Creating an Ecosystem for Patient Engagement

Albert S. Chan, MD, MS AMGA Annual Conference Pre-conference Thursday March 14, 2013 Patient Engagement Strategies in the New World of ACOs





Perspectives:

- Patient
- Family
- Provider
- Chief Medical Information Officer, PAFMG
- Medical Director, My Health Online, Sutter Health
- Medical Director, David Druker Center for Health Systems Innovation



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Palo Alto Medical Foundation





- Affiliate of Sutter Health
- Two physician groups (n<1200 MDs)
 - Palo Alto Foundation Medical Group (PAFMG)
 - Peninsula Medical Clinic
- >9,000 office visits / day
- ~800, 000 patients annually
- EpicCare Ambulatory since 1999
- My Health Online (aka PAMFOnline) since January 2001



First, a patient (and doctor) story





Remind physicians what this about...



After suffering a stroke, Mike Cooper—a patient of Sutter Health-affiliated Palo Alto Medical Foundation—turned to managing his health online. He's able to send secure e-mail to his doctor's office, make appointment requests, view lab and test results, and renew prescriptions from the comfort of his own home or anywhere he has internet access. 1 likes, 0 dislikes

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http://bit.ly/MikeCooper



Ecosystem

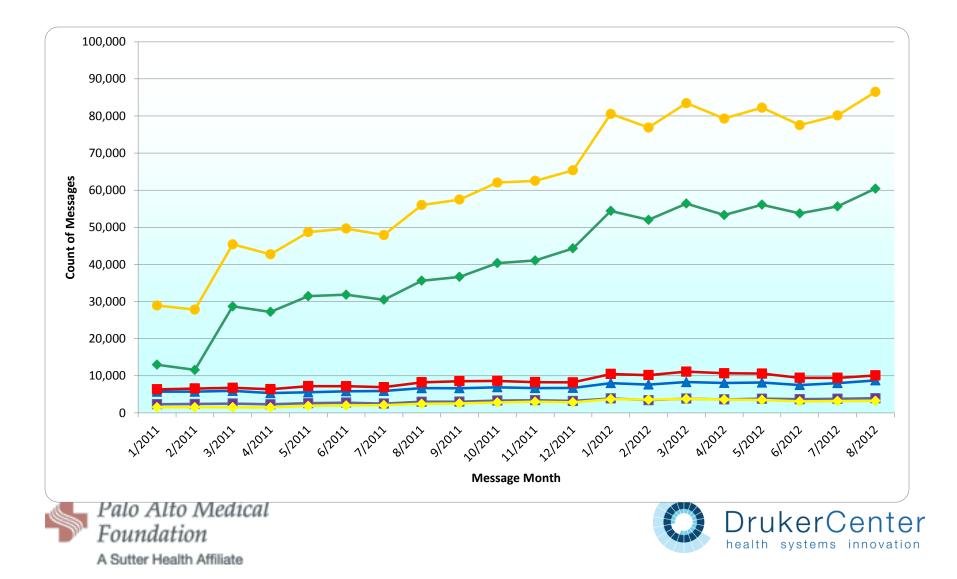
 An ecosystem is a biological environment consisting of all the living organisms or biotic component, in a particular area, and the nonliving, or abiotic component, with which the organisms interact, such as air, soil, water and sunlight. (Wikipedia, accessed 2/27/2012)







Why is an ecosystem important?



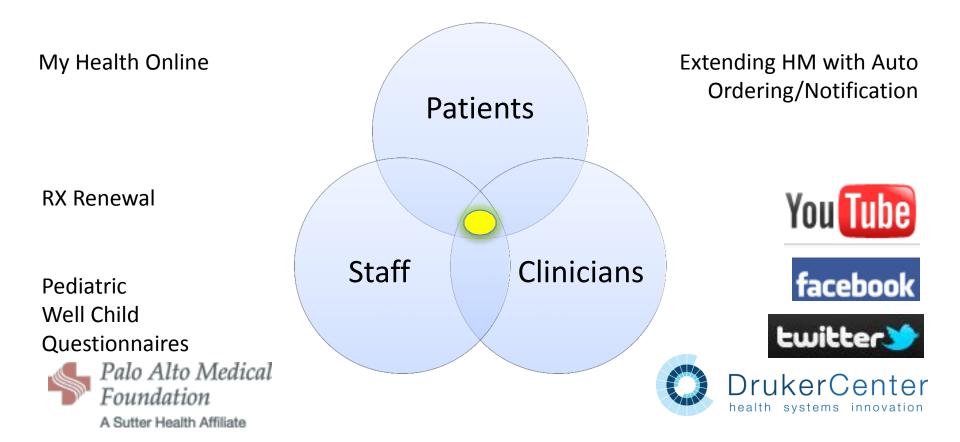
Same Technologies, Differential Adoption

