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#### **Declaration of Equivalence Form**

### **DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2011**

	A SIGNED COPY WILL BE POSTED ON THE www.da	oleducational.org WEBSITE	
SECTION A - Please co	mplete all items.		
Name of a Company Dir		of Artsana s.p.a.,	
hereby state that th	ere are no differences that will affect blood pro	essure measuring accu	racy between the
Manufacturer Artsana Blood pressure measuring de	spa Brand PiC Solution vice for which validation is claimed. If alternative model names are	Mode used, include all.	Help Check
blood pressure mea	suring device and the		
Manufacturer Artsana Existing validated blood pres	spa Brand PIC Solution sure measuring device. If alternative model names are used, include	Mode le all.	· My Check
blood pressure mea as follows:	suring device, which has previously passed the	ESH protocol, the re	sults of which were published
Gruseppe Germano; Authors(s)	Angelos Psimenos; Francesco Sarullo; Alessan	dro Venditti; Valerio Pe	ecchioli; Roland Asmar
	utomatic devices for self-measurement of bloo onal Check, Comfort Check, My Check and Trav		to the international Protocol
Blood Pressure Publication		9 - 18:1,15 - 23. Volume Pages	
	between the devices involve the following corevant, both Yes and No should be left blank. It is necessary to prov		Yes" in Section C or on a separate sheet.
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 measure	ments Yes 🗌	No ⊠
15	Printing Facilities	Yes 🗌	No 🗆
16	Communication Facilities	Yes 🗌	No ⊠
17	Power Supply	Yes □	No ⊠
18	Other Facilities	Yes □	No 🖂
An explar	nation of each item ticked "Yes" must be inclu	ded in Section C on the	e next page
	lete all items, bar signatures and seal, online and print. Signatures and seal, online and print. Signatures and seal, online and print.		
Signature of Director	Con	pany Stamp/Seal	
Name	Mario Merlo		
Date	14.12.2011		

Name Francesco Lo Piccolo

Address Artsana s n.a. Via Saldarini Catall

Address Artsana s.p.a. Via Saldarini Catelli 1, 22070, Grandate (Como), Italy

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SECTION C

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.

The device is almost the same, the only differences are the name, the display layout and the software (different from algorithm) that detects if the patient took enough rest to have a proper measurement.



### **Device Equivalence Evaluation Form**

#### Comparison of the Artsana Pic Solution Help Check with the Artsana Pic Solution My Check

Devices	Artsana Pic Solution Help Check Artsana Pic Solution My Check			
Pictures	N SO M		S BO M	
Display	SYS. malig   DIA. malig   DIA		SYS.   SYS.	
Validation			ESH	
Device 1 Criteria	Display/Symbols/Indicators  Post Measurement  Haemodynamic stability indicator  Algorithms  Diagnostic  Haemodynamic stability detection	11, 13, 18 13		
Same Criteria	Measurement Accuracy BP accuracy ± 3 mmHg	1, 5	Measurement Accuracy BP accuracy ± 3 mmHg	1, 5
	Pulse accuracy ± 5%  Method	1,5	Pulse accuracy ± 5 mmng  Pulse accuracy ± 5%  Method	1, 5
	Oscillometric measurement method	1, 5	Oscillometric measurement method	1, 5
	BP 30 mmHg – 260 mmHg	1, 5, 7, 8	BP 30 mmHg – 260 mmHg	1, 5, 7, 8
	Pulse 40 bpm – 199 bpm	1, 5, 8	Pulse 40 bpm – 199 bpm	1, 5, 8

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Device Equivalence Evaluation Form

