

Knowledge and Compassion Focused on You

Measure Up / Pressure Down: Improving Blood Pressure Control in Washington, DC

AMGA Webinar – July 17, 2014

About me

- General internist in Washington, DC
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Disclosures

Member – ePocrates Clinical Advisory Board

I do <u>not</u> have any financial relationships with commercial interests related to the content of this presentation

Disclaimer

While the content of this presentation is consistent with positions expressed by the American College of Physicians, the Engelberg Center for Healthcare Reform of the Brookings Institution, the Center for American Progress, and MedStar Health – any conclusions, policy positions or recommended actions are mine, and are not necessarily those of the organizations listed above



MedStar Health: Largest Not-For-Profit Health System in the MD-DC Region

- Components
 - 1 research institute
 - 10 hospitals
 - 150 ambulatory sites
- □ Staff
 - 5,600 physicians
 - 1,500 employed
 - 30,000 associates
 - 7,000 nurses
 - 1,100 physicians in residency programs

MedStar Health in 2012

- 160,000 admissions
- 200,000 home health visits
- 580,000 ED visits
- ~1.5 million outpatient visits
 - ~0.5 million to primary care providers



MedStar Health's Primary Care Network

- ☐ In 2012: ~160,000 unique patients
- 42 adult primary care locations
- 162 adult primary care providers
 - All using common guidelines for preventive and chronic care screening and management
- □ ~54,000 (34%) with hypertension
 - □~65-68% at goal (per NQF0018)

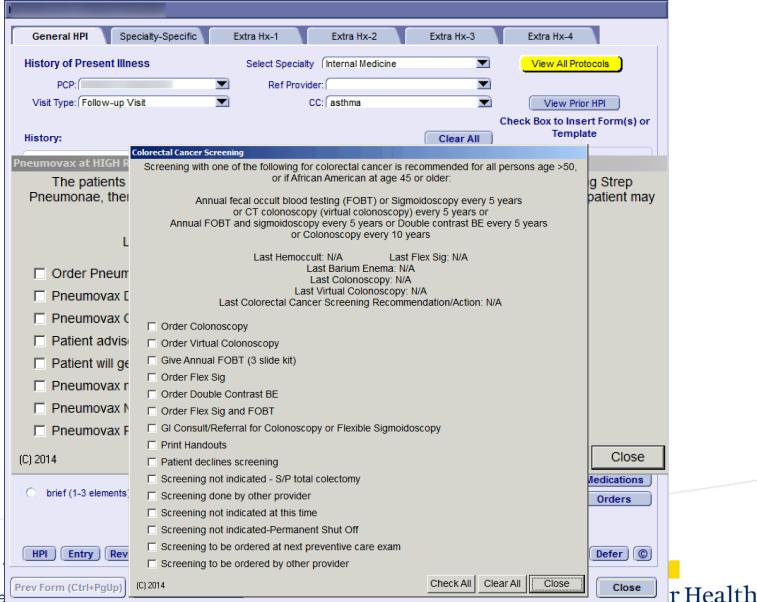


EHR Implementation at MedStar Health

- Started in 1997
 - Slow diffusion into PCP practices and others that opted-in
- Started enterprise implementation in 2008
- Implementation included decision alerts for existing MedStar endorsed guidelines / best practices
- Alert structure
 - Targeted to specialty / role
 - "Politely active" HUD>Global>Actionable
 - Alerts for what is missing / out-of-date / not at goal
 - Actionable alerts contain rule, information, single-click actions for documentation, orders, etc.



Example of Alert Structure



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Knowledge

Provider Attitudes Towards EHRs and Meaningful Use





In 2012 MedStar Health Became the First Health System to Partner with Million Hearts ®

- Aspirin consistently recommended for those where benefits outweigh risks
- Blood pressure screening and treatment to goal
- Cholesterol screening and treatment to goal
- Smoking: Determine status for current smokers, aggressively counsel/treat towards quitting





Million Hearts®

- "Prevent 1M heart attacks and strokes over 5 years"
 - There is no more appealing message
- "Know Your ABCs"
 - Simple and understandable approach
- Perfection isn't required to make a huge difference
 - Improve performance on known measures
- Cardiovascular risk interventions
 - Already endorsed by our health system



