HOW WE IMPLEMENT THE SMBP PROGRAM



WE ARE A PRIVATELY OWNED MEDICAL CORPORATION WITH FOUR (4) ARMS TO IDENTIFY PATIENTS WITH HIGH BLOOD PRESSURE THAT NEED SMBP ENROLLMENT AND CARE

- 1. OCCPATIONAL MEDICINE
- 2. DIRECT PRIMARY CARE FOR EMPLOYERS AND THEIR WORK FAMILIES EXCLUSIVELY
- 3. CORPORATE HEALTH AND WELLNESS PROGRAMS FOR EMPLOYERS
- 4. TRADITIONAL FAMILY/PEDIATRIC MEDICAL CARE PRACTICE

TYPES OF EMPLOYERS WE PROVIDE MEDICAL SERVICES FOR CURRENTLY (1-3) (HEALTH INSURANCE NOT UTILIZED):

- RIVER INDUSTRY
- NATIONAL TRUCKING/SEMI COMPANIES
- CHEMICAL /INDUSTRIAL PLANTS
- DEPARTMENT OF ENERGY/NUCLEAR FACILITIES
- CONSTRUCTION FIRMS
- MUNICIPALITIES
- FIRST RESPONDER SERVICES (FIRE, LAW ENFORCEMENT, EMS)
- NON-PROFIT ORGANIZATIONS (CHURCHES AND SERVICE BASED GROUPS)

TRADITIONAL FAMILY/PEDIATRIC MEDICAL CARE PRACTICE (4) (HEALTH INSURANCE IS UTILIZED)

HOW WE UTILIZE TECHNOLOGY WITHIN THE SMBP PROGRAM

- ALL MEDICAL ARMS FUNNEL PATIENTS REQUIRING SMBP MONITORING TO WELLNESS DIVISION VIA OUR EMR SYSTEM
 - PROVIDERS DENOTE BP GOALS, FREQUENCY TAKING BP DESIRED, REPORTING TIMELINES DESIRED
 - PROVIDERS UTILIZE A PRESCRIPTION PAD THAT WAS DEVELOPED BY KHDSP (KY Heart Disease & Stroke Prevention Program)
- BLUE-TOOTH BP CUFFS ARE PLACED ON PATIENTS WITH TRAINING BY THE CORPORATE WELLNESS DIVISION
 - CONNECTED TO THE ONLINE/SMARTDEVICE APP SO DAILY MONITORING MAY OCCUR BY STAFF
 - THOSE NOT DESIRING APP USAGE MAY UTILIZE PAPER BP LOGS THAT ARE COLLECTED WEEKLY
- PATIENT REPORTS GENERATED FOR PROVIDERS, ON SCHEDULE REQUESTED, FOR ADJUSTING CARE PLANS.
 - REPORTS MAY BE GENERATED ON ANY DATE RANGE REQUESTED (HIGHEST BP, LOWEST BP, AVERAGE, TIME OF READINGS)
 - MEDICATIONS ARE ADJUSTED BASED ON REPORTS (TYPES OR NUMBER OF MEDICATIONS, TIMES MEDICATIONS SHOULD BE TAKEN, ORDERING OF ADDITIONAL DIAGNOSTICS IF NEEDED)
- PATIENTS ARE COMMUNICATED WITH THROUGH SEVERAL MEANS ON AT LEAST A MONTHLY BASIS (FACE TO FACE CARE, PHONE CALLS, TEXTS WITH PERMISION)



Kentucky Regional Extension Center Services

UK's Kentucky REC is a trusted advisor and partner to healthcare organizations, supplying expert guidance to maximize quality, outcomes and financial performance.

