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**Declaration of Equivalence Form** 

### DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2013

A SIGNED COPY WILL BE POSTED ON THE www.dableducational.org WEBSITE

SECTION	Α-	Please complete all items.
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	Bill Huang, a Director of AViTA Corporation, Name of a Company Director Company name				
hereby stat	nereby state that there are no differences that will affect blood pressure measuring accuracy between the				
Maker <sup>a</sup>	Paul Hartmann AG	Address	Paul Hartmann AG, Paul-Hartmann-Strasse 12, 89522 Heidenheim, Germany		
Manufacturer <sup>b</sup>	AVITA Corporation	Address	9F, NO.78, SEC.1, KWANG-FU RD. , SAN –Chung District, New Taipei City 24158 Taiwan R.O.C.		
Brand <sup>e</sup> Blood pressure r	Hartmann neasuring device for which validation is claimed.	Model <sup>d</sup> If alternativ	HARTMANN Veroval BPW22 re model names are used, include all.		
blood press	ure measuring device and the vali	dated bl	ood pressure measuring device		
Maker <sup>a</sup>	AVITA Corporation	Address	9F, NO.78, SEC.1, KWANG-FU RD. , SAN –Chung District, New Taipei City 24158 Taiwan R.O.C.		
Manufacturer <sup>b</sup>	AVITA Corporation	Address	9F, NO.78, SEC.1, KWANG-FU RD. , SAN –Chung District, New Taipei City 24158 Taiwan R.O.C.		
Brand <sup>c</sup> Existing validate	AVITA d blood pressure measuring device.	Model <sup>d</sup>	BPM15S		

which has previously passed the ESH-2010 protocol, the results of which were published as follows:

Kang Y-Y, Zeng W-F, Liu M, Li Y, and Wang J-G. Validation of the AVITA BPM63S wrist blood pressure monitor for home blood pressure monitoring according to the European Society of Hypertension International Protocol revision 2010. **Blood Pressure M** Full reference

The only differences between the devices involve the following components:

Tick one box for each item 1-18.

Part I	1	Algorithm for Oscillometric Measurements	Yes 🗖	No 🖾	N/A <sup>e</sup> 🔲
	2	Algorithm for Auscultatory Measurements	Yes 🛄	No 🛄	N/A <sup>f</sup> 🖾
	3	Artefact/Error Detection	Yes 🗖	No 🛛	
	4	Microphone(s)	Yes 🗖	No 🗖	N/A <sup>f</sup> 🖾
	5	Pressure Transducer	Yes 🗖	No 🖾	
	6	Cuffs or Bladders	Yes 🗖	No 🖾	
	7	Inflation Mechanism	Yes 🗖	No 🛛	
	8	Deflation Mechanism	Yes 🗖	No 🛛	
Part II	9	Model Name or Number	Yes 🛛	No 🗖	
	10	Casing	Yes 🖾	No 🔲	
	11	Display	Yes 🖂	No 🗖	
	12	Carrying/Mounting Facilities	Yes 🛛	No 🗌	
	13	Software other than Algorithm	Yes 🗖	No 🖾	
	14	Memory Capacity/Number of stored measurements	Yes 🛛	No-🗔	
 	15	Printing Facilities	Yes 🔲	No 🗌	N/A <sup>g</sup> 🖾
	16	Communication Facilities	Yes 🔲	No 🗖	N/A <sup>g</sup> 🖂
	17	Power Supply	Yes 🔲	No 🖂	
	18	Other Facilities	Yes 🗌	No 🛛	N/A <sup>g</sup> 🔲

#### An explanation of each item ticked "Yes" must be included in Section B or on a separate sheet.

Tel

Provide the name and address of the actual maker of the device. Notes: а

Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker. h

Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker. c

Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable. d

Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method. e

Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method. f

Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate. g

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SECTION B An explanation for each item, 1 to 18, ticked "Yes" in Section A must be provided here or in an attached document. All differences between the devices must be described.

9) The model name is different. Veroval BPW22 for new device and validated device is BPM15S

10) The designs of the case are different.

11) The size and displayed data are different.

12) Carrying/Mounting Facilities are different.

14) Veroval BPW22 has 2\*100 memories

SECTION C	Please check that the following are included with the application	
	A manual for the validated device	$\boxtimes$
	A manual for the device for which equivalence is being sought	$\boxtimes$
	An image of the validated device	$\boxtimes$
	An image of the device for which equivalence is being sought	$\boxtimes$
	An image of the screen layout of validated device*	$\boxtimes$
	An image of the screen layout of the device for which equivalence is being sought*	$\boxtimes$
	* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included	separately.

SECTION D Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original to our address below. Please email a signed copy of this form, together with the manuals and images for both devices, to info@dableducational.org.

Signature of Director Name Date

Bill Huang 2017.12.11

Company Stamp/Seal

Signature of Witness (

Jonathan Chen

Name

Address

9F, NO.78, SEC.1, KWANG-FU RD , SAN–Chung District, New Taipei City 24158 Taiwan R.O.C.

