Cole plot graph, BWA provides accurate Segmental Body Phase Angle measurements at 5, 50, and 250kHz enhancing sensitivity to the changes in fluid and cellular integrity resulting from various diseases and conditions.

Statistical Analysis by Age, Based on InBody Big Data

Based on 13 million sets of InBody Big Data, InBody provides averages and standard deviation graphs for each result parameter according to age. It allows for comparative evaluation between different or same age groups for a more objective body composition analysis.

Clamp Electrode for High Reproducibility

The Clamp Electrode is a combination of two forcep electrodes, which acts as an indicator attached to the wrist and ankle for high reproducibility. The flexible design of the forcep ensures the electrodes to closely adhere to wrist and ankle even during the articular movements.

Covering Wide Range of Subjects / Patients and Conditions

More precise results can be obtained and utilized by entering the patient status information such as amputation, paralysis, lymphedema, and vascular access region.

Extensive Research Parameters for Professionals

Select from a range of distinct optional parameters for clinical and research purposes. - Water Control Calculator: to set target ECW Ratio

- Age-specific graph: to evaluate and compare the body composition result by age
- BIVA (Bioelectrical Impedance Vector Analysis): to evaluate the hydration and nutritional status in comparison to their demographic group

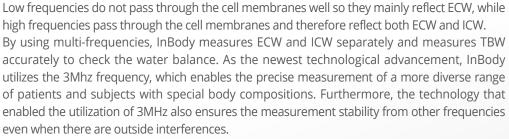


InBody Technology on BWA

Body Composition Evaluation by Age Based on InBody Big Data

InBody provides age-specific graphs for each body composition analysis parameter based on globally accumulated InBody Data. With this, a comprehensive analysis is provided so that you can compare your data to the data of the young age group (T-score) and the same age group (Z-score).

Multi-Frequency for In-Depth Analysis



* ECW: Extracellular Water, ICW: Intracellular Water, TBW: Total Body Water

High Reproducibility and Accuracy Assured by 16-Point Clamp Electrodes

The 16-Point Clamp Electrodes were developed in a way so that the electrodes can be positioned on the wrist and ankle bone. It allows the instructor to place the electrode in the proper position and secures the reproducibility by minimizing the measurement errors. This technology also exempted the resistance from the hands and feet, which secures a more accurate results. With the 16-Point Clamp Electrodes, two different measurement modes are provided which enables users to choose between Research (Distal) and Medical (Proximal), depending on their purposes.

Multi-frequency Reactance Data for Enhanced Clinical Use

Reactance is a resistance that occurs in cell membranes, which is related to the cellular health such as somatic cell mass, structural integrity, and physiological functional level of the cell. Besides 50kHz, InBody improved segmental reactance measurement technology in 5kHz, 250kHz as well. Through this, InBody provides more parameters which can be used in various clinical fields to pre-screen diseases and evaluate nutritional status.

Direct Segmental Measurement-BIA

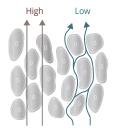
Each of our body segments is different in length and cross-sectional area. Arms and legs are longer and narrower in comparison to the trunk, so their impedance values are higher than the trunk. On the other hand, the trunk is shorter and wider than the arms and legs, so its impedance value is lower. However, the trunk muscle mass accounts for almost half of the whole body muscle mass, which is why a small impedance change in the trunk has a greater impact on the amount of whole body muscle mass. Therefore, the trunk must be measured separately in order to measure the whole body muscle mass accurately.

Impedence Age Gender

ntracellula

No Estimations or Empirical Equations

In the past, the conventional BIA devices used empirical estimations to compensate technological limitations of whole body measurement and use of single low frequency. To calculate the body composition by these conventional BIA devices, they needed to add statistical data such as age and gender in order to calculate results. However, InBody overcame these limitations with technologies of using Multi-Frequency, Direct Segmental Measurement, and 16-Point Clamp Electrodes System so that BWA provides results that are not affected by age, ethnicity or gender. Only reference ranges or scores based on age and gender are used as a basis for evaluating the values determined.



5kHz

50kHz

250kHz

BWA Application

Nutrition

Monitor body composition change for nutritional evaluation.

Kim, H.S., Lee, E.S., Lee, Y.J., Jae Ho Lee, C. T.L., & Cho, Y.J (2015) Clinical Application of Bioelectrical Impedance Analysis and its Phase Angle For Nutritional Assessment of Critically III Patients. Journal of the Korean Society for Parenteral and Enteral Nutrition, 7(2), 54-61

Nephrology

Obtain useful insights on dialysis patients' hydration and nutrition status.

Ando, M., Suminaka, T., Shimada, N., Asano, K., Ono, J. I., Jikuya, K., & Mochizuki, S. (2018). Body water balance in hemodialysis patients reflects nutritional, circulatory, and body fluid status. Journal of Biorheology, 32(2), 46-55.

Geriatric

Monitor muscle mass and muscle imbalances to screen sarcopenia with SMI, which are related to risks of fall and frailty.

Yoshimura, Y., Wakabayashi, H., Bise, T., & Tanoue, M. (2018). Prevalence of sarcopenia and its association with activities of daily living and dysphagia in convalescent rehabilitation ward inpatients. Clinical Nutrition, 37(6), 2022-2028.

Rehabilitation

Monitor injury and post-surgical recovery.

Yoshimura, Y., Bise, T., Nagano, F., Shimazu, S., Shiraishi, A., Yamaga, M., & Koga, H. (2018). Systemic inflammation in the recovery stage of stroke: its association with sarcopenia and poor functional rehabilitation outcomes. Progress in Rehabilitation Medicine, 3, 20180011.

Cardiology

Pre-screen the risk factors of cardiovascular disease.

Thomas, E., Gupta, P. P., Fonarow, G. C., & Horwich, T. B. (2019). Bioelectrical impedance analysis of body composition and survival in patients with heart failure. Clinical cardiology, 42(1), 129-135.

Professional Sports

Manage body composition to enhance performance and minimize injury risk.

Almăjan-Guţă, B., Rusu, A. M., Nagel, A., & Avram, C. (2015). Injury frequency and body composition of elite Romanian rugby players. Timisoara Physical Education and Rehabilitation Journal, 8(15), 17-21.









Validations of More Than 3,000 Research Papers

Study 1

HIGH ACCURACY AND REPRODUCIBILITY OF FAT FREE MASS & PERCENT BODY FAT MEASUREMENTS COMPARED WITH DEXA

The measurement (mean \pm SD) for FFM with DXA was 52.8 \pm 11.0, and BIA was 53.6 \pm 11.0. Delta (S-MFBIA vs DXA) was 0.8 ± 2.2 (5% limits of agreement -3.5 to +5.2), and concordance correlation coefficient (CCC) was 0.98 (95% CI. 0.97–0.98). The measurements (mean ± SD) for PBF with DXA was 37.5 ± 10.6% and S-MFBIA was 36.6 ± 11.3%. Delta (S-MFBIA vs DXA) was -0.9 ± 2.6 (5% limits of agreement 6.0 to +4.2), and CCC was 0.97 (95% CI, 0.96-0.98).

Hurt, Ryan T., et al. "The Comparison of Segmental Multifrequency Bioelectrical Impedance Analysis and Dual-Energy X-ray Absorptiometry for Estimating Fat Free Mass and Percentage Body Fat in an Ambulatory Population." Journal of Parenteral and Enteral Nutrition (2020).

