

International Standard

ISO 81060-2

Non-invasive sphygmomanometers —

Part 2:

Clinical investigation of intermittent are automated measurement type

Document Preview

AMENDMENT 2

Sphygmomanomètres non invasifs —

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This document was prepared jointly by Technical Committee ISO/TC 121, Anaesthetic and respiratory equipment, Subcommittee SC 3, Respiratory devices and related equipment used for patient care, and Technical Committee IEC/TC 62, Medical equipment, software, and systems, Subcommittee SC 62D, Particular medical equipment, software, and systems, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 205, Non-active medical devices, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Scope

4.2

Add the following as the last paragraph in the scope:

This document is not applicable to CLINICAL INVESTIGATIONS of a set of CUFFS that are not of same materials and construction. Each type of CUFF set is required to be evaluated separately according to this document.

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Add two additional list items after list item c) and before the compliance check:

- d) All subjects shall be unique.
- e) A subject shall only be used once in a clinical investigation.

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Replace the subclause with the following:

5.1.4 * Limb size distribution

- a) For a CLINICAL INVESTIGATION with only one CUFF, the requirements in 5.1.4 d) to i) apply based on the limb circumference range ($r_{\rm cuff}$) of that CUFF.
- b) For a CLINICAL INVESTIGATION with more than one CUFF to limit the overlap of all CUFFS intended for use with a SPHYGMOMANOMETER, Formula (17) shall apply.
- c) If the distribution of CUFFS is not in accordance with Formula (17), multiple CLINICAL INVESTIGATIONS with subsets of these CUFFS shall be performed separately.

$$\frac{\sum r_{\text{cuff}}}{r_{\text{total}}} \le 1,35 \tag{17}$$

where

 $r_{
m cuff}$ is the limb circumference range for the individual CUFF in cm; and

 $r_{
m total}$ is the total Limb circumference range in cm.

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- d) For CUFFS having a size of the limb circumference range (r_{cuff}) of 12 cm or less:
 - 1) at least 40 % of the subjects allocated to this CUFF shall have a limb circumference which lies within the upper half of the specified range of use of the CUFF;
 - 2) at least 40 % of the subjects allocated to this CUFF shall have a limb circumference within the lower half of the specified range of use of the CUFF;
 - 3) for a SPHYGMOMANOMETER intended for use with multiple CUFF sizes, each CUFF having a size of the limb circumference range of 12 cm or less shall be tested on at least $N_{\rm cuff}$ subjects as calculated according to Formula (18); and
 - 4) if N_{cuff} , according to Formula (18) is less than 12 subjects, N_{cuff} shall be a minimum of 12 subjects.

$$N_{\text{cuff}} = \frac{r_{\text{cuff}}}{2 \cdot r_{\text{total}}} \cdot N_{\text{total}}$$
 (18)

where

 N_{total} is the total number of subjects in the study;

 $r_{\rm cuff}$ is the limb circumference range for the individual CUFF in cm;

 r_{total} is the TOTAL LIMB CIRCUMFERENCE RANGE in cm.

- e) For CUFFS having a size of the limb circumference range (r_{cuff}) of more than 12 cm and less than or equal to 16 cm:
 - 1) at least 20 % of the subjects allocated to this CUFF shall have a limb circumference which lies within each quartile of the limb circumference range;
 - 2) for a SPHYGMOMANOMETER intended for use with multiple CUFF sizes, each CUFF having a size of the limb circumference range of more than 12 cm and less than or equal to 16 cm shall be tested on at least N_{cuff} subjects as calculated according to Formula (19); and
 - 3) if N_{cuff} , according to Formula (19) is less than 12 subjects, N_{cuff} shall be a minimum of 12 subjects.

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$$N_{\text{cuff}} = \frac{r_{\text{cuff}}}{2 \cdot r_{\text{total}}} \cdot N_{\text{total}} \cdot \frac{r_{\text{cuff}}}{12}$$
 (19)

where

 N_{total} is the total number of subjects in the study;

 $r_{\rm cuff}$ is the limb circumference range for the individual CUFF in cm; and

 r_{total} is the total Limb circumference range in cm.

- f) For CUFFS having a size of the limb circumference range (r_{cuff}) of greater than 16 cm:
 - 1) at least 20 % of the subjects allocated to this CUFF shall have a limb circumference which lies within each quartile of the limb circumference range;
 - 2) at least 10 % of the subjects allocated to this CUFF shall have a limb circumference which lies within the highest octile of the limb circumference range;
 - 3) at least 10 % of the subjects allocated to this CUFF shall have a limb circumference within the lowest octile of the limb circumference range;
 - 4) for a SPHYGMOMANOMETER intended for use with multiple CUFF sizes, each CUFF having a size of the limb circumference range of 16 cm and more shall be tested on at least $N_{\rm cuff}$ subjects as calculated according to Formula (19); and