dabl®Educational Trust

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	HAN, JEA WOO Name of a Company Director	Director of Company name	Genexel Medical I	nstruments, Inc		
hereby state that there are no differences that will affect blood pressure measuring accuracy between the						
BP1750 (Braun BP VitalScan Plus 1750) Blood pressure measuring device for which validation is claimed						
blood pressure	measuring device and the					
BP1650 (Braun BP VitalScan Plus 1650) Existing validated blood pressure measuring device						
blood pressure a	measuring device, which has previously p	passed the <u>ESH</u> prot	tocol, the results o	f which were		
published as for						
	Nolly H, Osso P, Nolly A, Silva N Authors(s)	I and Romero M.				
	Self-measurement of blood pressure:v	alidation of the Braun BP	VitalScan Plus 165	0 monotor		
According to the European Society of Hypertension International Protocol						
	Blood Pressure Monitoring		3:101-106			
	Publication	Year Volume				
The only differe	ences between the devices involve the fol-	lowing components:				
	not relevant, both Yes and No should be left blank. Please pro		ow.)			
Part I 1	Algorithm for Oscillometric Measur	rements	Yes	No 🗹		
2	Algorithm for Auscultatory Measur	ements	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	d measurements	Yes ☑	No □		
15	Printing Facilities		Yes □	No □		
16	Communication Facilities		Yes	No 🗆		
17	Power Supply		Yes 🗆	No 🗹		
18	Other Facilities		Yes 🗆	No 🗆		
Brief explanation	n of differences and further relevant deta	ils:				
SECTION B -	Complete all items, bar signatures and seal, online a	and print. Sign and seal it the	n send the original alo	no with manuals		
	for both devices to our address below.	and print. Sign and sear it the	in send the original alo	ng with manuals		
Signature of Dia	rector 32 ms	Company Stamp	o/Seal			
Name	HAN, JEA WOO					
Date	2009. 5. 19	Genexe	el Medical,	Inc.		
Signature of Wi	tness M75FV		sorfor) math		
Name	Seo, Jong won	THE PARTY OF THE P	-	C		
Address	III. Yangjae-dong, se	ocho-gu. Seoul,	Korea			

An accepted equivalence application Additional information supplied by applicant

	Submitted device (1)	Validated device (2)
Devices	BP1750	BP1650
lmages	BRAUN	
Validation		BHS Wrist Blood Pressure Devices (Incorrect - ESH)
Device 1 criteria	Averaging facility	
	Memory preservation	
Same criteria	Oscillometric measuring method	Oscillometric measuring method
	Error code (ERR and)	Error code (ERR and)
	Cuffs (device attached type)	Cuffs (device attached type)
	LR03(AAA) 1.5V × 2 batteries	LR03(AAA) 1.5V × 2 batteries
Comparable criteria	Memory: 90 measurements	Memory: 20 measurements
Comments	The BP1750 has Averaging facility and memory preservation. As far as accuracy is concerned, these are clearly equivalent. Not for applicant to decide	
Recommendation	Accept Not for applicant to decide	

Comparison of the Braun BP VitalScan Plus 1750 with the Braun BP VitalScan Plus 1650

Devices	Braun Braun Braun 1103 1750		Braun BP VitalScan Plus 1650	
Pictures				
Validation			ESH	
Device 1 Criteria				
Same Criteria1z	Accuracy ± 3 mmHg (AAMI ± 5 (8) mmHg) Oscillometric measurement method Measurement ≤ 300 mmHg SBP, ≥ 20 mmHg DBP BP 0 mmHg to 320 mmHg, Pulse 40-199 bpm Sensor not described Cuff: (Wrist circ. 13 to 21 cm) Inflation: "Automatic" Deflation: Step valve Date/Time Set button I/O button Single screen LCD display Memory button, memory symbol Date/Time Display Low battery symbol Power: 2 "AAA" batteries ~ 200 measurements Power: Automatic switch-off when not used for 2 min	1, 5 1, 5 1, 5 1, 5, 7, 8 5 6 7 8 10 10 10 10, 11 11, 17 17 17	Accuracy \pm 3 mmHg (AAMI \pm 5 (8) mmHg) 1,5 Oscillometric measurement method 1,5 Measurement ≤ 300 mmHg SBP, ≥ 20 mmHg DBP 1,5 BP 0 mmHg to 320 mmHg, Pulse 40-199 bpm 1,5,7,8 Sensor not described 5 Cuff: (Wrist circ. 13 to 21 cm) 6 Inflation: "Automatic" 7 Deflation: Step valve 8 Date/Time Set button 10 Start/Stop button 10 Single screen LCD display 10 Memory button, memory symbol 10,11 Date/Time Display 11 Low battery symbol 11,17 Power: 2 "AAA" batteries ~ 200 measurements 17 Power: Automatic switch-off when not used for 2 min 17	
Comparable Criteria	Memory: 90 measurements (Non volatile)	11, 14	Memory: 20 measurements (Remove batteries for 15s to erase)	11, 14
Device 2 Criteria	Last 3 measurements averages	13		
Web link			http://www.braun.com/global/products/healthwellness/bloodpre/vitalscanplus/models/bp1650.html	essure

Comments	In the 1650, memory is erased if the batteries are removed for 15s – effectively when changing the batteries. In the 1750, the measurements cannot be erased. After 90 measurements, the oldest ones are overwritten. The 1750 also provides averages of the last 3 measurements. No special symbol is provided – "A-3" is shown instead of the pulse.	
	Query The manual claims accuracy according to the AAMI standard. This claim is also made on your website and on several independent vendor sites. Unfortunately no reference to a publication is given.	
	Response Regarding the AAMI concern, AAMI SP10 test protocol is a prerequisite for FDA approval. This device has already been approved by FDA.	
Recommendation	Equivalence is Recommended	
Date	17/07/2009	