dabl [®] Educational Irust	Declaration of Equivalence
DECLARATION OF BLOOD PRESSURE N	IEASURING DEVICE EQUIVALENCE 2011
A SIGNED COPY WILL BE POSTED ON TH	E www.dableducational.org WEBSITE
SECTION A - Please complete all items.	

1 Mike M Name of a		Director			a Director of	Zhongshan Transtek	Electronics Co.,Ltd,	
hereby star	te that t	here are no	differences tha	t will a	ffect blood press	ure measuring accura	icy between the	
Manufacturer Blood pressure	ELECT	GSHAN RONICS CO., device for which		Brand If alternal	BRAUN	Model	BP6100	
blood pres	sure me	asuring devi	ice and the					
Manufacturer Existing validate	ELECT	GSHAN RONICS CO., essure measuring		Brand model na	TRANSTEK	Model II.	TMB-986	
blood pres published a		COLUMN STATISTICS IN THE OWNER	evice, which ha	as prev	viously passed t	he 2002 protocol,	the results of which	ch were
Wen Jun Li Authors(s)	u, Su Ga	ang Li, Zhe So	ong and Wei Go	ong				
Validation to the Inter Title			ood pressure m	onitor	TMB-986 for hor	ne blood pressure mo	onitoring according	
Blood Pres	sure Mo	onitoring				15:278–2. ume Pages		
The only di	fference	es between	the devices invo	olve th	e following comp	onents:		
When a compo	nent is not	relevant, both Ye	s and No should be let	ft blank. P	t is necessary to provide	details on each item ticked "Y	es" in Section C or on a separa	te sheet.
Part I	1	Algorithm	for Oscillomet	ric Me	asurements	Yes 🗆	No 🖂	
	2	Algorithm	for Auscultato	ry Mea	surements	Yes 🗆	No 🗔	
	3	Artefact/I	Error Detection			Yes 🗖	No 🖂	
	4	Micropho	ne(s)			Yes 🗔	No 🗔	
	5	Pressure	Transducer			Yes 🗖	No 🖂	
	6	Cuff or Bl	adder			Vec	No Most	0

	6	Cuff or Bladder	Yes 🗆	No MICS CON
	7	Inflation Mechanism	Yes 🗆	No
	8	Deflation Mechanism	Yes 🗖	No X Daniel
Part II	9	Model Name or Number	Yes 🖂	NO
	10	Casing	Yes 🖾	Noile at *
	11	Display	Yes 🖾	NOE OK
	12	Carrying/Mounting Facilities	Yes 🖂	NO 2
	13	Software other than Algorithm	Yes 🖾	NOTHER
	14	Memory Capacity/Number of stored measurements	Yes 🖂	No 🗆
	15	Printing Facilities	Yes 🗖	No 🖂
	16	Communication Facilities	Yes 🗖	No 🖂
	17	Power Supply	Yes 🗆	No 🖂
0.11	18	Other Facilities	Yes 🗖	No 🗆

An explanation of each item ticked "Yes" must be included in Section C on the next page

SECTION B 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 capy of this form bgether with manuals and images for both devices to info@dableducational.org.

Signature of Director	-1-10-013	
Name	Jon 124	
Date Sept. 14. 2	5/2	
Signature of Witness	Ryan ZHONG	

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ence Form

SECTION C of Upper arm blood pressure monitor

Model Name or Number

	TMB-986	Upper arm blood pressure monitor
Model Number	TMB-986	BP6000, BP6100, BP6200

Casing

	ТМВ-986	BP6000, BP6100, BP6200
Casing	DI TRANSPORTATION CONTRACTOR	

<u>Display</u>

	TMB-986	BP6000, BP6100, BP6200
LCD Display Drawing	SYS white DIA white Pulled and Arg	IB-88 88:88 IB-88 88:88 IB-88 88 IB-88 I

Part and



Page **1** of **3**

a,

Ryan

Carrying/Mounting Facilities

	TMB-986	BP6000, BP6100, BP6200
Carrying/Mounting Facilities		

Software Other than Alogrithm

	TMB-986	BP6000	BP6100	BP6200
Software	Dual user	Dual user	Dual user	 Dual user
Other than	2x60 memories	2x40 memories	2x50 memories	2x60 memories
Alogrith m	WHO indicator	 WHO indicator 	 WHO indicator 	WHO indicator
	Low battery indicator	 Low battery indicator 	 Low battery indicator 	Low battery indicator
	 Day/time setting 	 Day/time setting 	 Day/time setting 	 Day/time setting
	 Blood pressure & heart rate measureme nt 			
				IHB detection
	 Blood pressure data memorized with date/time 	 Blood pressure data memorized with date/time 	 Blood pressure data memorized with date/time 	 Blood pressure data memorized with date/time
	 Last 3 reading average 	 Last 3 reading average 	• Full day average of past 7 days	 Full day average of past 7 days Morning average of past 7 days Evening average of

