Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2013

A SIGNED COPY WILL BE POSTED ON THE www.dableducational.org WEBSITE

SE	CTION A - Please complete all items.		
1	Gerhard Frick.	a Director of	Microlife AG.

hereby state that there are no differences that will affect blood pressure measuring accuracy between the

Maker³ ONBO Address 497 Dalang South Road, Longhua, Shenzhen, Guangdong, China

Company name

Manufacturer Microlife AG Address Espenstrasse 139, 9444 Widnau

Brand^c Microlife Model^d A2 Classic / BP 3UG1-2E
Blood pressure measuring device for which validation is claimed. If alternative model names are used, include all.

blood pressure measuring device and the validated blood pressure measuring device

Maker^a ONBO Address 497 Dalang South Road, Longhua, Shenzhen, Guangdong, China

Manufacturer Microlife AG Address Espenstrasse 139, 9444 Widnau

Brand^c Microlife Model^d BP 3BTO-A

Existing validated blood pressure measuring device.

which has previously passed the BHS protocol, the results of which were published as follows:

Reinders A, Cuckson AC, Lee JTM, Shennan AH. An accurate automated blood pressure device for use in pregnancy and pre-eclampsia: the Microlife 3BTO-A. BJOG 2005;112(7):915-920

Refer to attached documents.

Name of a Company Director

Full reference

The only differences between the devices involve the following components:

Tick one box for each item 1-18.

Part I	1	Algorithm for Oscillometric Measurements	Yes 🗆	No 🗵	N/A ^e □
	2	Algorithm for Auscultatory Measurements	Yes 🗌	No 🗌	N/A ^f ⊠
	3	Artefact/Error Detection	Yes 🗌	No 🛛	
	4	Microphone(s)	Yes 🗌	No 🗌	N/A ^f ⊠
	5	Pressure Transducer	Yes 🗌	No 🗵	
	6	Cuffs or Bladders	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 🗵	N/A ^g
	16	Communication Facilities	Yes 🗌	No 🛛	N/A ^g □
	17	Power Supply	Yes 🗌	No ⊠	
	18	Other Facilities	Yes 🛛	No 🗆	N/AE

An explanation of each item ticked "Yes" must be included in Section b or on a separate sneet.

Notes: a

- Provide the name and address of the actual maker of the device.
- b Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.
- c Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- d Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.
- e Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method.
 f Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

Web www.dableducational.org

+ 353 1 278 3835

Fax

Form DET7 130102

Declaration of Equivalence Form

SECTION B 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.

As attached file: A2 Basic Comparison items No 9, 10, 11, 14, 18 are explained in the attached table.

SECTION C	Please check that the following are included with the application	

* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included separately.

SECTION D 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 copy of this form, together with the manuals and images for both devices, to info@dableducational.org.

Signature of Director ______ Company Stamp/Seal

Name Gerhard Frick

Date 2016-04-08
Signature of Witness

Name Jerry Lin

Address 9F,NO.431,RuiGuang Road,Nei-Hu,

Taipei,11492,Taiwan.R.O.C

Declaration of Equivalence Form

DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2013

A SIGNED COPY WILL BE POSTED ON THE www.dableducational.org WEBSITE

SECTION	Ι Α	DI		- 11	
SECTION	A	 Please 	complete	e all	items

1	Gerhard I Name of a Co	Frick, ompany Director		a Director of M	Microlife AG, ompany name
he	reby state	that there are no differences that	t will affe	ect blood pressur	re measuring accuracy between the
Mal	er ^a	ONBO	Address	497 Dalang Sout	th Road, Longhua, Shenzhen, Guangdong, China
Mar	nufacturer ^b	Microlife AG	Address	Espenstrasse 13	9, 9444 Widnau
Brai		Microlife easuring device for which validation is claimed. If	Model ^d f alternative	A2 Classic / BP 3 model names are used,	
blo	od pressu	re measuring device and the valid	lated blo	od pressure mea	asuring device
Mal	er ^a	ONBO	Address	497 Dalang Sout	h Road, Longhua, Shenzhen, Guangdong, China
Mar	nufacturer ^b	Microlife AG	Address	Espenstrasse 13	9, 9444 Widnau
Brai		Microlife blood pressure measuring device.	Model ^d	BP A100	

which has previously passed the ESH protocol, the results of which were published as follows:

Bonso E, Dorigatti F, Palatini P. Accuracy of the BP A100 blood pressure measuring device coupled with a single cuff with standard-size bladder over a wide range of arm circumferences. Blood Press Monit 2009;14:216-9

Refer to attached documents.

Full reference

The only differences between the devices involve the following components:

Tick one box for each item 1-18.

Part I	1	Algorithm for Oscillometric Measurements	Yes 🗌	No 🗵	N/A ^e
	2	Algorithm for Auscultatory Measurements	Yes 🗌	No 🗌	N/A ^f ⊠
	3	Artefact/Error Detection	Yes 🗌	No 🛛	
	4	Microphone(s)	Yes 🗌	No 🗆	N/A ^f ⊠
	5	Pressure Transducer	Yes 🗌	No 🛛	
	6	Cuffs or Bladders	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 🛛	N/A ^g
	16	Communication Facilities	Yes 🗌	No 🖂	N/A ^g
	17	Power Supply	Yes 🗌	No 🛛	1
	18	Other Facilities	Yes 🛛	No 🗆	N/A ^g □

An explanation of each item ticked "Yes" must be included in Section B or on a separate sheet.

