DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

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

SECTION A - Please complete all items online.						
I		Tomohiro Kukita Director o Name of a Company Director Company name		ealthcare Europe B.V.		
hereby state that there are no differences that will affect blood pressure measuring accuracy between the						
Omron M2 Basic (HEM-7116-E)						
	Blood pressure measuring device for which validation is claimed					
blood press	ure me	asuring device and the				
		Omron M3 Intellisense (HEM-7051-E) Existing validated blood pressure measuring device				
olood press oublished a		asuring device, which has previously passed the Interviously	ernational protocol,	the results of which were		
		Asmar R, Khabouth J, Topouchian J, El Feghali I	R. Mattar J			
		Authors(s) Validation of three automatic devices for self-mea		recours according		
		to the International Protocol: The Omron M3 Inte	llisense (HEM-7051	-E), the Omron M2		
		Compact (HEM 7102-E), and the Omron R3-I Plu	as (HEM 6022-E)	energia de la companya della companya della companya de la companya de la companya della company		
		Title Blood Pressure Monitoring Publication 2010; 15:49-54 Year Volume Pages				
The only di	fferenc	es between the devices involve the following compo	nents:			
		elevant, both Yes and No should be left blank. Please provide details on any dit				
Part I	1	Algorithm for Oscillometric Measurements	Yes □	No ⊠		
	2	Algorithm for Auscultatory Measurements	Yes □	No □		
	3	Artefact/Error Detection	Yes □	No ⊠		
	4	Microphone(s)	Yes □	No □		
	5	Pressure Transducer	Yes □	No ⊠		
	6	Cuff or Bladder	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 measurement	ts Yes ⊠	No □		
	15	Printing Facilities	Yes □	No □		
	16	Communication Facilities	Yes □	No □		
	17	Power Supply	Yes □	No ⊠		
	18	Other Facilities	Yes □	No ⊠		
rief explan	ation o	f differences and further relevant details:				
Outer clo	th is ch	anged, no change on the size, shape and material on	bladder.			
		Date and Time setting, Beeper ON/OFF setting), no				
1) No syml	ool for	average of 3 readings in memory, no symbol for bee rirregular heartbeat symbol.	9 0 00	nbol for date and		
		24 24 (10) (10) (20) (10) (20) (10) (10) (10) (10) (10) (10) (10) (1	- 1 1 C	-ti		
me function	n no fi	ction (average of the latest 3 readings in memory), nunction to detect irregular heartbeat.	o beeper control fun	ction, no date and		
+) Previous	memo	ry instead of 42 memories.				

Tel + 353 1 278 0247

Fax + 353 1 278 3835

dabl®Educational Trust

SECTION B - Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original along with manuals for both devices to our address below.

Signature of Director

Name

Tomohiro Kukita

Date

22 July 2010

Signature of Witness

Name

Janet Meijer

Company Stamp/Seal

OMRON HEALTHCARE EUROPE B.V.

Kruisweg 577

NL-2132 NA Hoofddorp

P.O. Box 2150 NL- 2130 GL Hoofddorp

Tel. +31 - 20 354 82 00 Fax +31 - 20 354 82 01

Address

Omron Healthcare Europe B.V.. Kruisweg 577, 2132NA Hoofddorp, The Netherlands

Fax + 353 1 278 3835

Email info@dableducational.org Web www.dableducational.org

Device Equivalence Evaluation Form

Comparison of the Omron M2_Basic (HEM-7116-E) with the Omron M3 Intellisense (HEM-7051-E)

Devices	M2_Basic (HEM-7116-E)	M3 Intellisense (HEM-7051-E)			
Pictures					
Display	J. Diastolic blood J. Diastolic blood K. Memory symb L. Battery low sy M. Heartbeat syn N. Pulse display O. Deflation sym	d pressure ol mbol nbol	K. Systolic blood pressure L. Diastolic blood pressure M. Memory symbol N. Average value symbol O. Buzzer symbol P. Battery low symbol	Q. Heartbeat symbolR. Pulse displayS. Deflation symbolT. Date/Time displayU. Irregular heartbeat symbol	
Validation			ESH		
Device 1 Criteria					
Same Criteria	Measurement Accuracy		Measurement Accuracy		
	BP accuracy ± 3 mmHg	1, 5	BP accuracy ± 3 mmHg	1,5	
	Pulse accuracy ± 5% Method	1, 5	Pulse accuracy ± 5% Method	1, 5	
	Oscillometric measurement method	1, 5	Oscillometric measurement method	1, 5	
	Pulse 40 bpm -180 bpm 1, 5		Pulse 40 bpm -180 bpm		
	Measurements are from single inflations	13	Measurements are from single inflations		
	Manually initiated measurements	13, 14	Manually initiated measurements	13, 14	
	Inflation		Inflation		
	Inflation 0 mmHg - 299 mmHg	1, 5, 7	Inflation 0 mmHg - 299 mmHg	1, 5, 7	
	Automatic Inflation Fuzzy Logic Query 1	7	Automatic Inflation	7	
	. •	7	Fuzzy Logic	/	
	Press button if BP > 220 mmHg Manually adjustable inflation pressure	7	Press button if BP > 220 mmHg Manually adjustable inflation pressure	7	
	Deflation Deflation	7	Deflation	7	
	Automatic Deflation	8	Automatic Deflation	8	

