

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 A - Please complete all items.

I Stefano Name of a	Chiesa,	rector		a Director of CA-MI S	-		
hereby state that there are no differences that will affect blood pressure measuring accuracy between the							
Maker ^a	Nissei		Address	2508-13 Nakago Shibu	kawa Gunma 3	77-0293 Japar	n
Manufacturer ^b	CA-MI	Srl	Address	Via Ugo La Malfa 13 - 4	3010 Pilastro (PR) - Italy	
Brand ^c	CHIESI FARMACEUTICI SPA		Model ^d	CHIESI 0100000329 (DIESIS)			
Blood pressure i		evice for which validation is claimed.	f alternative				
blood press	ure mea	suring device and the valid	dated blo	ood pressure measuring	device		
Maker ^a	Nissei		Address	2508-13 Nakago Shibu	kawa Gunma 3	77-0293 Japar	1
Manufacturer ^b	Nissei		Address	2508-13 Nakago Shibu	kawa Gunma 3	77-0293 Japar	1
Brand ^c	Nissei		Model ^d	DSK-1011			
		sure measuring device.		D3K-1011			
which has p	reviousl	y passed the ESH 2010 pr	otocol, t	he results of which wer	e published as	follows:	
Dublin:dab	lEducatio	onalTrust;2011-Sep-019p					
	om: http	://www.dableducational.d	org/Publ	ications/2011/ESH-IP 20	10 Validation	of Nissei DSK-:	L011.pdf.
Full reference	cc		و ماه میار	fallanting common onto			
Tick one box for		s between the devices invo	oive the	rollowing components:			
Part I	1	Algorithm for Oscillomet	ric Meas	urements	Yes 🗀	No 🖂	N/A ^e
	2	Algorithm for Auscultato			Yes 🗌	No 🗌	N/A ^f ⊠
	3	Artefact/Error Detection			Yes 🗌	No 🖂	
	4	Microphone(s)			Yes 🗌	No 🗌	$N/A^f \boxtimes$
	5	Pressure Transducer			Yes 🖂	No 🗌	
	6	Cuffs or Bladders			Yes 🗌	No 🖂	
	7	Inflation Mechanism			Yes 🗌	No 🖂	
	8	Deflation Mechanism	- 12		Yes 🗌	No 🖂	
Part II	9	Model Name or Number			Yes 🖂	No 🗌	
	10	Casing			Yes 🖂	No 🗌	
	11	Display			Yes 🖂	No 🗌	
	12	Carrying/Mounting Facili	ties		Yes 🗌	No 🗵	
	13	Software other than Algo	orithm		Yes 🖂	No 🗌	
	14	Memory Capacity/Numb	er of sto	red measurements	Yes 🖂	No 🗌	
	15	Printing Facilities			Yes 🗌	No 🗌	N/A ^g ⊠
	16	Communication Facilities	S		Yes 🗌	No 🗌	N/A ^g 🖂
	17	Power Supply			Yes 🗌	No 🖂	
And the second s	18	Other Facilities			Yes 🗌	No 🗵	N/A ^g
An	explanat	tion of each item ticked "	es" mu	st be included in Section	B or on a sep	arate sheet.	
Notes: a Provide the name and address of the actual maker of the device.							
b	Provide the r	name and address of the legal manufa name of the brand under which it is so	acturer of th	e device, even if it is the same as			

g Only tick N/A (Not Applicable) if neither device provides printing, communication or other facilities, as appropriate.

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.

Provide the model name. If alternative or internal model names are used, include all. Each device must be uniquely identifiable.

Web www.dableducational.org

dabl®Educational Trust

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.

Brief explanation of differences: Further details are shown on the attached "Section B comparison sheet".

5) Pressure Transducer

A/D conversion function built-in piezoelectric sensor is used instead of capacitance sensor.

However their fundamental characteristics of resolution capability and sampling cycle are same and the accuracy of pressure measurement is equivalent.

9) Model name

The model names are different. CHIESI 0100000329 (DIESIS) for new device, for validated device is DSK-1011. On the validated device DSK-1011, the name was printed on front panel of device too, instead in the new model the name is printed on the rating label that is applied on the bottom (in compliance with commitments of CE certification).

10) Casing

Tact switch of one START/STOP key and one memory key on new model, instead of touch type keys with one clock key, two memory keys, and one START/STOP key for the validated device. Shape of new device is different but with very similar volume.

11)Display

The size and displayed data are different due to the different function except measurement function.

13) Software other than Algorithm

On new model no function of cuff condition indicator and no function of pulse pressure display.

14) Memory Capacity/Number of stored measurements

On the new model the memory capacity is 60 times x 1 way instead of 60 times x 2 ways of derivated device

SECTION C	Please check that the following are included with the application	
	A manual for the validated device	\boxtimes
	A manual for the device for which equivalence is being sought	\boxtimes
	An image of the validated device	\boxtimes
	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*	\boxtimes
	* Screen layouts shown complete, and without obscuring labels or lines, in manuals need not be included s	eparate

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

Signature of Witness

Company Stamp/Seal

Name

SECTION D

Stefano Chiesa

Date

07/09/2015

Name

Mario Attolini

Via U. La Malfa, 13

43010 Pilastro di Langhirano (PR) - Italy Cod. Fisc. e Part. IVA 00977090349 Tel. +39 0521 637133 - +39 0521 631138

CA-MI S.r.I.