Million Hearts® Premise Improving Performance Makes a Difference

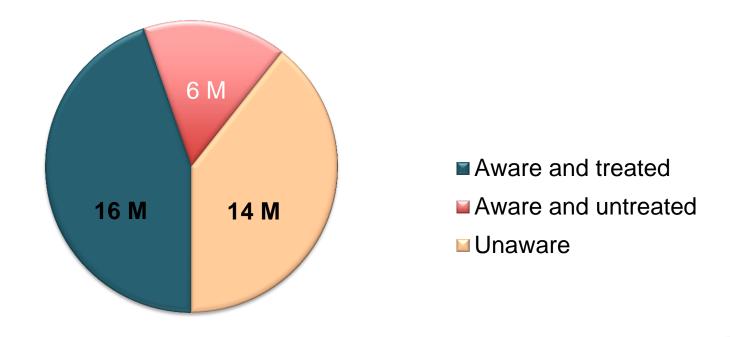
Intervention	Baseline – 2012	Goal – 2017
Aspirin for those at high risk	47%	70%
B lood Pressure – screening and control	46%	70%
Cholesterol – screening and control	33%	70%
S moking Cessation	21%	70%

- Of the ~2M heart attacks and strokes occur each year, achieving the 2017 goals would reduce the number of new heart attacks / strokes by 10% per year
- Over 5 years prevent 1M new heart attacks / strokes



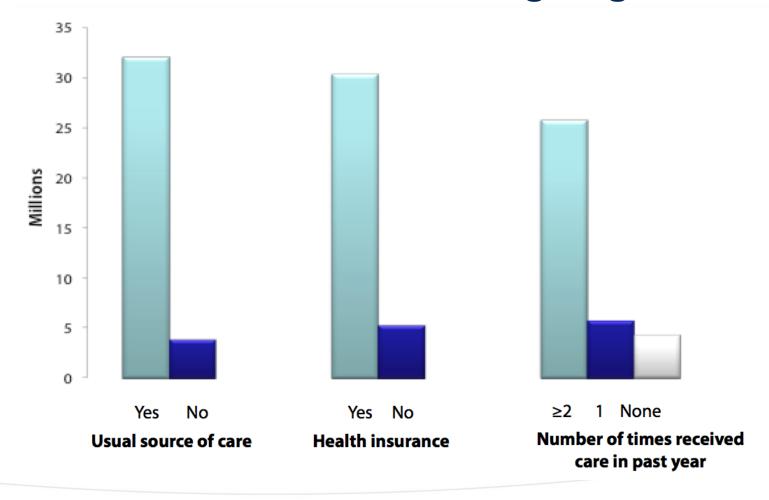
Most People with Uncontrolled Hypertension Were Aware of their Condition

Awareness and treatment among adults with uncontrolled hypertension (millions)





Most People with Uncontrolled Hypertension Are Insured and Are Receiving Regular Care



CDC. MMR. 2012;61(35):703-9



MedStar Health Baseline: Screening and Goal Setting

Our Endorsed Guidelines	Performance
USPSTF blood pressure screening protocol ➤ Blood pressure taken at least once every 2 years	Exceeded guidelines Blood pressure measured for most adult patients at every visit
Individualized blood pressure goals per JNC-7 / 8	No blood pressure goals in EHR ➤ Providers not aware ➤ Patients not aware ➤ Absence of default or individualized blood pressure goal = lack of awareness and focus



Making the EHR a Virtual Member of the Care Team

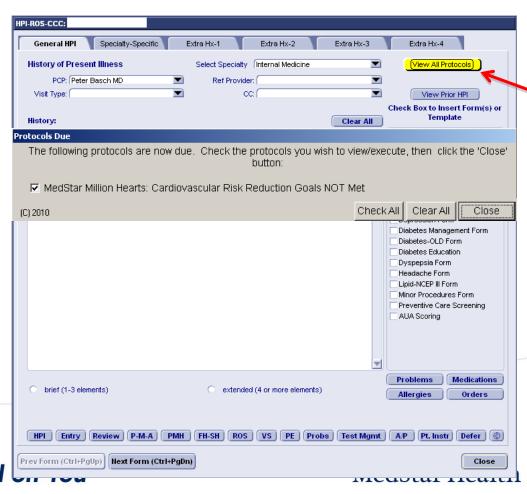
Automate BP Goal Setting and Increase Awareness of Provider and Patient when Blood Pressure Is not at Goal