	Automatic safety release valve Note 2 Cuffs	8	Automatic safety release valve Note 2 Cuffs	8
	Medium 146 mm × 446 mm (Arm circ. 22 to 32 cm) Query 3	6	Medium 146 mm × 446 mm (Arm circ. 22 to 32 cm) Query 3	6
	Large (Arm circ. 32-42 cm) (Optional)	6	Large (Arm circ. 32-42 cm) (Optional)	6
	Sensors	_	Sensors	
	Pressure sensor: capacitive	5	Pressure sensor: capacitive	5
	Buttons/Switches		Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (O/I Start Label)	10	On/Off with Start/Stop (O/I Start Label)	10
	Display/Symbols/Indicators		Display/Symbols/Indicators	
	Measurement Procedure Deflation symbol	4.4	Measurement Procedure	4.4
	,	11	Deflation symbol	11
	Heartbeat symbol during deflation Post Measurement	11	Heartbeat symbol during deflation Post Measurement	11
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	•	11		11
	Measurement error EE, E, E/E and Eo25	11	Measurement error EE, E, E/E and E ₀ 25	11
	Hypertension (Blinking heartbeat) Measurement Records	11, 13	Hypertension (Blinking heartbeat) Measurement Records	11, 13
	Memory icon Query 4	11	Memory icon	11
	Power	11	Power	11
	Low battery	11, 17	Low battery	11, 17
	Algorithms	11, 1,	Algorithms	11, 1,
	Diagnostic		Diagnostic	
	Normotension/Hypertension	13	Normotension/Hypertension	13
	135 / 85 mmHg thresholds	10, 11, 13	135 / 85 mmHg thresholds	10, 11, 13
	Case		Case	
	Display		Display	
	Single screen display	10	Single screen display	10
	Segment LCD	10	Segment LCD	10
	Power		Power	
	AC adapter (Optional)	17	AC adapter (Optional)	17
	Automatic switch-off when not used for 5 min	17	Automatic switch-off when not used for 5 min	17
Comparable Criteria	Measurement		Measurement	
	Measurement Records		Measurement Records	
	Memory: 1 measurement	14	Memory: 42 measurements	14
	Case		Case	
	Power		Power 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	4 "AAA" batteries ~ 300 measurements	17	4 "AA" batteries ~ 1500 measurements	17

Devices	M2_Basic (HEM-7116-E)	M3 Intellisense (HEM-7051-E)	
Device 2 Criteria		Buttons/Switches Measurement Records	
		Memory	10
		Settings	
		Set	10
		Display/Symbols/Indicators Measurement Procedure	
		Audible pulse indicator during deflation (Optional)	18
		Beeps after measurement (Optional) Post Measurement	18
		Irregular heartbeat	11, 13
		Average symbol Date and Time	11, 13
		Date and Time	11
		Date and Time (During memory recall)	11
		Settings	
		Audible pulse indicator mode active Algorithms Averages	11, 18
		Last 3 measurements (within 10 min of each other) mean	13
		Irregular heartbeat detection	13
Web link		http://www.omron-healthcare.com/sitepreview.php?SiteID=2	27

Comments	There were three queries and a note that became known as a result of queries relating to similar devices.		
	Query 1	Fuzzy logic: The manual, for the M3 Intellisense, states that fuzzy logic is used. It appears not to be available for the M2 Basic. There is no reference to this difference in the declaration. Please explain.	
	Response 1	The equivalent group of M3 Intellisense (HEM-7051-E) has the function of "Fuzzy logic", then M2 Basic (HEM-7116-E) also has Fuzzy logic as well in this case. However in our recent marketing approach some of models mention Fuzzy logic in the manual, some models do not mention, although all models in this group have Fuzzy logic. However we put the explanation of automatic inflation in each instruction manual for users to understand the function in spite of using the word of Fuzzy logic. As Fuzzy logic is related to Inflation mechanism, we checked "no differences" on the Part I - Item 7 of declaration forms.	
	Note 2	The fact we have is that the group of M3 Intellisense (HEM-7051-E) have same deflation mechanism. They have same valves for deflation system, as you mentioned, which are the regular deflation valve (slow deflation during measurement) and the rapid	

		exhaust valve (release pressure rapidly from air system in the device after measurement to make comfortable and safe patients). Also these 2 valves are operated by automatic. In some device's manual e.g. M3 Intellisense (HEM-7051-E), we mention only "Deflation: Automatic pressure release valve" as one function of automatic deflation so that we could provide easy explanation to end users.
	Query 3	There appear to be some differences in the cuffs supplied with the monitors.
		a) There are different part numbers between those listed for the devices. These match the declaration of the different cloth covers. No difference is made in the declaration. It is taken that there are no changes.
		b) It is understood that the cloth changes apply to the large cuffs also.
	Response 3	a) These cuffs have no differences except cloth covers. The parts number difference comes from different cloth covers.
		b) These cuffs have no differences except cloth covers.
	Query 4	In the declaration for the M2 Basic, it is stated that there is no symbol for memory. The device does contain such a symbol. It will be overlooked as a minor error.
	Response 4	Yes, this is an error. We will resend the correct declarations.
	Comment 4	The new declaration was received.
Recommendation	The queries v	vere adequately answered. Equivalence is recommended.
Date	26/08/2010	