(In other words, it's not as simple as installation...)





Finding the value for all stakeholders



Five Step Action Plan





Step 1: Engage leadership





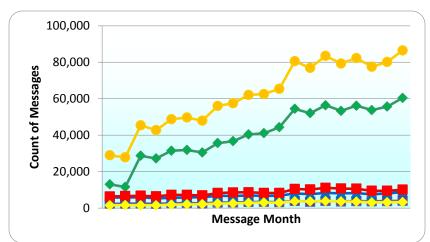
Why leadership is important

- "Turn to your left and right, we are all leaders"
- True organizational commitment

 It is not as simple as turning on a EHR/PHR feature
- Alignment of all stakeholders
 - Patients
 - Doctors
 - Clinical staff
 - Clinical operations
 - Community



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The Stakes Are Now Increased

Dark Green Dollars





The Impact of Meaningful Use Stage 2 (2014+)

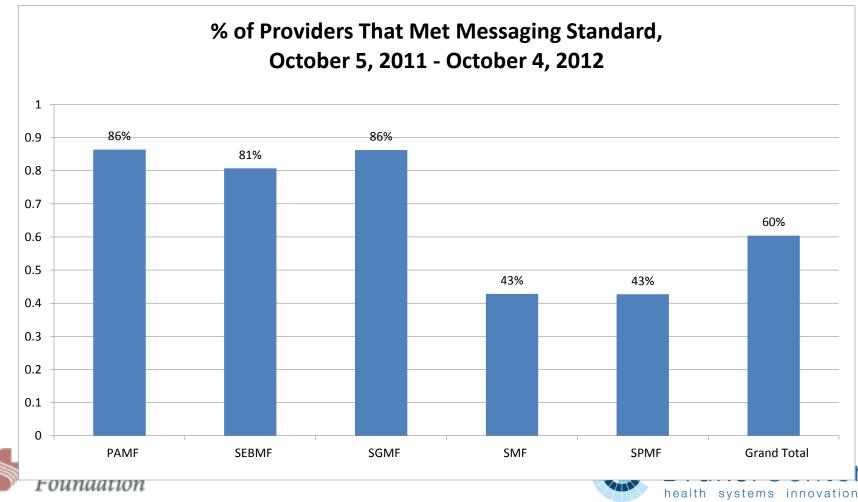
A secure message was sent using the electronic messaging function of certified EHR technology (CEHRT) by more than 5 percent of unique patients (or their authorized representatives) seen by the EP during the EHR reporting period

If an EP fails on this Core Measure, ZERO Meaningful Use incentive dollars





% of Providers Who Met 5% Unique Patient Threshold



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Step 2: Truly recognize the impact on the doctors





What Health IT can feel like to doctors







Remind physicians what this about...



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What we would we want for our families?

- A doctor who uses modern tools to connect to patients
- A doctor who wants to remove barriers to care
- Just as I would not walk in without my stethoscope, I would not practice medicine in 2013 without an electronic health record and personal health record that empowers patients and families



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Immediate Value for Physicians

• Results release: Who wants to write a letter?

• While I have you on the phone...

• Workflow efficiency

• Safer, better care...





