

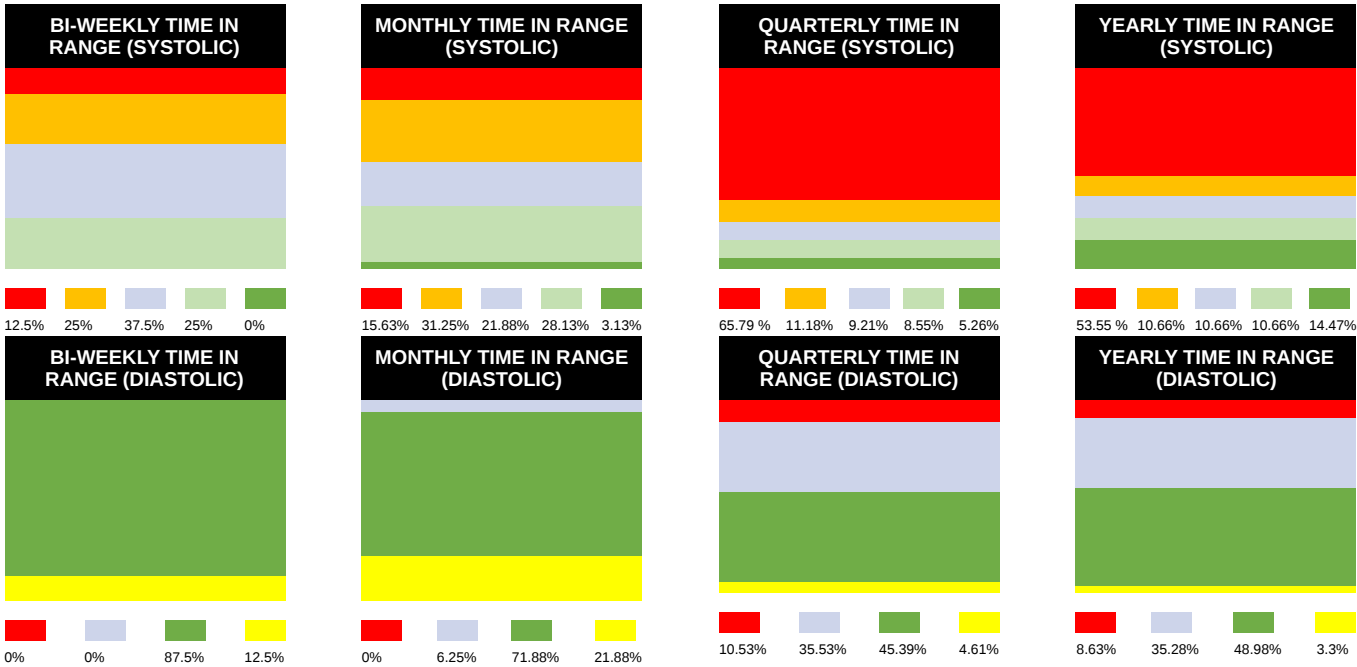


40 Mitchell Ave, Binghamton, NY 13903 Phone:(607) 723-1676

Patient Name: Debra Raimondi
Height: 5.2

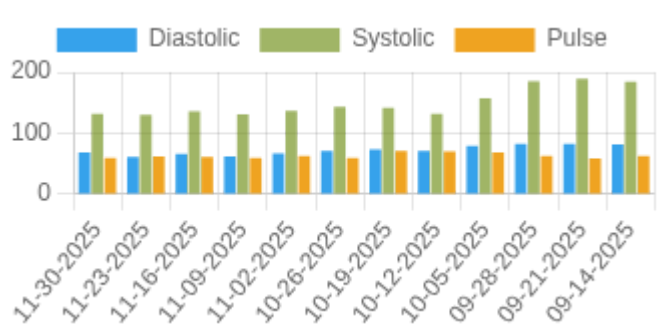
MRN #: 6686
Weight: 145

Birth Year:
Hypertension: S1



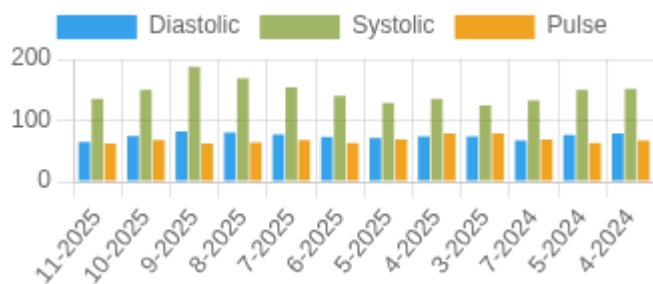
Blood Pressure Averages

Blood Pressure Averages: Weekly



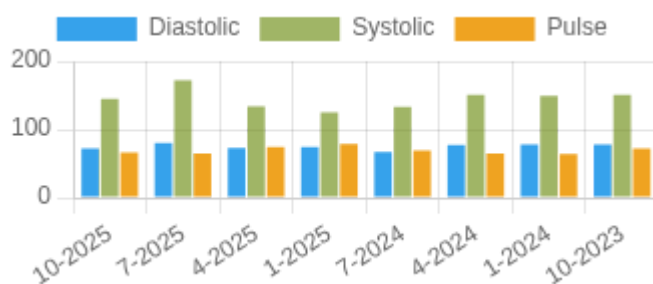
Week	Systolic(n)	Diastolic(n)	Pulse(n)
11-30-2025	132 (2)	69 (2)	60 (2)
11-23-2025	130 (2)	61 (2)	62 (2)
11-16-2025	136 (8)	66 (8)	61 (8)
11-09-2025	131 (8)	62 (8)	60 (8)
11-02-2025	137 (14)	67 (14)	63 (14)
10-26-2025	143 (10)	71 (10)	60 (10)
10-19-2025	142 (18)	74 (18)	71 (18)
10-12-2025	132 (18)	71 (18)	70 (18)
10-05-2025	157 (16)	79 (16)	69 (16)
09-28-2025	185 (18)	83 (18)	63 (18)
09-21-2025	189 (10)	83 (10)	59 (10)
09-14-2025	184 (12)	82 (12)	63 (12)