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Page 2 of 3

1 2

,			past 7 days
•	•	•	 Morning hypertensio n
•	•	•	 Display with back light
 Error message indication 	 Error message indication 	 Error message indication 	 Error message indication
 Auto shut off when no operation for 1 min 	 Auto shut off when no operation for 1 min 	 Auto shut off when no operation for 1 min 	 Auto shut off when no operation for 1 min

Memory Capacity/Number of Store Measurements

	TMB-986	BP6000	BP6100	BP6200
Memory	2x 60 sets	2 x 40 sets	2 x 50 sets	2 x 60 sets
Capacity/Number	(dual user, 60	(dual user, 40	(dual user, 50	(dual user, 60
of Store	measurements	measurements	measurements	measurements
Measurements	for each user)	for each user)	for each user)	for each user)

Communication Faciilities

.

	TMB-986	BP6000	BP6100	BP6200
Communication Faciilities	N			



Page **3** of **3**

12 2

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Device Equivalence Evaluation Form

Comparison of the Braun BP6100 with the Transtek TMB-986

Devices	Braun BP6100	Transtek TMB-986
Pictures		TIB BJ 58
Display		SYS mmRg DIA mmRg Pul/min A O O O O B O O O O O B O O O O O O M O O O O O O O O O
Validation		ESH 2002
Device 1 Criteria	Buttons/Switches Settings	
	Mode 2 Analysis	0
	Display/Symbols/Indicators Measurement Procedure	0
	Inflation symbol ^{Query 7}	1
		3

Devices	Braun BP6100	Transtek TMB-986		
Same Criteria	Measurement	Measurement		
	Accuracy	Accuracy		
	Pulse accuracy ± 5%	1, 5	Pulse accuracy ± 5%	1, 5
	Method		Method	
	Oscillometric measurement method	1, 5	Oscillometric measurement method	1, 5
	Pulse 40 bpm – 199 bpm	1, 5, 8	Pulse 40 bpm – 199 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 ^{Query 2}	1, 5, 7	Inflation 0 mmHg – 300 mmHg ^{Query 2}	1, 5, 7
	Automatic Inflation	7	Automatic Inflation	7
	Zero pressure check before inflation Query 5	7	Zero pressure check before inflation	7
	Deflation		Deflation	
	Automatic Deflation	8	Automatic Deflation	8
	Automatic safety release Query 3 & Response 2	8	Automatic safety release Query 3 & Response 2	8
	Sensors		Sensors	
	Pressure sensor: piezo-resistive Query 10	5	Pressure sensor: piezo-resistive Query 10	5
	Buttons/Switches		Buttons/Switches	
	Power		Power	
	On/Off with Start/Stop (Start Label) Query 8	10	On/Off with Start/Stop (Start/Stop Label)	10
			Measurement Records	
	Memory	10	Memory	10
	User ID (A or B)	10	User ID (A or B)	10
	Display/Symbols/Indicators		Display/Symbols/Indicators	
	Measurement Procedure Deflation symbol Query 7	11	Measurement Procedure Deflation symbol	11
		11		11
	During Measurement: BP Level & Heartbeat Post Measurement	11	During Measurement: BP Level & Heartbeat Post Measurement	11
	SBP, DBP and Pulse	11	SBP, DBP and Pulse	11
			-	11
	BP classification (WHO) Measurement Records	10, 11, 13	BP classification (WHO) Measurement Records	10, 11, 13
	Memory recall number	11	Memory recall number	11
	User (A or B) Date and Time	11	User (A or B) Date and Time	11
	Date and Time (During memory recall)	11	Date and Time (During memory recall)	11
	Power	11	Power	11
	Low battery	11, 17	Low battery	11, 17