Kentucky REC Description



To date, the Kentucky REC's activities include:

- Assisting more than 5,000 individual providers across Kentucky, including primary care providers and specialists
- Helping more than 95% of the Federally Qualified Health Centers (FQHCs) and Rural Health Clinics (RHCs) within Kentucky
- Working with more than 1/2 of all Kentucky hospitals in Promoting Interoperability, HIPAA, and Quality Improvement
- Supporting practices and health systems across the Commonwealth with practice transformation and success in value-based payment

Physician Services

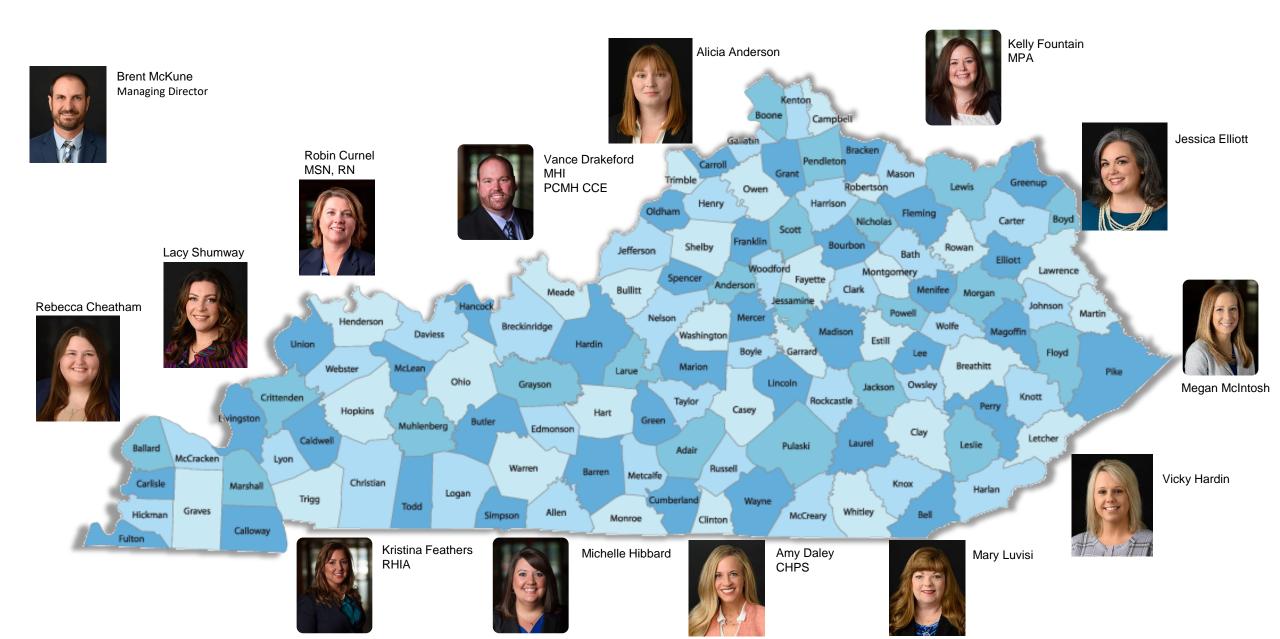
- 1. HIPAA SRA, Project Management & Vulnerability Scanning
- 2. Patient Centered Medical Home (PCMH) Consulting
- 3. Patient Centered Specialty Practice (PCSP) Consulting
- 4. Value Based Payment & QPP Support
- **5. Quality Improvement Support**
- 6. Telehealth Services

Hospital Services

- 1. Promoting Interoperability (Formerly Meaningful Use)
- 2. HIPAA SRA, Project Management & Vulnerability Scanning
- 3. Hospital Quality Improvement Support