Personalizing the wall chart

<mark>Zztest,</mark> Ca	at 1	MRN 6645319	DOB 9/16/1973		Sex F	Allergies Penicillins	PCP CHAN, ALI
SnapShot	Health Mainter	ance					
Chart Review	🍕 🗙	.					
Demographics	<u>O</u> verride <u>C</u> ancel	Edit <u>M</u> odifiers	<u>R</u> eport				
Results Review	Due Date	Procedur	е			D	ate Satisfied
Flowsheets	09/16/1993	COLONOS	SCOPY				
Graphs	+ 09/16/1974	DIABETIC	EYE EXA	М			
Growth Chart	+ 09/16/1975	GLYCOHE	EMOGLOE	IN			
Synopsis	🔶 09/16/1973	LIPID SCF	REENING				
Problem List	09/16/1975	MICROAL	BUMIN				
History	+ 12/11/2008	PAP SME	AR			05	3/11/2008-ExtConf
Health Maintena	09/16/1975	PNEUMO	COCCALN	ACCINI	E (PNEU	JMOVAX)	
Letters	+ 09/16/1986	UNIVERS	AL HIV SC	REENI	NG DISC	USSION	
Allergies	06/01/2010	DIABETIC	FOOTEX	АМ		0	6/01/2009-Done
Medications	10/01/2010	INFLUEN:	ZA VACCII	١E			
Imm/Injections	09/15/2019	TETANUS	S AND DIF	HTHEF	IA VAC	CINE 0	3/15/2009

Health	

If inaccurate information appears below, please click here to advise us.

	Name	Due Date	<u>Status</u>	Back to Top Last Done
	Lipid Screening	> 5 years ago	Overdue	
	Diabetic Eye Exam	> 5 years ago	Overdue	
	Pneumococcal Vaccine (Pneumovax)	> 5 years ago	Overdue	
	Glycohemoglobin	> 5 years ago	Overdue	
/	Universal Hiv Screening Discussion	> 5 years ago	Overdue	
	Colonoscopy	> 5 years ago	Overdue	
	Pap Smear	12/11/2008	Overdue	09/11/2008
	Diabetic Foot Exam	06/01/2010		06/01/2009
	Influenza Vaccine	10/01/2010		
	Tetanus And Diphtheria Vaccine	09/15/2019		09/15/2009

DrukerCenter

- Shared Decision Making
- Personalized for the patient...
- Focus on USPSTF recommendations level A / B

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P4P Measures

HM Reminder

6

Next Message

To: Cat Zztest From: Albert Chan, MD Received: 09/07/2011 4:18 PM

From: My Health Online [30080649]

10/25/2010

Dear Wing Liu,

Your PAMF Electronic Health Record indicates that you are due for the following:

----- Glycohemoglobin, a test for your blood sugar

Please have them done at one of these PAMF labs at your earliest convenience. No appointment is necessary. For lab locations and hours of operation, click <u>here</u>.

Reply Delete

Next Message

Lab Locations Alameda County San Mateo County Santa Clara County Santa Cruz County Santa Clara County Laboratory Locations

Los Altos Center Laboratory 370 Distel Circle Los Altos, CA 94022 Laboratory phone: 650-254-5255 Los Altos Center Google Map



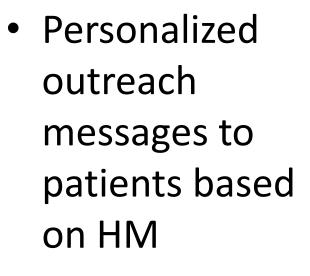
-A A+ 🔳 🛃 📑

Laboratory hours: Monday through Friday, 7:30 a.m. to 5:30 p.m. Saturday, 8 a.m. to noon

