

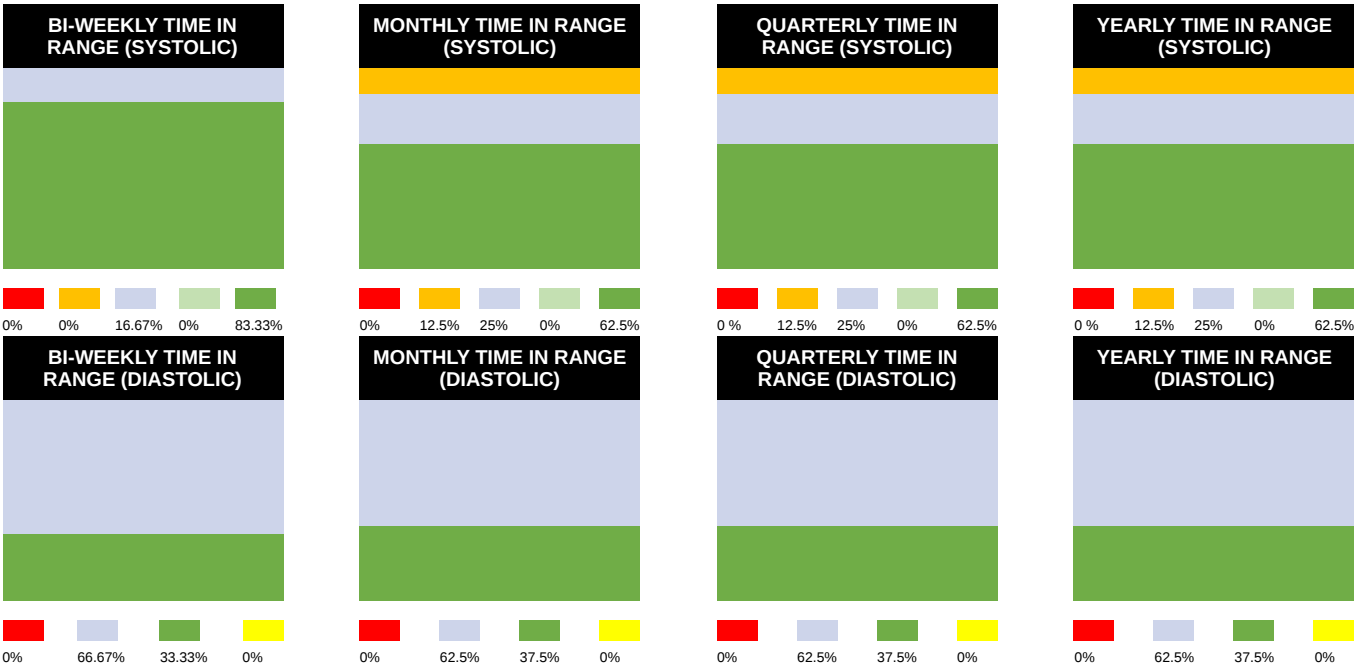


40 Mitchell Ave, Binghamton, NY 13903 Phone:(607) 723-1676

Patient Name: Rebecca Shearer
Height: 5.2

MRN #: 8198
Weight: 208

Birth Year:
Hypertension: S1

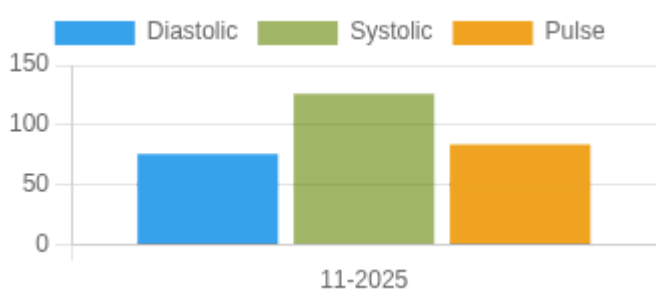


Blood Pressure Averages

Blood Pressure Averages: Weekly

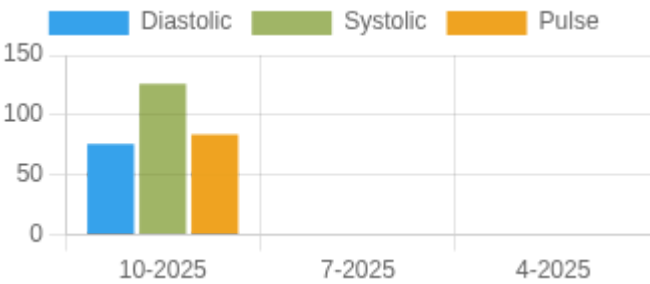
Week	Systolic(n)	Diastolic(n)	Pulse(n)
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Blood Pressure Averages: Monthly



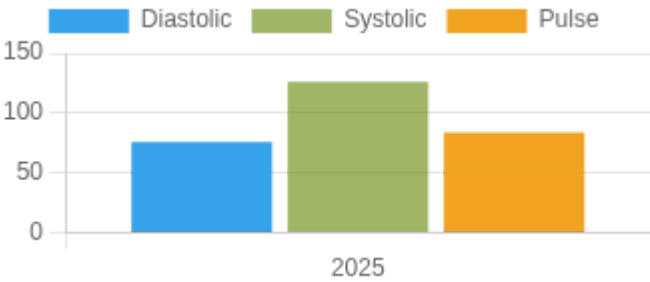
Month-Year	Systolic(n)	Diastolic(n)	Pulse(n)
11-2025	126 (16)	76 (16)	84 (16)

Blood Pressure Averages: Quarterly



Quarter-Year	Systolic(n)	Diastolic(n)	Pulse(n)
10-2025	126 (16)	76 (16)	84 (16)
7-2025	0 (0)	0 (0)	0 (0)
4-2025	0 (0)	0 (0)	0 (0)

Blood Pressure Averages: Yearly



Year	Systolic(n)	Diastolic(n)	Pulse(n)
2025	126 (16)	76 (16)	84 (16)

Blood Sugar Averages

Month-Year	Before breakfast	2 hours after breakfast	Before lunch	2 hours after lunch	Before dinner	2 hours after dinner	Bedtime
10-2025				130(1)		307(1)	
09-2025					282(1)		

Year	Before breakfast	2 hours after breakfast	Before lunch	2 hours after lunch	Before dinner	2 hours after dinner	Bedtime
01-01-2025	175(41)	226(6)	188(44)	215(9)	220(17)	298(8)	257(28)

Chat

Sender	Receiver	Messege	Date&Time
R.A. Ramanujan , M.D.	Rebecca Shearer	Happy Thanksgiving!	26-11-2025
R.A. Ramanujan , M.D.	Rebecca Shearer	GM and it is your determination to stay committed. BEST and HTG	26-11-2025
Rebecca Shearer	R.A. Ramanujan , M.D.	just a quick check in...I was out of needles yesterday and decided to test what my day would be like without Lantus yesterday. the answer was that it wasn't terrible. I had a couple higher numbers, but on the past it would be above 300. just recently with changes the last few months, it still would have been between 200 +. yesterday, aside from eating and exercising, it stayed pretty level. I haven't seen this perhaps EVER, since I was diagnosed with diabetes in 2000! this mornings reading was amazing (still without Lantus) and while my number jumped up to 135, that's due to the fact that I was just exercising. I made it to 70 for planks and leg lifts. never could do that before. With Thanksgiving coming in a couple days, I just wanted to say thank you all again for helping me get my life back. I felt horrible and very hopeless before I started there. I knew I wouldn't make it another five years to watch our daughter grow into a young woman. Today I have energy. I'm up early again, sleeping at night, doing things I couldn't do before AND friends and family members are telling me I look great! I thank God for all of you! Happy Thanksgiving to you all.	25-11-2025