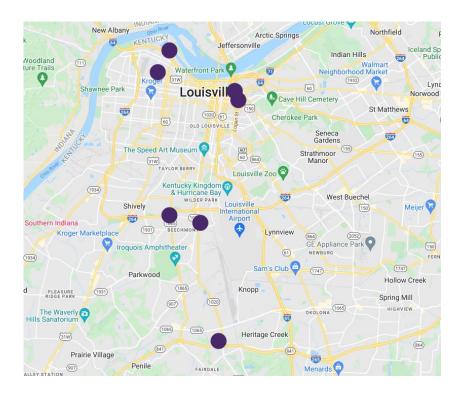


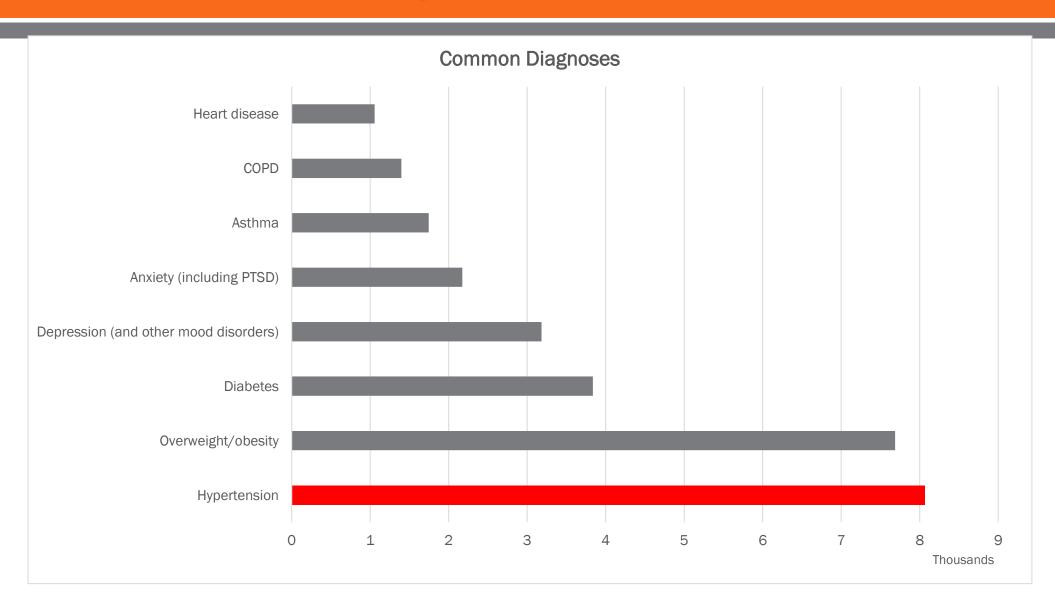
Kentucky Regional Extension Center: Health Innovation Advisors



- Federally Qualified Health Center
- 7 locations in medically underserved areas of Louisville
- 40,000+ patients; 130,000+ visits annually
- Services
 - Primary medical care
 - Lab, Radiology, Pharmacy, Dental, Behavioral Health, Substance Abuse, Social Services, Health insurance application assistance, Interpreter services, Housing assistance
 - Health Education, Clinical Pharmacy







BP at Home

HRSA grant to provide 4,365 patients with HTN (controlled or uncontrolled) with home BP monitors and use home readings in patient treatment plans



- SMBP
 - Provide information about HTN, color zones, benefits of sharing home readings with PCP,
 medication and lifestyle changes
 - Depth of patient education varies greatly by participant
- Use of HIT, EHR
 - Lab EHR: provider referrals; tracking patient enrollment
 - RPM via CAREMINDr: patients transmit home readings to FHC daily via phone app; care management of flagged home readings; messaging to patients within the app
 - EHR: scanned images of electronic or hand-written home logs; communication with PCP about patient readings, adjustments to treatment plan, and follow up appointments

BP at Home +

- CDC grant with HDSP and UofL for team-based care to patients with uncontrolled HTN; also provides home BP monitors and uses home readings in patient treatment plans
- SMBP
 - Provide detailed information to all participants about HTN, color zones, benefits of sharing home readings with PCP, medication and lifestyle changes
- Use of HIT, EHR
 - EHR: provider referrals, patient appointment reminders, documentation of patient encounters, scanned images of hand-written home logs, communication with PCP about patient readings, adjustments to treatment plan, and follow up appointments
 - MEND Telehealth: video appointments
 - REDCap: data entry and analysis

BP at Home: Enrollment



- Patient presents for medical visit in primary care or women's health
- Patient has a diagnosis of hypertension
 - Controlled OR <u>uncontrolled</u>
- Provider recommends SMBP to inform treatment plan
- Patient agrees to
 - Take BP readings at home
 - Send BP readings to FHC
 - Follow up with PCP to review BP readings
- Provider completes forms in EHR
- Patient goes to Lab for cuff
- Patient schedules 1 month follow up appt. with PCP

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BP at Home: Education



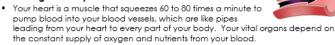
Program phone number and email are provided

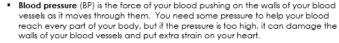




Understanding High Blood Pressure

What is high blood pressure?

