

## DECLARATION OF BLOOD PRESSURE MEASURING DEVICE EQUIVALENCE 2006

A SIGNED COPY WILL BE POSTED ON THE [www.dableducational.org](http://www.dableducational.org) WEBSITE

### SECTION A - Please complete all items online

I, Liu Yi Director of Andon Health Co., Ltd  
Name of a Company Director Company name

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

BEURER BM 65

Blood pressure measuring device for which validation is claimed

blood pressure measuring device and the

Andon KD-5915

Existing validated blood pressure measuring device

blood pressure measuring device, which has previously passed the ESH protocol, the results of which were published as follows

Qi-Fang Huang, Jie Wang, Chang-Sheng Sheng, Na-Na Zhang, Yan Li and Ji-Guang Wang

Author(s)

Validation of the ANDON KD-5915 blood pressure monitor for home blood pressure monitoring according to the European Society of Hypertension International Protocol

Title

Blood Pressure Monitoring

2010:volume15:pp232-234

Publication

Year Volume Pages

The only differences between the devices involve the following components:

(When a component is not relevant, both Yes and No should be left blank. Please provide details on any differences below.)

Part I	1	Algorithm for Oscillometric Measurements	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	2	Algorithm for Auscultatory Measurements	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	3	Artefact/Error Detection	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	4	Microphone(s)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	5	Pressure Transducer	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	6	Cuff or Bladder	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	7	Inflation Mechanism	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	8	Deflation Mechanism	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Part II	9	Model Name or Number	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	10	Casing	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	11	Display	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	12	Carrying/Mounting Facilities	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	13	Software other than Algorithm	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	14	Memory Capacity/Number of stored measurements	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	15	Printing Facilities	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	16	Communication Facilities	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
	17	Power Supply	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	18	Other Facilities	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Brief explanation of differences and further relevant details:

(13) No voice function; display the average value of all the results which is measured from 5 o'clock to 9 o'clock in last 7 days; display the average value of all the results which is measured from 18 o'clock to 20 o'clock in last 7 days.

(14) 10\*30

(16) Download the records to PC

# dabl<sup>®</sup> Educational Trust

**SECTION B** - Complete all items, bar signatures and seal, online and print. Sign and seal it then send the original along with manuals for both devices to our address below.

Signature of Director 刘毅

Company Stamp/Seal

Name Liu yi

Date 15 December 2011

Signature of Witness 刘治军

Name Liu zhijun

Address Andon Health Co.,Ltd . No.3 Jin Ping Street,Ya An Road,Nankai District,Tianjin 300790,China





Devices	Beurer BM 65	Andon KD-5915
Same Criteria	<b>Measurement</b>	<b>Measurement</b>
	<i>Accuracy</i>	<i>Accuracy</i>
	BP accuracy ± 3 mmHg	BP accuracy ± 3 mmHg
	Pulse accuracy ± 5% <sup>Query 1</sup>	Pulse accuracy ± 5% <sup>Query 1</sup>
	<i>Method</i>	<i>Method</i>
	Oscillometric measurement method	Oscillometric measurement method
	BP 30 mmHg – 280 mmHg <sup>Query 2</sup>	BP 30 mmHg – 280 mmHg <sup>Query 2</sup>
	Pulse 40 bpm -180 bpm	Pulse 40 bpm -180 bpm
	Manually initiated measurements	Manually initiated measurements
	Measurements are from single inflations	Measurements are from single inflations
	<i>Inflation</i>	<i>Inflation</i>
	Inflation 0 mmHg - 295 mmHg	Inflation 0 mmHg - 295 mmHg
	Automatic Inflation	Automatic Inflation
	Zero pressure check before inflation <sup>Query 3</sup>	Zero pressure check before inflation <sup>Query 3</sup>
	<i>Deflation</i>	<i>Deflation</i>
	Automatic Deflation	Automatic Deflation
	<i>Cuffs</i>	<i>Cuffs</i>
	Medium (Arm circ. 22 to 30 cm)	Medium (Arm circ. 22 to 30 cm)
	Large (Arm circ. 30-42 cm)	Large (Arm circ. 30-42 cm) (Optional)
	Extra Large (Arm circ. 42-48 cm) (Usable but not supplied) <sup>Query 4</sup>	Extra Large (Arm circ. 42-48 cm) (Optional) <sup>Query 4</sup>
	<i>Sensors</i>	<i>Sensors</i>
	Pressure sensor: KD-2107-006G or KD-2107-006GR <sup>Query 5</sup>	Pressure sensor: KD-2107-006G or KD-2107-006GR <sup>Query 5</sup>
	<b>Buttons/Switches</b>	<b>Buttons/Switches</b>
<i>Power</i>	<i>Power</i>	
On/Off with Start/Stop (Ⓜ symbol)	On/Off with Start/Stop (START label)	
<i>Measurement Records</i>	<i>Measurement Records</i>	
Memory (MEM label)	Memory (MEM label)	
<b>Display/Symbols/Indicators</b>	<b>Display/Symbols/Indicators</b>	
<i>Preparation</i>	<i>Preparation</i>	
Previous result displayed on BP start (U0 to U9)	Previous result displayed on BP start	
<i>Measurement Procedure</i>	<i>Measurement Procedure</i>	
Heartbeat symbol during deflation	Heartbeat symbol during deflation	

