

Clinical Letter Program (Firmware) update

→ InBody970/BWA2.0 digital Program update

1. Product Information

Model	Program version	Manufacturing date of Program applied
InBody970	970DM-0430	23.06.16
BWA2.0	BWADM-0430	23.06.16
LB120	Ver.5.0.0.0	(To Be Determined)

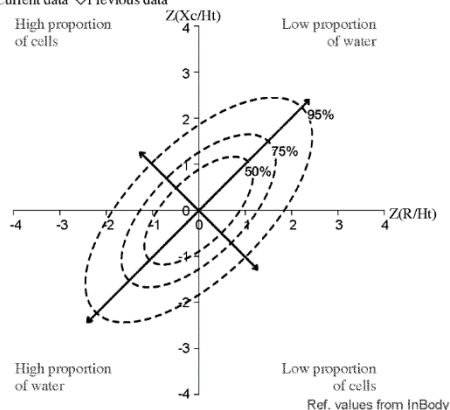
2. Contents I_ Both 970/BWA

1) Result sheet : R and Xc values are added in the option (evaluation) result sheet

Research Parameters

Bioelectrical Impedance Vector Analysis (BIVA)

• Current data ◇ Previous data



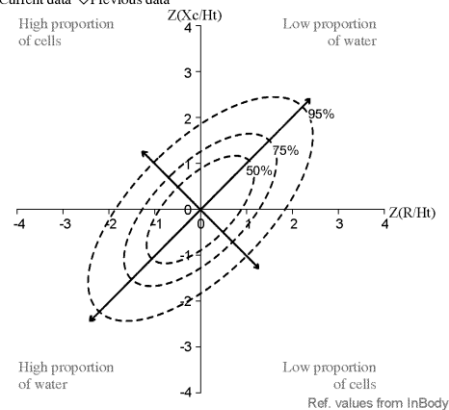
Whole Body	R/Ht (Ω/m)	Xc/Ht (Ω/m)
50 kHz		

<Before>

Research Parameters

Bioelectrical Impedance Vector Analysis (BIVA)

• Current data ◇ Previous data



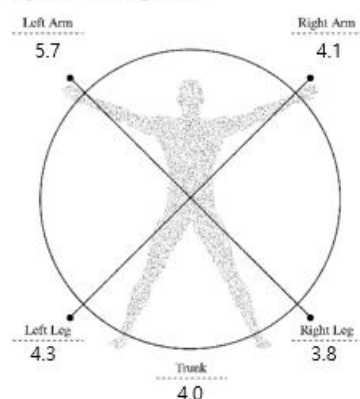
Whole Body	R (Ω)	R/Ht (Ω/m)	Xc (Ω)	Xc/Ht (Ω/m)
50 kHz				

<After>

2) Result sheet : Segmental Phase Angle_50kHz(PhA °) is newly added in the option (evaluation) result sheet