- ☐ Embed screening guidelines and endorsed blood pressure goals into EHR as actionable and patient-specific guidance
 - Prompting providersONLY when necessary
 - If blood pressure not measured
 - Automate goal setting
 - ALWAYS when blood pressure is not at goal
 - Engage providers / patients in decision making
 - Enable easier action / documentation when blood pressure is not at goal
- □ ALWAYS make patients aware of their blood pressure goal and whether or not they are at goal

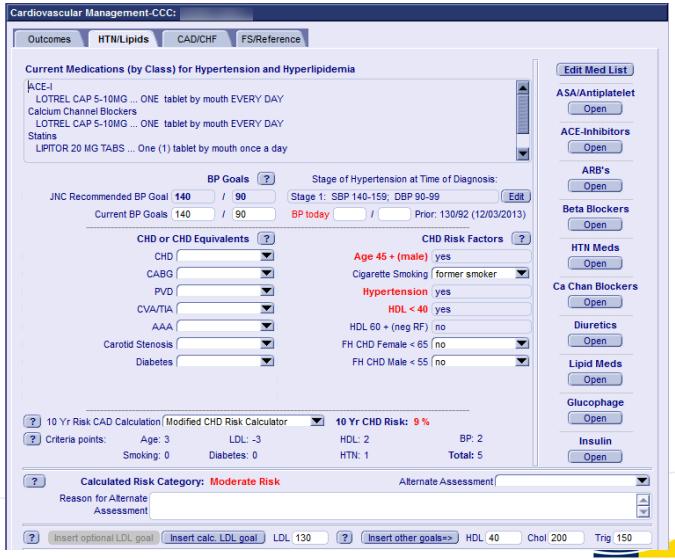


Our Approach to Avoid "Alert Fatigue" – Embedded Protocols Targeted to PCP Providers – ONLY Prompts When Necessary Information is Missing, Out of Date, or When a Goal is Unmet

This approach used for all protocols — but for Million Hearts® we lead with a "global" prompt, and we precheck it — such that it auto-cascades if goals are unmet



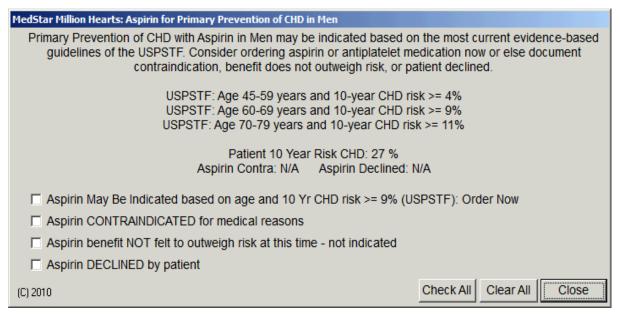
What Nobody Sees: In the Background "Smart" Form with Embedded Algorithms



Our Approach to Make Doing the Right Thing Easier AND Reduce Documentation

Burden

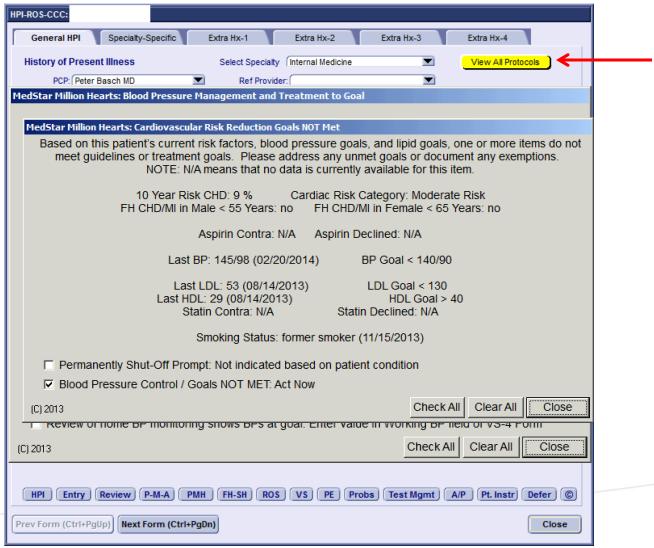
- 'ABCs' prompts show protocol AND relevant prior information in the EHR
- The prompts also contain