Patient Instruction Sheets for Lab Tests

Mountain View Center Laboratory

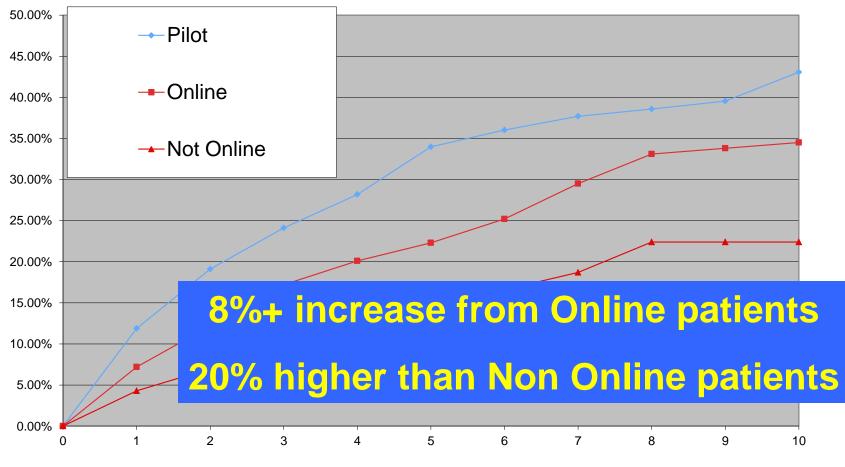
701 E. El Camino Real Floor 2 Mountain View, CA 94040 Laboratory phone: 650-934-7333, for appointments: 650-934-7345



 Orders placed with Epic







Weeks Overdue





Are refill encounters just about renewing prescriptions?

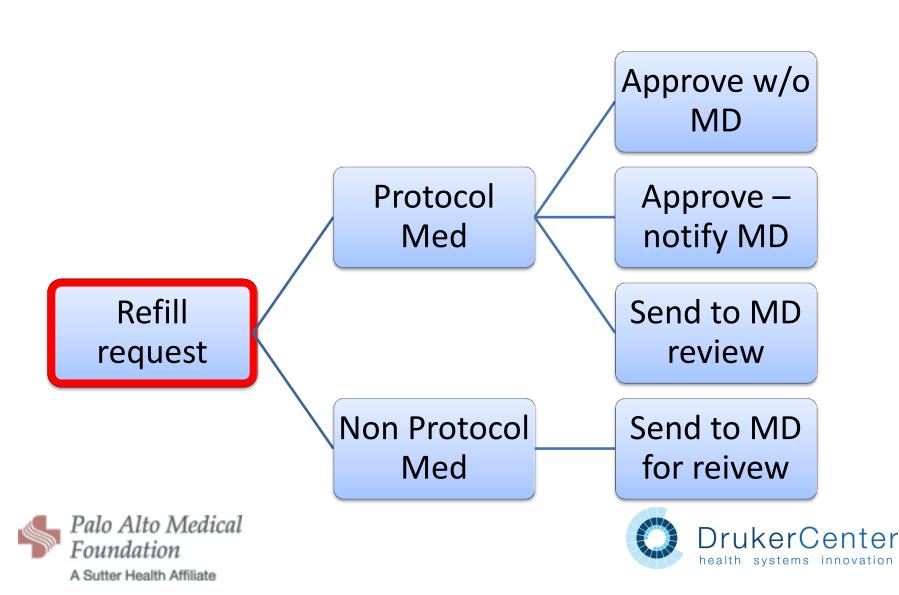
- Patient Safety
 - Dose mismatches from introduction of manual errors
 - Drug-drug interaction checking
 - Potential change in therapeutic monitoring parameters (e.g. increasing AST/ALT)



- Medication Therapy Management
 - Titrate medications with detection of out of range biometric values
- Health Maintenance
- Overdue clinician interactions



Refill Schema



Leveraging RNs

>> PA RN Rx Renewal by Protocol: Mon Aug 29, 2011 1:24 PM

Please use the flowsheet indicated below to determine whether this request meets the PAMF RN Rx renewal protocol criteria. If the request does not meet criteria, please forward to authorizing provider Francis J Lastufka, MD[LASTUFF]

lisinopril (PRINIVIL, ZESTRIL) 20mg Tab Rx Renewal HTN-2 PA Last:6/23/10

- > 6/30/11 visit to PMPA FAMLYMED LOS ALTOS
- > 7/5/11 Creatinine Value: 0.9 0.8-1.3
- > 7/5/11 Potassium Value: 4.9 3.5-5.1
- > 6/30/11 BP 110/60
- > 3/23/11 BP 107/60

RN options:

- Approve the medication
- Approve the med and cc for review
- Defer to MD

>

> LISINOPRIL 20 MG PO TABS -- Last: 6/23/10 Disp: 90 Refl: 3

> Sig : Take 1 Tab by mouth daily. (Unchanged)
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🧟 Links 🧸

What would the clinician want to know before refilling the med?