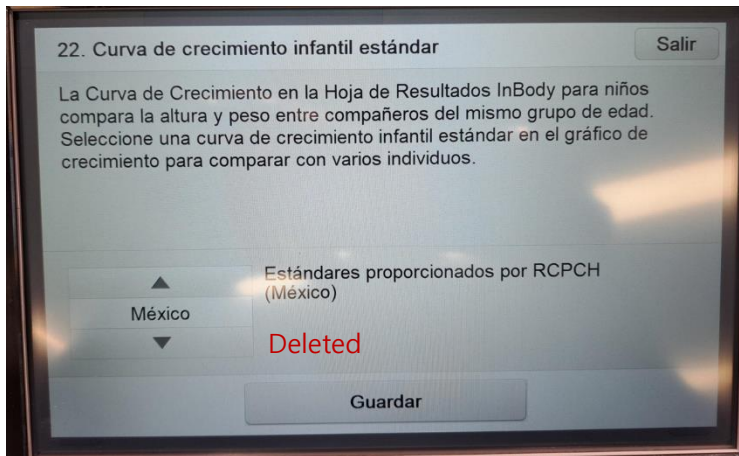
연구항목

Segmental Phase Angle_50kHz

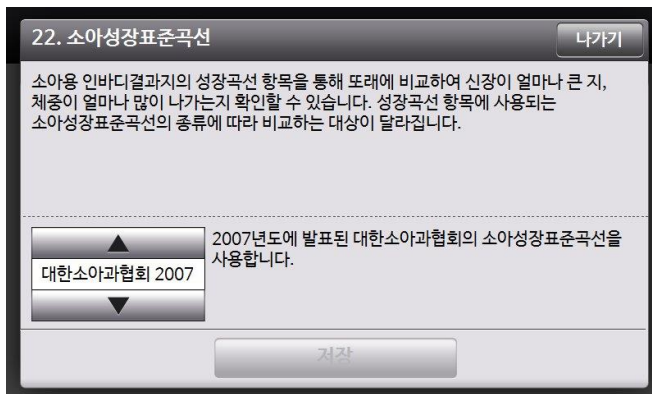


3) LCD : The growth graph of Mexico is deleted

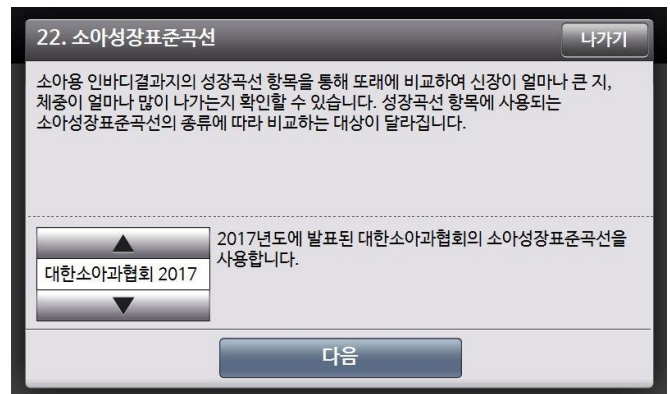
- Since it has been confirmed that the Mexican growth standard is identical to the CDC2000, the Mexican growth graph has been deleted.
- After deletion, the default setting for growth graph is set as CDC2000 automatically.



4) LCD : Default setting for Korean pediatric growth graph is changed from 2007 to 2017.



<Before>



<After>

5) CSV : Unification of terminology between LB120 and CSV files

- The impedance error code provided as "Reserved" in the 970/BWA CSV file is modified to "Impedance Check" for unification of terminology used in the Excel file exported from LB120.
- The blood pressure value in the CSV file is modified to "-" from "0" when the blood pressure is not measured during InBody measurements.

6) Open Protocol/API : The evaluation parameters which found in the right corner of the result sheet are added in the Open Protocol/API

- Nutrition Evaluation: Protein, Minerals, Fat Mass
- Obesity Evaluation: BMI, PBF (Percent Body Fat)
- Body Balance Evaluation: Upper, Lower, Upper-Lower
- Segmental Lean Analysis: Left Arm, Right Arm, Trunk, Left Leg, Right Leg
- Segmental Fat Analysis: Left Arm, Right Arm, Trunk, Left Leg, Right Leg

7) Open Protocol : The parameters that are missing in the Open Protocol compared to the result sheet of InBody970/BWA are added to the Open Protocol