Study 2

HIGH CORRELATION WITH D20 DILUTION METHOD FOR TOTAL BODY WATER

The study concluded that the BIA device InBodyS10 showed good test-retest precision (%CV = 5.2 raw; 1.1 after outlier removal) and high accuracy to D₂O for Total Body Water[TBWD₂O = 0.956 TBWBIA, R²= 0.92, root mean squared error(RMSE) = 2.2kg]. %Fat estimates from DXA, ADP, D₂O, and BIA all showed high correlation with the Lohman model.

Ng, Bennett K., etal. "Validation of rapid 4-component body composition assessment with the use of dual-energy X-ray absorptiometry and bioelectrical impedance analysis."

The American journal of clinical nutrition 108.4 (2018) :708-715.

Study 3

HIGH ACCURACY WITH COMPUTED TOMOGRAPHY FOR MUSCLE MASS

It was suggested that estimating muscle mass using DXA and BIA(InBody720) is a preferred method for diagnosis of sarcopenia in kidney transplant recipients. Both DXA and InBody showed high correlation with CT.

Yanishi, M., etal."Dual energy X-ray absorptiometry and bioimpedance analysis are clinically useful for measuring muscle mass in kidney transplant recipients with sarcopenia."

Transplantation proceedings.Vol.50.No.1.Elsevier, 2018.

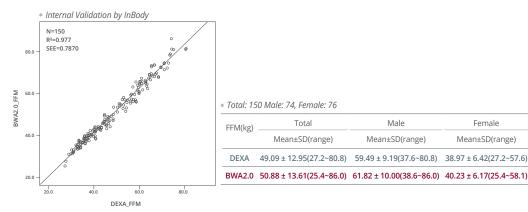
Study 4

HIGH CORRELATION OF FAT FREE MASS BETWEEN DEXA AND BWA2.0

Total of 150 results were analyzed, excluding duplicate data from the same subject. Fat Free Mass measured by BWA2.0 had a very high correlation with DEXA of R²=0.977 or higher. (P value < 0.05)

Female

Mean±SD(range)









Extensive Research Parameters for Professionals

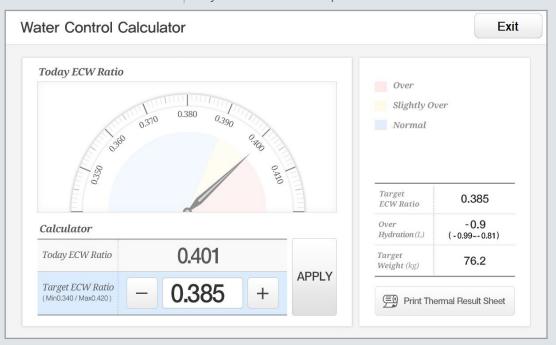
Select from a range of optional parameters for clinical and research purposes



Water Control Calculator

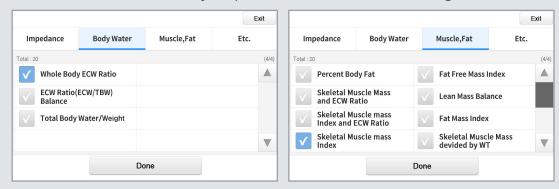
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Set the Target ECW Ratio depending on the hydration status of dialysis and heart failure patients.



Up to 20 Optional Parameters

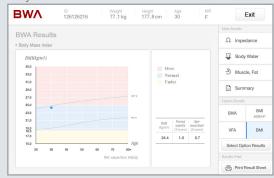
Provides up to 20 optional parameters for a customized experience. Select from parameters, such as age-specific graph, segmental analysis, and body composition results that are available at a glance.



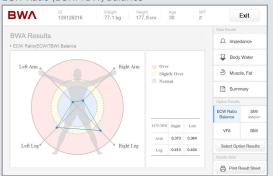
Skeletal Muscle mass Index



Body Mass Index











Product Overview

Various Features and Optional Components of BWA





LCD Sharp 10.1" touch screen



InBody USB Easy data back up with InBody USB



Thermal Printer (Optional) Easy-print out BWA results



Clamp Electrode

Patented dual forcep structure of Clamp Electrodes ensures high reproducibility



BWA Cart Customized BWA Cart to easily arrange the Clamp Electrodes



Battery BWA battery for mobile use



BWA Portable Case (Optional) Convenient way of carrying BWA for mobility



Test Posture Measurable in a lying, seated or standing position

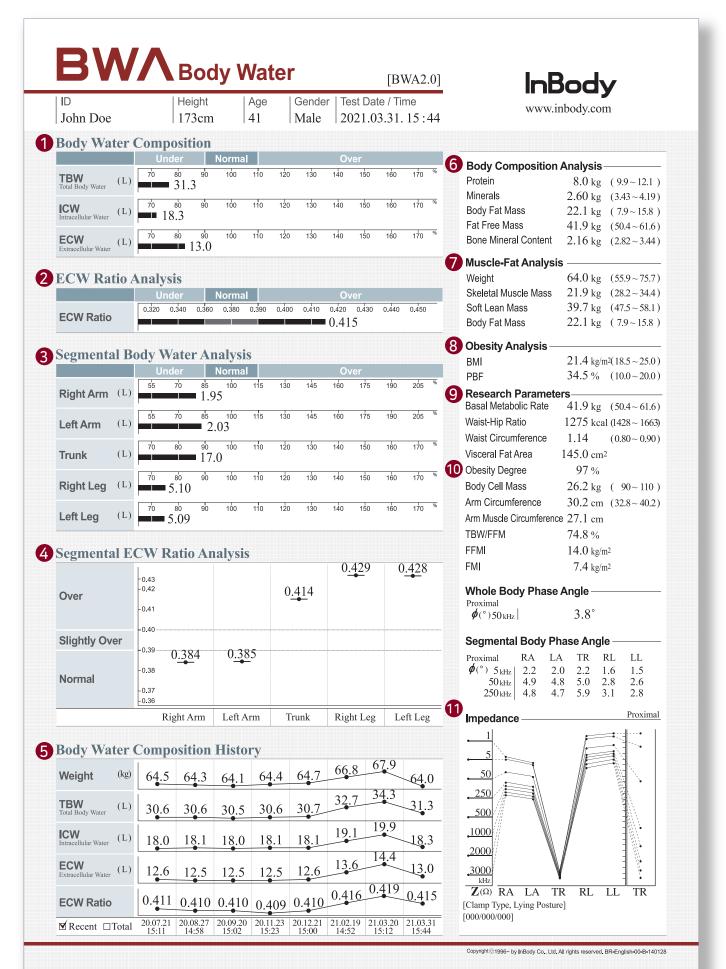




Adhesive Electrodes and Tape (Optional) BWA Electrode Tapes for patients with difficulty in using Clamp Electrode



Body Water Result Sheet



Result Sheet Interpretation

1 Body Water Composition

50-70% of our body is composed of water. Body water is distributed between all the cells and fluids in our body. Most of it is present in the cells while the rest is in the form of blood and interstitial fluid. The water inside the cell membrane is called intracellular water, and the water outside the cell membrane is called extracellular water.

2 ECW Ratio Analysis

The extracellular water ratio shows the balance status of body water. The ratio between intra and extracellular water remains constant at about 3:2 ratio in healthy individuals, and when this balance is broken down edema may occur.

