

**Appendix 1.** Cuff pressure measurements within the safety range.

The normalized number of cuff pressure measurements within the safety range (24 cmH<sub>2</sub>O - 40 cmH<sub>2</sub>O), estimated by the regression was 0.977 for the automatic group and 0.482 for the manual group. The estimated ratio between the two rates was 2.03 (95% CI: 1.67, 2.46); which estimates the rate of cuff pressure measurements within the safety range in the automatic group was around two times greater than in the manual group (P<0.001).

