

## Hypertension Control Implementation strategies for Primary & Specialty Care settings

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## Who we are

- Not-for-profit
- 592 inpatient beds
- 10,000 member team
- 2100 Health Care Providers
- Provide care for 10% of the US
  - Community Clinics
    - 130,000 unique patients
    - 370,000 visits annually
    - 600 staff
    - 95 providers
    - 10 free standing health centers in 5 counties



ΤΟΡΪΤΕΝ

FOUR YEARS IN A ROW.



### 1 in 3 Americans have hypertension

### \$47.5 billion in direct healthcare services, \$3.5 billion in lost productivity

### 50% of HTN patient not at goal nationally



### Are you aware of the AMGA's Measure Up Pressure Down Campaign?





### Is your organization participating in the AMGA's Measure Up Pressure Down Campaign?



### The chronic care challenge

Measure Up Pressure Down Campaign (MUPD)

AMGA with support from AMGF declared a challenge to have 80% of patients in blood pressure control by the year 2016.

## **Campaign Planks**

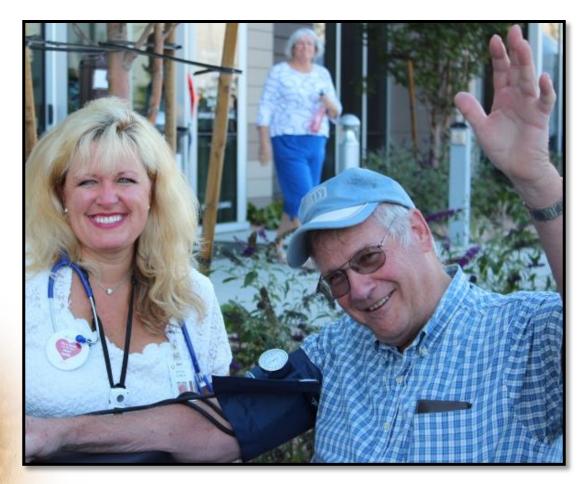


## **Plank's** 1 & 7

- 1: Direct Care staff trained in accurate BP measurement.
  - Standardize blood pressure measurement by clinical staff
- 7: All team members trained in importance of BP goals and metrics
  - Standard goal levels and interventions for patients not at goal

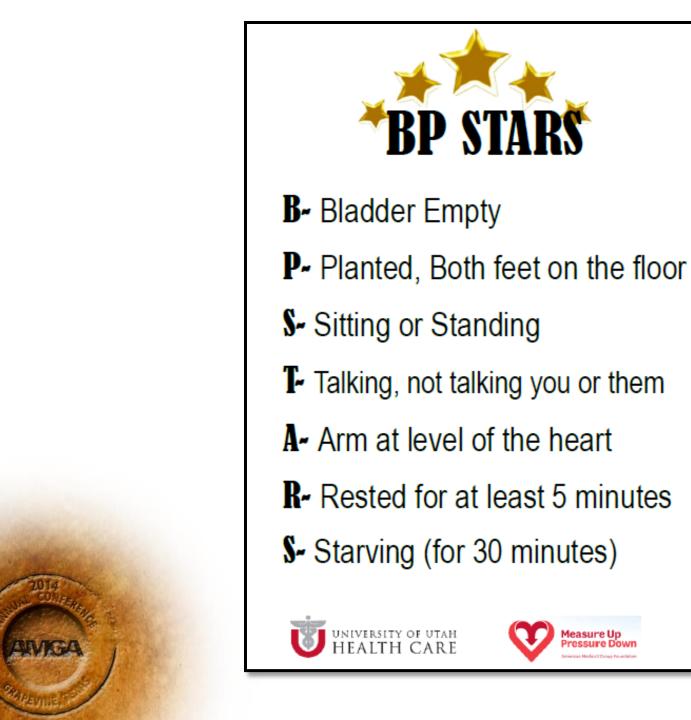
- Identified best practice and processes
- Developed training program with Clinical Staff Education and Ambulatory Clinical Leadership
  - Staff engagement campaign
  - Resource development for staff
  - Patient education materials

