



### Workshop Agenda

- 1. What Is Human-Centered Design and Why Co-Design with Patients?
- 2. Co-Design in Action: Health Quality Partners' SMBP Pilot
- 3. Q&A
- 4. Co-Design Activity: Journey Mapping
- 5. Reflection & Resources

### **Learning Objectives**



Learn what humancentered design is.



Hear an example of how co-design has been used for a SMBP pilot.



Learn how to use humancentered design to engage patients.



Understand the basic steps to co-designing and examples of how to begin co-designing with patients.



Experience one design activity that can be used in a future co-design session.



Take away practical resources and techniques to use immediately!

### **Before We Begin...**





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# What Is Human-Centered Design and Why Co-Design with Patients?



### How we've traditionally worked (more or less)





### How we've traditionally worked (more or less)





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### How we've traditionally worked (more or less)





# In HCD, we spend more time exploring the problem...





"I learned that human-centered innovation is more than a tool or 'solution', it is a way of thinking about and approaching a problem, a way of framing solutions... then trying them to learn with real end-users in their real environment."

- CCI Program Participant

### What HCD looks like





### Why Co-Design with Patients?

## Build stronger relationships with patients.

- Transform care in a way that **truly** matters to patients.
- Build a **deeper relationship and trust** with patients.
- Patients appreciate sharing their stories and ideas.

#### Better problem solving.

- Reduces risk and waste of resources.
- Help prioritize what problems to address
- Challenge what you "know" and assume to be true
- Encourages radical thinking and creativity.

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Anyone can do this... be creative. listen. have humility.

- You don't need to be an expert to do this work!
- Be curious, ask questions & learn.
- Start small with the resources you have.
- Be visual and make things tangible.
- Show your work to peers early and often. Be open to feedback.
- Consider how relatable you are.







**Understand the Problem** 

Generate Ideas

lterate on Idea

Test Ideas

Examples include:

- Interview patients and health center staff to learn about their experience
- Shadow patients during their clinic visit
- Home visit to better understand the patient's at-home environment
- Review data from patient surveys, patient advisory councils and patient portals



1

**Understand the Problem** 

**Generate Ideas** 

**Iterate on Ideas** 

**Test Ideas** 

2

Examples include:

- Recruit a diverse group of patients to participate with living and/or lived experience of health concern
- Host a co-design session with patients to brainstorm and prioritize ideas

**Understand the Problem** 

Generate Ideas

**Iterate on Ideas** 

**Test Ideas** 

Examples include:

- Have patients engage with & experience the idea(s)
- Gather feedback on the idea(s): what went well and what could be better?

3

**Understand the Problem** 

Generate Ideas

Test Ideas

#### Iterate on Ideas

Examples include:

• Go back to designing the solution idea so that it addresses patients' feedback

 Share updates with the patients you engaged during Step 1 & 2 to let them know they were a vital part of making this happen!

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**Engaging Patients in Developing a Self-Measured Blood Pressure Monitoring Program using Co-Design** June 10, 2019

Jennifer Covin, MPH, Director of Programs





Overview of Health Center Partners of Southern California

Our Pathway to a Self-Measured Blood Pressure (SMBP) Monitoring Pilot Program

 $\mathbf{3}$  Utilization of Co-Design

Application of Co-Design to develop a SMBP monitoring program

5 Questions



### A Family of Companies....

The mission is righteous. The work imperative. The impact profound.







- Consortium of 17 primary care organizations
- Voice & advocate for its members
- Training & technical assistance
- Serving the health needs of
   communities in southern California
   (San Diego, Riverside & Imperial
   Counties)



**OUR MEMBERS**...

806,158 Unduplicated Patients\*

**3.25M** Unduplicated Patient Visits

**135** Sites Of Care In 5 Counties

Imperial Beach Health Center

Samahan HEALTH CENTER



SAN DIEGO FAMILY CARE A California Non-Profit Corpor







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NEIGHBORHOOD HEALTHCARE

a california healtht center

we're here for you. a california health.center



LA MAESTRA COMMUNITY HEALTH CENTERS





SAN YSIDRO HEALTH





1 in 6 San Diegans Receive their Care at a Community Health Center

#ValueCHCs



# Rationale for a SMBP Program:

The US Preventive Services Task Force, in its October 2015 Recommendation Statement on Screening for High Blood Pressure in Adults, recommends obtaining blood pressure measurements outside of the clinical setting for diagnostic confirmation before starting treatment.

Increasing scientific evidence shows that self-measured blood pressure monitoring (SMBP), coupled with clinical support, supports people in managing their hypertension.

SMBP is also a useful tool to rule out white coat hypertension, masked hypertension, and as a self-management tool to enhance medication adherence.