Devices	Artsana Pic Solution Help Check		Artsana Pic Solution My Check	
Same Criteria (continued)	Measurement (continued)  Method (continued)		Measurement (continued) Method (continued)	
,,	Manually initiated measurements	13	Manually initiated measurements	13
	Measurements are from single inflations Inflation	13	Measurements are from single inflations Inflation	13
	Inflation 0 mmHg – 300 mmHg	1, 5, 7	Inflation 0 mmHg – 300 mmHg	1, 5, 7
	Automatic Inflation	7	Automatic Inflation	7
	Fuzzy Logic	7	Fuzzy Logic	7
	Zero pressure check before inflation	7	Zero pressure check before inflation	7
	Deflation		Deflation	
	Automatic Deflation	8	Automatic Deflation	8
	Automatic safety release valve  Cuffs	8	Automatic safety release valve  Cuffs	8
	Large (Arm circ. 34-46 cm) (Optional)	6	Large (Arm circ. 34-46 cm) (Optional)	6
	Medium (Arm circ. 24 to 36 cm)	6	Medium (Arm circ. 24 to 36 cm)	6
	Small (Arm circ. 18-26 cm) (Optional)	6	Small (Arm circ. 18-26 cm) (Optional)	6
	Sensors		Sensors	
	Pressure sensor: semi conductor	5	Pressure sensor: semi conductor	5
	Measurement Records		Measurement Records	
	Memory: 120 measurements	14	Memory: 120 measurements	14
	Buttons/Switches		Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (O/I Label)  Measurement Records	10	On/Off with Start/Stop (O/I Label)  Measurement Records	10
	Memory (shows average on first press)	10	Memory (shows average on first press)	10
	Settings	10	Settings	10
	Date/Time set (2 buttons: Mode & Plus)  Display/Symbols/Indicators  Measurement Procedure	10	Date/Time set (2 buttons: Mode & Plus)  Display/Symbols/Indicators  Measurement Procedure	10
	Beeps before measurement	18	Beeps before measurement	18
	During Measurement: BP Level & Heartbeat	11	During Measurement: BP Level & Heartbeat	11
	Beeps after measurement  Post Measurement	18	Beeps after measurement  Post Measurement	18
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Measurement error EE, EI, E2, E3 & Er	11	Measurement error EE, EI, E2, E3 & Er	11
	Hypertension (triangle)	11, 13	Hypertension (triangle)	11, 13
	Average (R symbol)	11, 13, 14	Average (A symbol)	11, 13, 14

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Device Equivalence Evaluation Form

Devices	Artsana Pic Solution Help Check  Display/Symbols/Indicators (continued)  Measurement Records		Artsana Pic Solution My Check  Display/Symbols/Indicators (continued)  Measurement Records	
Same Criteria (continued)				
,	Memory "M" symbol	11	Memory "M" symbol	11
	Memory recall number	11	Memory recall number	11
	Delete memory (Press memory button for 5 s)  Date and Time	11	Delete memory (Press memory button for 5 s)  Date and Time	11
	Date and Time	11	Date and Time	11
	Date and Time (During memory recall)  Power	11	Date and Time (During memory recall)  Power	11
	Charged battery	11, 17	Charged battery	11, 17
	Low battery Settings	11, 17	Low battery Settings	11, 17
	Recalibrate (ER displayed)  Algorithms  Averages and Differences	11, 18	Recalibrate (ER displayed)  Algorithms  Averages and Differences	11, 18
	Last 3 measurements mean  Diagnostic	13	Last 3 measurements mean  Diagnostic	13
	135 / 85 mmHg thresholds	13	135 / 85 mmHg thresholds	13
	Casing Display		Casing Display	
	Single screen display	10	Single screen display	10
	Segment LCD Ports	10	Segment LCD Ports	10
	Data port (Optional USB cable and PC software)  Power	16, 18	Data port (Optional USB cable and PC software)  Power	16, 18
	4 "AA" batteries	17	4 "AA" batteries	17
	AC adapter (Optional)	17	AC adapter (Optional)	17
	Automatic switch-off when not used for 4 min	17	Automatic switch-off when not used for 4 min	17
Comparable Criteria				
Device 2 Criteria			Case Features	
			Lid	10

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Device Equivalence Evaluation Form

Comments	The "Help Check" is the same as the "My Check" with the addition of a haemodynamic stability indicator. (The symbol with the "OK" part is shown if the patient is fully relaxed. The symbol with the "!" part is shown if the patient is not fully relaxed and the reading may not be accurate; it is suggested that the patient rest and then take another measurement).
Recommendation	Equivalence is recommended
Date	11/01/2011

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