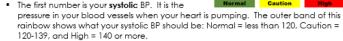




- When you have high blood pressure (also called hypertension), you must take steps to control your blood pressure and prevent serious health problems like:
 - a Strake
 - Heart attack or heart failure
 - Kidney problems
 - Vision changes and blindness

Knowing your numbers

The first step to controlling your BP is knowing your numbers. An example BP is 125/85.



 The next number is your diastolic BP. It is the pressure when your heart is resting in between beats. The inner band of this rainbow shows what your diastolic BP should be: Normal = less than 80, Caution = 80-89, and High = 90 or more.

Most people cannot feel when their BP is too high. **The only way to know your numbers is to check.** Your health provider will measure your BP at the office, but knowing your numbers in between visits is very important. Checking your BP every day at home helps you and your health provider:

- Know your BP patterns
- Know whether your medicines are working
- See the benefits of healthy eating, physical activity, and stress relief on your BP
- . Know if your BP is so high that you should call your doctor or go to the hospital

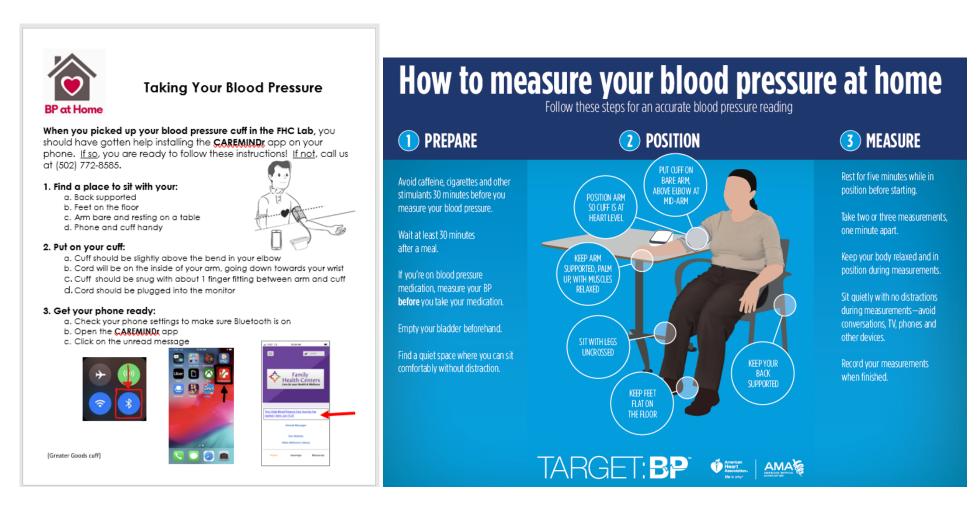
SOURCE American Heart Association





BP at Home: Education





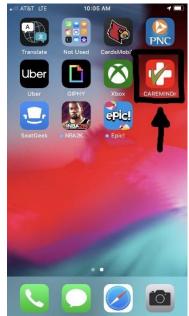
Available in English, Spanish, other languages





- CAREMINDr phone app
 - Daily reminder to take BP; records readings
 - Asks patient about medication adherence, HTN symptoms
 - Transmits patient information to FHC via online dashboard
 - Settings for warning, critical, emergency alerts