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### Comparison of the HARTMANN Veroval BPW22 with the AViTA BPM15S

Devices – Item 9	HARTMANN Veroval BPW22	AVITA BPM15S
Pictures		Wellex Wellex
Display Image		IS-38 IS:88AM SYS Sing DIA DIA AVG NO BI HIGH
Validation	Equivalence	ESH 2010 ESH 2002 BHS AAMI
Category	Wrist Type Blood Pressure Monitor	Wrist Type Blood Pressure Monitor
Casing – Item 10	Dimensions 70 * 85 * 24 mm (W * H *D) Ports Cuff Port	Dimensions 64.9 * 86.6 * 27.8 mm (W * H *D) Ports Cuff Port
	Features ABS plastic part Printing	Features ABS Plastic part Printing

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Display – Item 11	LCD	LCD
Carrying/Mounting Facilities – Item 12	Storage Box	Storage Box
Software other than Algorithm – Item 13	N/A	N/A
Memory Capacity Item 14	2*100 times with date and time	1*90 times with date and time
Printing Facilities Item 15	Artwork logo, gift box and manual is different from AViTA BPM15S for different functions	Artwork logo, gift box and manual is different for different functions
Communication Facilities – Item 16	N/A	N/A
Power Supply Item 17	2 * AAA Batteries	2 * AAA Batteries
Other differences	N/A	N/A
Same Criteria	Measurement   Accuracy   Blood Pressure Accuracy ± 3 mmHg   Pulse Accuracy ± 4%   Method   Oscillometri   Ranges   Cuff pressure 0 -300 mmHg   Systolic 50 mmHg – 280 mmHg   Diastolic 30 mmHg – 200 mmHg	Measurement   Accuracy   Blood Pressure Accuracy ± 3 mmHg   Pulse Accuracy ± 4%   Method   Oscillometri   Ranges   Cuff pressure 0 -300 mmHg   Systolic 50 mmHg - 280 mmHg   Diastolic 30 mmHg - 200 mmHg   Mathematic inflation
	Automatic inflation by internal pump Deflation Automatic speed deflation system Cuffs (Please state sizes and materials used) approx. 12.5 X 21 cm	Automatic inflation by internal pump Deflation Automatic speed deflation system Cuffs (Please state sizes and materials used) approx. 12.5 X 21 cm

Bladder dimension: 138x64mm	Bladder dimension: 138x64mm
Sensors	Sensors
US-9111-006-S	US-9111-006-S
Measurement Records	Measurement Records
2*100 times with date and time	1*90 times with date and time
Measurements other than Blood Pressure	Measurements other than Blood Pressure
Pulse rate	Pulse rate
Buttons/Switches	Buttons/Switches
Power	Power
START/POWER Button ( on / off )	START/POWER Button ( on / off )
START/POWER Button ( 017 01 )	START/POWER Button ( 017 011 )
Measurement Records	Measurement Records
Memory Recall Buttons – User 1 / User 2	Memory Recall Button - MEM
Function	Function
Date and Time Setting- combination of button user 1+user2	Date and Time Set Button – SET
	Mode (Alarm) Button - Mode
Analysis	Analysis
N/A	N/A
Event Marking	Event Marking
N/A	N/A
Communication	Communication
N/A	N/A
Display/Symbols/Indicators	Display/Symbols/Indicators
Preparation	Preparation
N/A	N/A
Measurement Procedure	Measurement Procedure
Inflation symbol	Inflation symbol
Deflation symbol	
•	Deflation symbol
Heartbeat symbol during deflation	Heartbeat symbol during deflation
Irregular Heartbeat symbol	Irregular Heartbeat symbol
Post Measurement	
	1

Systolic blood pressure	Post Measurement
Diastolic blood pressure	Systolic blood pressure
Pulse rate	Diastolic blood pressure
WHO indicator	Pulse rate
	WHO indicator
Measurement Records	
Memory recall number	Measurement Records
	Memory recall number
Date and Time	Date and Time
Date and Time	Date and Time
	Date and Time
Power	Devices
Low Battery detection symbol	Power Low Battery detection symbol
<b>Evention</b>	Low Battery detection symbol
Function	Function
Average	Average
	Alarm
Communication	
N/A	Communication
	N/A
Features	
N/A	Features
	N/A
Not described	Not described
N/A	
Algorithms Averages and Differences	Algorithms
Average of all measurement	Averages and Differences
	Average of the last 3 measurements
Average morning values of the last seven days measurements	
between 5:00AM and 9:00AM	Diagnostic
Average evening values of the last seven days measurements	N/A
between 6:00PM and 8:00PM	Functions
	N/A
Diagnostic	
N/A	Communication
Functions	N/A
i unctions	
	1

#### Device Equivalence Evaluation Form

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	N/A	
	Communication N/A	
Comparable Criteria		

Comments		
Recommendation	Recor	mmended
Date	26 <sup>th</sup> Ja	anuary 2018