Vo	10	5:	a
	6.44		

- Provide the name and address of the actual maker of the device.
- Provide the name and address of the legal manufacturer of the device, even if it is the same as that of the maker.
- Provide the name of the brand under which it is sold, even if it is the same as that of the manufacturer or maker.
- d Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.
- Only tick N/A (Not Applicable) if neither device measures blood pressure using the oscillometric method. Only tick N/A (Not Applicable) if neither device measures blood pressure using the auscultatory method.
- g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

Declaration of Equivalence Form

SECTION B 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.

As attached file: A2 Basic Comparison items No 9, 10, 11, 14, 18 are explained in the attached table.

SECTION C	Please check that the following are included with the application
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A manual for the validated device X A manual for the device for which equivalence is being sought \boxtimes An image of the validated device X An image of the device for which equivalence is being sought \boxtimes An image of the screen layout of validated device* \boxtimes

An image of the screen layout of the device for which equivalence is being sought* X * Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included separately.

SECTION D Complete all items, bar signatures and 🙉 l, online and print. Sign and seal it then send the original to our address below. Please

email a signed copp of this form, together with the manuals and images for both devices, to info@dableducational.org.

Company Stamp/Seal

Signature of Director

Gerhard Frick Name 2016-04-08

Signature of Witness

Date

Name Jerry Lin

Address 9F,NO.431,RuiGuang Road,Nei-Hu,

Taipei,11492,Taiwan.R.O.C



Device Equivalence Evaluation Form

Comparison of the Microlife A2 Classic with the Microlife 3BT0-A and Microlife BP A100

Devices	Microlife A2 Classic (BP 3UG1-2E)	9	Microlife BP 3BT0-A	9	Microlife BP A100	9
Image	microtite Sons	10	BP 3BTO-A	10	129 18 18 4 53	10
Validation			BHS		ESH 2002	
LCD Display	®88 *88 •****	11	888 888 88*88 MR \$\$	11		11
	Memory Capacity for stored values: - 30 sets - shown with symbol «M» - allows indicate all-memory average (see I/B)	14	Memory Capacity for stored values: - 1 set - shown with symbol «M»	14	Memory Capacity for stored values: - 1 set - shown with symbol «M»	14
	Other Facilities: Display/Symbols/Indicators	18	Other Facilities Display/Symbols/Indicators	18	Other Facilities Display/Symbols/Indicators	18

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Device Equivalence Evaluation Form

Pulse Arrhythmia Indicator (PAD): Yes Pulse Arrhythmia Indicator (PAD): No Pulse Arrhythmia Indicator (PAD): Yes (indicates pulse irregularities during (indicates pulse irregularities during measurement which may affect the reading) measurement which may affect the reading) Pulse Beep during measurement: No Pulse Beep during measurement: Yes Pulse Beep during measurement: Yes (less disturbance for the patient) **Cuff compartment:** No **Cuff compartment:** Yes **Cuff compartment:** No Measurement Measurement Measurement Accuracy Accuracy Accuracy Blood Pressure Accuracy ± 3 mmHg Blood Pressure Accuracy ± 3 mmHg Blood Pressure Accuracy ± 3 mmHg Pulse Accuracy ± 5% Pulse Accuracy ± 5% Pulse Accuracy ± 5% Method Method Method Oscillometric Oscillometric Oscillometric Ranges Ranaes Ranges Cuff pressure: 0 -299 mmHg Cuff pressure: 0 -299 mmHg Cuff pressure: 0 -299 mmHg Measurement: 20 mmHg – 280 mmHg Measurement: 20 mmHg - 280 mmHg Measurement: 30 mmHg – 280 mmHg (no separate range for SBP and DBP specified) (no separate range for SBP and DBP specified) Pulse rate: 40-200 beats/minute Pulse rate: 40-200 beats/minute Pulse rate: 40-200 beats/minute Traffic Light Indicator: No Traffic Light Indicator: No Traffic Light Indicator: Yes (following WHO 2003) Cuffs: Cuffs: Microlife M-Cuff (22-32cm) 1) Microlife AC-1-M-Cuff (22-32cm) 1) Microlife M-Cuff (22-32cm) 1) Microlife L-Cuff (32-42cm) 1) Microlife AC-1-L-Cuff (32-42cm) 1) Microlife L-Cuff (32-42cm) 1) Microlife M-L-Cuff (22-42cm) 2) Microlife M-L-Cuff (22-42cm) 2) Microlife M-L-Rigid Conical Cuff (22-42cm) 3) Microlife M-L-Rigid Conical Cuff (22-42cm) 3) 1) Reference dev. BP 3BTO-A – validated with standard Microlife AC-1-L-Cuff and AC-1-M-Cuff Reference Cuckson AC, Reinders A, Shabeeh H, Shennan AH. Validation of the Microlife BP 3BTO-A oscillometric blood pressure monitoring device according to a modified documents British Hypertension Society protocol Blood Press Monit 2002;7(6):319-324

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Device Equivalence Evaluation Form

	range of arm circumferences. Blood Press Monit 3) Reference dev. BP A100 – validated with Micro	with a single cuff with standard-size bladder over a wide f with standard-size bladder coupled to an automatic				
Web link	n/a	http://www.microlife.com/products/hypertension/automatic/bp-3bt0-a-2/				
Recommendation	Equivalence is recommended					
Date	9 May 2016					

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