Devices	Braun BP6100		Transtek TMB-986		
Same Criteria (continued)	Casing Display	Casing Display			
(Single screen display	10	Single screen display	10	
	Segment LCD	10	Segment LCD	10	
	Power		Power		
	Automatic switch-off when not used for 1 min	17	Automatic switch-off when not used for 1 min	17	
Comparable Criteria	Measurement		Measurement		
	Accuracy		Accuracy	/1	
	BP accuracy ± 3 mmHg (10°C-40°C) Query 1 Cuffs	1, 5	BP accuracy ± 3 mmHg (15°C-25°C) ± 6 mmHg otherwise Cuffs	1,5	
	Small/Medium (Arm circ. 22 cm to 32 cm) # TMB-1250-02	Query 6 6	Small/Medium (Arm circ. 22 cm to 32 cm) # AC2232-01 Query	⁵ 6	
	Large/XLarge (Arm circ. 32-42 cm) # TMB-1250-03 Query 6	6	Large/XLarge (Arm circ. 32-42 cm) # TMB-986-AC-05 Query 6	6	
	Measurement Records	0	Measurement Records	0	
	Memory: 50 measurements × 2 users	14	Memory: 60 measurements × 2 users	14	
	Buttons/Switches		Buttons/Switches		
	Settings		Settings		
	Date/Time set	10	Set	10	
	Display/Symbols/Indicators Post Measurement		Display/Symbols/Indicators Post Measurement		
	Measurement error E1, E2, E3, E4, Eexx ^{Query 4}	11	Measurement error E1, E2, E3, (E10, E11) \rightarrow E4, E20, E21, Eexx ^G	uery ⁴ 11	
	Hypertension (Indicator strip)	11, 13	Hypertension (Grading strip)	11, 13	
	Average (Icon)	11, 13, 14		1, 13, 14	
	Measurement Records	, ,	Measurement Records		
	Memory "M" symbol	11	Memory icon (Magnifying glass)	11	
	Date and Time		Date and Time		
	Date and Time	11	Setting of Date and Time set but only display of Time	11	
	Casing Power		Casing Power		
	4 "AA" batteries ~ 300 measurements	17	4 "AAA" batteries	17	
Device 2 Criteria			Display/Symbols/Indicators		
			Post Measurement		
			Irregular heartbeat	1, 13, 18	
			Body movement error 3, 1	1, 13, 18	
			Measurement Records		
			Memory, number of stored measurements	11	
			Settings		
			Current unit (kPa / mmHg) marker	11	

Devices	Braun BP6100	Transtek TMB-986	
Device 2 Criteria		Algorithms	
(continued)		Averages and Differences Last 3 measurements mean	13
		Diagnostic	13
		Irregular heartbeat detection Query 11	13
		Body movement error detection	3, 13
		Parameter Settings	
		Unit conversion (kPa / mmHg)	13
		Casing	
		Power	
		AC adapter (Optional)	17

Comments		Query	In the specifications section of the Braun manual, blood pressure accuracy is described as being ± 3 mmHg whereas, in the Transtek TMB-986 manual, it is described as being ± 0.4 kPa (3 mmHg), when the temperature is between 15°C and 25°C, and ± 0.8 kPa (6 mmHg), when the temperature is outside that but between 10°C and 40°C. Both manuals state that the operating temperature range is 5°C and 40°C with a relative humidity up to 80%. It must, therefore, be inferred that the accuracy claimed for the Braun BP6100 applies to the full operating temperature range. Furthermore, no level of accuracy is claimed for the Transtek TMB-986 operating between 5°C and 9.9°C. While the Transtek TMB-986 has been validated, can you please explain the differences in the accuracy claims?				
	1	Response	The device standard working the value is not usable. For t Braun manual accordingly.	-	· · ·		
		Comment	According to this response, t	here are still differences	s in the manuals regar	ding the accuracy of th	e devices
			Braun BP6100 Transtek TMB-986 Nevertheless, this is just an and the Transtek device has	•	•		-

2 Query In the specifications sections, of both the manual for the Braun BP6100 and the manual for the Transtek TMB-986, the range of measurement for blood pressure is described as 0 mmHg to 300 mmHg to 1300 mmHg the maximum inflation with the actual measurement range being a narrow range within those limits? 2 Response 300mmHg is for both devices the maximum inflation. Once it is reached, it will immediately deflate to a smaller value, to protect the user and the device. This safety function can be measured with the equipment BP 2, but is not described in any of the CM's. 3 Comment The explanation clarifies this feature and also the presence of the safety release. 3 Query In the specifications section of the Braun manual, an item "Exhaust" is described as "Automatic exhaust valve". It is unclear as to whether this refers to automatic deflation or a safety exhaust valve. The manual for the Transtek TMB-986 does not contain any reference to deflation. Please clarify the safety exhaust provisions in both devices. 8 Response TMB-986 is using the principle of inflation measurement. The item "Exhaust" was a mistake in the OM. We have now corrected the Braun manual acordingly. Comment The item is removed from the manual as other explained in details. All other error codes which are explained in therefore, they are only metioned as Exx. Both Transtek TMB-986 and Braun BP6000 series will show regardless of the error. Please explaind. 4 Query Eight error codes (E1, E2, E3, E10, E11, E20, E21, Eexx) are described for the Transtek TMB-986 whereas none is	-					
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986. We have now corrected the Braun manual accordingly.		Query				
Comment The explanation clarifies this function.	5	Response				
		Comment	The explanation clarifies this function.			