Available in English and Spanish



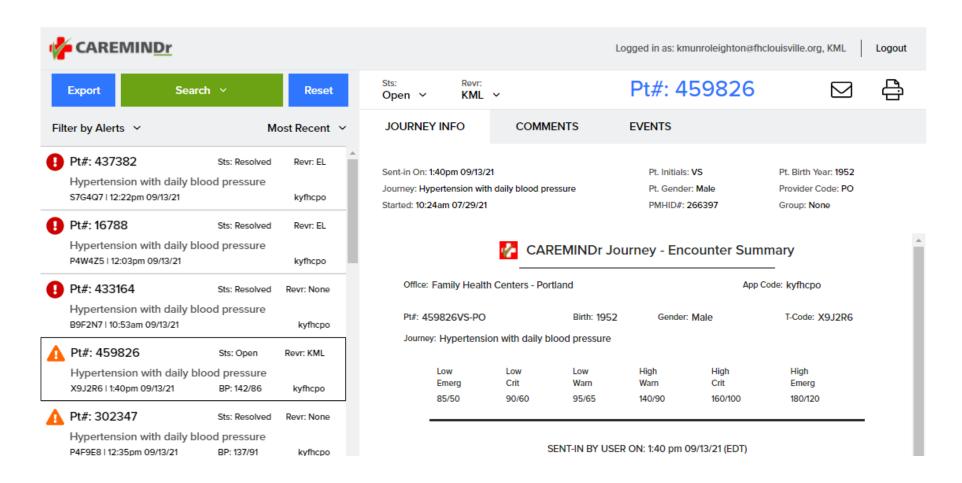
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BP at Home: RPM

CAREMINDr dashboard with alerts



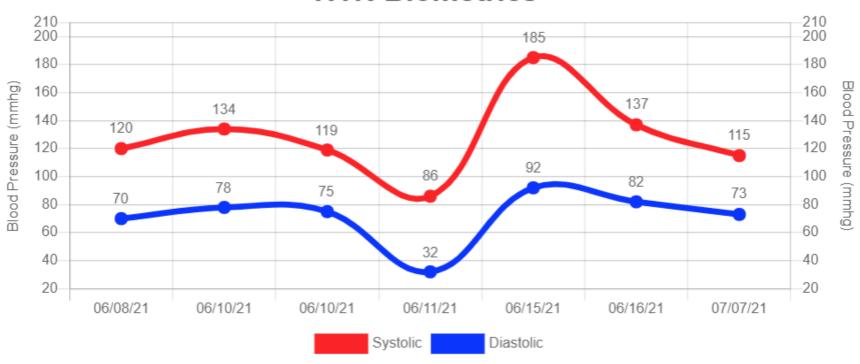


BP at Home

BP at Home: RPM

Graph, average SBP/DBP

HTN Biometrics





BP at Home: RPM

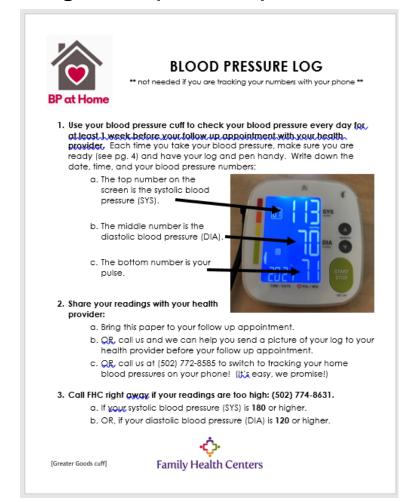
Home BP reading response rubric

BP reading		PCP appt. scheduled	Action
IN CONTROL	<140/90	Yes	None
		No	None
Warning	140/90 to 159/99	Yes	None
	(2 readings in 1 week)	No	Call patient to schedule PCP appt.
		Yes / more than 4 weeks out	
Critical	160/100 to 179/119	Yes / within 2 weeks	Send Task to PCP
	(2 readings in 1 week)	No	Call patient to schedule asap PCP
			appt. or urgent care appt.; Send Task
			to PCP
		Yes / more than 2 weeks out	
Emergency	≥180/120	Yes / any	Call patient to schedule asap PCP
			appt. or urgent care appt.; Provide
			scripted instructions on symptoms
			that warrant ED visit; Send Task to
			PCP
		No	Call patient to schedule asap PCP
			appt. or urgent care appt.; Provide
			scripted instructions on symptoms
			that warrant ED visit; Send Task to
			PCP

