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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

a Director of A&D Company LTD,

SECTION A - Please complete all items.

Kazuhiko Niwano,

Name of a C	ompany Director		Company name	
hereby state that there are no differences that will affect blood pressure measuring accuracy between the				
Makera	A&D Compnay,Llimited	Address	3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN	
Manufacturer ^b	A&D Compnay,Limited	Address	3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN	

Brand^c A&D Model^d UB-522/525/533

Blood pressure measuring device for which validation is claimed. If alternative model names are used, include all.

blood pressure measuring device and the validated blood pressure measuring device

Makera A&D Compnay,Limited Address 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN

Manufacturera A&D Compnay,Limited Address 3-23-14 Higashi-ikebukuro Toshima-Ku,Tokyo 170-0013 JAPAN

Branda A&D Modela UB-543

Existing validated blood pressure measuring device.

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

Fania C., Benetti E. and Palatini P. Validation of the A&D BP UB-543 wrist device for home blood pressure measurement according to the European Society of Hypertension International Protocol revision 2010. [Internet]

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 ^e
	2	Algorithm for Auscultatory Measurements	Yes 🗌	No 🗌	$N/A^f \boxtimes$
	3	Artefact/Error Detection	Yes 🗌	No 🖂	
	4	Microphone(s)	Yes 🗌	No 🗌	$N/A^f \boxtimes$
	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 ^g ⊠
	16	Communication Facilities	Yes 🗌	No 🗌	$N/A^g \boxtimes$
W	17	Power Supply	Yes 🗌	No ⊠	
	18	Other Facilities	Yes 🗌	No ⊠	N/A ^g

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

Notes:

- Provide the name and address of the actual maker of the device.
- b Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.
- c Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- d Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.
- e Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method.
- f Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

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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.

5)The pressure sensor is replaced to a piezo electric sensor from an electrostatic capacitive sensor, but the accuracy of blood pressure measurement is equivalent between the two sensors.

9)Model number: UB-522/525/533

10) The submitted device and validated device have difference case design, both devices have the different casing.

12) carrying case

13) cuff fit error detection, movement error detection, %IHB detection, date and time

14)UB-543&UB-533:Last 60 measurements each for user1 and user2

UB-522&UB-525:Last 60 measurements

SECTION C	Please check that the following are included with the application

A manual for the validated device

A manual for the device for which equivalence is being sought

An image of the validated device

An image of the device for which equivalence is being sought

An image of the screen layout of validated device*

An image of the screen layout of the device for which equivalence is being sought

* Screen layout shows complete and without observing labels or lines, in recorded and be included as a screen layout.

* 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	1. Niwano	

Company Stamp/Seal

Name Kazuhiko Niwano

Date November 7, 2017

Name Shinobu Ozaki

Address 3-23-14, Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013 JAPAN

Device Equivalence Evaluation Form

Comparison of the AND UB-525 and the AND UB-543

Devices – Item 9	AND UB-525	AND UB-543
Pictures	ARD Medical SYS mmHg DIA mnHg WCDu 55 PUL /min UB-525	DIA. mmHg B. M. mmHg PUL. UB-543 OSTART
Display Image	AVG B B B B B B B B B B B B B B B B B B B	SYS. DIA. mmHg mmHg Avg. PUL. Avg. PUL. Avg. PUL.
Validation	-	ESH 2010
Category	Wrist Blood pressure monitor	Wrist Blood pressure monitor

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Device Equivalence Evaluation Form

Casing – Item 10	Approx: 56 [W] ×88 [H] ×21.5 [D] mm Ports None	Approx: 56 [W] ×88 [H] ×18 [D] mm Ports None
	Start Button/ ▲ button	start button/set button/ ▲ button
Display – Item 11	Type liquid crystal display	Type liquid crystal display
Carrying/Mounting Facilities – Item 12	Carrying : No	Carrying : Yes
Software other than Algorithm – Item 13	Irregular Heart Beat(I.H.B.) detection	Irregular Heart Beat(I.H.B.) detection Date and Time Multi-user
Memory Capacity Item 14	Number of stored measurements Last 60 measurements	Number of stored measurements Last 60 measurements each for user1 and user2
Printing Facilities Item 15	N/A	N/A
Communication Facilities – Item 16	N/A	N/A
Power Supply Item 17	2×1.5V alkaline batteries(LR03 or AAA)	2×1.5V alkaline batteries(LR03 or AAA)
Other differences	Sensors Semiconductor sensor	Sensors Capacitance sensor
Same Criteria	Measurement Accuracy Pressure: ±3 mmHg Pulse: ±5 % Method Oscillometric measurement Ranges	Measurement Accuracy Pressure: ±3 mmHg Pulse: ±5 % Method Oscillometric measurement Ranges

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Device Equivalence Evaluation Form

	Pressure: 0 - 299 mmHg	Pressure: 0 - 299 mmHg
	Pulse: 40 - 180 beats/minute	Pulse: 40 - 180 beats/minute
	Inflation	Inflation
	Constant speed pressurization	Constant speed pressurization
	Deflation	Deflation
	Rapid exhaust valve	Rapid exhaust valve
	Cuffs (Please state sizes and materials used)	Cuffs(Please state sizes and materials used)
	13.5cm-21.5cm,Nylon	13.5cm-21.5cm,Nylon
	Measurement Records	Measurement Records
	SYS,DIA,PUL	SYS,DIA,PUL
	Measurements other than Blood Pressure	Measurements other than Blood Pressure
	None	None
	Buttons/Switches	Buttons/Switches
	Start button	Start button
	Set button	Set button
	▲button	▲button
	Display/Symbols/Indicators	Display/Symbols/Indicators
	IHB	IHB
	Average	Average
	Memory	Memory
	Blood pressure classification bar	Multi-user
	Pressure Indicator bar	Blood pressure classification bar
		Pressure Indicator bar
		Date and Time
	Algorithms	Algorithms
	Irregular HeartBeat(I.H.B.) detection	Irregular HeartBeat(I.H.B.) detection
Comparable Criteria		

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Device Equivalence Evaluation Form

Comments		
Recommendation	Recommended	
Date	7 th November 2017	

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