### Our Pathway to a SMBP Pilot Program



#### ALL HEART program (2011 to 2017)

- Funded by Kaiser Permanente Southern California Region Community Benefit
- Aimed to reduce heart attacks and strokes through the identification and treatment of diabetes and hypertension using evidence based guidelines among the safety net population in community health centers (CHC) in Southern CA
- Kaiser Permanente's ALL initiative (<u>A</u>spirin, <u>L</u>isinopril and <u>L</u>ipid-lowering medication) was implemented to reduce heart attacks and strokes
- Targeted patients: those with heart disease or were 55+ years old with diabetes, in a therapeutic program that included the use of these three medications
- ✤ In the 2016-2017 year funding cycle, HQP expanded our focus to include patients age 18+ with hypertension.
- ✤ Sample Outcomes from CCHE's evaluation from 2015 2017:
  - Reached almost 50K patients with hypertension (11 health center organizations, 47 sites, in five counties)
  - Blood pressure control rates increased, with 6 showing statistically significant improvements (program goal = 70%)
  - Diabetes outcomes were sustained through the shift to hypertension
  - Health centers improved in all key capacity domains (QI, team based care, proactive care; and medication adherence)
  - Sustainable impact on health center systems



### Our Pathway to a SMBP Pilot Program

#### **Participation in the Hiding in Plain Sight (HIPS) Project** (2014 – 2016)

- Collaborated with the National Association of Community Health Centers (NACHC) on their Million Hearts initiative
- NACHC recruited 11 federally qualified health centers nationwide to participate in a two-year cooperative agreement, including two Health Center Partner member health centers, La Maestra Community Health Centers and Neighborhood Healthcare.
- Issue: many safety-net patients with hypertension are not formally diagnosed and may remain untreated and at increased risk for cardiovascular events
- Strategy:
  - Piloted the quality improvement strategy and tools to improve the detection and control of high blood pressure in community health centers that serve populations disproportionately burdened by hypertension.
  - Included an algorithim criteria to identify patients who might have undiagnosed hypertension
- Sample Results:
  - Diagnosed hypertension prevalence increased significantly
  - There were no specific goals around blood pressure control increasing, but it did!
- Reference / Outcomes: The Joint Commission Journal on Quality and Patient Safety 2018; 44:117-129 <u>https://www.sciencedirect.com/science/article/pii/S1553725017302039?via%3Dihub</u>



### HQP's Utilization of Co-Design to date:

Initial application of co-design through a Center for Care Innovations project:

- CCI Reimagined Care Challenge \*
- Overview/application of co-design provided at a CCI convening and via follow-up coaching calls; never used previously
- Co-design sessions with PCP providers and patients with diagnosed hypertension
- Case Study (CCHE and CCI) of HQP's co-design process and development of a SMBP pilot: https://www.careinnovations.org/wp-content/uploads/2017/10/RIC\_case\_study\_HQP.pdf

Second application through a Blue Shield of California Foundation project:

- Advancing Value-Based Care Through Patient Engagement
- How can we better engage with patients in their care? \*
- Co-design sessions with patients from partnering community health centers \*
- Organizational assessments with health center staff
- Patient Surveys



Third application through a current US DHHS, Office on Women's Health project

- Chronic Pain Management in Female Community Health Center (CHC) Patients
- How should we design and implement a pain management program for female patients (50+) with \* chronic pain that receive their care at a community health center?
- Co-design sessions with: (1) PCP and BH providers; and (2) patients with chronic pain

### Our Engagement Process





### **Overview of SMBP Pilot Program**

Goal and Process			
<ul> <li>Use of a patient engagement technique (co- design) to develop a self-measured blood pressure monitoring (SMBP) program for patients in community health centers</li> </ul>	Materials		
	<ul> <li>Development of:</li> <li>Patient education materials for SMBP</li> <li>Care team materials for implementing a SMBP program</li> </ul>	Implementation	
		<ul> <li>Development and implementation of a pilot program for patients in community health centers</li> </ul>	Feedback, Limitations and Next Steps

### **Overview of Co-Design Sessions**

Methods / Activities	Co-Design Sessions with CHC Care Coordination Teams	Co-Design Sessions with CHC Patients	
Target Participants	2 CHCs with a large number of HTN patients and prior experience with management approaches	CHC patients with hypertension	
Selection of Co-Design Partners	<ul> <li>Champion Physicians</li> <li>Panel Manager</li> <li>QM &amp; Population Health Directors</li> <li>Care Team members (MAs, Site Coordinator, Health Educators)</li> </ul>	<ul> <li>CHCs ran reports to select patients based on HTN &amp; past visit criteria.</li> <li>Site Coordinator or HE contacted patients by phone using a HQP / CCI recruitment guide.</li> <li>gift card provided (\$15).</li> </ul>	
Content	<ul> <li>Initial Sessions:</li> <li>patient centered design approach</li> <li>experience with HTN issues, programs</li> <li>patient feedback/issues</li> <li>infrastructure</li> </ul>	<ul> <li>Initial Sessions:</li> <li>approaches to get to know the patient as a person, what's important to them, experience with HTN management</li> </ul>	
	<ul> <li>Subsequent Sessions:</li> <li>logistics</li> <li>feedback on pilot materials</li> <li>develop protocols/procedures</li> </ul>	<ul> <li>Subsequent Sessions:</li> <li>prototyped a SMBP program</li> <li>design of / input on materials</li> <li>post pilot program</li> </ul>	

### Insights from Care Teams



Patient populations vary across each geographic site (e.g., race, ethnicity, culture, languages, compliance)