BP at Home: Paper log



English/Spanish patient cannot or will not use phone app



	G		[pgippt/lobe
TE TIME	SYS (top #)	DIA (bottom #)	PULSE
Morning			
Evening			
Morning			
Evening			
Morning			
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Morning			
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Morning		1	
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BP at Home: Paper log



Other languages

ارتفاع ضغط الدم (الضغط العالي)

High Blood Pressure (Hypertension)

Blood pressure is the force put on the walls of the blood vessels with each heartbeat. Blood pressure helps move blood through your body.

Taking Your Blood Pressure

Blood pressure is often checked by putting a wide band called a cuff around your upper arm. Air is pumped into the cuff. Your blood pressure is measured as the air is let out of

Blood pressure is one number over a second number. You may hear your doctor say 110 over 72 (110/72), for example.

- The top number is higher and is called the systolic reading. It is the pressure in the blood vessels when the heart pumps.
- The bottom number is lower and is called the diastolic reading. It is the pressure in the blood vessels when the heart rests between beats.

Normal Blood Pressure

Normal blood pressure is a top number less than 120 (systolic) and a bottom number less than 80 (diastolic). Each person's blood pressure changes from hour to hour and from day to day.

High Blood Pressure

High blood pressure is also called hypertension. High blood pressure is 130 or higher over 80 or higher. There are different stages of high blood pressure, based on how high your numbers are. ضغط الدم هو القوة التي تقع على جدران الأوعية الدموية مع كل نبضة من نبضات القلب. وضغط الدم يساعد على انتقال الدم بين أجزاء الجسم.

قياس ضغط الدم

يِتَم قِيلِس ضغط الدم في الغالب بوضع شريط عريض يسمى "الكُم المطاطي" حول الجزء العلوي من الذراع، ثم يِتَم ضخ الهواء في هذا الكُم. ويتَم قِباس ضغط الدم أثنّاء السماح للهواء بالخروج من الكُم.

ضغط الدم عبارة عن رقم فوق رقم آخر. على مبيل المثل، قد تسمع طبيبك يقول 110 على 72 (110/72).

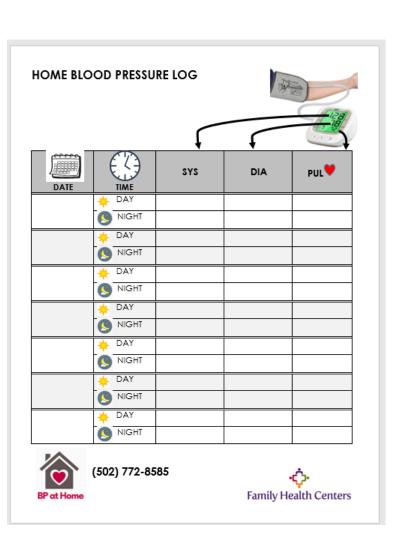
- الرقم الأعلى يكون أكبر من الرقم الأسفل ويسمى
 "لقراءة الانتباضية", ويجر هذا الرقم عن الضغط في
 الأوعية الدموية عندما يقوم القلب بضغ الدم.

ضغط الدم العادي

يكون ضنغط الدم طبيعيًّا عندما يكون الرقم العلوي أقل من 120 (الانقباضيي) والرقم السفلي أقل من 80 (الانبساطي). ويتقارت ضنغط الدم من شخص لأخر. حيث يتخير ضنغط الدم لكل شخص من ساعة إلى ساعة ومن يوم إلى يوم.

ارتفاع ضغط الدم

يكون ضغط الدم مرتفعًا إذا كان قواسه 130 على 80 أو أكثر. وهذاك مراحل مختلفة من ارتفاع ضغط الدم، استتاداً إلى مدى ارتفاع الأرقام الخاصنة بك.



