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		Takefumi Nakanishi Director of	Omron Healtl	hcare Europe B.V.		
Name of a Company Director Company						
hereby state that there are no differences that will affect blood pressure measuring accuracy between the						
	Omron M1 (HEM-4030-E)					
Blood pressure measuring device for which validation is claimed						
blood pres	blood pressure measuring device and the					
		Omron M1 Plus (HEM-4011C-E) Existing validated blood pressure measuring device				
blood pressure measuring device, which has previously passed the <u>International</u> protocol, the results of which were published as follows						
		Belghazi J, El Feghali RN, Moussalem T, Rejdych M	, Asmar RG			
		Authors(s) Validation of four automatic devices for self-measure		are according		
		to the International Protocol of the European Society	of Hypertension:			
	Title Vascular Health and Risk Management Publication Publication Publication Publication Publication Publication Publication Year Volume Pages					
The only d	ifferen	ces between the devices involve the following component	es:			
		relevant, both Yes and No should be left blank. Please provide details on any difference				
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 measurements	Yes ⊠	No □		
	15	Printing Facilities	Yes □	No □		
	16	Communication Facilities	Yes □	No □		
	17	Power Supply	Yes ⊠	No □		
	18	Other Facilities	Yes □	No ⊠		
Brief explai	nation o	of differences and further relevant details:		—		
6) Outer cloth is changed, no change on the size, shape and material on bladder.						
10) No "SET" button.						
11) No sym	bol for	date or time, no symbol for average of 3 readings in mer	nory, no symbol for	beeper ON/OFF,		
no symbol for irregular heart beat. The symbol for memory number is added. 13) No function to detect irregular heartbeat, no function to average of memories (average of the latest 3 measurements) and no beeper function.						
14) 14 memories instead of 21 memories.						
17) Two "AAA" manganese or alkaline batteries instead of four.						

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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

Company Stamp/Seal

Name

Takefumi Nakanishi

Date

17 February 2010

Signature of Witness

Janet Meijer

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

Name Address

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



Comparison of the Omron M1 (HEM-4030-E) with the Omron M1 Plus (HEM-4011C-E)

Devices	Omron M1 (HEM-4030-E)		Omron M1 Plus (HEM-4011C-E)	
Pictures	3 A			
Display	388 **388			
Validation			ESH	
Device 1 Criteria	Display/Symbols/Indicators Measurement Records Memory recall number (Replaces pulse rate momentarily)	11		
Same Criteria	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5% Method Oscillometric measurement method Pulse 40 bpm -180 bpm Manually initiated measurements Measurements are from single inflations Inflation	1, 5 1, 5 1, 5 1, 5, 8 13	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5% Method Oscillometric measurement method Pulse 40 bpm -180 bpm Manually initiated measurements Measurements are from single inflations Inflation	1, 5 1, 5 1, 5 1, 5, 8 13 13
	Inflation 0 mmHg - 299 mmHg	1, 5, 7	Inflation 0 mmHg - 299 mmHg	1, 5, 7

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Device Equivalence Evaluation Form

Manual (bulb) Inflation	7	Manual (bulb) Inflation	7
Deflation		Deflation	
Automatic Deflation	8	Automatic Deflation	8
Cuffs		Cuffs	
Large (Arm circ. 32-42 cm) (Optional) Query 1	6	Large (Arm circ. 32-42 cm) (Optional) Query 1	6
Medium 152 mm × 600 mm (Arm circ. 22 to 32 cm) Query 1	6	Medium 152 mm × 600 mm (Arm circ. 22 to 32 cm) Query 1	6
Small (Arm circ. 17-22 cm) (Optional) Query 1	6	Small (Arm circ. 17-22 cm) (Optional) Query 1	6
Sensors		Sensors	
Pressure sensor: capacitive	5	Pressure sensor: capacitive	5
Buttons/Switches		Buttons/Switches	
Power		Power	
On/Off with Stop (I/O Label)	10	On/Off with Stop (I/O Label)	10
Measurement Records		Measurement Records	
Memory	10	Memory	10
Manual		Manual	
Air release	10	Air release	10
Display/Symbols/Indicators		Display/Symbols/Indicators	
Preparation		Preparation	
Zero cuff pressure check	11, 13, 18	Zero cuff pressure check	11, 13, 18
Measurement Procedure	44	Measurement Procedure	4.4
Re-inflation symbol (insufficient manual inflation)	11	Re-inflation symbol (insufficient manual inflation)	11
Deflation symbol	11	Deflation symbol	11
During Measurement: BP Level & Heartbeat	11	During Measurement: BP Level & Heartbeat	11
Post Measurement		Post Measurement	
SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
Measurement error EE, E, E/E and E₀25	11	Measurement error EE, E, E/E and E₀25	11
Hypertension (Blinking heartbeat)	11, 13	Hypertension (Blinking heartbeat)	11, 13
Measurement Records		Measurement Records	
Memory icon	11	Memory icon	11
Power		Power	
Low battery	11, 17	Low battery	11, 17
Algorithms		Algorithms	
Diagnostic		Diagnostic .	
Normotension/Hypertension	13	Normotension/Hypertension	13
135 / 85 mmHg thresholds	13	135 / 85 mmHg thresholds	13
Case		Case	
Display		Display	
Single screen display	10	Single screen display	10
Segment LCD	10	Segment LCD	10

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Device Equivalence Evaluation Form

	Power 2 "AAA" batteries ~ 1500 measurements Automatic switch-off when not used for 5 min	17 17	Power 4 "AAA" batteries ~ 1500 measurements Automatic switch-off when not used for 5 min	17 17
Comparable Criteria	Measurement Measurement Records Memory: 14 measurements Case Power 2 "AAA" batteries ~ 1500 measurements	14 17	Measurement Measurement Records Memory: 21 measurements Case Power 4 "AAA" batteries ~ 1500 measurements	14 17
Device 2 Criteria			Buttons/Switches Settings Set Display/Symbols/Indicators Measurement Procedure Audible pulse indicator during deflation (Optional)	10
			Beeps after measurement (Optional) Post Measurement Average icon Irregular heartbeat	18 11, 13, 14 11, 13, 18
			Settings Audible pulse indicator mode active Date and Time Date and Time	11, 18
			Date and Time Date and Time (During memory recall) Algorithms Averages and Differences	11 11
			Last 3 measurements (within 10 min of each other) mean Diagnostic Irregular heartbeat detection	13 13
Web link			http://www.	

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Device Equivalence Evaluation Form

Comments	Query 1	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 1	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.	
Recommendation	The queries were adequately answered. Equivalence is recommended.		
Date	26/08/2010		

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