Staff had received interest in BP monitoring from patients





Providers voiced that the consequences of HTN is often not realized by patients



Providers and care teams are interested in engaging patients in SMBP



There are obstacles to overcome (e.g., patient knowledge, resources, compliance, collection and management of the BP data by the health center)



### Insights from Patients



Disclosure of multiple health issues:

- time spent at medical appointments
- interested in reducing the face time at the health center, especially for a brief appointment like a blood pressure reading



There is interest in SMBP. Some patients had taken their BP at home or went to a store to get an occasional reading, but it was inconsistent



- Consistent tracking was not evident
- Lack of resources is an issue (device, transportation, etc.)
- Ċ
- More education on hypertension is needed
- Misconception that you could stop taking medication when their BP reading was normal



Patients are aware of how to engage in managing their blood pressure through some lifestyle changes, however this is challenging for some



### Insights from Patients

💛 Based on verbal feedback during the co-design sessions, patients:

- provided written and verbal feedback on sample material content and format.
- found the patient materials helpful and did not identify any additional information om SMBP that was needed
- were motivated to do SBMP, particularly if it would reduce the number of office visits for only BP readings and/or medication renewal
- appreciated the opportunity to provide feedback and to be heard throughout the co-design process



### The Common Themes from Providers & Patients

Interest in a SMBP Program

Patient Engagement Opportunity Education is needed on hypertension & monitoring


# SMBP Pilot: Patient Recruitment Criteria



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## **Timeline**

## **HQP Blood Pressure Monitoring Pilot**

## Patient / Pilot Participant Activities



Care Team Member Activities include the above noted in black and submitting patient data (de-identified) to HQP.



then write down the numbers on your blood pressure log. Take your two blood pressure readings

once in the morning and once in the evening for the next 14 days.

Developed in pertnership with the Center for Care Innovations, with funding from Blue Shield of California Foundation.

HOP no. 7.11.17



## Self-Measured Blood Pressure Log

Name:

My Blood Pressure Goal: \_\_\_\_\_

Take your blood pressure two times a day, once in the morning and once in the evening.

Take two blood pressures each time you take your blood pressure and write them down on this log. Wait at least one minute between each time.

Write anything that might have affected your blood pressure in the comment section. (for example, are you angry; just had coffee; full bladder )

	MORNING				EVENING			
Date Time	#1	#2	Comment	Date Time	#1	#2	Comment	
10/6/1 6 10AM	130/72	125/60	Feeling good	10/6/16 8PM	155/89	136/68	Family stress	



www.careinnovations.org www.blueshieldcafoundation.org

HQP rev. 7.11.17





### Monitoring Blood Pressure Action Plan

	NOT GOOD: Hi	gh Blood Pressure (Hypertension) Stage 1
	Blood Pressure Readings	Recommended Actions:
		<ul> <li>Continue to make lifestyle changes.</li> </ul>
00	140-159	<ul> <li>If you are on a medication keep taking it every day as your doctor prescribed.</li> </ul>
NOT GOOD	90-99 • Your blood pressure is high	<ul> <li>Your blood pressure is considered under control when the upper (systolic) number is less than 140 AND the lower (diastolic) number is less than 90.</li> </ul>
	BAD: High	Blood Pressure (Hypertension) Stage 2
	Blood Pressure Readings	Recommended Actions:
		<ul> <li>Your blood pressure may be raised and one or two readings may be high.</li> </ul>
9	160 or above	<ul> <li>If your blood pressure stays 160/100 or above, make an appointment with your doctor in the next few days.</li> </ul>
8	100 or above	<ul> <li>Think of what may have caused your blood pressure to increase.</li> </ul>
	<ul> <li>Your blood pressure is very high</li> </ul>	<ul> <li>When you are angry, stressed or in pain your blood pressure increases.</li> </ul>
		<ul> <li>If you know what it was, take action to alter what has taken place and take your blood pressure an hour later.</li> </ul>
	DANGER: See	k Medical Attention (Hypertensive Crises)
	Blood Pressure Readings	Recommended Actions:
		<ul> <li>Stay calm and try some relaxation techniques.</li> </ul>
ER	180 or above	<ul> <li>Just sitting still and thinking about your breathing can help calm you down. Notify your physician within the next couple of days.</li> </ul>
DANGER	110 or above	<ul> <li>If your blood pressure is higher 180/110 and you are NOT experiencing symptoms such as chest pain, shortness of</li> </ul>
	<ul> <li>Your blood pressure is dangerously high</li> </ul>	breath, back pain, numbness/weakness, changes in vision or difficulty speaking, wait about five minutes and take it again.
		If you ARE experiencing any of those symptoms AND your reading is still at or above that level, you should CALL 9-1-1 and get help immediately.
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# Sample Existing Materials Utilized





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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health National Heart, Lung, and Blood Institu





### How Can I Quit Smokina?

Smoking harms almost every tissue and organ In the body, including your heart and blood vessels. Smoking also harms nonsmokers who are exposed to second-hand smoke

If you smoke, you have good reason to worry about its effect on your health, your loved ones and others. Deciding to guit is a big step, and following through is just as important. Quitting smoking isn't easy, but others have done it, and you can too.