Medication Renewal Request

Pending

	Disp	Refills	Start
amiodarone (CORDARONE, PACERONE) 400mg Tab Sig - Route: Take 1 Tab by mouth daily Oral Class: Auto	30 Tab	0	8/29/2011
Documentation		Automa	ated Sig
Programmatic User_8/29/11 01:43 PM_Signed >		Verifica	ation
> AMIODARONE HCL 400 MG PO TABS Last: 3/30/10.4	Disp: 30 Refl: 0		
> Sig : Take 1 Tab by mouth daily. (Unchanged) 🧹		Follow	up visit
> Last Visit with Albert Chan in RSFM on 4/19/10 > No Future Appt in RSFM		Verifica	tion
> TSH: 2.87 ulU/mL (05/04/2011) > 1.05 ulU/mL (03/15/2011) > AST: 31 U/L (05/19/2011) > ALT: 34 U/L (05/19/2011)		Clinica relevan	•
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MyChart Questionnaires

🐛 Palo Alto Medical

Foundation A Sutter Health Affiliate Return to My Record | Log Out | Help/FAQ | Home Tuesday, November 23, 2010 - Welcome, Magenta Zztestcmg Text Size: 🗛 🛕 🛕 Expand all | Collapse all You are accessing the record of: Magenta Zztestcmg. Inbox WELL CHILD VISIT 4 YEARS Send Message to Doctor Start an eVisit Please confirm your responses. If you are satisfied with your responses, you can **Renew a Prescription** submit the questionnaire. Request an Appointment View/Cancel Upcoming Appointments Question Answer Billing/Insurance Questions What is the Language of your choice? View/Pay Bill English 0 Ask Customer Service Can your child hop on one foot? Yes 1 Messages I Sent Message Archive Can your child dress herself (including No 0 buttons)? Test Results Can your child draw a person with 3 body No 1 parts? Tests Ordered Test Results Summary Can your child use scissors? No 0 Does your child know at least 4 colors? 01 No Health Summary Current Health Issues Does your child recognize most letters? No 1 Medications Allergies Does your child know her first and last name? No 0 Immunizations Does your child play cooperatively with other No 0 Health Reminders kids? View my Clinic Visits Does your child engage in make-believe play? No Health Trends 0 Growth Chart Can strangers understand your child's speech? No 0 LowFat What kind of milk does your child drink? Proxy FAQs 0 0 How many ounces (oz) of milk does your child 12 Change Address drink in 24 hours? Update Emergency Contacts How many ounces (oz) of juice does your child 10 0 Subscribe to/Renew edrink in 24 hours? Messaging Does your child eat meat (such as fish, chicken, No 0 beef, or pork)? Find a Doctor 1 On a typical day, does your child have less than No a succession of the solution





What they have on paper

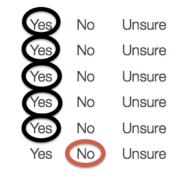
Well Child Check: 1 Month Visit

Your Child's Name:

Please answer the following questions. It will help your doctor spend more time discussing those specific issues that concern you.

Does your child lift the head when lying on the tummy? Does your child move arms equally and legs equally? Does your child coo (make "ooh", "aah" sounds)? Does your child smile? Does your child seem to look at faces? Does your child follow objects with his or her eyes?







What they have on paper

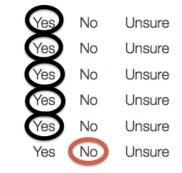
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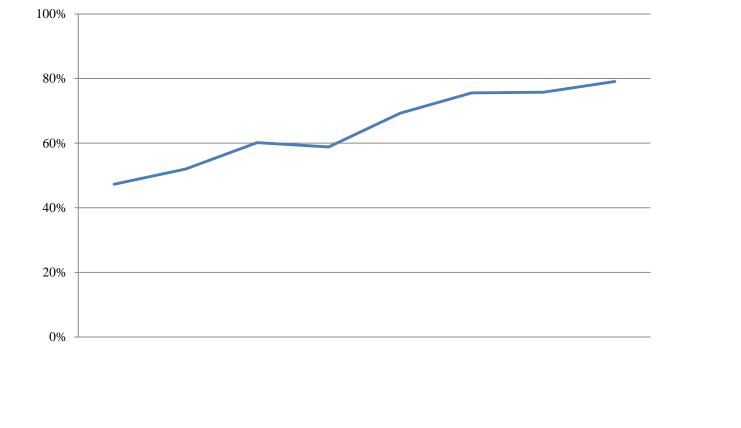
Abnormals are in red and returned with a (***) [F2] for quick navigation & documentation

