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Declaration of Equivalence Form

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DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2011

A SIGNED COPY WILL BE POSTED ON THE WWW.dableducational.org WESSITE

l Natalli.		and the sector of	f K-jump Health Co.,	Ltd,
hereby sta	te tha	at there are no differences that will affect blood pres		
Manufacturer	K-iu	imp Health Co., Ltd Brand POLYCRES	ssure measuring accur	acy between the
Auto Contract	3-4-4-7- F	THE HEARTH CO., LEG Brand POLYGREEN TO BE BELLEVILLE OF THE POLYGREEN OF T	Model	KP-7770
blood press	sure r	neasuring device and the	ismot utili pikusii	
Manufacturer	K-ia	mn Health Co. 1821		
र्नेश्वरणसङ्ग सम्बद्धाः	K Optopi	mesonde tress and during transfers are of a some or in the con-	. Model	KP7500 D
blood press published a	sure i	measuring device, which has previously passed the	ESH 2002 protocol	, the results of which w
Jalil Belghaz	i, Rar	nzi N El Feghali, Thérèse Moussalem, Maya Rejdych,	Roland G Asmar	V. 1.
Validation o	ffour	automatic devices for		
of the Europ	ean S	automatic devices for self-measurement of blood p lociety of Hypertension	ressure according to t	he International Protoco
Wa.				
5 8 45 45 45 454		form of the	(4) 389–400.	
The only diffe	erenc	es hetwoon the devices the		
Victoria (v. 1997) garaja garaj	er 14, 7, 7, 7, 3	The second of the season of th	ments:	
Part I				The Flace Dead Control of Special and Special
	2	Algorithm for Auscultatory Measurements	Yes 🗍	No ⊠
	3	Artefact/Error Detection	Yes 🗍	No 🗌
	4	Microphone(s)	Yes 🗍	No 🖾
	5	Pressure Transducer	Yes 🗌	No 🗌
	5	Cuff or Bladder	Yes 🗌	No ⊠
	7	Inflation Mechanism	Yes 📋	No 🛭
	8	Deflation Mechanism	Yes 🗌	No ⊠
Part II	9	Model Name or Number	Yes 🗌	No ⊠
1	0	Casing	Yes 🖂	No []
1	1	Display	Yes 🏻	No 🗌
12	2	Carrying/Mounting Facilities	Yes 🛛	No 🗌
13	3	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 ⊠
An ex			Yes []	
	işo (CIII)	ation of each item ticked "Yes" must be included in	Section C on the next	nage
(-ompie	RE all items, har signatures and the		
E	mail a	signed copy of this form together with manuals and images for b LOUMP HEALTH COLLEGE	ral II then send the original	to our address below. Please
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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.

- 9) Model Number: Different model number indicates different appearance design
- 10) Casing: In addition to different casing designs, KP7500D has two buttons and KP-7770 has three buttons.
- 11) Display: KP-7770 has same LCD display icons with KP7500 D but larger in dimension. Also, KP-7770 have two types of disply, one is without backlight while another is without backlight.
- 13) Software other than algorithm: The display method of colored WHO indicator is different from the one without backlight.
- 14) KP7500 D has memory storage for single user and KP-7770 has separate memory storage for multi-user.



Device Equivalence Evaluation Form

Comparison of the Polygreen K-Jump KP-7770 with the Spengler K-Jump KP7500 D

Devices	Polygreen K	Jump KP-7770	Spengler K-Jump KP7500 D	
Pictures	No Backlight Recovery	Backlight Bravesor	-tures	
Display	188/88 S	188 BB BB BB BB BB BB BB	BB/BB BB	
Validation			ESH 2002	
Device 1 Criteria	Buttons/Switches Measurement Records User ID Display/Symbols/Indicators Preparation Target (User) selection Measurement Records User Casing Display Backlight version available	10 11 11		
Same Criteria	Measurement Accuracy BP accuracy ± 3 mmHg Pulse accuracy ± 5%	1, 5 1, 5	Measurement Accuracy BP accuracy ± 3 mmHg or ± 2% Pulse accuracy ± 5%	1, 5 1, 5

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Device Equivalence Evaluation Form