Blood Pressure Averages: Monthly



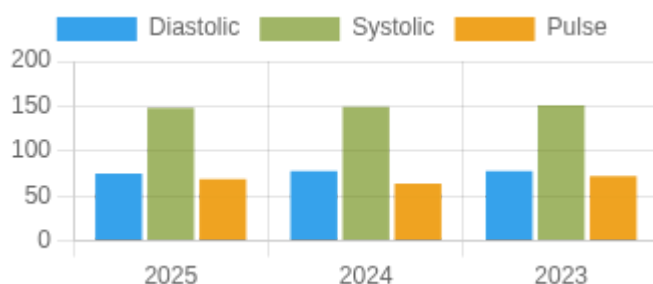
Month-Year	Systolic(n)	Diastolic(n)	Pulse(n)
11-2025	135 (32)	65 (32)	62 (32)
10-2025	150 (76)	75 (76)	68 (76)
9-2025	188 (47)	82 (47)	62 (47)
8-2025	169 (29)	80 (29)	64 (29)
7-2025	154 (38)	77 (38)	68 (38)
6-2025	140 (22)	73 (22)	63 (22)
5-2025	129 (48)	71 (48)	69 (48)
4-2025	135 (90)	74 (90)	79 (90)
3-2025	125 (10)	74 (10)	79 (10)
7-2024	133 (1)	67 (1)	69 (1)
5-2024	150 (12)	76 (12)	63 (12)
4-2024	152 (15)	79 (15)	67 (15)

Blood Pressure Averages: Quarterly



Quarter-Year	Systolic(n)	Diastolic(n)	Pulse(n)
10-2025	145 (108)	72 (108)	66 (108)
7-2025	172 (114)	80 (114)	65 (114)
4-2025	134 (160)	73 (160)	74 (160)
1-2025	125 (10)	74 (10)	79 (10)
7-2024	133 (1)	67 (1)	69 (1)
4-2024	151 (27)	77 (27)	65 (27)
1-2024	149 (169)	78 (169)	64 (169)
10-2023	151 (40)	78 (40)	72 (40)