BP at Home: DATA



(BP in control <140/90)

- QI dashboards (all FHC patients in 2021)
 - 8,107 patients with HTN
 - 4,636 (57.2%) with BP in control at most recent medical visit
 - 3,471 (42.8%) with uncontrolled BP
- 2021 BP at Home participants who received cuff
 - 1,183 patients
 - 472 (39.9%) with BP in control at cuff visit
 - 711 (60.1%) with uncontrolled BP
- 2021 BP at Home participants with post-cuff visit
 - 730 patients
 - 298 (40.8%) with BP in control at cuff visit
 - 432 (59.2%) with uncontrolled BP

BP at Home: DATA



(BP in control <140/90)

- QI dashboards (all FHC patients in 2021)
 - 4,636 (57.2%) with BP in control at most recent medical visit
- 2021 BP at Home participants with post-cuff visit
 - 298 (40.8%) with BP in control at cuff visit
 - 369 (50.1%) with BP in control at post-cuff visit
 - 182 patients moved from uncontrolled to controlled
 - 111 patients moved from controlled to uncontrolled
 - Of the 432 who had uncontrolled BP at cuff visit
 - 182 (42.1%) had BP in control at post-cuff visit
 - 267 (61.8%) improved both SBP and DBP at post-cuff visit

BP at Home+ DATA: July 2019 to June 2020

284 Encounters

- 98 participants
- 64 new patients
- 74 returning patients

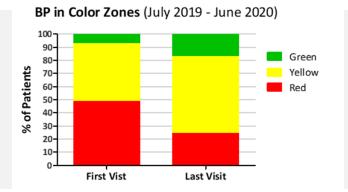
Participation Demographics (n = 98, first visit)

Age	(year)	Gene	der (#, %)	Race	(#, %)	Poverty Le	vel (#, %)
Mean	57	Female	63 (64.3%)	Black	79 (80.6%)	Mean	84.3
Median	58	Male	35 (35.7%)	White	17 (17.3%)	Range	0-422
Range	33-85			Unreported	2 (2.0%)	≤ 150% of FPL	83 (84.7%)
Age subg	roups (#, %)	Langu	ıage (#, %)	Ethnicit	t y (#, %)	≤ 100% of FPL	67 (68.4%)
< 45 yrs.	14 (14.3%)	English	94 (95.9%)	Hispanic	4 (4.1%)	≤ 50% of FPL	38 (38.8%)
45-65 yrs.	61 (62.2%)	Spanish	3 (3.1%)	No Hispanic	93 (94.9%)		
> 65 yrs.	23 (23.5%)	Arabic	1 (1.0%)	Unreported	1 (1.0%)		

Risk Factors	Patier	nts (#, %)
Hypertension	98	100%
Diabetes	27	27.6%
Hyperlipidemia	59	60.2%
Atrial Fibrillation	3	3.1%
Myocardial Infarction	7	7.1%
Stroke	6	6.1%
Obesity	45	45.9%
Use Tobacco	34	34.7%
Depression	21	21.4%
Congestive Heart Failure	8	8.2%
Chronic Kidney	7	7.1%

(reported as mean ± SE)	First Visit	Last Visit	Change	p-value A
Diastolic BP (mmHg)	83.2 ± 1.2	79.4 ± 1.1	-3.8	0.003**
Systolic BP (mmHg)	137.7 ± 1.8	129.8 ± 1.4	-7.9	<0.001***
BMI (kg/m²)	34.5 ± 1.3	34.0 ± 1.2	-0.5	0.778
Weight (lbs. Oz)	201.5 ± 8.0	200.6 ± 7.3	-0.9	0.941

^A P-value: Paired t test



BP Color Zone	First Visit	Last Visit
Green	5 (7.1%)	12 (17.1%)
Yellow	31 (44.3%)	41 (58.6%)
Red	34 (48.6%)	17 (24.3%)

Chi-squar test for trend

p-value = 0.002**