3 Segmental Body Water Analysis

Segmental Body Water Analysis helps to understand the water balance by analyzing the total body water in each part of the body. Changes in body water corresponds to the changes in muscle mass. However, in the case of a subject who has health issue, the amount of body water may increase even if there is no increase in muscle mass. Therefore, it is necessary to check whether Extracellular Water Ratio is normal in segments.

4 Segmental ECW Ratio Analysis

Segmental ECW Ratio is displayed in a graph so you can easily determine if the ICW and ECW are balanced. By analyzing the ECW Ratio, you can assess if there is a problem with body water circulation. This can help monitor the recovery of post-surgery or hemodialysis patients.

5 Body Water Composition History

Body Water History provides the changes in Weight, Skeletal Muscle Mass, Intracellular Water, Extracellular Water, Extracellular Water Ratio. Take the BWA test periodically to monitor your progress.

6 Body Composition Analysis

Body composition is a method of describing what the body is made of. BWA offers quantitative values and normal ranges for four core body components: Body Water, Protein, Minerals, and Fat.

7 Muscle-Fat Analysis

The balance between Skeletal Muscle Mass and Body Fat mass is a key health indicator. Muscle-Fat Analysis shows this balance by comparing the length of the bars for Weight, Skeletal Muscle Mass, and Body Fat Mass.

8 Whole Body Phase Angle

Phase Angle is related to the health status of the cell membrane. Strengthening of the cellular membrane and structural function will increase the Phase Angle, while damage or a decrease in function will result in a decrease in the Phase Angle.

9 Segmental Body Phase Angle

Segmental Phase Angle indicates the Phase Angle of each part of the body, representing the level of structural integrity and function of the cell membrane.

Bioeletrical Impedance Vector Analysis

BIVA stands for Bioelectrical Impedance Vector Analysis. The position of the tested subject is located on a graph which is based on the measured Resistance (R) and Reactance (Xc) for evaluation. The relative position is evaluated and monitored to see the changes in body water and muscle mass in a set period time for the tested subject.

1 Impedance

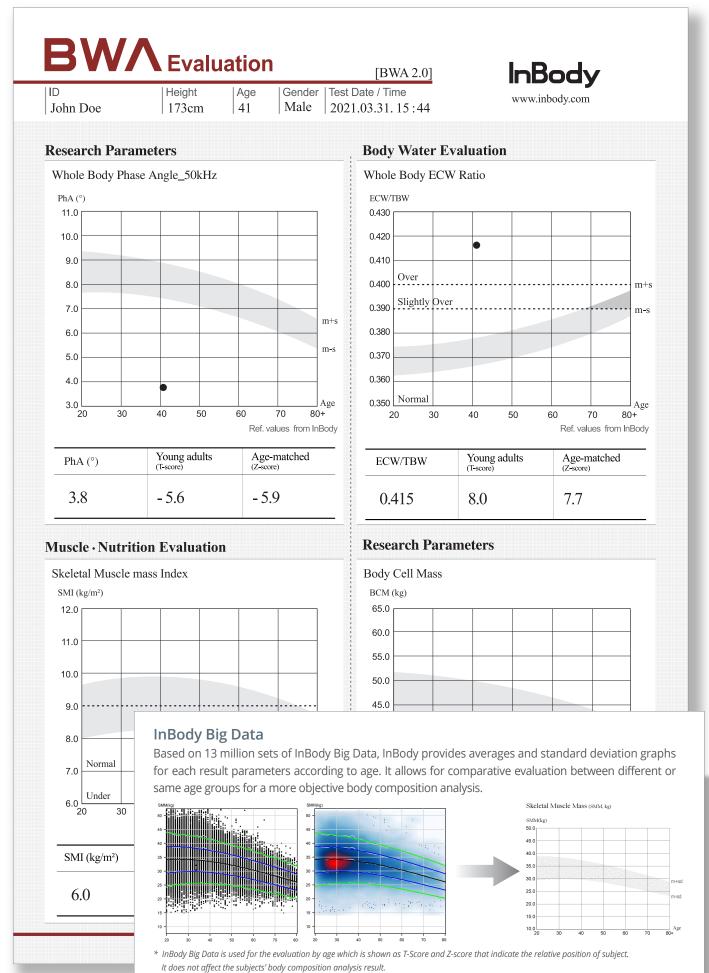
Impedance is the resistance that occurs when weak alternating current is applied to the human body. BWA visualizes the impedance with the graph, so you can easily detect if there is reversed impedance error by checking crossed lines in the impedance graph. Below the impedance graph, you can also check the error codes.