[RA Lean Mass Percentage] - pinlra - Only for BWA (Upper Graph)
[LA Lean Mass Percentage] - pinlla - Only for BWA (Upper Graph)
[TR Lean Mass Percentage] - pinlt - Only for BWA (Upper Graph)
[RL Lean Mass Percentage] - pinlrl - Only for BWA (Upper Graph)
[LL Lean Mass Percentage] - pinlll - Only for BWA (Upper Graph)
[ECM/BCM] - ecmbcm - Missing, All languages for 970/BWA are added
[TBW/WT] - tbwwt - Missing, All languages for 970/BWA are added
[ECM/BCM T-Score] - ecmbcm_ts - Missing, All languages for 970/BWA are added
[ECM/BCM Z-Score] - ecmbcm_zs - Missing, All languages for 970/BWA are added
[TBW/WT T-Score] - tbwwt_ts - Missing, All languages for 970/BWA are added
[TBW/WT Z-Score] - tbwwt_zs - Missing, All languages for 970/BWA are added
[SMM/WT] - insmiw - Missing, All languages for 970/BWA are added
[SMM/WT T-Score] - insmiw_ts - Missing, All languages for 970/BWA are added
[SMM/WT Z-Score] - insmiw_zs - Missing, All languages for 970/BWA are added
[VFA T-Score] - invfa_ts - Missing, US version for 970 is added
[VFA Z-Score] - invfa_zs - Missing, US version for 970 is added
[BMI T-Score] - bmi_ts - Missing, US version for 970 is added
[BMI Z-Score] - bmi_zs - Missing, US version for 970 is added
[FFMI T-Score] - ffm_i_ts - Missing, All languages for 970 are added
[FFMI Z-Score] - ffm_i_zs - Missing, All languages for 970 are added
[FMI T-Score] - fmi_ts - Missing, All languages for 970 are added
[FMI Z-Score] - fmi_zs - Missing, All languages for 970 are added
[Percentage Body Fat T-Score] - pbf_ts - Missing, Korean/Japanese/US versions for 970 are added
[Percentage Body Fat Z-Score] - pbf_zs - Missing, Korean/Japanese/US versions for 970 are added
[Weight T-Score] - wt_ts - Missing, All languages for 970 are added
[Weight Z-Score] - wt_zs - Missing, All languages for 970 are added
[WHR T-Score] - inwhr_ts - Missing, Korean/Japanese/International versions for 970 are added
[WHR Z-Score] - inwhr_zs - Missing, Korean/Japanese/International versions for 970 are added

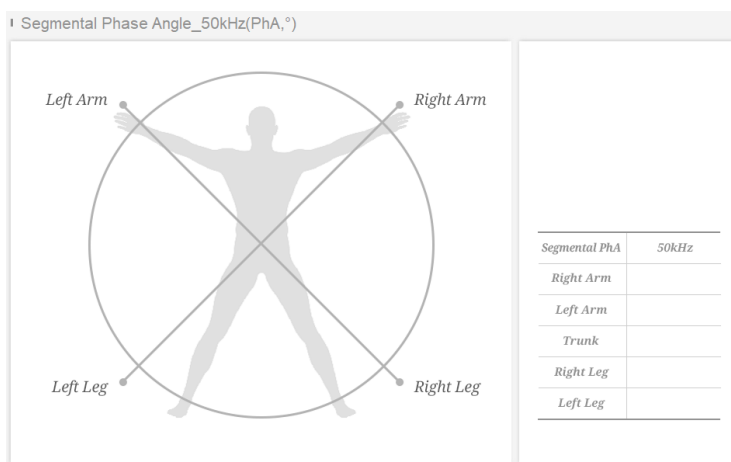
Application Scope	All Languages			
	970/BWA		LB	
	Result Sheet	CSV	Result Sheet	CSV
1) R and Xc Values are added to option (evaluation) result sheet	○	○ (To Be)	○	○ (To Be)
*2) Segmental Phase Angle_50kHz(PhA °) is newly added in the option (evaluation) result sheet	○	-	○	-
3) Mexican growth graph is deleted (CDC2002 is set as the default setting)	Change of Device and LB Setting (Spanish)			
4) The default setting for Korean pediatric growth graph is changed from 2007 to 2017	Change of Device and LB Setting (Korean)			
*5) Change terminology of CSV Files ("Reserved" to "Impedance Check")	-	○	-	-
6) 5 evaluation parameters are added in Open Protocol/API	(Not applicable)			
7) 29 missing parameters are added in Open Protocol				

*2) Segmental Phase Angle was added only in option (evaluation) result sheet, since it has been already provided in the CSV files of device and LB.

*5) The modification was applied only in the CSV files of device, since the LB120 CSV files already used the terminology "Impedance Check".

3. Contents II_BWA

1) LCD : Segmental Phase Angle_50kHz(PhA,°) is newly added



2) LCD : R and Xc values are added in the BIVA graph

