**RESULTS**: There was no significant difference in SBPs measured at 30 and 60 second intervals, with AutoSBPs being significantly lower at 30 second intervals compared to ManSBPs. DBPs were lower at 60 second intervals than at 30 second intervals. Overall, AutoBPMs were more consistent with ManBPMs compared to ManBPMs with a Standard Adult Accoson cuff alternating with AutoBPMs with an Omron RML31 D-ring cuff at 30 second intervals followed by 9 BPMs at 60 second intervals or vice versa. Statistical analyses were made using RStudio with Mixed Model Repeated Measures (MMRM) modelling.

**Conclusions**: Intervals between alternating manual and automated BPMs used in validation protocols may significantly affect the outcome of a validation unrelated to the cuff used. SBP differences are greater at 30 second intervals than at 60 second intervals while DBP differences are greater at 60 seconds.