most all reasonable actions – adding / changing meds, creating referrals, etc. Checkbox choices also create documentation in the note AND structured data for future analysis and reporting.



What Our Primary Care Providers See



What Patients See



You have the power.

When it comes to your health, there's no one more powerful than you.

Join MedStar Health, the largest healthcare provider in Maryland and the Washington, D.C., region, as we partner with Million Hearts", a nationwide campaign to prevent one million heart attacks and strokes in five years.

You pledge to take control of your heart health, and we pledge to educate and motivate you by providing the latest information on heart disease prevention and care–for **FREE**. We will also offer low-cost screenings to help keep your blood pressure and cholesterol levels under control.

Visit medstarhealth.org/millionhearts to join the fight.

Washington Primary Care Physicians

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Patient Information - MedStar Million Hearts

For:





MedStar Million Hearts™ - What You Can Do to Reduce Your Risk of Heart Attack and Stroke

Heart disease and stroke are unfortunately all too common in the United States, with over a 1.5 million people suffering a heart attack or stroke each year. It is widely believed that more consistent attention to 4 items, known as the "ABCs" can reduce the number of new heart attacks and strokes by 1 million over 5 years. Here is your personal "ABCs" report.

ABCs Report – prepared for

on September 30, 2012

Aspirin may reduce the risk of heart attack and stroke. If your provider has recommended you take Aspirin, please take the Aspirin as directed (see your current medication list for the exact dose and directions). Please let your provider know if you develop any abnormal bleeding or stomach pain, or if you think you are having side effects to aspirin.

Blood Pressure

Having a normal blood pressure may reduce your risk of heart attack and stroke. Your most recent blood pressure was 122/78 on 09/30/2012. Your blood pressure goal is LESS than 140/90. Your blood pressure is where it should be. To keep it that way, please continue a healthy diet, regular exercise, and if on medication, medication as directed.

Cholesterol

Having normal cholesterols may reduce your risk of heart attack and stroke. Your most recent HDL or good cholesterol was 60 on 09/30/2012, and your most recent LDL or bad cholesterol was 80 on 09/30/2012. Your cholesterol goals are: HDL (good cholesterol) GREATER than 40 and LDL (bad cholesterol) LESS than 160. Your cholesterol is where it should be.

Smoking

Not smoking is one of the most important ways to reduce your risk of heart attack and stroke, as well as reduce your risk for many other conditions, such as cancer. Our records show your smoking status as: never smoker on 09/30/2012. Thank you for not smoking.



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MedStar Million Hearts – Year 1 All 2017 Targets Exceeded!

Intervention	National Baseline 2012	National Goal 2017	MedStar Health December 2013
Aspirin for those at high risk	47%	70%	86%
B lood Pressure – screening and control	46%	70%	71%
Cholesterol – screening and control	33%	70%	77%
S moking Cessation	21%	70%	87%







July 17, 2014

Expectations Have Increased / Performance May Be Slipping



- With new reporting tool @ at control per NQF 0018 = 67%
- We have not yet modified reports to accommodate JNC 8



Challenges to Improving Performance

Relatively Easy

- Goal setting
- Consistent presentation to provider / patient of BP not at goal
- Achieving consensus on new blood pressure guidelines
- Retooling our EHR algorithms, forms and rules engine to JNC 8
- Patient engagement
- PCP engagement

It's Complicated

- Getting accurate reports
- Avoiding "whatever" even when reports are accurate
 - Which BP should count?
 - Whose BP should count?
 - Should <u>any</u> single BP count (even our own)?
 - Which patients are attributed to me?
 - NQF 0018
 - Based on JNC 7
 - Last BP of the measure period

