

Figure S1. Variation of relative change in capacitance as a function of time at different applied pressure range of (a) 1 Pa – 2 Pa. (b) 3 Pa – 5 Pa. (c) 10 Pa – 50 Pa. (d) 100 Pa – 500 Pa. (e) 1 kPa – 20 kPa. (f) 30 kPa – 111 kPa.

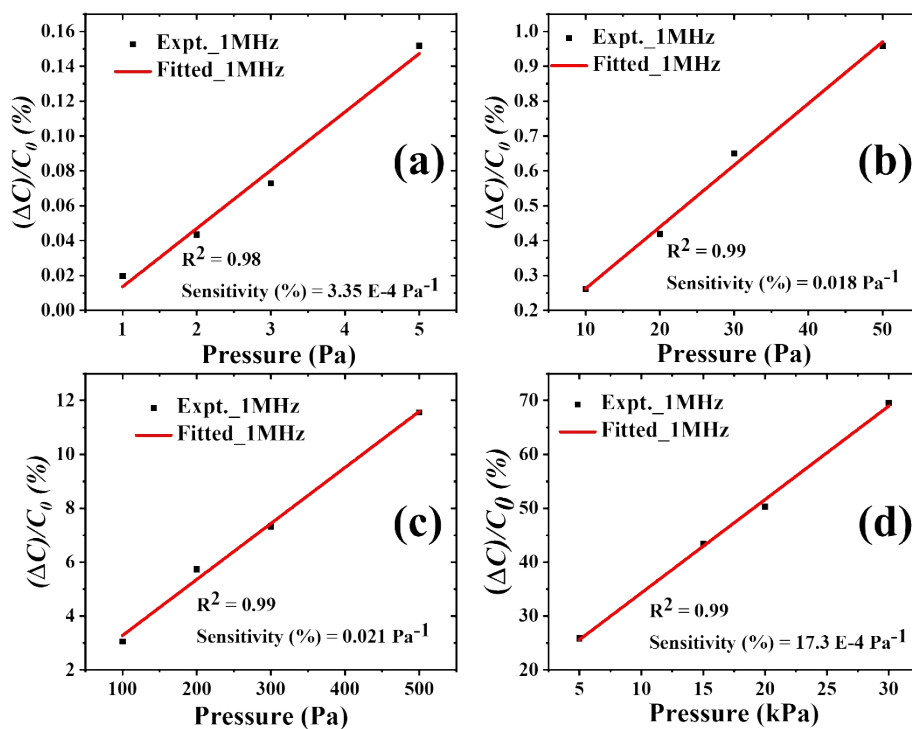


Figure S2. Variation of capacitance change ($\Delta C/C_0$) as a function of applied pressure range to calculate the sensitivity in pressure regions of (a) 1 Pa – 5 Pa. (b) 10 Pa to 50 Pa (c) 100 Pa to 500 Pa and (d) 5 kPa to 30 kPa.

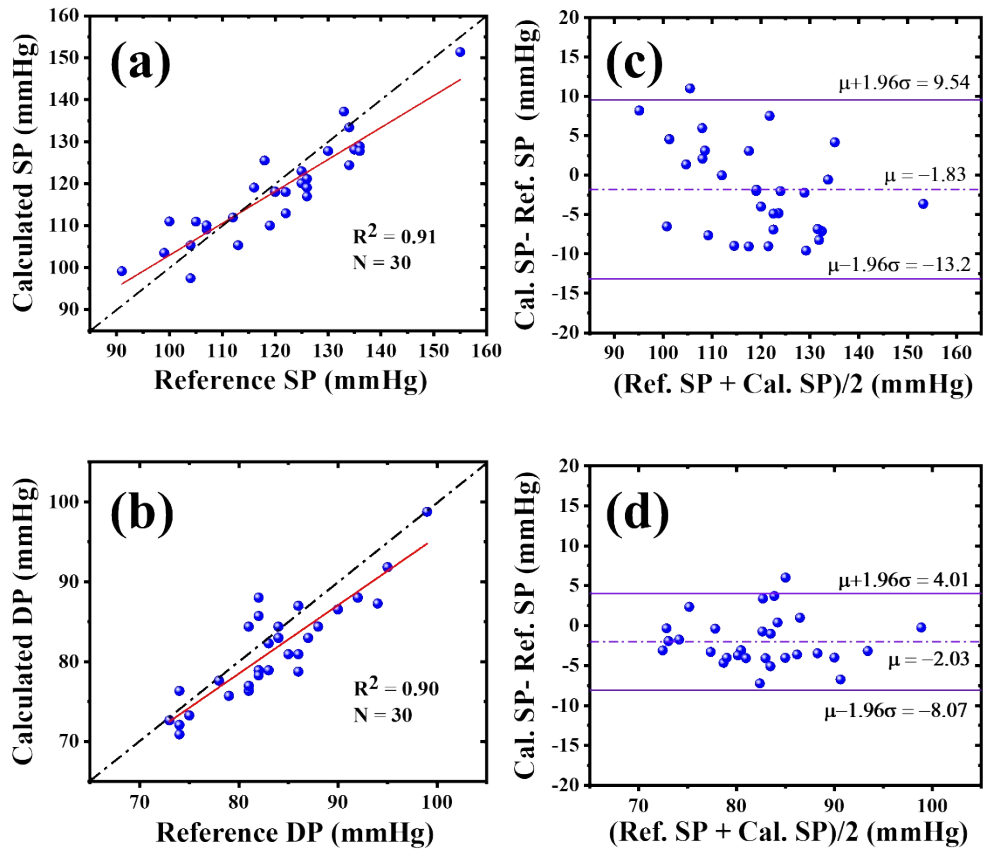


Figure S3. The correlation (a, b) and Bland-Altman (c, d) plots to compare the determined systolic and diastolic from the sensor to mercury-based sphygmomanometer.

Category	Systolic BP	Diastolic BP
Hypotension	< 90	< 60
Low normal	90-120	60-80
Normal	120-129	80-84
High Normal	130-139	85-89
Grade 1 Hypertension	140-159	90-99
Grade 2 Hypertension	160-179	100-109
Grade 3 Hypertension	≥ 180	≥ 110

Table ST1. Categories of human blood pressure.