Blood Pressure Averages: Yearly



Year	Systolic(n)	Diastolic(n)	Pulse(n)
2025	148 (392)	75 (392)	69 (392)
2024	149 (197)	78 (197)	64 (197)
2023	151 (40)	78 (40)	72 (40)

Blood Sugar Averages

Week	Before breakfast	2 hours after breakfast	Before lunch	2 hours after lunch	Before dinner	2 hours after dinner	Bedtime
12-07-2025	193(2)						
11-29-2025	155(4)						
11-21-2025	113(10)						
11-13-2025	120(12)						

Month-Year	Before breakfast	2 hours after breakfast	Before lunch	2 hours after lunch	Before dinner	2 hours after dinner	Bedtime
12-2025	193(2)						

11-2025	121(32)						
10-2025	135(62)				153(4)	126(10)	
09-2025	137(45)				79(2)		

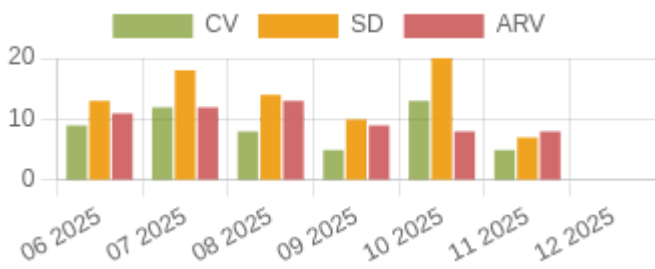
Year	Before breakfast	2 hours after breakfast	Before lunch	2 hours after lunch	Before dinner	2 hours after dinner	Bedtime
01-01-2025	134(335)	142(4)			123(10)	135(12)	125(31)
01-01-2024	159(66)	182(39)	127(11)	168(3)	160(15)	211(12)	185(34)
01-01-2023	152(8)	167(6)	167(5)	179(4)	124(6)	167(6)	122(5)

Chat

Sender	Receiver	Messege	Date&Time
R.A. Ramanujan , M.D.	Debra Raimondi	Happy Thanksgiving!	26-11-2025
R.A. Ramanujan , M.D.	Debra Raimondi	👍 HTG	25-11-2025
Debra Raimondi	R.A. Ramanujan , M.D.	GM. I am almost out of the amlodipine 5mg pills because I am taking two of them daily. can you please send a prescription to Guthrie pharmacy so I can pick them up before the holiday? thank you. hope you all have a very Happy and safe thanksgiving	25-11-2025
Debra Raimondi	R.A. Ramanujan , M.D.	thank you. you all have a nice weekend	21-11-2025
R.A. Ramanujan , M.D.	Debra Raimondi	Sent	21-11-2025
Debra Raimondi	R.A. Ramanujan , M.D.	thank you. can you let me know when it is sent to the pharmacy	21-11-2025
null Lexi Matthias, LPN	Debra Raimondi	OK, I'LL ASK DR RAM TO SWITCH THE NOVOLIN N TO LANTUS. THANK YOU FOR THE INFO. LEXI	21-11-2025
Debra Raimondi	R.A. Ramanujan , M.D.	the pharmacist check to see what my insurance pays for and she said it was plants solostar one months supply. I use the Guthrie pharmacy Oakdale mall. Ty	21-11-2025
Debra Raimondi	R.A. Ramanujan , M.D.	GM, I picked up my fast acting insulin pens yesterday but now I need a long acting prescription for the pens.	21-11-2025
null Sue Ward	Debra Raimondi	Medicare open enrollment has begun and will continue through December 7th. If you choose a plan we don't participate with, we will not be able to continue seeing you. As always, we require you to present your insurance card & copay at every visit, so remember to bring insurance card with you. The Medicare Advantage plans we participate with are AARP Medicare Aetna Medicare BCBS/Excellus Medicare CDCPHP Medicare Cigna/MVP Medicare Humana Medicare Medicare/Medicaid Railroad United Healthcare Medicare United Healthcare Dual Complete If you have any questions, please contact out office at 607-723-1676. We have sent a similar message through the patient portal as well. No response back through the checkmyvitals is needed. Hope to see you all next year DCA providers and staff	06-11-2025
Debra Raimondi	R.A. Ramanujan , M.D.	thank you for checking. I will double down on the fluid intake. Jane a great day	04-11-2025
R.A. Ramanujan , M.D.	Debra Raimondi	GM, Thanks for the alert. You do not have any kidney issue. Drink close to 80 OZ of water daily. Your numbers look great! stay the course. Alert be before U refill Metoprolol. Best	04-11-2025
Debra Raimondi	R.A. Ramanujan	bloodwork results are in. a1c 6.9. had some abnormal readings for kidney but don't understand what it means so you're free to look at it if you wish. thank you for	04-11-2025