## 3 P's for Great BP's Proper Patient Positioning



## **BP** Variability

- Cuff too small= 10 to 40 mmHg
- Cuff too large= 10 to 40 mmHg
- Cuff over clothing=↓↑ 10 to 40 mmHg
- Back unsupported=1 5 to 15 mmHg
- Legs crossed= 1 5 to 8 mmHg
- Not rested= 10 to 20 mmHg
- Patient talking= 10 to 15 mmHg
- Full bladder= 10 to 15 mmHg
- Arm below heart level=1
- Arm above heart level= I



#### **Blood Pressure Targets**

- In general a BP of <139/89mmHg is acceptable
- •SBP >140 or DBP >90 Notify provider
- •SBP >180 or DBP >110 Notify Provider
- •SBP <90 Notify Provider

🔍 HEALTH CARE

#### If >140-179 SBP or > 90-109 DBP .phrase in AVS •Your blood pressure was \_\_\_\_\_\_at today's visit. I

•Your blood pressure was \_\_\_\_\_\_at today's visit. It is recommended that you make an appointment with you primary care provider for follow up. (\*\*\*Order consult FP, IM or IM/Peds, queue will go to referral pool) If SBP 180-209 or DBP 110-119

 $\bullet$  Patient should be evaluated by their PCP if available or other available provider. If SBP >210 or >120

•Provider should call PCP and discuss evaluation and treatment plan.

	Age	Pulse	Blood Pressure	Respiratory Rate		
	0-12 months	110-180	9055	30-50		
	12-24 month	90-150	90/60	22-30		
	2-3 Years	90-150	95/60	22-30		
	4-5 years	65-135	99/65	20-24		
	6-8 Years	60-130	100/56	18-24		
	9 years	60-110	105/56	18-24		
	10-12 years	70-110	110/58	16-22		
	12-17 years	70-100	106-118/62-67	16-22		

Pediatrics

Care

Primary

Specialty



🖉 Vitals
Close this section to view other vitals documented in this encounter.
Taken on: 10/7/2013 📰 1446
BP: Pain Information
Pulse: Comment Entry
Resp: Comment:
Temp:
Source: <u>A</u> ccept <u>C</u> ancel
OB/Gyn Status LMP: III Having periods?

ALVIGA SHIDEMARE

### Providing you with the best care...

At University of Utah Health Care our goal is to provide you with the best care. To ensure that we obtain the most accurate blood pressure during today's visit we may be asking you to:



#### Remove jackets or long sleeves.

Taking your blood pressure over clothing can increase or decrease the measurement by 10-40 points. Bare skin allows the blood pressure cuff to more accurately read the pressure.



#### Empty your bladder.

A full bladder can increase your blood pressure measurement by up to 10 points.



#### Refrain from talking during your blood pressure testing.

The most accurate measurement is obtained when your body is naturally at rest.

#### Rest comfortably with feet flat on the floor prior to your testing.

Allowing you to rest before taking your blood pressure decreases anxiety, stress or fear which can lead to higher blood pressure levels.

#### Avoid caffeine or a big meal prior to blood pressure testing when possible.

When you are digesting a big meal or have caffeine it increases your body's metabolism and can increase your blood pressure and make the reading less accurate.



## Staff engagement campaign



we are commined to broking the new care howing tot ont battents:

We have pledged that as participants in the Measure Up Pressure Down Campaign that we will:

Always use the "3P's for Great BP's"

Be committed to obtaining accurate blood pressure measurements to ensure best treatment for our patients Become BP STARS for ourselves and our patients! **BP** Measurement Observation Checklist

Please use the listed criteria for peer observation of BP monitoring. No more than 5 observations per person per day. Turn in to your nurse manager/supervisor for tracking.

- Correct cuff size used
- Bladder emptied
- Both feet flat on the floor
- □ Sitting supported in a chair or exam table
- Not talking
- Arm at the level of the heart
- Rested for at least 5 minutes
- Starving (No food or caffeine for 30 minutes prior)
- Palpate the brachial artery
- Place cuff on arm, unobstructed (not over clothes)
- Document BP w/ patient position & arm used

Staff member observed: \_\_\_\_\_

Observer signature: \_\_\_\_\_

Date: \_\_\_\_\_



Thank you so very much for your dedication and work in implementing the blood pressure measurement standards as part of our commitment to providing quality care for our patients.

As you know the Community Clinics have joined the AMGA's national Measure Up Pressure Down campaign as a way to decrease high blood pressure in patients across the nation.