Devices	Beurer BM 65	Andon KD-5915
<b>Same Criteria</b>	<p><b>Display/Symbols/Indicators</b></p> <p><i>Post Measurement</i></p> <p>SBP, DBP and Pulse 11</p> <p>Measurement error (0, 1, 2, 3, 4, 5, 6, 7, 8, A) 11</p> <p>Hypertension (Indicator strip) 11, 13</p> <p>BP classification (WHO) 10, 11, 13</p> <p>Irregular heartbeat 11, 13, 18</p> <p><i>Measurement Records</i></p> <p>Memory “M” symbol 11</p> <p><i>Date and Time</i></p> <p>Date and Time 11</p> <p>Date and Time (During memory recall) 11</p> <p><i>Power</i></p> <p>Low battery 11, 17</p> <p><b>Algorithms</b></p> <p><i>Diagnostic</i></p> <p>WHO Guidelines 13</p> <p>Irregular heartbeat detection 13</p> <p><b>Case</b></p> <p><i>Display</i></p> <p>Single screen display 10</p> <p>Segment LCD 10</p> <p><i>Power</i></p> <p>AC adapter (Optional) 17</p> <p>Auto switch-off when not used for 1 min (2 min Memory mode) 17</p> <p>Rechargeable batteries not permitted 17</p>	<p><b>Display/Symbols/Indicators</b></p> <p><i>Post Measurement</i></p> <p>SBP, DBP and Pulse 11</p> <p>Measurement error (0, 1, 2, 3, 4, 5, 6, 7, 8, A) 11</p> <p>Hypertension (Indicator strip) 11, 13</p> <p>BP classification (WHO) 10, 11, 13</p> <p>Irregular heartbeat 11, 13, 18</p> <p><i>Measurement Records</i></p> <p>Memory “M” symbol 11</p> <p><i>Date and Time</i></p> <p>Date and Time 11</p> <p>Date and Time (During memory recall) 11</p> <p><i>Power</i></p> <p>Low battery 11, 17</p> <p><b>Algorithms</b></p> <p><i>Diagnostic</i></p> <p>WHO Guidelines 13</p> <p>Irregular heartbeat detection 13</p> <p><b>Case</b></p> <p><i>Display</i></p> <p>Single screen display 10</p> <p>Segment LCD 10</p> <p><i>Power</i></p> <p>AC adapter (Optional) 17</p> <p>Automatic switch-off when not used for 1 min 17</p> <p>Rechargeable batteries not permitted 17</p>
<b>Comparable Criteria</b>	<p><b>Measurement</b></p> <p><i>Measurement Records</i></p> <p>Memory: 10 × 30 measurement 14</p> <p><b>Case</b></p> <p><i>Power</i></p> <p>4 “AAA” batteries ~ 220 measurements 17</p>	<p><b>Measurement</b></p> <p><i>Measurement Records</i></p> <p>Memory: 60 measurements 14</p> <p><b>Case</b></p> <p><i>Power</i></p> <p>4 “AA” batteries 17</p>