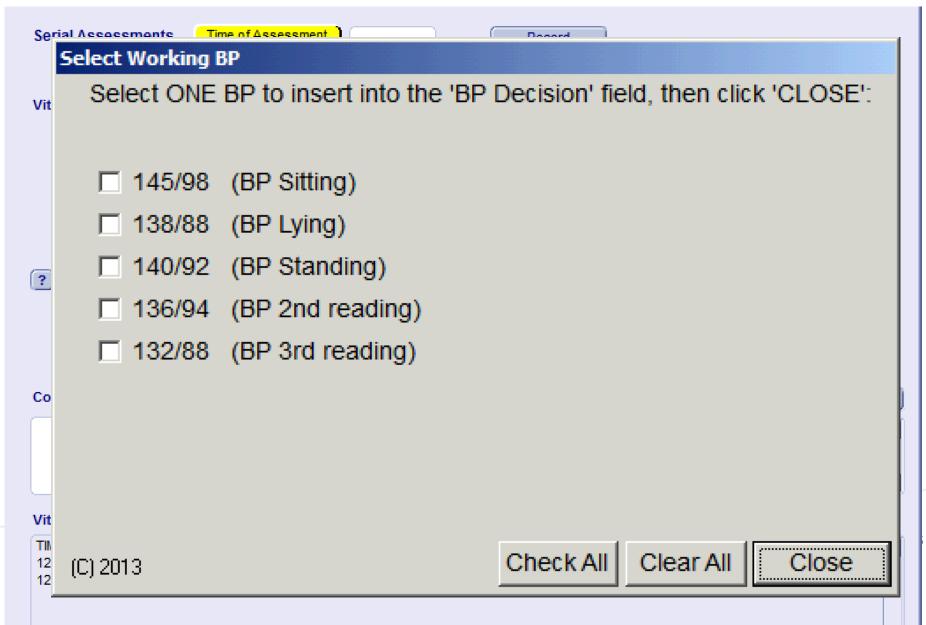


Reporting

- Attribution to provider 1 visit during the measure period
- BP done during measure period
- BP goal set ANYTIME
- BP can be recorded in any of ~ 10 fields
- Last recorded BP by anyone counts



Which BP should count?



Whose BP Should Count?

Putting aside decisions about attention to one's own readings and appropriate management...in a multi-specialty environment...

- Patients with last BP elevated
 - Provider less likely to have repeated BP where first
 BP done by MA was NOT at goal
 - Provider less likely to have selected a Decision Point BP where multiple BPs entered
 - BPs done by providers or staff (outside of PCP, renal, cardiology setting) more likely to be ignored if not at goal, not repeat, not flagged to patient or PCP



Do We Dismiss Single BP Readings (Even Our Own)?



1st reading elevated – was going to take it again – never got around to it

- Patient forget meds, having a bad day, was rushing, in pain, etc.
- Remember diabetes management before A1C became generally available?

MedStar Health

Taking Action on Other's Patients

- Unpublished research PCPs read / respond to preventive / chronic care alerts more – when the is identified as "my patient"
- Still as sense of surprise / lack of fairness when docs are held responsible for long-term care for patients seen once / under the care of others

NQF 0018

- Singular goal (<140/<90) not in keeping with current guidelines
- Where we know that
 - Blood pressure is intrinsically labile...
 - We require multiple readings to establish a diagnosis of hypertension...
 - Blood pressure control is affected by many temporal variables (pain, anxiety, lack of a dose of medicine, etc.)...
 - Except where automated cuffs used by appropriately trained people, BP readings are highly variable...
 - Does it make sense to have a single reading (last one of the measure period) determine control status for the year?



Moving Beyond "It's Complicated"

- At best, EHRs and reports are excellent vehicles for displaying information, trends, at-goal status
 - More often doing an inadequate job due to technology immaturity, competing development requirements, etc.
- EHRs and reports can serve as infrastructure for improving consistency in diagnosis of HBP, and moving patients with HBP closer to 100% at goal
- As with most QI projects using health IT the above will not happen with addressing the complexities discussed on the previous slides



Questions??? peter.basch@medstar.net