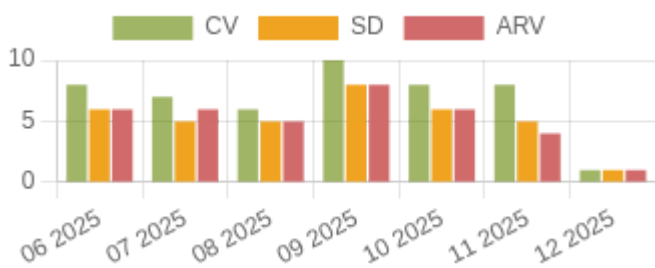
	, M.D.	hanging with me on my health. you've been great	
Debra Raimondi	R.A. Ramanujan , M.D.	I just called the hospital and they don't have it	03-11-2025
R.A. Ramanujan , M.D.	Debra Raimondi	Good luck!	03-11-2025

Systolic Variability Trends

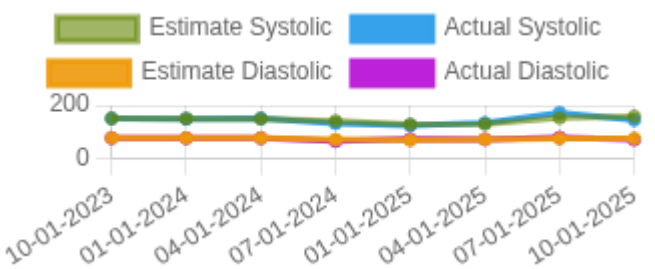


- 1. CV –The coefficient of variation (CV) is the ratio of the standard deviation to the mean. The higher the coefficient of variation, the greater the level of dispersion around the mean, Units = mmHg.
- 2. ARV – Average real variability (ARV) is a method for measuring short-term, reading-to-reading, within-subject variability. It is defined as the average of the absolute differences between consecutive readings, Units = mmHg.
- 3. SD – Standard deviation is a statistical measurement of variability. It measures how much variation there is from the average (mean), Units = mmHg.

Diastolic Variability Trends



Kalman Trends



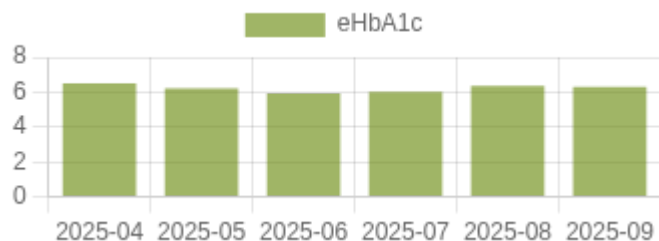
- 1. Mean(Arithmetic Mean) – Mean is the average of a set of numbers
- 2. SD – Standard deviation is a statistical measurement of variability. It measures how much variation there is from the average (mean).
- 3. V- Variance determines the spread of numbers.. It measures how far each number in the set is from the mean (average) and from every other number in the set.