No matter how much or how long you've smoked,

when you quit smoking, your risk of heart disease

and stroke starts to drop. In the year after you quit

smoking, your excess risk of coronary heart disease

drops by 50 percent. After 15 years, your risk is as

low as someone who has never smoked. While you

that quitting is the most positive thing they've ever

It's never too late to quit. You are more likely to quit

smoking for good if you prepare for two things: your

last cigarette, and the cravings, urges and feelings that

come with quitting. Think about quitting in five steps:

1. Set a Quit Date. Choose a date within the next

seven days when you will quit smoking. Tell your

may crave a cigarette after quitting, most people feel

Is it too late to quit?

done for themselves.

support your efforts.

How do I quit?

 Stop smoking all at once on your Quit Day. \* Reduce the number of cigarettes per day until you stop smoking completely

Smoke only part of your cigarette. If you use this method, you need to count how many puffs you take from each cigarette and reduce the number every two to three days

3. Decide if you need medicines or other help to quit. Talk to your healthcare provider to discuss which medicine is best for you, and to get instructions about how to use it. These may include nicotine replacements (gum,

spray, patch or inhaler) or prescription medicines such as burronion hydrochloride or varenicline. You may also ask about referral to a smoking cessation program 4. Plan for your Quit Day. Get rid of all cigaretics matches, lighters, ashtrays from your house. Find healthy substitutes for smoking. Go for walks. Carty sugarless sum or mints. Munch carrots or celery sticks

5. Stop smoking on your Quit Day.

family members and friends who are most likely to 2. Choose a method for quitting. There are several ways to quit smoking. Some include:





### **RESOURCES FOR HYPERTENSION (HIGH BLOOD PRESSURE)**

\* Included in your packet

ptomsDiagnosisMonitoringofHighBloodPressure/Home-Blood- Pressure-Monitoring_UCM_301874_Article.jsp#.WH03qDITI2M           Center for Disease Control and Prevention         https://www.cdc.gov/bloodpressure/           American Heart & American Stroke Associations         www.heart350.org           Nutrition and Lifestyle         American Heart & Health         *https://www.nhlbi.nih.gov/files/docs/public/heart/new_dash.pdf           Mutrition and Lifestyle         American Heart Association         *https://www.heart.org/HEARIORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/LEARIORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/Leart-Association           American Heart & American Stroke Associations         http://www.heart.org/HEARIORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/Leart-About-High-Blood- Pressure_UCM_002050_Article.jsp#.WH046zITI2M           Smoking and Hypertension         American Heart Association         http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdf           Hypertension Medication         American Heart Association         *http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300448.pdf           Applications for your         Google Play         Blood pressure log (android): https://play.google.com/	Торіс	Source	Resources
American Heart       public/@wcm/@hcm/documents/downloadable/ucm_300310.pdf         Association       http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/SyptomsDiagnosisMonitoring_UCM_301874_Article.jsp#.WH03qDTI2M         Center for Disease Control and Prevention       https://www.cdc.gov/bloodpressure/         American Heart & American Heart & American Stroke       www.heart360.org         Nutrition and Lifestyle       National Institute of Health       *https://www.nblbi.nih.gov/files/docs/public/heart/new_dash.pdf         American Heart & Association       http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Get theFactsAboutHighBloodPressure/Institute.pdf         American Heart & Association       http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Get theFactsAboutHighBloodPressure/Institute.pdf         American Heart & Association       http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Get theFactsAboutHighBloodPressure/Institute.pdf         Smoking and Hypertension       American Heart Association       http://www.heart.org/idc/groups/heart: public/@wcm/@hcm/documents/downloadable/ucm_300457.pdf         Hypertension       American Heart Association       http://www.heart.org/idc/groups/heart: public/@wcm/@hcm/documents/downloadable/ucm_3004457.pdf         Hypertension       American Heart Association       http://www.heart.org/idc/groups/heart: public/@wcm/@hcm/documents/downloadable/ucm_300445.pdf         Applications for your       Google Play       Blood pressure log (android): https://play.google.com/			* https://www.nhlbi.nih.gov/files/docs/public/heart/hbp_low.pdf
ptomsDiagnosisMonitoringofHighBloodPressure/Home-Blood- Pressure-Monitoring_UCM_301874_Article.jsp#.WH03qDjTI2M           Center for Disease Control and Prevention         https://www.cdc.gov/bloodpressure/           American Heart & American Stroke Associations         www.heart360.org           Nutrition and Lifestyle         American Heart Health         *https://www.nhlbi.nih.gov/files/docs/public/heart/new_dash.pdf           Mutrition and Lifestyle         American Heart Associations         http://targetbp.org/m-a-p-introduction/patient-resources/           American Heart Association         http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Ge thefactsAboutHighBloodPressure/Learts-About-High-Blood- Pressure_UCM_002050_Article.jsp#.WH046ziTi2M           American Heart & American Heart & American Heart & Http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_461840.pdf           Smoking and Hypertension         American Heart Association         *http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdf           Hypertension Medication         American Heart Association         http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300448.pdf           Applications for your         Google Play         Blood pressure log (android): https://play.google.com/			
Control and Preventionhttps://www.cdc.gov/bloodpressure/American Heart & American Stroke Associationswww.heart360.orgNutrition and LifestyleNational Institute of Health*https://www.nhlbi.nih.gov/files/docs/public/heart/new_dash.pdfMutrition and LifestyleAmerican Heart Association*https://targetbp.org/m-a-p-introduction/patient-resources/ http://targetbp.org/m-a-p-introduction/patient-resources/ http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/The-Facts-About-High-Blood- Pressure_UCM_002050_Article.jspff.WH046z[T12M]American Heart & American Stroke Associationhttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_461840.pdfSmoking and HypertensionAmerican Heart Association*http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfHypertension MedicationAmerican Heart Association*http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfHypertension MedicationAmerican Heart Associationhttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300448.pdfApplications for yourGoogle PlayBlood pressure log (android): https://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_461839.pdf			
American Stroke Associationswww.heart360.orgNutrition and LifestyleNational Institute of Health*https://www.nhlbi.nih.gov/files/docs/public/heart/new_dash.pdfAmerican Heart Associationhttp://targetbp.org/m-a-p-introduction/patient-resources/ http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/The-Facts-About-High-Blood- Pressure_UCM_002050_Article.jsp#.WH046zT12MAmerican Heart & American Heart & American Stroke Associationhttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_461840.pdfSmoking and HypertensionAmerican Heart Association*http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfHypertension MedicationAmerican Heart Associationhttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfHypertension MedicationAmerican Heart Associationhttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfApplications for yourGoogle PlayBlood pressure log (android): <a href="https://play.google.com/">https://play.google.com/</a>		Control and	https://www.cdc.gov/bloodpressure/
LifestyleHealthHealthAmerican Heart Associationhttp://targetbp.org/m-a-p-introduction/patient-resources/ http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/The-Facts-About-High-Blood- Pressure_UCM_002050_Article.isp#.WH046zTI2MAmerican Heart & American Stroke Associationshttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_461840.pdfSmoking and HypertensionAmerican Heart Association*http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfHypertension MedicationAmerican Heart Association*http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfHypertension MedicationAmerican Heart Associationhttp://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm_300457.pdfApplications for yourGoogle PlayBlood pressure log (android): <a href="http://play.google.com/">https://play.google.com/</a>		American Stroke	www.heart360.org
AssociationIntp://targetup.org/int-a-p-introduction/patent-resources/ http://www.heart.org/HEARTORG/Conditions/HighBloodPressure/Ge theFactsAboutHighBloodPressure/The-Facts-About-High-Blood- Pressure_UCM_002050_Article.jsp#.WH046ziTl2MAmerican Heart & 			*https://www.nhlbi.nih.gov/files/docs/public/heart/new_dash.pdf
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Smoking UCM 001085 SubHomePage.jsp       Hypertension     American Heart       Medication     http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm 300448.pdf       http://www.heart.org/idc/groups/heart- public/@wcm/@hcm/documents/downloadable/ucm 461839.pdf       Applications for your     Google Play       Blood pressure log (android):     http://play.google.com/			
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			Blood pressure log (android): <u>https://play.google.com/</u> Blood pressure Monitor-Family Lite (iPhone): <u>https://itunes.apple.com</u>

