

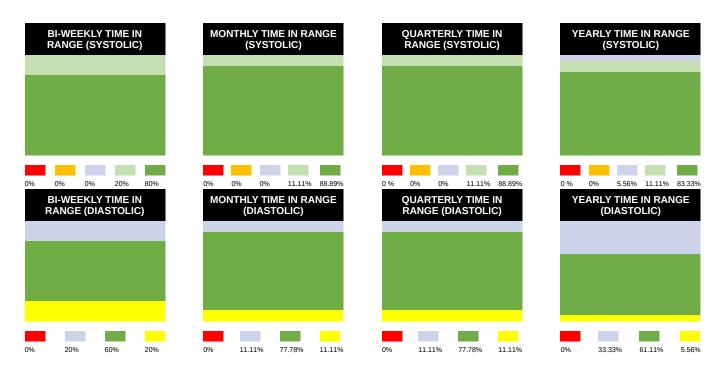


40 Mitchell Ave, Binghamton, NY 13903 Phone:(607) 723-1676

Patient Name: Tammy Peters Height: 63.

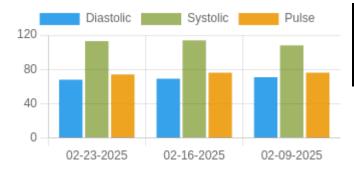
MRN #: 7415 Weight: 175

Birth Year: Hypertension: S1



Blood Pressure Averages

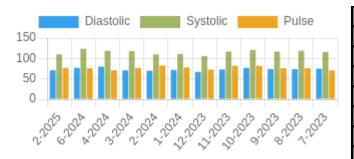
Blood Pressure Averages: Weekly



Week	Systolic(n)	Diastolic(n)	Pulse(n)
02-23-2025	113 (3)	68 (3)	74 (3)
02-16-2025	114 (1)	69 (1)	76 (1)
02-09-2025	108 (5)	71 (5)	76 (5)

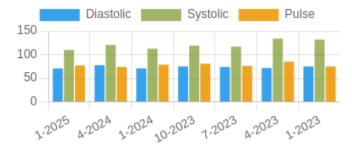
Blood Pressure Averages: Monthly

Month-Year	Systolic(n)	Diastolic(n)	Pulse(n)
2-2025	110 (8)	71 (8)	77 (8)
6-2024	124 (2)	77 (2)	76 (2)
4-2024	119 (2)	80 (2)	71 (2)
3-2024	118 (5)	71 (5)	77 (5)



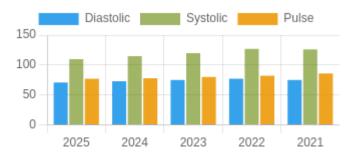
2-2024	110 (5)	70 (5)	83 (5)
1-2024	111 (4)	72 (4)	78 (4)
12-2023	106 (1)	67 (1)	73 (1)
11-2023	117 (11)	73 (11)	82 (11)
10-2023	121 (19)	77 (19)	82 (19)
9-2023	117 (25)	74 (25)	76 (25)
8-2023	119 (4)	74 (4)	76 (4)
7-2023	116 (6)	75 (6)	71 (6)

Blood Pressure Averages: Quarterly



Quarter-Year	Systolic(n)	Diastolic(n)	Pulse(n)
1-2025	110 (8)	71 (8)	77 (8)
4-2024	121 (4)	78 (4)	74 (4)
1-2024	113 (14)	71 (14)	79 (14)
10-2023	119 (31)	75 (31)	81 (31)
7-2023	117 (35)	74 (35)	76 (35)
4-2023	134 (4)	72 (4)	85 (4)
1-2023	132 (3)	75 (3)	75 (3)

Blood Pressure Averages: Yearly



Year	Systolic(n)	Diastolic(n)	Pulse(n)
2025	110 (8)	71 (8)	77 (8)
2024	115 (18)	73 (18)	78 (18)
2023	120 (94)	75 (94)	80 (94)
2022	127 (35)	77 (35)	82 (35)
2021	126 (103)	75 (103)	86 (103)

Blood Sugar Averages

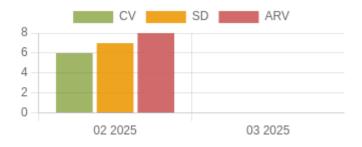
Year	Before breakfast	2 hours after breakfast	Before lunch	2 hours after lunch	Before dinner	2 hours after dinner	Bedtime
01-01-2023	144(20)	156(5)	137(16)	136(5)	137(5)	137(2)	146(2)