PSR



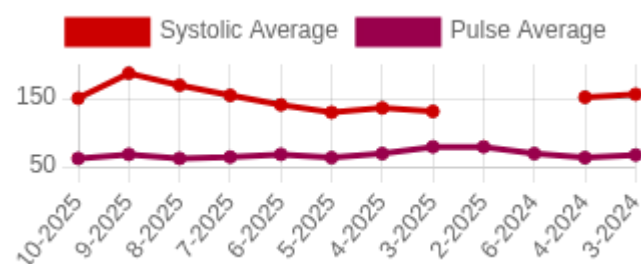
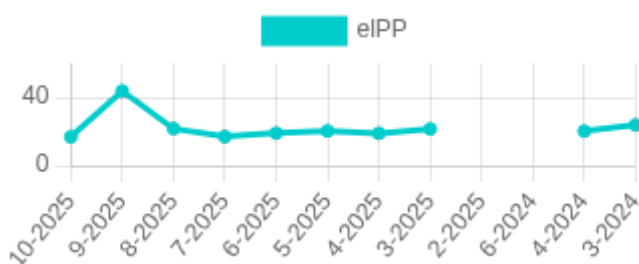
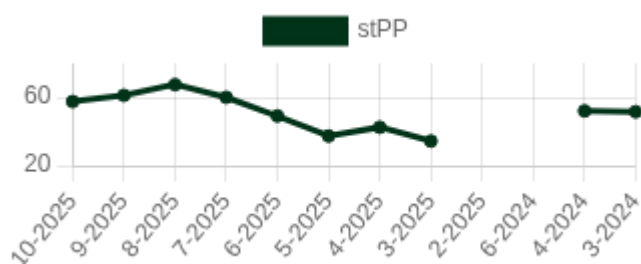
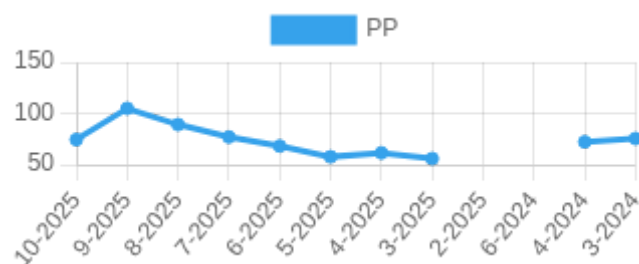
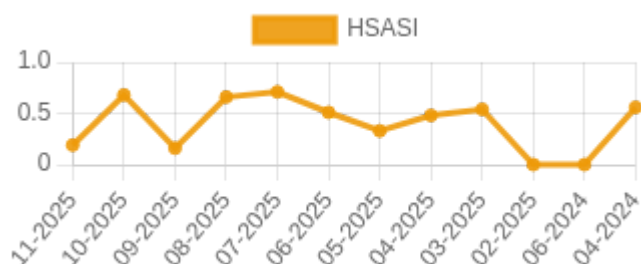
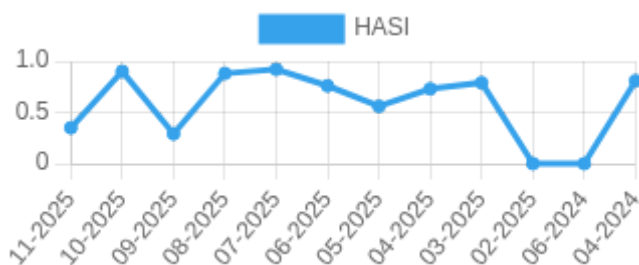
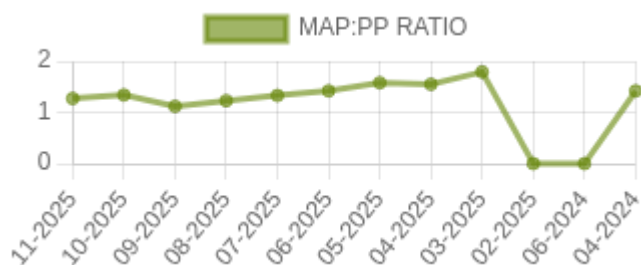
PSR: Pulse stiffening ratio (PSR) is the ratio between systolic and diastolic stiffness. It can be expressed as $PSR = \frac{[systolic\ stiffness]}{[diastolic\ stiffness]}$.