1/16/2017 Developed in partnership with the Center for Care Innovations, with funding from Blue Shield of California Foundation.

www.careinnovations.org www.blueshieldcafoundation.org

## Care Team Materials Developed



Provider Summary



Recruitment protocols & reports



**Orientation Session Checklist** 



Follow-up Call and Visit Checklist and questions



Blood Pressure Reading Log



Tailored EMR documentation & provider referral flow developed by individual CHC





Recruitment Encounter Checklist At Home Blood Pressure Monitoring Pilot CCI Reimagined Care Project

- Introduce yourself and the purpose for your call / visit.
- Let the patient know:

- they were selected to be in a 17 day program that is being offered now to only 20
  patients at your health center on at home blood pressure monitoring.
- there is no cost to them to be in the program.
- they will receive one blood pressure monitor for them to keep AND they can also earn a \$15 gift card by coming to a group session after the program ends.
- the program is voluntary and in no way will affect the care they get at the health center if they choose not to participate.
- If applicable, let the patient know their provider thought they would be a good person to be in the program due to their high blood pressure.
- Explain the overall purpose of the program is to:
  - 1) Help them manage their blood pressure and engage in their care by:
    - learning about how to manage high blood pressure
    - · taking their blood pressure on their own at home
    - tracking their daily readings
    - · giving the information back to the health center to help with their care

#### AND

- Help us learn from THEM about their experience taking their own blood pressure and being in the program so we can improve it and help other people with high blood pressure also.
- Explain that if they join the program, they would do the following activities:
  - attend a one-on-one orientation session
  - receive a blood pressure monitor to take home and keep
  - take their blood pressure on your own using the monitor (2 times/day for 14 days in a row)
  - record their daily readings on a piece of paper. This may be shared with their doctor/nurse to help them manage their blood pressure
  - complete one phone call with a care team member on Day 8 of the pilot to check in.
  - meet with you at the health center on Day 17. During this visit they will hand in their blood pressure reading log, answer a few final questions about their experience, and give their thoughts and opinions on the program
  - have an opportunity to be part of a group session with other people in the pilot to share
    your thoughts on what you liked and what you suggest changing. <u>Participation in this group
    session is optional</u>. If you come to the group session you will also get a \$15 gift card.