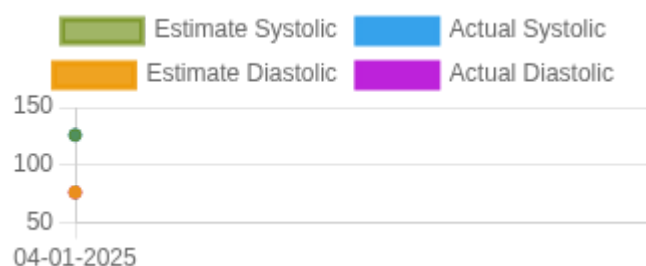
Rebecca Shearer	R.A. Ramanujan , M.D.	thanks so much!	24-11-2025
R.A. Ramanujan , M.D.	Rebecca Shearer	GM, Rx sent 🍷	24-11-2025
Rebecca Shearer	R.A. Ramanujan , M.D.	hi there! I need more needles for the Lantus, but since you've given room to add short acting insulin, I won't have enough needles because the insurance o my covers 30 needles for just the Lantus. any way to fix the amount of needles to get them to cover 100 needles to cover extra dosing when I need it? I'll be going to the pharmacy on Monday to grab some since I'm out. thank you all very much. Happy Thanksgiving! 🦃	23-11-2025
R.A. Ramanujan , M.D.	Rebecca Shearer	👍	11-11-2025
Rebecca Shearer	R.A. Ramanujan , M.D.	Hi there, I've been extremely nauseous this go around and the last two days have only had tea. is it possible to get another script for zofran sent to my pharmacy please? they also asked me to have you sent a script for alcohol wipes as well. I've been paying out of pocket, but my insurance will pay for that as well. thank you! 🙏	11-11-2025
null Sue Ward	Rebecca Shearer	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

Systolic Variability Trends

- 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.
- 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.
- 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



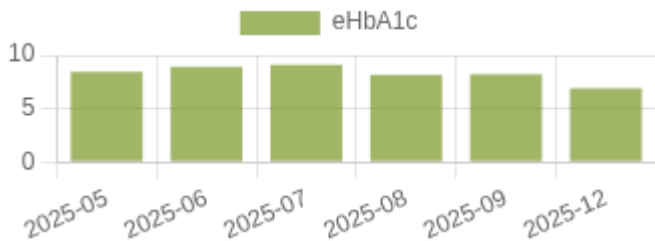
- Mean(Arithmetic Mean)** – Mean is the average of a set of numbers
- SD** – Standard deviation is a statistical measurement of variability. It measures how much variation there is from the average (mean).
- V** - Variance determines the spread of numbers.. It measures how far each number in the set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