HbA1c Trends



Estimated HbA1c - eHbA1c

Others Trends



1. MAP:PP Ratio- Mean Arterial Pressure : Pulse Pressure Ratio

2. HASI- Home arterial stiffening index

3. HSASI- Home Symmetric arterial stiffening index

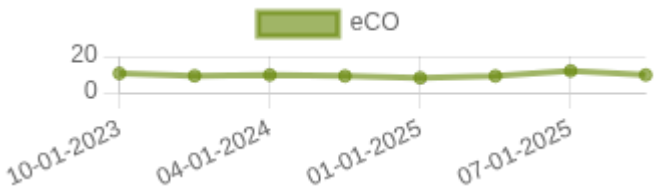
4. PP- Pulse Pressure

5. WIF or widening factor number. WIF = $K-1/\ln(K)-1$, where K is the variability ratio (K = Systolic Std. Dev / Diastolic Std. Dev)

6. eIPP- Elastic component of pulse pressure. eIPP= (PP - stPP)

7. stPP- Stiffening component of pulse pressure. stPP= PP/(1+ WIF)

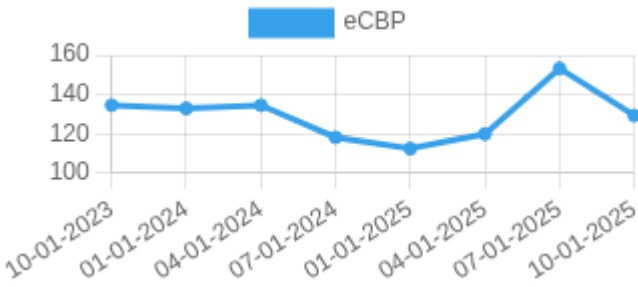
eCO graph



eCO (Estimated Cardiac Output) Normal range to be added 5 – 10 liters/minute

Units of eCO (Estimated Cardiac Output) – liters/minute

eCBP graph

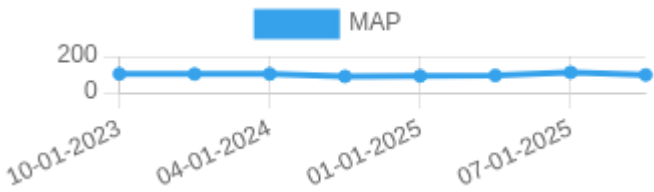


eCBP (Estimated Central Blood Pressure) normal range – 0 – 100 mmHg

1. Cardiac output scale is in liters/minute. Normal range at rest is 5-6 liters/min and (with activity goes up to 30 -35 liters/min)

2. Central mean BP is Squared, Mean radial artery BP/diastolic BP in mmHg. Scale in mmHg and range is in mmHg and the scale Should be between 0-50 50-100, 150 and 200 mmHg. No established normal at the moment.

MAP graph



MAP -Mean arterial blood pressure. MAP = Diastolic blood pressure + 1/3(Systolic blood pressure – Diastolic blood pressure)

Reference & Abbreviations

Guide to abbreviations and blood pressure, pulse and other Metrics.

HBPM -Home blood pressure measurement.	HBS -Home blood sugar
PP -Pulse pressure	AP -Average pulse
BPV -Blood pressure variability	SV -Systolic variability
DV -Diastolic variability	PV -Pulse variability
ARV -Average real variability	CV -Coefficient of variation %
SD -Standard deviation	MAP -Mean arterial blood pressure
MAP: PP Mean Arterial Pressure : Pulse Pressure	HASI -Home arterial stiffness index
HSASI -Home Symmetric arterial stiffness index	Estimated CO -Cardiac output [CO= (PPxHR)x.002]
PSR Pulse stiffening ratio. (PSR = SBP/DBP or slope of systolic BP/slope of diastolic BP)	

Estimated central blood pressure ECBP (ECBP = brachial MBP2/brachial DBP or ECBP = radial MBP2/radial DBP)

Normal Ranges.

Systolic BP 110 – 120 mm Hg

Diastolic BP 70 – 80 mmHg

Pulse 60 - 100/min

Pulse pressure (PP) 40 mmHg (Low PP less than 25% of the systolic BP and high PP greater than 100 mm Hg)

Normal stroke volume (SV) 60 -100 ml

Cardiac output (CO) SV x pulse rate/min

Estimate Cardiac output = Stroke volume / m

Blood pressure variability; Not defined in USA. But desirable ranges ESH guidelines; Systolic day time BP less than 15 mmHg and Diastolic less than 7.9 mmHg and Weighted SD less than 12.8 mmHg for systolic

Definitions.

