

# A Survey of Pressure Accuracy Test for Electronic Sphygmomanometers in Taiwan

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## ABSTRACT

The “Guidance for Testing of Electronic Sphygmomanometer” was announced by Taiwan Food and Drug Administration (TFDA) on September 30, 2010, and a survey of Electronic Sphygmomanometers was carried out from April to November, 2011. Ten groups of samples were collected from drugstores and medical equipment shops in northern Taiwan (Taipei City and New Taipei City). Among those samples, 4 groups were made in Taiwan, 4 groups from China, and 2 groups from others countries. The tests were conducted in accordance with CNS 15041-1 Specification for non-invasive sphygmomanometers - Part 1: General requirements and CNS 15041-3 Non-invasive sphygmomanometers - Part 3: Supplementary requirements for electro-mechanical blood pressure measuring systems.

One group of sample was found out of range of  $\pm 3$  mmHg. Two groups of samples were found not identical within the group.

Key words: electronic sphygmomanometer, limits of the error of the cuff pressure indication, the effect of voltage variations of the power source on the cuff pressure reading