	WELL CHILD VISIT 3 YEARS
English	What is the Language of your choice?
Yes	Dees your shild nodal a tricycla?
	Does your child pedal a tricycle?
Yes	Can your child throw a ball overhand?
Yes	Can your child get dressed with your help (or on own)?
Yes	Can your child copy a circle?
Yes	Are at least three-fourths of the words your child uses understandable to most
	people?
Yes	Does your child know his or her name, age and sex?
Yes	Does your child join other children in play?
Yes	Does your child count to three or more?
No	Does your child ask questions? {Counseled/Reassured:124036::"Counseled"}
LowFat	What kind of milk does your child drink?
12	How many ounces (oz) of milk does your child drink in 24 hours?
12	How many ounces (oz) of juice does your child drink in 24 hours?
Yes	Is your child completely weaned from the bottle?
Yes	Does your child eat meat (such as fish, chicken, beef, or pork)?
Na	le yeur shild teilet treined during the deutime?
No	Is your child toilet trained during the daytime?
	{Counseled/Reassured:124036::"Counseled"}
Unsure	Do you and your child read together daily?
шиноп	{Counseled/Reassured:124036::"Counseled"}

:**el** ation

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Currently 80% of questionnaires are answered







Clinician Time Savings

How much time did the online questionnaire save you when documenting the visit?

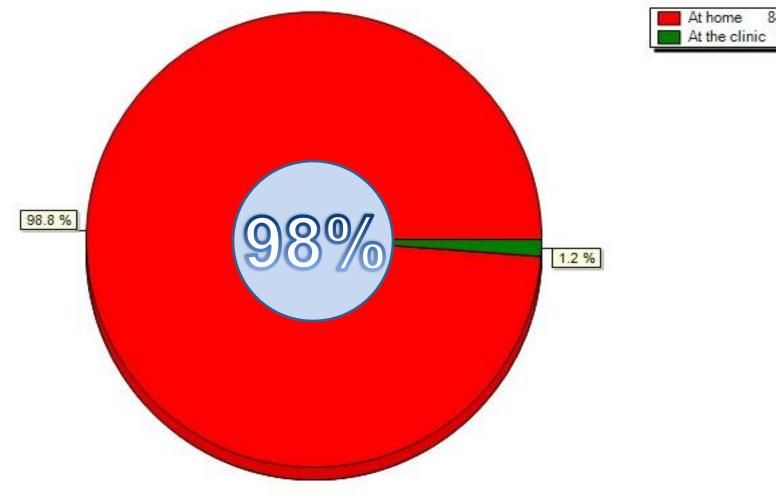






Parents prefer filling out the questionnaires online

Do you prefer to fill out the questionnaire:



H ion



I appreciated being able to answer the questions **at home**; this was much easier than **trying to balance a clipboard on my lap**, **rushing to answer the questions before my name was called**, all while keeping a **curious toddler occupied** in the waiting room.

The questionnaire is just another example of PAMF's dedication to streamlining procedures and putting systems in place that help both the patient and the caregivers. I am so thankful that our family is a part of the PAMF family

My Health Online mobile app. available for iPhone and Android

Get iPhone App.



Scan QR Code* or click icon to download

Get Android App.



Scan QR Code* or click icon to download.