Body Composition Result Sheet

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Left Leg (kg) $\frac{1}{10}$	Segmental Lo Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%)	Under No 55 70 85 1 2.50 55 70 85 1 2.51 55 70 85 1 2.61 85.6 70 80 90 1 88.7 70 80 90 1	rmal 00 115 1 00 115 1	Ove 30 145 30 145 20 130	Based on cur r 160 175 160 175 140 150	ECW Ratio 0.384 0.385 0.414	Nesearch Parameters Intracellular Water 18.3 L (23.0~28.0) Extracellular Water 13.0 L (14.0~17.2) Basal Metabolic Rate 1275 kcal (1428~1663) Waist-Hip Ratio 1.14 (0.80~0.90) Body Cell Mass 26.2 kg (32.8~40.2) SMI 6.0 kg/m² Whole Body Phase Angle Proximal
SOLUTION Analysis $10 der Normal Over$ 0.415 Body Composition History $10 der State Over Over Over Over Over Over Over Ove$	Segmental Log Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg)	Under Nor 55 70 85 1 2.50 82.1 1 2.61 55 70 85 1 2.61 85.6 21.6 85.6 70 80 90 1 6.45 90 1	rmal 00 115 1 00 115 1	Ove 30 145 30 145 20 130	Based on cur r 160 175 160 175 140 150	ECW Ratio 0.384 0.385 0.414	NTH kg Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428~1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Proximal
Under Normal Over ECW Ratio 0.320 0.340 0.360 0.390 0.400 0.410 0.420 0.430 0.440 0.450 Body Composition History 0.415 0.415 0.415 0.410 </td <td>Segmental Lo Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg)</td> <td>Under No 55 70 85 1 2.50 82.1 82.1 55 70 85 1 2.61 2.61 88.7 70 80 90 1 6.45 76.2 70 80 90 1</td> <td>rmal 00 115 1 00 115 1 00 110 1 00 110 1</td> <td>Ove 30 145 30 145 20 130 20 130</td> <td>Based on cur r 160 175 160 175 160 175 140 150 140 150</td> <td>ECW Ratio 36 0.384 96 0.385 36 0.414 36 0.429 36 0.429</td> <td>Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428~1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Whole Body Phase Angle Proximal $\phi(°)$ 50 kHz Segmental Body Phase Angle Proximal RA LA TR RL LL $\phi(°)$ 5 kHz 2.2 2.0 2.2 1.6 15</td>	Segmental Lo Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg)	Under No 55 70 85 1 2.50 82.1 82.1 55 70 85 1 2.61 2.61 88.7 70 80 90 1 6.45 76.2 70 80 90 1	rmal 00 115 1 00 115 1 00 110 1 00 110 1	Ove 30 145 30 145 20 130 20 130	Based on cur r 160 175 160 175 160 175 140 150 140 150	ECW Ratio 36 0.384 96 0.385 36 0.414 36 0.429 36 0.429	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428~1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Whole Body Phase Angle Proximal $\phi(°)$ 50 kHz Segmental Body Phase Angle Proximal RA LA TR RL LL $\phi(°)$ 5 kHz 2.2 2.0 2.2 1.6 15
ECW Ratio 0.320 0.340 0.380 0.380 0.400 0.410 0.420 0.430 0.440 0.450 Body Composition History Weight (kg) 64.5 64.3 64.1 64.4 64.7 66.8 67.9 64.0 SMM (kg) 21.5 21.6 21.5 21.6 21.7 23.0 24.0 21.9 Body Far (%) 35.0 34.8 34.9 35.0 33.0 32.3 34.5 BCW Ratio 0.411 0.410 0.409 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.410 0.411 0.410	Segmental Log Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg) (%)	Under No 55 70 85 1 2.50 82.1 82.1 55 70 85 1 55 70 85 1 21.6 85.6 70 80 90 1 70 80 90 1 88.7 70 80 90 1 6.45 76.2 76.2 76.2 75.9	rmal 00 115 1 00 115 1 00 110 1 00 110 1	Ove 30 145 30 145 20 130 20 130	Based on cur r 160 175 160 175 160 175 140 150 140 150	ECW Ratio 36 0.384 96 0.385 36 0.414 36 0.429 36 0.429	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428~1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Whole Body Phase Angle Proximal $\phi(°) 50 \text{ kHz}$ 3.8° Segmental Body Phase Angle Proximal RA LA TR RL LL $\phi(°) 5 \text{ kHz}$ 2.2 2.0 2.2 1.6 15 50 kHz 4.9 4.8 5.0 2.8 2.6
Body Composition History Weight (kg) 64.5 64.3 64.1 64.4 64.7 66.8 67.9 64.0 SMM Scient Muscle Mass (kg) 21.5 21.6 21.5 21.6 21.7 23.0 24.0 21.9 BF Percent Body Far (%) 35.0 34.8 34.9 35.0 33.0 32.3 34.5 ECW Ratio 0.411 0.410 0.409 0.410 0.409 0.410 0.410 0.409 0.411 0.410	Segmental Log Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg) (%)	Under No 55 70 85 1 2.50 82.1 82.1 1 55 70 85 1 2.61 2.61 88.7 1 6.45 76.2 1 6.43 70 80 90 1 6.43 75.9 1 1	rmal	Ove 30 145 30 145 20 130 20 130	Based on cur r 160 175 160 175 140 150 140 150 140 150	ECW Ratio 36 0.384 96 0.385 36 0.414 36 0.429 36 0.429	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428~1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Whole Body Phase Angle Proximal $\phi(°)$ 50 kHz 9 3.8° Segmental Body Phase Angle Proximal RA LA TR RL $\phi(°)$ 5 kHz 2.2 2.0 2.2 1.6 50 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8
Weight (kg) 64.5 64.3 64.1 64.4 64.7 66.8 67.9 64.0 SMM Skeltal Muscle Mass (kg) 21.5 21.6 21.5 21.6 21.7 23.0 24.0 21.9 BF Percent Body Fat (%) 0.411 0.410 0.409 0.410 0.409 0.410 0.410 0.409 0.410	Segmental Lo Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg) (%) ECW Ratio A	Under No 55 70 85 1 2.50 82.1 2.50 82.1 55 70 85 1 2.61 2.61 88.7 88.7 70 80 90 1 6.45 76.2 70 80 70 80 90 1 6.43 75.9 1 1 75.9 1 1 1 9 1 1 1 1 10 10.43 1 1	rmal	Ove 30 145 30 145 20 130 20 130 20 130 20 130	Based on cur r 160 175 160 175 140 150 140 150 140 150 0ver 0.420 0.430	ECW Ratio 0.384 0.385 0.414 0.429 0.428	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428 ~ 1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m ² Whole Body Phase Angle Proximal ϕ (°) 50 kHz 3.8° Segmental Body Phase Angle Proximal A LA TR RL ϕ (°) 5 kHz 2.2 2.0 2.2 1.6 15 50 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8 Impedance Proximal
SMM (kg) 21.5 21.6 21.5 21.6 21.7 22.0 21.9 35.0 34.8 34.9 35.0 33.0 32.3 34.5 PBF (%) 0.411 0.410 0.409 0.410 0.410 0.409 0.410 0.4	Segmental Lo Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg) (%) ECW Ratio	Under No 55 70 85 1 55 70 85 1 55 70 85 1 55 70 85 1 55 70 85 1 2.61 88.7 88.7 70 80 90 1 6.45 76.2 70 80 90 1 6.43 75.9 1 6.43 1 <	rmal	Ove 30 145 30 145 20 130 20 130 20 130 20 130	Based on cur Based on cur 160 175 160 175 140 150 140 150 140 150 0ver 0.420 0.430 0.415	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.440 0.450	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428 ~ 1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m ² Whole Body Phase Angle Proximal $\phi(^\circ)$ 50 kHz 3.8° Segmental Body Phase Angle Proximal RA LA TR RL $\phi(^\circ)$ 5 kHz 2.2 2.0 2.2 1.6 15 50 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8 Impedance Proximal 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Segmental Lo Right Arm (kg) (%) Left Arm (kg) (%) Trunk (kg) (%) Right Leg (kg) (%) Left Leg (kg) ECW Ratio ECW Ratio Body Compo	Under No 55 70 85 1 55 70 85 1 55 70 85 1 55 70 85 1 55 70 85 1 2.50 2.61 88.7 70 80 90 1 6.45 76.2 70 80 90 1 70 6.43 90 1 90 1 6.43 75.9 9 1	rmal 00 115 1 00 115 1 00 110 1 00 110 1 00 110 1 10 1 00 110 1 10 1 10 1 10 1	Ove 30 145 30 145 20 130 20 130 20 130 400 0.410	Based on cur Based on cur 160 175 160 175 140 150 140 150 140 150 0ver 0.420 0.430 0.415 66.8 6	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.440 0.450 7.9 64.0	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428 ~ 1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Whole Body Phase Angle Proximal $\phi(°)$ 50 kHz 3.8° Segmental Body Phase Angle Proximal RA LA TR RL LL $\phi(°)$ 5 kHz 2.2 2.0 2.2 1.6 15 50 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8 Impedance Proximal Image: Proximal Proximal Image: Proximal
ECW Ratio 0.411 0.410 0.409 0.410 0.416 0.419 0.415 $\frac{\text{kHz}}{\text{Z}(\Omega)}$ RA LA TR LL TR	Segmental Lo Right Arm (kg) Left Arm (kg) Left Arm (kg) Trunk (kg) Right Leg (kg) (%) (kg) Left Leg (kg) ECW Ratio Kg) Body Compo (kg) Weight (kg)	Under Noi 55 70 85 1 82.1 85.6 82.1 55 70 85 1 2.50 82.1 85.6 70 80 90 1 88.7 76.2 88.7 70 80 90 1 76.2 76.2 76.2 75.9 Analysis Under Noi 0.320 0.340 0.360 0.5 sition History 64.5 64.3 66 21.6 2 21.5 21.6	rmal	Ove 30 145 30 145 20 130 20 130 20 130 20 130 400 0.410 400 0.410 400 0.410 400 0.410	Based on cur Based on cur 160 175 160 175 140 150 140 150 140 150 0ver 0.420 0.430 0.415 66.8 6	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.440 0.450 7.9 64.0 4.0 21.9	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428 ~ 1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m ² Whole Body Phase Angle Proximal ϕ (°) 50 kHz 3.8° Segmental Body Phase Angle Proximal RA LA TR RL ϕ (°) 50 kHz 2.2 2.0 2.2 1.6 15 50 kHz 2.2 2.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8 Impedance 1 5 50 <
If Jama Trans Lyana Bostoval	Segmental Lo Right Arm (kg) Left Arm (kg) Left Arm (kg) Trunk (kg) Right Leg (kg) CW Ratio (kg) ECW Ratio Body Compo Weight (kg) SMM (kg) PBF (%)	Under Noi 55 70 85 1 82.1 85.6 82.1 55 70 85 1 2.50 82.1 85.6 70 80 90 1 88.7 76.2 88.7 70 80 90 1 76.2 76.2 76.2 75.9 Analysis Under Noi 0.320 0.340 0.360 0.5 sition History 64.5 64.3 66 21.6 2 21.5 21.6	rmal	Ove 30 145 30 145 20 130 20 130 20 130 20 130 400 0.410 400 0.410 400 0.410 400 0.410	Based on cur Based on cur 160 175 160 175 140 150 140 150 140 150 0ver 0.420 0.430 0.415 666.8 6 23.0 2. 33.0 3.	ECW Ratio 0.384 0.385 0.414 0.429 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428 0.428	Research Parameters Intracellular Water 18.3 L $(23.0 \sim 28.0)$ Extracellular Water 13.0 L $(14.0 \sim 17.2)$ Basal Metabolic Rate 1275 kcal (1428 ~ 1663) Waist-Hip Ratio 1.14 $(0.80 \sim 0.90)$ Body Cell Mass 26.2 kg $(32.8 \sim 40.2)$ SMI 6.0 kg/m² Whole Body Phase Angle Proximal $\phi(°)$ 50 kHz 3.8° Segmental Body Phase Angle Proximal $A. LA TR RL LL$ $\phi(°)$ 5 kHz 2.2 2.0 2.2 1.6 15 50 kHz 4.9 4.8 5.0 2.8 2.6 250 kHz 4.8 4.7 5.9 3.1 2.8 Impedance 1 50 250 500 250 500 1000 2000 100 100<