- Solicit questions the patient may have on anything you covered.
- Ask the patient if they are ready to move on to the next step (the orientation session)
- Schedule the Orientation Session at your health center (if applicable).
- Record the recruitment encounter on the on the HQP Recruitment Tracking Sheet.
- Record the visit in your health center electronic medical record/system and enter the scheduled follow-up phone call and visits on your schedule.





Self-Measured Blood Pressure Monitoring Pilot CCI Reimagined Care Project

- Introduce yourself and the purpose of the call/visit (to follow-up on your last meeting at the orientation session for the at home blood pressure monitoring pilot program).
- Obtain the blood pressure readings to date and report them on the Blood Pressure Readings Report form. Record the date you received the information, the date and time of the reading, the reading (systolic/diastolic), and any actions the patient took for abnormal readings.
- Provide any necessary feedback about abnormal readings, questions on medication, feedback on the type of action the patient took for any high readings, and/or referrals to their provider in any urgent circumstances.
- Encourage continued participation and remind the patient of the date/time of their next appointment for the pilot (if applicable).
- Solicit questions the patient may have on how to use the blood pressure monitor.
- Solicit questions the patient may have on any of the printed material in their folder.
- Ask the patient the following questions and record their answers on the Follow-up Call / Visit Form:

What have you discovered that you do or eat/drink that makes your blood pressure go up or down?

What new information have you learned from our initial visit or your experience so far?

What do you like about taking your blood pressure at home daily?

What has been hard/challenging about taking your blood pressure at home daily?

What do you think about the monitor? Is it easy/hard to use?

Have you used or looked at any of the **educational materials** yet? If so, which ones? What was helpful? Was anything unclear? What new information did you learn?

What other information do you wish was included in our meeting or the materials?

Is the **amount of support and follow-up** you have received so far: Too much? Too little? or Just right? How can we support you taking your blood pressure at home better?

Do you have any other questions or feedback you would like to give at this time?

Record the visit on the HQP Recruitment Tracking Sheet.

Record the visit in the health center electronic medical record/system.

Developed in partnership with the Center for Care Innovations, with funding from Blue Shield of California Foundation. www.blueshieldcafoundation.org

Rev 6.19.17





### CONSENT FORM

### Title: At Home Blood Pressure Monitoring Pilot Program

#### Purpose:

The overall purpose of this pilot is to determine if an at home blood pressure monitoring program is helpful for patients and health care providers from community health centers for engaging hypertensive patients in managing their blood pressure. This pilot is being offered to you by Neighborhood Healthcare and Health Center Partners of Southern California, with funding from the Center for Care Innovations.

You have been invited to be in this pilot program because your doctor/nurse and/or care coordination team identified you as having Hypertension (High Blood Pressure), thought you might like to be part of the pilot, and give your feedback to help us design a program for other people like you.

Please note that this pilot program does not replace any advice or direction you have received from your doctor/provider. Please continue to take any prescribed medication as directed and attend any of your scheduled visits. If you have any questions about your medical care during this pilot program, please contact your doctor's office. In case of an emergency, call 9-1-1.

#### Activities:

#### If you agree to be in this pilot you will:

- · receive instructions during a one-on-one orientation session with a care team member
- receive a blood pressure monitor to take home
- take your blood pressure on your own using the monitor (2 times per day for 14 days in a row)
- record your daily readings on a piece of paper. This may be shared with your doctor/nurse.
- complete one phone call with a care team member on Day 8 of the pilot. You will give your blood
  pressure readings over the phone and answer a few questions about how you like the program.
- attend one visit at your health center on Day 17. During this visit you will meet with a care team
  member, hand in your blood pressure reading log, answer a few final questions about your
  experience, and share your feedback.
- be invited to attend a group session with other people in the pilot to share your thoughts on what you liked and what you suggest changing. <u>Participation in this group session is optional</u>. If you come to the group session you will also get a \$15 gift card.

#### Benefits:

Benefits from being in the pilot include: receiving a blood pressure monitor and information on hypertension to keep; learning how to take your blood pressure on your own and what actions to take if it is too low or high; and having a chance to voice your thoughts and opinions on the program.

### **Risks to Participate:**

There are no known risks from participating in this pilot program. If you have any questions about your medical care during this pilot program, please contact your doctor's office. In case of an emergency, call 9-1-1.

### Costs / Compensation:

There is **no cost** to you to be in the pilot. No co-pays or insurance will be collected for the two visits or the phone call with your care team required as part of the pilot.

You **will receive** the following for being in the pilot: a free blood pressure monitor, information and materials on hypertension, and educational visits with a care team member. If you choose to come to the group session after the pilot, you will also receive a \$15 gift card.