Devices	Polygreen K-Jump KP-7770	Spengler K-Jump KP7500 D		
Same Criteria	Measurement (continued)		Measurement (continued)	
(continued)	Method		Method	
	Oscillometric measurement method	1, 5	Oscillometric measurement method	1, 5
	BP 20 mmHg - 300 mmHg	1, 5, 7, 8	BP 20 mmHg - 300 mmHg	1, 5, 7, 8
	Pulse 40 bpm -200 bpm	1, 5, 8	Pulse 40 bpm -200 bpm	1, 5, 8
	Manually initiated measurements	13	Manually initiated measurements	13
	Measurements are from single inflations	13	Measurements are from single inflations	13
	Inflation		Inflation	
	Inflation 0 mmHg - 300 mmHg	1, 5, 7	Inflation 0 mmHg - 300 mmHg	1, 5, 7
	Automatic Inflation — "Electronic Rolling Pump" Query 1 Deflation	7	Automatic Inflation – "Micro Rolling Pump" Query 1 Deflation	7
	Safety release valve "Rapid Exhaust - Electronic solenoid val cuffs	ve" 8	Safety release valve "Rapid Exhaust - Electronic solen cuffs	oid valve" 8
	Medium (Arm circ. 22 to 32 cm)	6	Medium (Arm circ. 22 to 32 cm)	6
	Buttons/Switches		Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (I/O Label)	10	On/Off with Start/Stop (POWER Label)	10
	Measurement Records	40	Measurement Records	40
	Memory Display/Symbols/Indicators	10	Memory Display/Symbols/Indicators	10
	Measurement Procedure		Measurement Procedure	
	Inflation symbol P	11	Inflation symbol P	11
	During Measurement: BP Level & Heartbeat Query 3	11	During Measurement: BP Level & Heartbeat Post Measurement	11
	Post Measurement SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
	Measurement error LL Err, UU Err, P Err, rrErr and HI	11	Measurement error LL Err, UU Err, P Err, rrErr :	
	Hypertension (Indicator strip)	11, 13	Hypertension (Indicator strip)	11, 13
	, ,	10, 11, 13	BP classification (WHO)	10, 11, 13
	· · · · · · · · · · · · · · · · · · ·	11, 13, 18	Body movement error	3, 11, 13, 18
	Measurement Records	4.4	Measurement Records	4.4
	Memory	11	Memory	11
	Memory recall number Date and Time	11	Memory recall number Date and Time	11
	Date and Time	11	Date and Time Date and Time	11
	Date and Time (During memory recall) Query 4		Date and Time Date and Time (During memory recall) Query 4	
		11		11
	Setting of Date and Time	11	Setting of Date and Time	11

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Device Equivalence Evaluation Form

Devices	Polygreen K-Jump KP-7770		Spengler K-Jump KP7500 D		
Same Criteria (continued)	Display/Symbols/Indicators (continued) Power		Display/Symbols/Indicators (continued) Power		
,	Low battery	11, 17	Low battery	11, 17	
	Algorithms Diagnostic		Algorithms Diagnostic		
	Normotension/Hypertension	13	Normotension/Hypertension	13	
	WHO Guidelines	13	WHO Guidelines	13	
	Body movement error detection	3, 13	Body movement error detection	3, 13	
	Casing Display		Casing Display		
	Single screen display	10	Single screen display	10	
	Segment LCD Power	10	Segment LCD Power	10	
	4 "AA" batteries ~ 250 measurements	17	4 "AA" batteries ~ 250 measurements	17	
	AC adapter (Optional)	17	AC adapter (Optional)	17	
	Automatic switch-off when not used for 150 seconds	17	Automatic switch-off when not used for 150 seconds	17	
Comparable Criteria	Measurement Measurement Records Memory: 100 total, 2 to 5 users – 2×50, 3×33, 4×25 or 5×20	14	Measurement Measurement Records Memory: Optional 42, 85 or 99 sets Query 2	14	
Device 2 Criteria			none		

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Device Equivalence Evaluation Form

Date	22/08	8/2011			
Recommendation	Equivalence is recommended				
	6	Query Response	No information is provided regarding the sensors used. Are they the same for both devices? Yes, both of them use the same sensor as declared in the equivalence form.		
	5	Response	The "Fuzzy Logic" is a marketing name regarding the type of oscillometric measurement and the KP-7770 manual just has no emphasis on this area. As declared in the equivalence form, both devices utilize same measurement algorithm.		
	5	Query	Fuzzy logic is stated in the title of the manual for the KP7500 D but not elsewhere and not at all for the KP-7770. Please explain.		
	4	Response	Yes, the interpretation is correct and also hold for KP-7770 except the user number is also shown together with measurement number.		
	4	Query	From the diagrams in the KP7500 D manual, it appears that, during memory recall, measurement number date and time are shown in sequence for each measurement. Is this interpretation correct? Does this also hold for the KP-7770?		
	3	Response	Yes, KP-7770 has same display of BP level and heartbeat during deflation as KP7500 D.		
	3	Query	In the KP-7770, are BP level and heartbeat displayed during deflation? This is not stated in the manual.		
	2	Response	The actual number of memory capacity could be adjusted as 42, 85, or 99 sets for different order request.		
		Query	The memory for the KP7500 D is described as "42, 85, 99 sets". What does this mean?		
		Response	Yes, they are the same.		
	1	Query	The inflation method described for the KP7500 D is a "Micro rolling pump". The method described for the KP-7770 is an "Electrical rolling pump". Are they the same?		
	Other than that there appears to be no differences in the devices. A few clarifications were sought and answered satisfactorily.				
Comments	The K-Jump KP7500 D, sold under the brand Spengler, is supplied with memory for 42, 85 or 99 measurements. The K-Jump KP-7770, sold under the brand Polygreen, is supplied with memory for 100 measurements but with a one to five user capacity – with facilities for selecting the user and the number of users. Two versions are available, one with a backlight and one without. Though slightly larger, the screen has the same layout as stat of the KP7500 D, with the backlit version having built in colours in the WHO indicator.				

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