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Non-invasive sphygmomanometers —

Part 2: AMENDMENT 2 Clinical investigation of intermittent automated measurement type AMENDMENT 2

AMENDMENT 2

Sphygmomanomètres non invasifs —

Partie 2: Investigation clinique pour type ponctuel à mesurage

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Non-invasive sphygmomanometers —

Part 2: Clinical investigation of intermittent automated measurement type

AMENDMENT 2

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. Document Previ
- 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_{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.

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

where

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

 $r_{\rm total}$ 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_{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.

$$N_{\rm cuff} = \frac{r_{\rm cuff}}{2 \cdot r_{\rm total}} \cdot N_{\rm total}$$
(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.

https://standards.iteh.aj/catalog/stan.dards/iso/f5035cd6-318a-4e95-b92d-350a2e91ef47/iso-81060-2-2018-amd-2 $N_{\text{cuff}} = \frac{r_{\text{cuff}}}{2 \cdot r_{\text{total}}} \cdot N_{\text{total}} \cdot \frac{r_{\text{cuff}}}{12}$ (19)

 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_{cuff} subjects as calculated according to Formula (19); and