#### Your Rights:

Being in this pilot program will not affect any health care services you receive or are eligible for through Neighborhood Healthcare. Your participation in the pilot is voluntary and you can stop at any time.

### Confidentiality:

Any information you give during your follow-up phone call and visits during this pilot will only be viewed or used by the necessary doctor/nurses and care team members at your health center. Any information about the pilot that is shared with Health Center Partners of Southern California will not contain any names on it and will not be able to be linked to you directly in any way.

### Contact Information:

If you have any questions about this pilot, please contact: \_\_\_\_\_\_\_at

#### Consent:

I have read this consent form and fully understand the benefits of participating in this pilot program. I voluntarily give Neighborhood Healthcare and Health Quality Partners my consent to participate in the At Home Blood Pressure Monitoring Pilot described above effective the date noted below.

Language Preference:

Spanish or English\_(circle one)

NHC Team Member Signature

Preferred Phone Number:

I received a blood pressure monitor: YES or NO\_(circle one)



Neighborhood Health Care Team Member

Date

# Pilot Recruitment & Participation

A total of 69 patients were identified by CHC staff as eligible to participate in the pilot.

- QI staff ran preliminary reports to identify HTN patients.
- Schedules scrubbed by care teams to identify patients eligible during the pilot timeline.
- Same day referral by providers.

Solution of the 69 patients approached, 39 agreed to complete the pilot.

Patients:39 (20 from La Maestra and 19 from NeighborhoodStaff:15 (7 CHC staff and 8 referring providers)



# **BP Log and Protocol**

Patients were given specific instructions and resources to take their blood pressure:

- daily for 14 days
- once in the AM and once in the PM. Two readings should be taken each time (1 minute apart)
- blood pressure readings recorded on a provided log

Thirty-five of the 39 pilot patients recorded their blood pressure readings.



Please complete one tracking sheet for each patient participating in the HQP Blood Pressure Monitoring Pilot. Only submit the information below to HQP to secure patient information.

Do not send the patient name, only the corresponding pilot ID.

## HQP BP Pilot: Patient Readings Tracking Sheet

Pilot ID	#								
Date Received	Pilot Day #	Date of Reading (mm/dd/yyy)	Time of Reading #1 (00:00 am / pm	BP Reading #1 : (Systolic / Diastolic)	Time of Reading #2 (00:00 am / pm	BP Reading #2: (Systolic / Diastolic)	Ac	tion Taker	1:
	1						Taken at o session.	prientation	ı
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	3								
	4								
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	6								
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## Patient Outcomes and Feedback

- Based on verbal feedback to a care team member during the follow up calls/visits, patients:
  - liked the program and found the materials clear and easy to understand
  - learned throughout the pilot period about their blood pressure and things that effected their blood pressure
  - liked the extra time with the care teams
  - wanted to share their logged BP readings with their doctor
  - did not always have their BP readings on hand at the time of the follow-up call.
  - found it cumbersome to take two BP readings 1 minute apart (particularly if it was in the normal range) and preferred to take BP once in the AM and PM



## Patient Outcomes and Feedback

11 of the 35 patients that completed the pilot (31.4%) participated in a final co-design session. This included a written survey:

- 82% indicated they were satisfied with the program. Another 18% of patients somewhat agreed that they were satisfied with the program. None somewhat disagreed or disagreed
- 91% of the patients said they would recommend the blood pressure program to a friend or family member who has high blood pressure
- Most patients indicated that they would like to continue a blood pressure monitoring program like this (strongly agree =73%) or somewhat agree =18%).



## **Patient Quotes**

"The good thing I guess is that it makes more conscious of my health. At my age I do not take my health for granted I try to watch my health and its extra tool to monitor health."

"I thought the program was perfect. I am saving all my BP logs to give to my doctor"

"I liked all the education. It helped me change my routine like when I have my coffee"

"I did not know that a full bladder makes my BP go up I learned that from your material. My experience has been good so far I really like having this BP monitor I have never taken my own BP before so it's been a new experience for me I usually get my BP checked only at the doctors office. I've learned that my stress actually increased my BP. "



"Following up monthly to review the BP readings that I have been recording would be great so that the doctors can see my numbers and give me input on what I can do differently this would really help."

"It hasn't been hard at all I think the only thing is just getting the habit of checking it so often has been a little challenging because I am not used to taking my own BP"

"It taught me to be in tune with my body" "This is a good program and I am glad I was selected by my doctor to take part in this program. I feel that La Maestra CHC is there for me when I need help. I do not feel like I am just a number to them. Thank you. "

"It helped me learn what triggers my BP to get high" "It was great to have a machine at home!"

"I feel empowered because I can take my blood pressure myself and see my numbers"

"Its good an I like this program and you help me in my daily life"



# Limitations & Next Steps

Limitations	<ul> <li>Small pilot sample</li> <li>Diagnosed HTN patients</li> <li>No follow-up SMBP data post pilot</li> </ul>	<ul><li>Staff resources/not billable</li><li>Monitors provided</li><li>No BP Monitoring data in EHR</li></ul>
Dissemination	<ul> <li>Case Study [CCI / Center for Commu</li> <li>Dissemination of current and/or taile</li> <li>Health Center Partners Member Hea - Identification of candidates for SN - Are there existing programs that (e.g. Health Education, Medication)</li> </ul>	ored patient and care team materials Ith Centers VBP program can incorporate / sustain SMBP?