Your personal devotion to this effort has made an impact on the lives of our patients and has helped improve their outcomes. This is the reason we care for patients, to make them better with the work we do every day.

You are a true professional and it is a privilege to know that our patients are so well cared for.

Please accept this token as a reminder that you are not only an asset to our clinic but a true star as well!

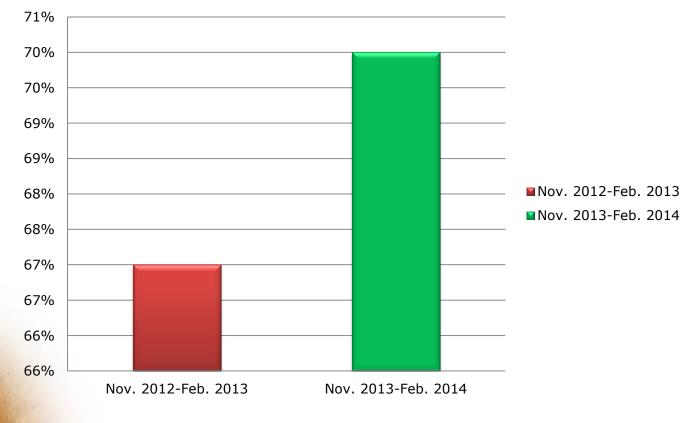
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Susan Terry, MD Executive Medical Director

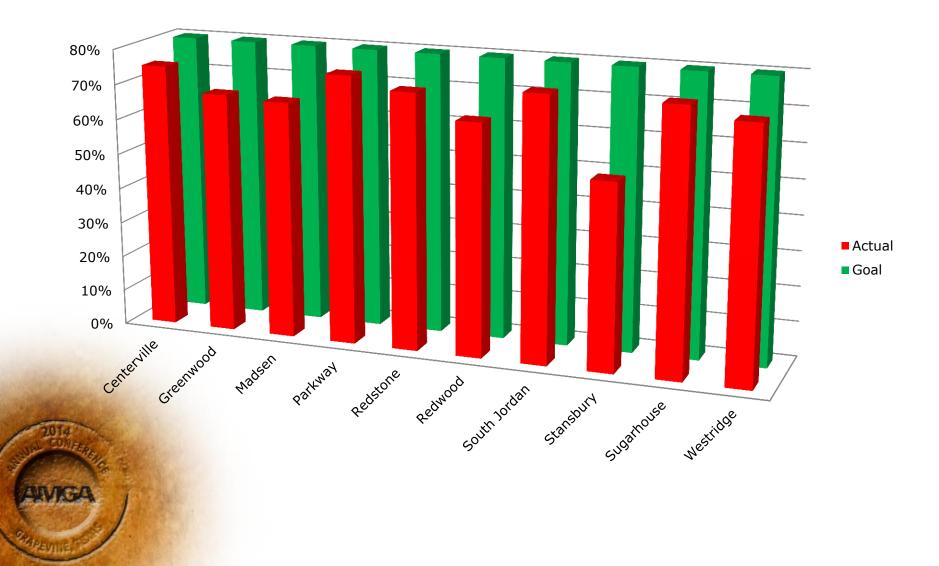
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## Did it work?

Pre & post training



## **Center Comparison**



## Plank 5

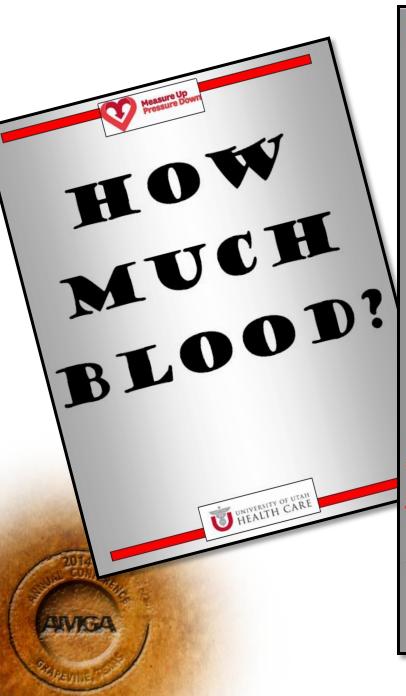
Prevention, engagement and self-management program in place