Evaluation Result Sheet



* Depending on the country, the graph will be set differently.

BWA Research

D John Doe		eight 73cm	Age 41	Gender Male				
Body Compo	osition Su	ummary						
	FFM	FM	ICW	ECW	TBW	ECW/TBW		
Right Arm	2.50 kg	1.6 kg	1.20 L	0.75 l	1.95 l	0.384		
Left Arm	2.61 kg	$1.5\mathrm{kg}$	1.25 L	0.78 L	2.03 L	0.385		
Trunk	21.6 kg	12.5kg	10.0 L	7.0 L	17.0 l	0.414		
Right Leg	6.45 kg	$2.6\mathrm{kg}$	2.91 l	2.19 L	5.10 l	0.429		
Left Leg	6.43 kg	$2.6\mathrm{kg}$	2.91 l	2.18 L	5.09 l	0.428		
Whole Body	41.9 kg	22.1 kg	18.3 l	13.0 L	31.3 L	0.415		
Weight		64.0 kg		nce between the al values are fro		values and sum ervical region.		

ICW ECW Lean Mass **Body Composition Analysis** Fat Mass ECW/TBW # Normal Whole Body ⁷⁰ 80 41.9 170 90 100 110 120 130 140 150 160 (kg) (L) 18.3 (L) = 13.0 22.1(223.6%) (kg) 0.400 0.410 0.420 0.340 0.360 0.380 0.390 0.320 0.430 0.440 0.450 % **Right Arm** 55 70 **2**.50 100 115 130 145 160 175 190 205 (kg) 1.20 (L) (L)0.75 (kg) 1.6(266.8%) 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.320 0.440 0.450 0.384 % **2.61** 115 160 Left Arm 55 70 100 130 145 175 190 205 (kg) 1.25 (L) (L) 0.78 1.5(260.1%) (kg) 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.320 0.440 0.450 0.385 **–** 21.6 110 120 140 160 170 % 80 100 130 150 Trunk 70 (kg) . (L) 10.0 (L) 7.0 (kg) 12.5(300.6%) 0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.440 0.450 **Right Leg** 70 90 100 170 80 110 120 130 140 150 160 6.45 (kg) (L) 2.91 2.19 (L) 2.6(151.5%) (kg) 0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.440 0.450 ≥ 0.429 170 % ⁷⁰ 80 90 100 110 120 130 140 150 160 Left Leg (kg) 2.91 (L) (L) 2.18 (kg) 2.6(151.6%) 0.320 0.340 0.360 0.380 0.390 0.400 0.410 0.420 0.430 0.440 0.450 0.428

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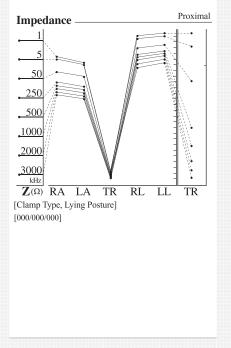
[BWA2.0]

rs ———	
21.4 kg/m	$n^{2}(18.5 \sim 25.0)$
34.5 %	(10.0~20.0)
$21.9 \mathrm{kg}$	(28.2~34.4)
39.7 kg	(47.5~58.1)
8.0 kg	(9.9~12.1)
2.60 kg	(3.43~4.19)
$2.16 \mathrm{kg}$	(2.82~3.44)
1275 kcal	(1428~1663)
1.12	(0.80~0.90)
00.8 cm	
45.0 cm ²	
97 %	(90~110)
26.2 kg	(32.8~40.2)
30.2 cm	
27.1 cm	
74.8 %	
14.0 kg/m	1 ²
7.4 kg/m	1 ²
6.0 kg/m	1 ²
	$\begin{array}{c} 21.4 \ \text{kg/m} \\ 34.5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$

$\phi^{(\circ)}_{50 \text{ kHz}}$	v		3.8°		
Segmenta	l Bod	y Pha	se An	gle —	
Provimal	RΔ	IΔ	TR	ΒI	TI

Whole Rody Phase Angle

Proximal					
$\phi^{(\circ)}$ 5 kHz 50 kHz	2.2	2.0	2.2	1.6	1.5
7 50 kHz	4.9	4.8	5.0	2.8	2.6
250 kHz	4.8	4.7	5.9	3.1	2.8