Devices	Beurer BM 65	Andon KD-5915
Device 2 Criteria		<p><b>Display/Symbols/Indicators</b></p> <p><i>Preparation</i></p> <p>Remnant air in cuff (↓ symbol) 11, 14</p> <p><i>Measurement Procedure</i></p> <p>Beeps before measurement 18</p> <p>Optional voiced assistance 18</p> <p><i>Post Measurement</i></p> <p>Optional voiced results 18</p> <p>Error re-inflate (↑ symbol) 11, 14</p> <p><i>Measurement Records</i></p> <p>Memory recall number 11</p> <p>Optional voiced records 18</p> <p><i>Settings</i></p> <p>Current unit (kPa / mmHg) marker <sup>Note 1</sup> 11</p>
Web link	<a href="http://www.beurer.com/web/en/product/blood_pressure/upper_arm/detail.php?pk=31&amp;id=22608&amp;bek=112&amp;bct=%26nbsp%3B%26gt%3B%26nbsp%3Bproduct+details%26nbsp%3B%26gt%3B%26nbsp%3BBM65">http://www.beurer.com/web/en/product/blood_pressure/upper_arm/detail.php?pk=31&amp;id=22608&amp;bek=112&amp;bct=%26nbsp%3B%26gt%3B%26nbsp%3Bproduct+details%26nbsp%3B%26gt%3B%26nbsp%3BBM65</a>	<a href="http://andon.manufacturer.globalsources.com/si/6008800800032/pdtl/Wrist-blood/1032471456/Blood-Pressure-Monitor.htm">http://andon.manufacturer.globalsources.com/si/6008800800032/pdtl/Wrist-blood/1032471456/Blood-Pressure-Monitor.htm</a>

<b>Comments</b>	<p>Andon is an OEM manufacturer for the BM 65.</p> <p>Despite the different designs, the BM 65 is functionally the same as the Andon KD-5915 with added dual user, averaging and uploading features but without the voiced results.</p> <p>There were five queries which were answered satisfactorily.</p>	
<b>Queries</b>	1	<p>Query A pulse accuracy of <math>\pm 5\%</math> is described for the BM 65. No information on pulse accuracy is provided for the KD-5915. What is the pulse accuracy for the KD-5915?</p> <p>Reply The pulse accuracy of KD-5915 is +/- 5%</p> <p>Comment Clarification is accepted.</p>
	2	<p>Query A measurement range of 30 mmHg – 280 mmHg for both SBP and DBP is described for the BM 65. No information on measurement ranges is provided for the KD-5915. What is the blood pressure measurement range for the KD-5915?</p> <p>Reply The measurement range of KD-5915 is 30 – 280 mmHg</p> <p>Comment Clarification is accepted.</p>
	3	<p>Query Is the zero pressure check used in the BM 65?</p> <p>Reply Yes, the zero pressure check is used in the BM65</p> <p>Comment Clarification is accepted.</p>
	4	<p>Query An optional extra large cuff (Arm circ. 42-48 cm) is available for the KD-5915. There is no mention of it in the manual for the BM 65. Can this cuff be used with the BM 65?</p> <p>Reply Yes, this cuff can be used with BM65 but it is not part of our sales offer.</p> <p>Comment Clarification is accepted.</p>
	5	<p>Query The pressure sensor for the KD-5915 is described as KD-2107-006G or KD-2107-006GR. No information is provided for the BM 65. Are the same sensors used?</p> <p>Reply Yes, BM65 also use the same sensors as KD-5915</p> <p>Comment Clarification is accepted.</p>

<b>Notes</b>	1	A previous query to Andon is relevant
	Query	On the display screen of the KD-5915, there are units for mmHg and kPa that seem to indicate a conversion facility. No such ability is described. Can you please confirm this facility either way?
	Reply	When the "START" button is pressed, all display characters are shown for self-test. The kPa is only displayed at the moment. It's a reserved function that the result is displayed for kPa. The function doesn't open, so the Operation Guide of the KD-5915 doesn't mention it. The displayed "kPa" is just a reserved functionality.
	Comment	Clarification is accepted.
<b>Recommendation</b>	Equivalence is recommended	
<b>Date</b>	02/05/2012	