*Scan either icon (QR Code) with your smartphone to download our mobile app. Get a free mobile QR scanner at http://gettag.mobi



The Andre Family, http://bit.ly/AuQelY



Competition

PMPA FAMLYMED REDWOOD SHORES	 	83%	585	845	69%
CHAN MD (PAMF), ALBERT S.		91%			83%
		77%			58%
		83%			63%
		69%			0%
		78%			48%
		90%			75%
		79%			49%
		84%			66%





Recognizing physician work

- Implemented a physician compensation program for which all physicians are eligible
- Tied to financial health of medical group related to our committee rate w/ cap
- Payment linked to desired behavior
 - Patient initiated messages only
 - Reply by 1 business day to receive payment



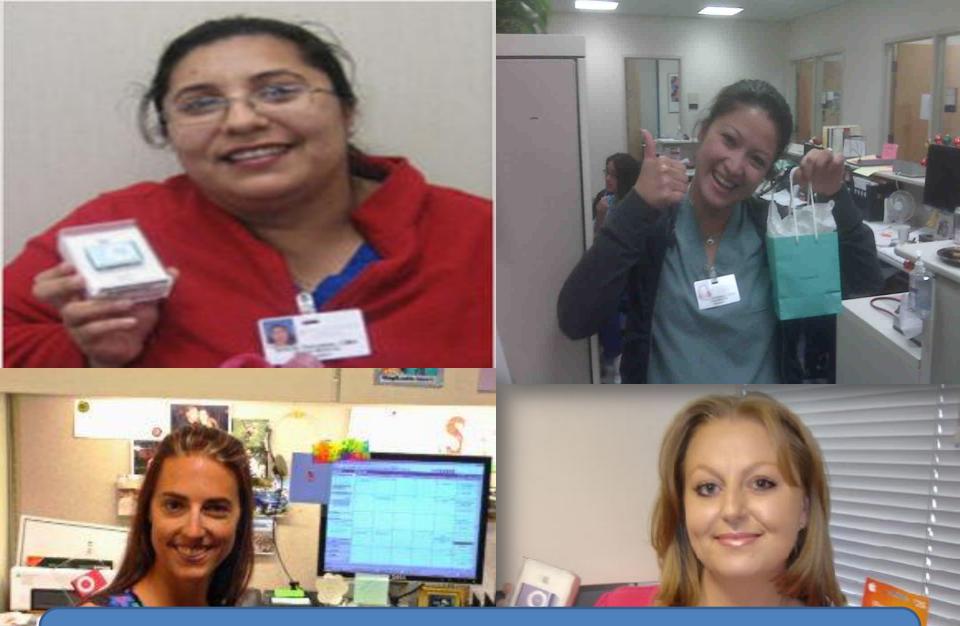


Step 3: Sign every staff member up for My Health Online

Who are our best ambassadors / evangelists for a service like MHO?







When It Matters to Staff, It Makes a World of Difference for Patients

Engaging Employees

PAMFOnline Asks: How Would You Spend \$500?



If you are a PAMF benefitted employee, a PAMF patient, and a PAMFOnline user, the PAMFOnline team has one question: **How** would you spend \$500?

As you may already know, one PAMF employee with an active PAMFOnline account by the end of this month will win \$500. If you don't have an active account, now is the perfect time to sign up or

activate your account.

To enroll in PAMFOnline, simply ask your front desk staff, stop by one of the PAMFOnline enrollment clinic when it comes to your location (click here for dates and locations), or go to www.pamfonline.org and click "enroll now" in the top menu bar.

If you have already signed up but you need a new activation code or you forgot your password, go to www.pamfonline.org and click "contact us" at the bottom of the Web





Step 4:

Engage the Community &

Commit to connect every patient to My Health Online at every encounter





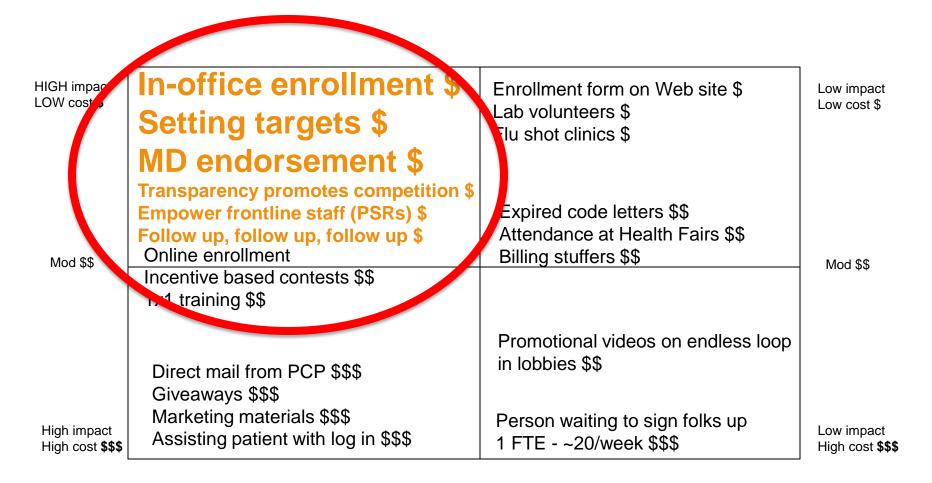
Sign up when value is greatest to the patient