<u>Chat</u>

Sender	Receiver	Messege	
Amy Burpee , MS,RD,CDE	Tammy Peters	🡍 thanks for the update!!	
Tammy Peters	R.A. Ramanujan , M.D.	I saw my gynecologist yesterday for my yearly and she will do some hormone testing. Could be causing some of the glucose fluctuating. Especially in the morning. I will keep you posted.	18-02-2025
Tammy Peters	R.A. Ramanujan , M.D.	Will do. sorry	11-02-2025
R.A. Ramanujan , M.D.	Tammy Peters	Hi Tammy please send BP # off and on please. 🤲	11-02-2025

Tammy Peters	R.A. Ramanujan , M.D.	Thank you!	
R.A. Ramanujan , M.D.	Tammy Peters	🙏 any more issue please contact. Best	
Tammy Peters	R.A. Ramanujan , M.D.	They just sent a separate message saying it was shipped. i have no idea what they are doing. ha	10-02-2025
Tammy Peters	R.A. Ramanujan , M.D.	Express Scripts is sending me a letter as t why they are not covering Farxiga. I spoke to someone earlier eho said they approved it so I do not know what is going on. I will wait for the letter I guess since I have some on hand to take. Maybe they want me on a different mefication. Thank you.	10-02-2025
Tammy Peters	R.A. Ramanujan , M.D.	Express Scripts is sending me a letter as t why they are not covering Farxiga. I spoke to someone earlier eho said they approved it so I do not know what is going on. I will wait for the letter I guess since I have some on hand to take. Maybe they want me on a different mefication. Thank you.	
Tammy Peters	R.A. Ramanujan , M.D.	Thank you!	10-02-2025
R.A. Ramanujan , M.D.	Tammy Peters	Will have staff check Status.	
Tammy Peters	R.A. Ramanujan , M.D.	I want to let Aimee know that my hormones are a mess and I think it is affecting my glucose. I see her Friday and see my gynecologist Monday about my menopause and hormones. I still have mot heard about the Farxiga from my insurance. Have a good day. Tammy	10-02-2025

Systolic Variability Trends

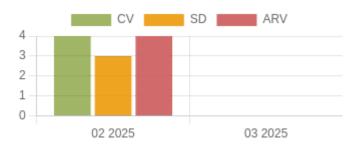


1. CV –The coefficient of variation (CV) is the ratio of the standard deviation to the mean. The higher the coefficient of variation, the greater the level of dispersion around the mean, Units = mmHg.

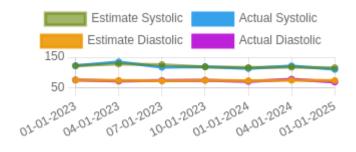
2. ARV – Average real variability (ARV) is a method for measuring short-term, reading-to-reading, within-subject variability. It is defined as the average of the absolute differences between consecutive readings, Units = mmHg.

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

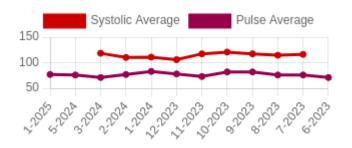


PSR: Pulse stiffening ratio (PSR) is the ratio between systolic and diastolic stiffness. It can be expressed as PSR = [systolic stiffness]/[diastolic stiffness].

HbA1c Trends

MAP:PP RATIO HASI 3 1.0 2 0.5 1 0 0 02-2024 03-2024 05-2024 03-2024 02-2025 01-2025 05-2024 02-2025 01-2025 02-2024 01-2024 12-2023 01-2024 12-2023 ΡP HSASI 0.8 45 0.4 35 0 22023 122023 10:202 5:2024 3:2024 22024 s.102 12025 1-2024 8°202 6.202 1.202 03-2024 05-2024 02-2024 01-2024 12-2023 02-2025 01-2025 stPP elPP 30 20 10 10 10-2023 22023 o^{.2023} 2:2025 5:2024 2:2025 3.2027.202 12-202-202 0.2023 3202 2202 2202 2202 2202 3102 2202 1202 1202 1202 8.2023 6702 1.2023 62023

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/In(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 -Homme 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. Pulse pressure * inverse log (std. dev. systolic / std. dev. Diastolic) / (std. dev. systolic / std. dev. Diastolic) - 1 (Pulse pressure X In (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. FrontCardiovasc 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 andother information they may potentially generate in the future to understand medication effects and patient management.

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