- Living well with chronic conditions
- Community health fairs and events





## **Blood volume display**





#### How much blood do you have?

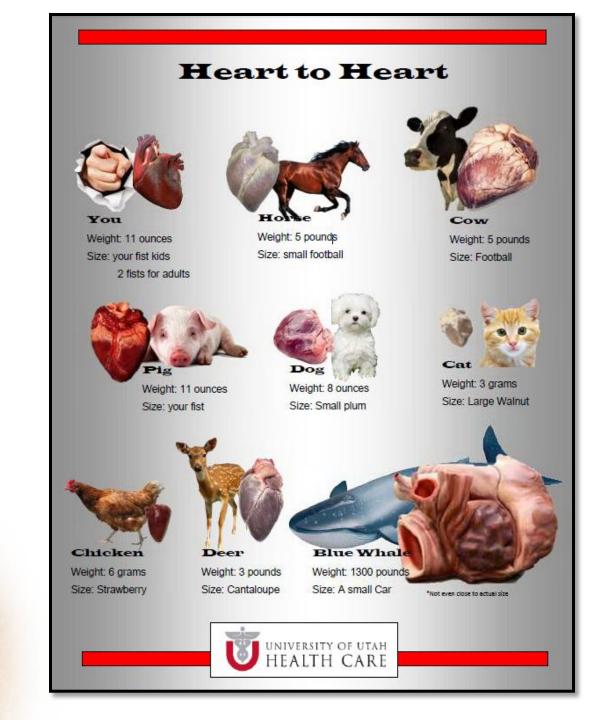
Body Weight (lb)	Blood Volume (mL)*		
0-10	200		
11-20	300		
21-30	500		
31-40	1000		
41-51	1640		
52-63	2140		
64-74	2600		
75-85	3080		
86-97	3550		
98-109	4030		
>110	4500		

\*Averages

Pregnant women have **50%** more blood than non-pregnant women.

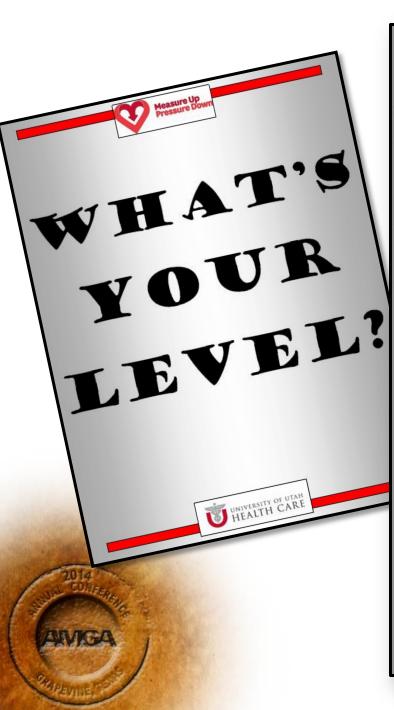
People at higher elevations have **20%** more blood than people at sea level.













#### **B**lood **P**ressure Goals\*

Blood Pressure Category	Systolic (mmHg)		Diastolic (mmHg)	
Normal	< 120	&	< 80	
Prehypertension	120-139	or	80-89	
High	£			
Stage 1	140-159	or	90-99	
Stage 2	> 160	or	> 100	

American Heart Association

Diabetic? BP Goal is < 130/80 mmHg.

#### How to control your blood pressure:

- 🎍 Reduce stress. 😃
- 🖕 Maintain a healthy weight. 🧷



- Do physical activity for 30 minutes a day.
- ⇒ Eat well.



- Choose foods that are low in salt.
- ⇒ Reduce alcohol intake.
- Take blood pressure medicine as prescribed to you.



## Plank 8

All specialty departments routinely take blood pressures on all patients and refer patients who are not at goal to PCP.



# If >140-179 SBP or > 90-109 DBP (.phrase in AVS)

"Your blood pressure was \_\_\_\_\_ at today's visit. It is recommended that you make an appointment with you primary care provider for follow up." (\*\*\*Order consult FP, queue will go to referral coordinators)

### If SBP 180-209 or DBP 110-119

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### If SBP >210 or >120

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## **Questions**?



## UNIVERSITY OF UTAH HEALTH CARE

## **Contact Information**

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### References

Measure up pressure down Provider toolkit to improve hypertension control. American medical group foundation.

JNC 7 report. Prevention, detection and evaluation of blood pressure. US departments of health and human services. December 2003.