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Comparison Result Sheet

BWA D John Doe	Height 173cm	Age 41	Gender Male	[BWA2.0] Test Date / Time 2021.03.31.15:44 InBody www.inbody.com
				Today's Results — Recent Results — Standard median curve (2021.03.20 15:12)
Whole Body	Today	Recent	Difference	Xc(Ω)
Weight (kg)	64.0	67.9	-3.9	90
SMM Skeletal Muscle Mass (kg)	21.9	24.0	-2.1	
Body Fat Mass (kg)	22.1	21.9	+0.2	
ECW Ratio	0.415	0.419	-0.004	
Phase Angle (°)	3.8	3.9	-0.1	$0 \xrightarrow{1}_{0} 100 200 300 400 500 600 700 800 900 1000 R(\Omega)$
				Χc(Ω)
Right Arm	Today	Recent	Difference	
Lean Mass ^(kg)	2.50	2.75	-0.25	30 -
ECW Ratio	0.384	0.386	-0.002	
Phase Angle (°)	4.9	4.8	+0.1	$0 \xrightarrow{i}_{0} 100 200 300 400 500 600$
Left Arm	Today	Recent	Difference	$X\alpha(\Omega)$
Lean Mass (kg)	2.61	2.91	-0.30	
ECW Ratio	0.385	0.387	-0.002	
Phase Angle (°)	4.8	4.7	+0.1	$0 \xrightarrow{0}{100} 200 300 400 500 600 R(\Omega)$
Right Leg	Today	Recent	Difference	Xc(Ω) 40 τ
Lean Mass ^(kg)	6.45	6.93	-0.48	30 -
ECW Ratio	0.429	0.433	-0.004	20 -
Phase Angle (°)	2.8	2.9	-0.1	10 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
Left Leg	Today	Recent	Difference	Xc(Ω)
Lean Mass (kg)	6.43	6.82	-0.39	
ECW Ratio	0.428	0.432	-0.004	20 -
Phase Angle (°)	2.6	2.6	0.0	10 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
Trunk	Today	Recent	Difference	Xc(Ω) 5 τ
Lean Mass (kg)	21.6	23.0	-1.4	4 -
ECW Ratio	0.414	0.419	-0.005	
Phase Angle (°)	5.0	6.0	-1.0	$R(\Omega)$

BWA

					[BWA 2.0]
D John Doe	Height 139.4		Age 10	Gender Male	- Test Date / Time 2021.03.31.16:40
Body Composition	Analy	ysis			
Total amount of water in my	body	Total B	ody Water	(L)	19.1 (18.0 ~ 22.0)
What I need to build muscle	s	Protein		(kg)	5.1 (4.9 ~ 5.9)
What I need for strong bone	es	Mineral	l	(kg)	1.91 (1.66 ~ 2.04)
Where my excess energy is	stored	Body F	at Mass	(kg)	8.9 (3.8 ~ 7.7)
Sum of the above		Weight		(kg)	35.0 (27.3 ~ 36.9)

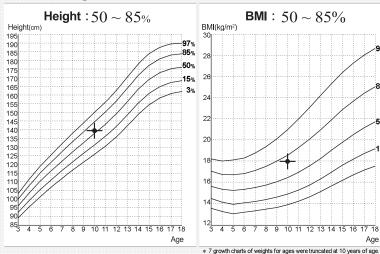
Muscle-Fat Analysis

		U	nder		Normal				Over				
Weight	(kg)	55	70	85	100	¹¹⁵ 35.	0 130	145	160	175	190	205	96
SMM Skeletal Muscle Mass	(kg)	70	80	90	1 ¹⁰⁰	110	120	130	140	150	160	170	%
Body Fat mass	(kg)	40	60	80	100	160	²²⁰ 8.9	280	340	400	460	520	96

Obesity Analysis

		U	nder		Norma	al			Ove			
BMI Body Mass Index (kg/m ²)	7.9	10.9	13.9	16.4	18.6 18.0	20.2	22.2	24.2	26.2	28.2	30.2
PBF Percent Body Fat)	0.0	5.0	10.0	15.0	20.0	25.0	^{30.0}	35.0	40.0	45.0	50.0

Growth Graph



Body Composition History

Height (cm)	134.5 1	35.2	136.4	137.2	137.9	138.5	139.0	139.4
Weight (kg)	30.8	31.3	32.0	32.8	33.5	34.0	34.4	35.0
SMM Skeletal Muscle Mass (kg)	12.5	12.7	12.8	13.0	13.1	13.1	13.2	13.3
PBF (%) Percent Body Fat	20.4	20.7	21.6	22.3	23.1	24.3	25.1	25.6
⊠ Recent □ Total	19.07.15 14:22	19.11.19 09:30	20.01.29 15:18	20.03.15 11:00	20.06.21 15:00	20.09.19 14:52	20.12.20 15:12	21.03.31 16:40



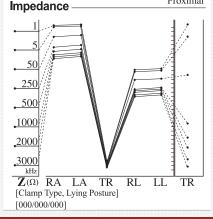
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Growth Score

 $85/_{100\ \text{Points}}$

* If tall and within great body comparison standards, the growth score may surpass 100 points.

8		r	P	
Nutrition				
Protein	🖌 Norma	l 🗆 Deficio	ent	
Minerals	Morma 🗹	l 🗆 Deficio	ent	
Body Fat	🗆 Norma	l 🗆 Deficio	ent M Exe	cessive
Obesity I	Evaluati	on ——		
BMI	Norma	l ⊔Under	□ ^{Slig} □Ov	
PBF	□Norma	l □ ^{Slightl}	y ⊻ Ov	er
Body Ba	lance Ev	valuatio	n	
Upper	🗹 Balance	ed □ Slightl Unbala	$\frac{y}{unced} \Box \frac{Ex}{Un}$	tremely balanced
Lower	🗹 Balance	ed □ Slightl Unbala	$y_{\text{inced}} \square \frac{\text{Ex}}{\text{Un}}$	tremely balanced
Upper-Lowe	er 🗹 Balanco	ed □ Slightl Unbala	$y_{\text{inced}} \Box_{\text{Un}}^{\text{Ex}}$	tremely balanced
Segment	al Lean	Analysi	s ——	
Right Arm		0.95 k	g	
Left Arm		0.94 k		
Trunk		10.8 k	g	
Right Leg		3.41 k	g	
Left Leg		3.37 k		
Researc	h Param	eters —		
Basal Metal	oolic Rate	933 k	cal (948	~1077)
Child Obesi	ty Degree	109 %	6 (90	~110)
Whole B Proximal $\phi(°)50$ kHz	-	ase Ang 4.3°	le ——	
Segment	tal Body	Phase	Angle –	
Proximal		LA TR		LL
$\phi(^{\circ})_{5 \text{ kHz}}$		1.4 3.0		1.8
50 kHz 250 kHz		3.36.83.69.4		4.8 4.9
Impedan	ce		Pr	oximal



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Thermal Result Sheet

BWA 2021/03/31 15:44
ID : John Doe Height : 173cm Age : 41 Gender: Male Weight : 64.0kg
[Clamp Type, Lying Posture]
Muscle-Fat Analysis
Weight 64.0 kg Normal Range (55.9~75.7)
Skeletal Muscle Mass 21.9 kg Normal Range (28.2~34.4)
Soft Lean Mass39.7 kgNormal Range(47.5~58.1)
Body Fat Mass22.1 kgNormal Range(7.9~15.8)
Obesity Analysis
BMI 21.4 kg/m² Normal Range (18.5~25.0)
Percent Body Fat 34.5 % Normal Range (10.0~20.0)
Segmental ECW Ratio Analysis
Right Arm 0.384 Normal Range (0.360~0.390)
Left Arm 0.385 Normal Range (0.360~0.390)
Trunk 0.414 Normal Range (0.360~0.390)
Right Leg 0.429 Normal Range (0.360~0.390)
Left Leg 0.428 Normal Range (0.360~0.390)
Body Water Analysis
Intracellular Water 18.3 L Normal Range (23.0~28.0)
Extracellular Water 13.0 L Normal Range (14.0~17.2)
Total Body Water31.3 LNormal Range(37.0~45.2)
Proximal
Whole Body Phase Angle 3.8 ° Impedance
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InBody www.inbody.com

BWΛ	2021/03/31 15:44
ID : John Do Height : 173cm Gender: Male	Age : 41
Water Contr	ol
ECW Ratio	0.415
Target ECW	Ratio 0.385
Over Hydrati	on -1.5 L (-1.65~-1.35)
Target Weigh	nt 65.5 kg





Data Management Program

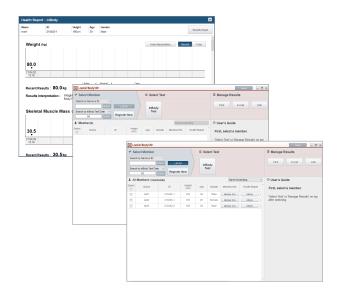
LookinBody WEB (Cloud)

A cloud-based client and data management solution designed to optimize performance and deliver a better user experience. Try a free 1-month demonstration by contacting regional managers.