Fax +39 0521 639041

Address

Via Ugo La Malfa 13 - 43010 Pilastro (PR) - Italy



Device Equivalence Comparison Form

Comparison of the CHIESI 0100000329(DIESIS) with the NISSEI DSK-1011

Devices	CHIESI 0100000329 (DIESIS) (Device 2)	NISSEI DSK-1011 (Device1)
Pictures	GChiesi Sys Manage MI 30 Au 55 PUL Irang MI 0/0	NISE THE PROPERTY OF THE PARTY
Display	M	SYS Mo. 007000 PUL 1000 PP 000
Validation		ESH 2010

Device 1 Criteria		Display/Symbols/Indicators Measurement Procedure
		WHO classification
		Pulse pressure
Device 2 Criteria		
Same Criteria	Measurement	Measurement
	Accuracy	Accuracy
	Blood pressure accuracy \pm 3 mmHg	Blood pressure accuracy \pm 3 mmHg
	Pulse accuracy \pm 5 $\%$	Pulse accuracy \pm 5%
	Method	Method
	Oscillo-Metric	Oscillo-Metric
	Systolic blood pressure (SYS) 50 mmHg - 250 mmHg	Systolic blood pressure (SYS) 50 mmHg - 250 mmHg
	Diastolic blood pressure (DIA) 40 mmHg - 180 mmHg	Diastolic blood pressure (DIA) 40 mmHg - 180 mmHg
	Inflation	Inflation
	Automatic Inflation System (Air Pump)	Automatic Inflation System (Air Pump)
	Inflation 0 mmHg - 300 mmHg	Inflation 0 mmHg - 300 mmHg
	Deflation	Deflation
	Automatic speed deflation system	Automatic speed deflation system
	Cuffs	Cuffs
	Universal cuff(Arm circ. 22 to 42cm)	Universal cuff(Arm circ. 22 to 42cm)
	Measurements other than Blood Pressure	Measurements other than Blood Pressure
	Pulse rate	Pulse rate
	Buttons/Switches	Buttons/Switches
	Power	Power
	On/Off With Start	On/Off With Start
	Display/Symbols/Indicators	Display/Symbols/Indicators
	Measurement Procedure	Measurement Procedure
	Inflation symbol	Inflation symbol
	Deflation symbol	Deflation symbol
	Heartbeat symbol during inflation	Heartbeat symbol during inflation
	Irregular pulse rhythm symbol	Irregular pulse rhythm symbol
	Body motion Symbol	Body motion Symbol
	Post Measurement	Post Measurement
	Systolic blood pressure	Systolic blood pressure

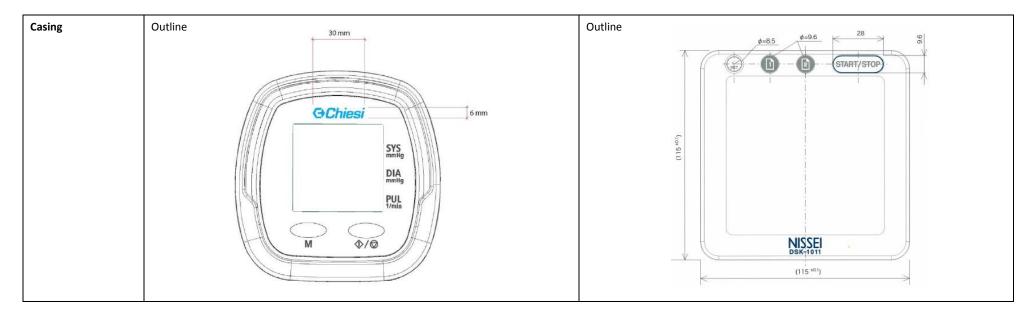
© 2015 dabl®Educational Trust Limited
Page 2 of 5

	T	
	Diastolic blood pressure	Diastolic blood pressure
	Pulse rate	Pulse rate
	Average	Average
	Measurement Records	Measurement Records
	Memory recall number	Memory recall number
	Date and Time	Date and Time
	Date and Time	Date and Time
	Power	Power
	Low Battery detection symbol	Low Battery detection symbol
	Function	Function
	Measurement errors	Measurement errors
	Features	Features
	WHO classification *WHO: World Health Organization	WHO classification *WHO: World Health Organization
	Casing	Casing
	Display	Display
	Segment LCD	Segment LCD
	Single screen display	Single screen display
	Single screen display	Single screen display
	Ports	Ports
	Air connector	Air connector
	DC Jack *AC adapter is optional	DC Jack *AC adapter is optional
	Power	Power
	4 "AA" batteries	4 "AA" batteries
Comparable Criteria	Measurement	Measurement
	Method	Method
	Pulse rate 40 bpm - 180 bpm	Pulse rate 40 bpm - 160 bpm
	Sensors	Sensors
	MMR901XA	CS-20A
	Measurement Records	Measurement Records
	60 measurement × 1 user	60 measurement × 2 users

© 2015 dabl®Educational Trust Limited
Page 3 of 5

Buttons/Switches Buttons/Switches Measurement Records Measurement Records Memory × 2, Clock set Memory × 1 Display/Symbols/Indicators Display/Symbols/Indicators Function Function Memory symbol Memory1/2 symbol **Algorithms Algorithms** Averages and Differences Averages and Differences All measurement mean Last 3 measurements **Pressure Transducer** Model Model MMR901XA CS-20A Pressure range 0mmHg - 300 mmHg Pressure range 0mmHg - 300 mmHg Safety over load 600 mmHg Safety over load 390 mmHg Resolution 0.05 mmHg Resolution 0.05 mmHg Outline Outline Ф30.8 GND GATE OUT +V _(□|0.05®

© 2015 dabl®Educational Trust Limited Page 4 of 5



Comments		Replies to queries; Accepted	
Recommendation	Equiv	Equivalence Recommended	
Date	7 October 2015		

© 2015 dabl®Educational Trust Limited
Page 5 of 5