QueryAccording to the manual for the Transtek TMB-986, only one cuff is supplied (AC2232-01). However, in the validat [Liu WJ, Li SG, Song Z, Gong W. Validation of the Transtek blood pressure monitor TMB-986 for home blood monitoring according to the International Protocol. <i>Blood Press Monit</i> 2010; 15 (5):278-80], two cuffs are used. please explain this anomaly? Are both cuffs supplied with the device or is one available as an optional extra? W part number for the other cuff? No part numbers for cuffs are provided for the cuffs in the Braun manual. What are numbers used for the BP6100 cuffs?6ResponseThe Braun BP6000 series will be the same as the TMB-986 and it will have the 2 cuffs supplied for each model. For the part number for the big cuff is TMB-986-AC-05 (32-42cm). For the BP6100, the part numbers from supplier for are TMB-1250-02 (22-32cm) and TMB-1250-03 (32-42cm). All cuff bladders are exactly the same. The only different outside material. For the TMB-986, it is polyester and for the BP6100, it is nylon.CommentThe fact that the cuff bladders are the same is sufficient. Previous studies have shown that outside materials do any effect on the accuracy of readings.QueryThere are two triangles on the left hand side of the screen for the Braun BP6100. No explanation of their use is provided of the screen for the Braun BP6100. No explanation of their use is provided of the screen for the Braun BP6100.	pressure Can you hat is the the part MB-986, the cuffs nce is the
 Response The Braun BP6000 series will be the same as the TMB-986 and it will have the 2 cuffs supplied for each model. For the part number for the big cuff is TMB-986-AC-05 (32-42cm). For the BP6100, the part numbers from supplier for are TMB-1250-02 (22-32cm) and TMB-1250-03 (32-42cm). All cuff bladders are exactly the same. The only different outside material. For the TMB-986, it is polyester and for the BP6100, it is nylon. Comment The fact that the cuff bladders are the same is sufficient. Previous studies have shown that outside materials do any effect on the accuracy of readings. 	the cuffs nce is the
any effect on the accuracy of readings.	
Query There are two triangles on the left hand side of the screen for the Braun BP6100. No explanation of their use is pr	not have
the manual. Please explain their uses, if any.	ovided in
7 Response The two triangles indicate only the inflation (upper triangle) and the open valve and release pressure (lower triang is no other function behind these triangles. We have now added a short explanation of these 2 symbols in the Brau	-
Comment The explanations clarify their uses	
Query In the Braun BP6100, how are measurements be aborted before completion? This is not described in the manual.	
8 Response It is described in the chapter "taking a measurement" last line.	
Comment The last line states, "After taking blood pressure measurement, turn off the device by pressing the "start" (1) I automatically after 1 minute." It is taken that this button can also be used to abort a reading if required.	outton or
Query The Transtek TMB-986 is manufactured in China by Zhongshan Transtek Electronics Co. Ltd. While the declaration states that they manufacture the Braun BP6100, according to the manual, it is manufactured in Switzerland by Ka SA. Can you please explain this anomaly?	
9 Response According to your definition the Manufacturer is Transtek because they "manufacture" all the single compone BP6000. However, according to the directive 93/42/CE the legal manufacturer is Kaz. This means that Transtek is t manufacturer of the BP6000, but once the product is onto the market, the legal manufacturer is Kaz: we have responsibility in case of any issues with customers. To make it short, if we want to have the CE mark we need to Legal Manufacturer for this product. This is requested by the directive 93/42/CE.	he actual the legal
Comment This explanation, along with supporting documentation, prove both devices are manufactured Transtek. understood that the reference to the BP6000 refers to the BP6000 series which includes the BP6100.	

	10	Note	Evidence was supplied to dablEducational Ltd. to prove that the key components of both devices are identical.
		Query	Is BP error detection in the Transtek TMB-986 independent of the IHB feature?
	11	Response	The BP error detection has nothing to do with the IHB detection.
		Comment	This explanation is accepted.
Recommendation	Equivalence is Recommended		
Date	28/11/2012		