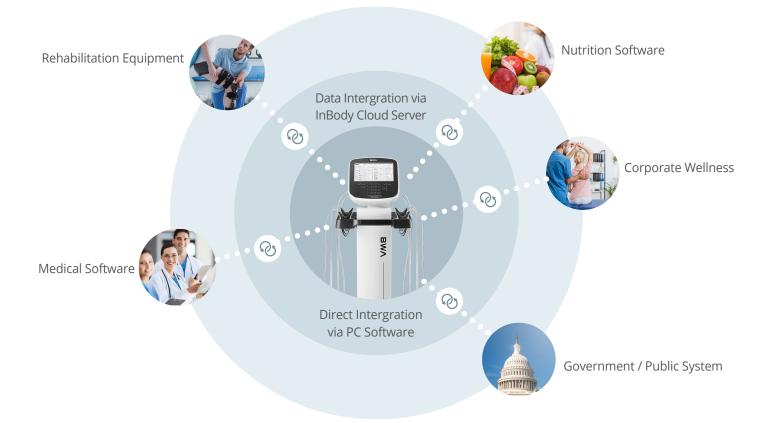
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LookinBody120 (PC Software)

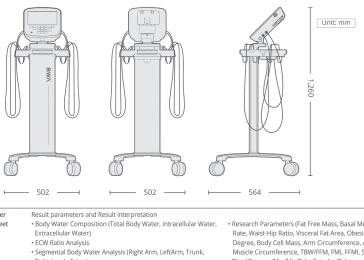
LookinBody120 allows you to view and manage all BWA data generated from your BWA device.