## **Next Steps**

- Identify future funding to continue work with more CHC, patients, and conduct follow-up activities
- Explore incorporation of data into existing CHC infrastructure / EHR
- Work on spread and sustainability of SMBP programs

materials



Construction
 What are the key
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 Project types based
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How Using Portal Now

## **Questions?**

# Let's Try An Activity!

# Journey Mapping

# What's a Journey Map?

- A flow chart of a user's experience
- Made up of core activities
- Layered with important information like feelings, interactions, and pain points



# When to Use Journey Mapping?





# Why Use A Journey Map?

- Infuses process with human stories
- Makes user experience tangible and easy to share
- Weaves different kinds of information into one diagram
- Offers spring board for solutions and strategy



# **Journey Map Elements**

## **Y-Axis**:

- Emotions
- Pain Points
- Questions That Arise
- Quotes
- Influencers
- Motivations

X-Axis: Steps Over Time



# Journey Map Example: Cooking Dinner





# Journey Map Example: Cooking Dinner





# Journey Map Example: Cooking Dinner



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**10 - ()** 

The Visit (Prep) HV#2-5 Groals robring) Life Calendar : Facilitator a) Colored pencily Computer Prep -pull up "Activity" -mark facilitator in Parsimmony MINIFolder pull visit materials from drawers

catalyst

During 1) Health Assessment a) vitals b) update appts c) ER visits 2) Review a) triplicate form 3) (14. topic \_\_\_\_\_ Smart Goals 4) Program Topic

SUDA TIMA

Post (multiple) 1) Persimmony a) Pocument 2) Other (long Prep) 3.) ETOFORMS-> Lanett White copy HV form-> Paper Chart





# Tips & Tricks

- Interviews and observations are your foundation
- Start simply, then add on and remake the map as you learn
- Display relevant information thoughtfully and creatively
- Show users your map to get feedback



# Activity - Journey Map



- 1. Break into a group of 4-5 friendly strangers.
- 2. Think about your journey of getting your blood pressure taken:
  - Starting with being taken in from the waiting room to seeing the provider.
- 3. List key activities that you do.
- 4. Order them from left to right.
- 5. Label "stages" of related activities.
- 6. Add in "layers" of information:



Emotions, pain points, quotes, etc.

# **Journey Map Elements**

## **Y-Axis**:

- Emotions
- Pain Points
- Questions That Arise
- Quotes
- Influencers
- Motivations

X-Axis: Steps Over Time







# **Review Your Journey Map**

- What was one surprising thing you gathered from this activity?
- Which step includes the most pain points or negative emotions?
- Which step includes the most questions?

Answering these questions will help you identify your opportunities for improvement, where you can begin idea generation!



# What's After Journey Mapping?





# **Tips for Your Next Co-Design Session**









Consider accessibility & logistics of session: timing, food, daycare, incentives? Acknowledge that this is your first time doing this and it's a learning process for everyone! Include fun, tactical activities that would spark creativity and help break the ice. Seek feedback from participants on how the session could go better next time.



# **Share Your Feedback!**



## Please post on the flip chart as you exit!



# Resources

The Cancer Jou	rney			
$\leftarrow$	PRIMARY CARE	$\rightarrow$		
$_{ m PREVENTION}  ightarrow$				
representing	inderstand a user's journe the distinct activities with dation for many useful an	in their experience.		
ном то		TIPS & TRICKS		
represent. It cou life) or a more det	t of the user's journey you'll ld be at a high level (a day in their ailed activity (taking their meds).	Use sticky notes as a way to quickly brainstorm activities and arrange them in ways that are helpful. Have a specific designed help		
2 Draw a labeled sh their experience.	ape for each key activity in	graphic designer help improve the representation.		
Arrange them in trace their experi	a sequence or a cycle so you can ience over time.	PAIRS WELL WITH     Show & Tell Interview		
Use arrows to sho	w direction, paths, alternatives, etc.	"Ways of" Statements     Reviewing user video  HELPS ACHIEVE  Empathy		
kinds of activitie	_			
	base diagram, you can add more ation with labels or annotations.			
nology may play a	rouble happens, where tech- a role, what might be unnecessary, uld be best targeted.	Exploration		
д тык 15–60 minutes	♀ TEAM SIZE 2-3 people	✓ MATERIALS Sharpies, sticky notes or diagramming software		

CCCI CUCIER RORARD UNITARIONAL ACTIONAL ACTIONAL

Human-Centered Design Method Cards

## **Journey Mapping Webinar**



## You can now **Sign up** to receive human-centered design tips in your inbox!

## www.careinnovations.org/catalyst-online

Phi

## **Stay Connected!**

Diana Nguyen Senior Program Coordinator Center for Care Innovations

Jennifer Covin Director of Programs Health Quality Partners jcovin@hqpsocal.org Please paste your "I Like, I Wish, I Wonder" stickies on the wall on your way out!