MAP:PP ratio not defined.

Pulse stiffening ration; Not defined. $\text{Pulse pressure} \times \text{inverse log} \left(\frac{\text{std. dev. systolic}}{\text{std. dev. Diastolic}} \right) / \left(\frac{\text{std. dev. systolic}}{\text{std. dev. Diastolic}} - 1 \right)$ (Pulse pressure X ln (K)/(K-1) where K is systolic Sd /diastolic SD.)

Home arterial stiffness index; Not defined

Home arterial symmetric arterial index: Not defined.

Central blood pressure:Not defined

References.

MAP;
Chemla D, Antony I, Zamani K, Nitenberg A. Mean aortic pressure is the geometric mean of systolic and diastolic aortic pressure in resting humans. J Appl Physiol (1985). 2005 Dec;99(6):2278-84. doi: 10.1152/japplphysiol.00713.2005. Epub 2005 Jul 28. PMID: 16051709. Tien LYH, Morgan WH, Cringle SJ, Yu DY. Optimal Calculation of Mean Pressure From Pulse Pressure. Am J Hypertens. 2023 May 21;36(6):297-305. doi: 10.1093/ajh/hpad026. PMID: 36945835; PMCID: PMC10200551.

PSR:

Gavish B, Izzo JL Jr. Arterial Stiffness: Going a Step Beyond. Am J Hypertens. 2016 Nov 1;29(11):1223-1233. doi: 10.1093/ajh/hpw061. PMID: 27405964.

DCBP:

Chemla D, Millasseau S, Hamzaoui O, Teboul JL, Monnet X, Michard F, Jozwiak M. New Method to Estimate Central Systolic Blood Pressure From Peripheral Pressure: A Proof of Concept and Validation Study. Front Cardiovasc Med. 2021 Dec 15;8:772613. doi: 10.3389/fcvm.2021.772613. PMID: 34977186; PMCID: PMC8714848.

CO

Koenig J, Hill LK, Williams DP, Thayer JF. Estimating cardiac output from blood pressure and heart rate: the liljestrand& zander formula. Biomed Sci Instrum. 2015;51:85-90. PMID: 25996703; PMCID: PMC5317099.

BP

Mean arterial blood pressure;

Guidelines recommend less than 125 mmHg Poon LC, Shennan A, Hyett JA, Kapur A, Hadar E, Divakar H, McAuliffe F, da Silva Costa F, von Dadelszen P, McIntyre HD, Kihara AB, Di Renzo GC, Romero R, D'Alton M, Berghella V, Nicolaides KH, Hod M. The International Federation of Gynecology and Obstetrics (FIGO) initiative on pre-eclampsia: a pragmatic guide for first-trimester screening and prevention. Int J

GynaecolObstet 2019;

145(Suppl 1):1–33. Not defined in general (desirable MAP ,90 mm Hg) Melgarejo JD, Yang WY, Thijs L, Li Y, Asayama K, Hansen TW, Wei FF, Kikuya M, Ohkubo T, Dolan E, Stolarz-Skrzypek K, Huang QF, Tikhonoff V, Malyutina S, Casiglia E, Lind L, Sandoya E, Filipovský J, Gilis-Malinowska N, Narkiewicz K, Kawecka-Jaszcz K, Boggia J, Wang JG, Imai Y, Vanassche T, Verhamme P, Janssens S, O'Brien E, Maestre GE, Staessen JA, Zhang ZY; International

Database on Ambulatory Blood Pressure in Relation to Cardiovascular Outcome Investigators*. Association of Fatal and Nonfatal Cardiovascular Outcomes With 24-Hour Mean Arterial Pressure. Hypertension. 2021 Jan;77(1):39-48

We hope these complementary multiparametric data along with standard set used in daily practice helps to understand home blood pressure trend and other information they may potentially generate in the future to understand medication effects and patient management.

Terms & Conditions Accepted: YES

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