InBody Integration Solution



Specifications



BWA 2.0 BODY WATER ANALYZER

Bioelectric Impedance Analysis (BIA) Measurement Item	Bioelectrical 40 Impedance Measurements by Using 8 Different Impedance(Z) Frequencies (1kHz, 5kHz, 50kHz, 250kHz, 500kHz, 1MHz, 2MHz, 3MHz) at Each of 5 Segments (Right Arm, Left Arm, Trunk, Right Leg and Left Leg)			Body Water Result Sheet	Result parameters and Result interpretation • Body Water Composition (Total Body Water, Intracellular Water, Extracellular Water) • ECW Ratio Analysis • Segmental Body Water Analysis (Right Arm, LeftArm, Trunk,	Research Parameters (Fat Free Mass, Basal Metabolic Rate, Waist-Hip Ratio, Visceral Fat Area, Obesity Degree, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, TBW/FFM, FMI, FFMI, SMI)			
Electrode Method	Phase Angle 16-Point Clamp El	Frequencies Segments (Rig Left Leg)	le Measurements by Using 3 Different (5kHz, 50kHz, 250kHz) at Each of 5 ht Arm, Left Arm, Trunk, Right Leg, and		Right Leg, Left Leg) • Segmental ECW Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg) • Body Water Composition History (Weight, Total Body, Intracellular Water, Extracellular Water, Extracellular Water Ratio) • Musclei-Fat Analysis (Weight, Skeletal Muscle Mass,	Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P. Result Interpretation QR Code QR Code Segmental Body Phase Angle (SkHz, 50kHz, 250kHz; Right Arm, Left Arm, Trunk, Right Leg, Left Leg) Whole Body Phase Angle (S0kHz)			
					Soft Lean Mass, Body Fat Mass)	Impedance Graph (Each segment and each frequency)			
Measurement Method	-		Biolectrical Impedance Analysis (DSM-BIA) pelectrical Impedance Analysis (SMF-BIA)	Body Composition	Obesity Evaluation (BMI, Percent Body Fat) Result parameters and Result interpretation				
Body Composition Calculation Method	No Empirical Estin	nation (Age and	Gender does not affect the result)	Result Sheet	Body Composition Analysis (Total Body Water, Protein, Mineral, Body Fat Mass, Fat Free Mass, Soft Lean Mass, Weight) Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)	Body Balance Evaluation (Upper, Lower, Upper-Lower) Percent Abdominal Fat (Graph) Visceral Fat Level (Graph)			
Optional Items	Thermal Printer (and Tape and BW		ortable Case, BWA Adhesive Electrodes		 Obesity Analysis (Body Mass Index, Percent Body Fat) Segmental Lean Analysis Segmental Fat Analysis 	 Research Parameters (Extracellular Water, Intracellular Water Skeletal Muscle Mass, Fat Free Mass, Basal Metabolic Rate, Waist Circumference, Visceral Fat Level, Visceral Fat Area, Obesity Degree, Bone Mineral Content, Body Cell Mass, Arm Circumference, Arm Muscle Circumference, 			
Logo Display	Name, Address and	d Content Inforn	nation can be shown on Result Sheet		Segmental ICW Analysis Segmental ECW Analysis				
Digital Results	LCD Screen, Looki	nBody Web, Lo	okinBody120		ECW Ratio Analysis (ECW Ratio) Body Composition History (Weight, Skeletal Muscle Mass,	FMI, FFMI, SMI, Recommended Calorie Intake, Calorie			
Type of Result Sheets		earch Result S	Composition Result Sheet, Evaluation heet, Comparison Result Sheet, Result Result Sheet		Porcent Body Fat, ECW Ratio Percent Body Fat, ECW Ratio InBody Score Visceral Fat Area (Graph) Weight Control, Fat Control,	Expenditure of Exercise, InBody Score) Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P) Result Interpretation QR Code QR Code Segmental Body Phase Angle (SkHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg) Whole Body Phase Angle (S0kHz) Impedance Graph (Each segment and each frequency)			
Voice Guidance	Audible guidance	for test in prog	ress and test complete		Muscle Control) • Body Type (Graph)				
Data Storage	Saves up to 100,0	00 measuremei	nts (When ID is entered)		Nutrition Evaluation (Protein, Minerals, Fat Mass) Obesity Evaluation (BMI, Percent Body Fat)				
Administrator Menu	Setup: Configure s Troubleshooting:	0	nage data mation to help use the BWA2.0	Evaluation Result Sheet	Whole Body ECW Ratio (ECW/TBW): (T-Score, Z-score) Visceral Fat Area (VFA,cm ³): (T-Score, Z-score) Body Mass Index (BMI,kg/m ³): (T-Score, Z-score)	Skeletal Muscle Mass and ECW Ratio (SMM,% & ECW/TBW) Skeletal Muscle mass Index and ECW Ratio (SMI,kg/m ² & ECW/TBW)			
InBody USB	Copy, backup, or r on Excel or Lookin		kinBody test data (data can be viewed		Bioeletrical Impedance Vector Analysis (BIVA) Whole Body Phase Angle_50kHz (PhA,°): (T-Score, Z-score) ECW Ratio (ECW/TBW) Balance (Right Arm, Left Arm,	Waist Hip Ratio (WHR): (T-Score, Z-score) Body Cell Mass (BCM, kg): (T-Score, Z-score) Outer Circumference(cm) Weight (kg): (T-Score, Z-score) Skeletal Muscle Mass/WT, Extracellular Mass/Body Cell Mass (ECM/BCM): (T-Score, Z-Score) Total Body Water/Weight (%): (T-Score, Z-Score)			
Barcode Reader	Member ID will be	automatically	nputted when the Barcode is scanned		Trunk, Right Leg, Left Leg): Evaluation • Percent Body Fat (PBF,%): (T-Score, Z-score)				
InBodyBAND Series Recognition Function	Recognizes the Inl inputs personal in		es of the subject and automatically e BWA2.0		Skeletal Muscle mass Index (SMI,m ²): (T-Score, Z-score) Fat Mass Index (FMI,kg/m ²): (T-Score, Z-score) Fat Free Mass Index (FFMI,kg/m ²): (T-Score, Z-score)				
Fingerprint Recogni- tion Function	Recognizes the fin personal informat		measurer and automatically inputs 2.0		• Lean Mass (LM) Balance(Right Arm, Left Arm, Trunk, Right Leg, Left Leg): Amount, Evaluation				
Backup data	Backup data form	BWA2.0 with a	n InBody USB	Research Result Sheet	Body Composition Summary (Fat Free Mass, Body Fat Mass, Intracellular Water, Extracellular Water, Body Water, ECW Ratio, Weight) Body Composition Analysis (Lean Mass, ICW, ECW, Fat Mass, ECW/TBW): Whole Body, Right Arm, Left Arm, Trunk, Right Leg,				
QR Code	See your result on	the InBody mo	bile App		Left Leg Research Parameters (BMI, Percent Body Fat, Percent Abdominal F				
Applied Rating Current	1kHz : 70uA (+-10	uA), Over 5kHz :	300uA (+-30uA)		FMI, Skeletal Muscle Mass, FFMI, SMI, Protein, Body Cell Mass, Mir Circumference, Arm Muscle Circumference, TBW/FFM)				
Adapter	Bridgepower (BPM040S12F07)	Power Input	AC 100-240V, 50-60Hz, 1.2A (1.2A-0.6A)		 Segmental Phase Angle (5kHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg, Left Leg) Whole Body Phase Angle (50kHz) Impedance Graph (Each segment and each frequency) 				
		Power Output	DC 12V, 3.4A	Comparison Result Sheet	Weight, Skeletal Muscle Mass, Body Fat Mass, ECW Ratio, Phase Angle: Whole Body (Current Result, Previous Result, Current-Previous Result difference) Lean Mass, ECW Ratio, Phase Angle: Right Arm, Left Arm, Trunk, Right Leg, Left Leg (Current Result, Previous Result, Current-Previous Result difference)				
	Battery	Battery life	Up to 4-5 Hrs						
	(IBBATT220-12V)	Power Output	DC 12V, 3.34A		Cole-Cole Plot (Today, Recent, Standard Median Curve)				
Display Type	1280 x 800 10.1inch Color TFT LCD		Body Composition Result Sheet	Result parameters and Result interpretation Body Composition Analysis (Total Body Water, Protein, Mineral, 	 Segmental Body Water Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg) Research Parameters (Intracellular Water, Extracellular 				
Internal Interface	Touchscreen, Keypad			for Children				Body Fat Mass, Weight) • Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Body Fat Mass)	
External Interface	RS-232C 4EA, USB Host 2EA, USB Slave 1EA, LAN(10/100T) 1EA, Bluetooth 1EA, Wi-Fi 1EA			 Obesity Analysis (Body Mass Index, Percent Body Fat) Growth Graph (Height, Weight, BMI) Growth Score 	Water, Basal Metabolic Rate, Child Obesity Degree, Bone Mineral Content, Body Cell Mass, FFMJ, FMJ • Blood Pressure (Max/Min/Pulse Rate, Avg/Pulse pressure/R.P.P • Result Interpretation QR Code • QR Code				
Compatible Printer	BWA compatible printers available at www.inbodyservice.com						Body Composition History (Height, Weight, Skeletal Muscle Mass, Percent Body Fat)		
Dimensions	322(W) x 282(L) x 8	81.5(H): mm			 Nutrition Evaluation (Protein, Minerals, Fat Mass) Obesity Evaluation (BMI, Percent Body Fat) 	Segmental Body Phase Angle (SkHz, 50kHz, 250kHz: Right Arm, Left Arm, Trunk, Right Leg. Left Leg) Whole Body Phase Angle (S0kHz) Impedance Graph (Each segment and each frequency)			
Equipment Weight	3.3kg (7.27lb, BWA	(only)			Body Balance (Upper, Lower, Upper-Lower) Segmental Lean Analysis (Right Arm, Left Arm, Trunk, Right Leg, Left Leg)				
Test Duration	About 90 seconds Mode	s for Medical M	ode, about 180 seconds for Research	Thermal Result Sheet	Muscle-Fat Analysis (Weight, Skeletal Muscle Mass, Soft Lean Mass, Body Fat Mass) Obesity Evaluation (BMI, Percent Body Fat)	Segmental ECW Ratio Analysis (human shaped graph) Research Parameters (Extracellular Water, Intracellular Water, ECW Ratio, Skeletal Muscle Mass, Protein,			
Operation Environment	10~40°C (50 ~ 104	°F), 30~75% RH	, 70~106kPa		Segmental Lean Analysis Segmental ECW Ratio Analysis	Minerals, Bone Mineral Content, Body Cell Mass, Percent Abdominal Fat, Waist Circumference, Visceral			
Storage Environment	-10~70°C(14~158°	F),10~80% RH,	50~106kPa (No Condensation)		Body Water Composition (Total Body Water, Intracellular Water, Extracellular Water)	Fat Area, Obesity Degree, Basal Metabolic Rate, Arm Circumference, Arm Muscle Circumference, FMI, FFMI,			
Weight Range	10 ~ 300kg (22.0 ~	551.2lb)			Body Composition Analysis (Protein, Minerals, Body Fat Mass, Fat	SMI, TBW/FFM)			
Age Range	3~99 years				Free Mass, Bone Mineral Content) • Segmental Body Water Analysis	Whole Body Phase Angle (50kHz: Right side of the body) Segmental Phase Angle (5kHz, 50kHz, 250kHz: Right			
Height Range	95~220cm (3ft 1.4	0in ~ 7ft 2.61in)			 Segmental Fat Analysis Segmental Lean Analysis (human shaped graph) 	Arm, Left Arm, Trunk, Right Leg, Left Leg) • Impedance (Each segment and each frequency)			

* QR Code is a registered trademark of DENSO WAVE INCORPORATED



The power of InBody

InBody maintains a high brand position with the highest level of technology.



Certifications obtained by InBody

InBody complies with the quality management system according to international standards. We satisfy country-specific regulatory requirements that apply to product safety and performance, and provide related services.



InBody's Intellectual Property Rights

China paten

InBody owns patents and intellectual property rights around the world and provides products with high accurancy and reproducibillity based on this technology.





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