PSR



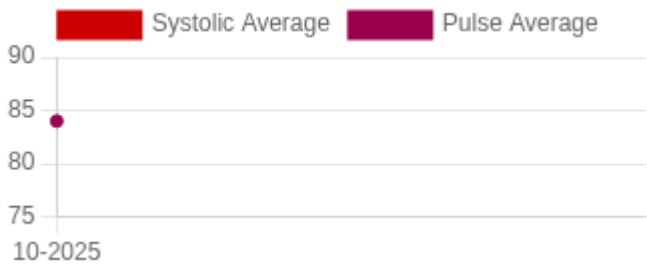
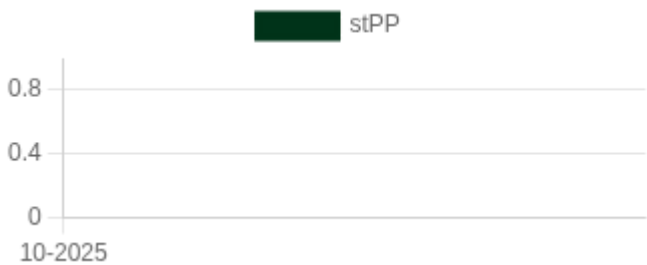
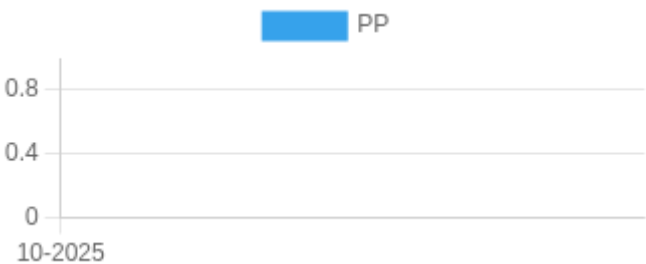
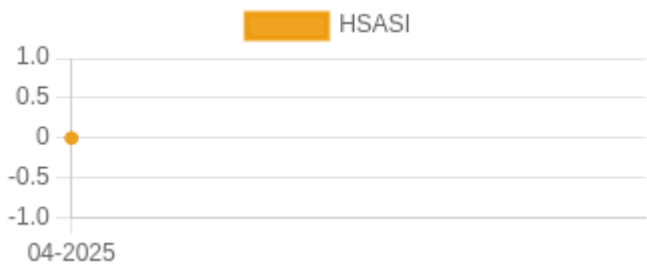
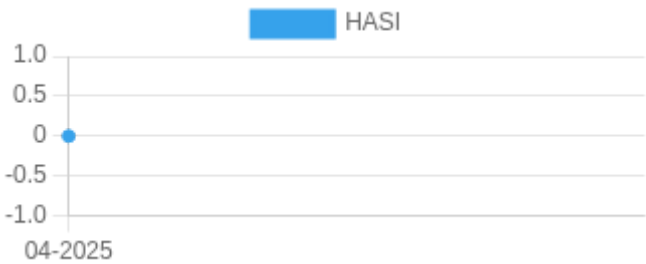
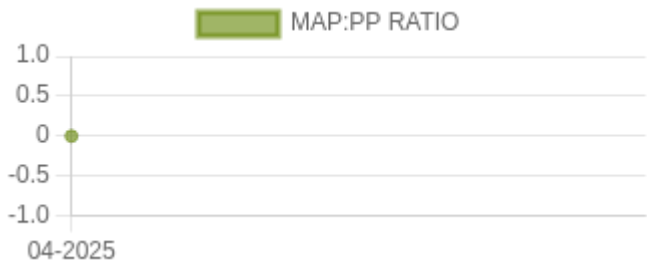
PSR: Pulse stiffening ratio (PSR) is the ratio between systolic and diastolic stiffness. It can be expressed as $PSR = \frac{[systolic\ stiffness]}{[diastolic\ stiffness]}$.

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 ($K = \text{Systolic Std. Dev} / \text{Diastolic Std. Dev}$)

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

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

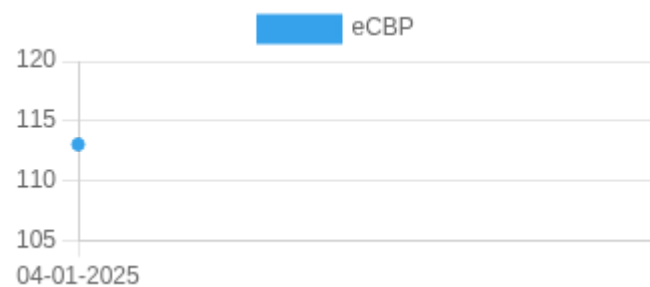
eCO graph



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. $MAP = \text{Diastolic blood pressure} + 1/3(\text{Systolic blood pressure} - \text{Diastolic blood pressure})$

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. Pulse pressure * inverse log (std. dev. systolic / std. dev. Diastolic) / (std. dev. systolic / std. dev. Diastolic) - 1 (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, Filipovsky 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.

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