- In the office
- In anticipation of upcoming laboratory or other study results
- Anticipating needs for families
- In response to information requests



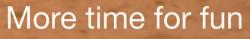


What Works Best









"My Health Online helps Mom take care of us." Aidan and Ina, PAMF patients

Reach out to the community



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pamf.org/findadoctor



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Ways to meet unmet needs



54,136 FOLLOWERS

Getting giddy. Starting the motion for discharge. Get. Us. Outta. Here. No idea where my car is parked.



KatieS

KatieS

Appalled. Health care company literally told me to do a google search for home care nursing ideas. Losing it.



KatieS

Tremendous thanks to @SutterHealth Nurse Kathy & @albertschan to help me find a home nurse. We need to make health care easier for everyone.





Step 5: Deliver value to patients (and thus to your organization)





PAMF Stats

- 75% of active PAMF adult patients are enrolled in My Health Online
- 51% of pediatric proxy patients <12
- ~92% turn around time of messages 1 bus.
 day
- Average turn around time <3 hours
 - 15000 messages / week
 - If you do not meet the service expectation, you

Palowill nowal have two messages Foundation



Online Scheduling Experience

Direct Scheduling Request PCP Appt Request Specialty Appt Total Electronically Scheduled

Total Visits 2012



153446

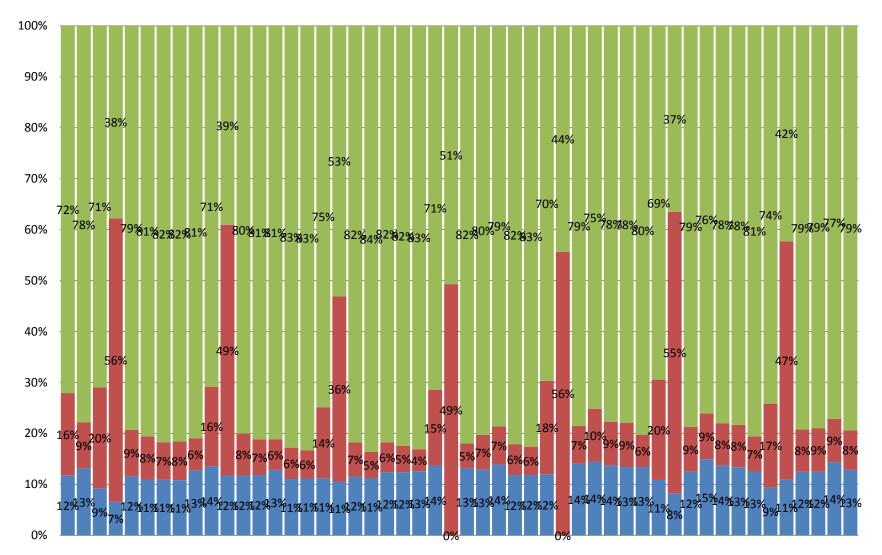
33200

66607

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■ Call_Center ■ MHOL ■ PSR





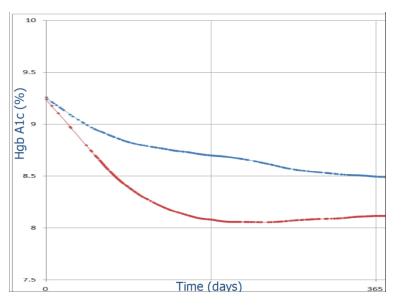
Step 6: Innovation

So I lied about 5 steps...









J Am Med Inform Assoc doi:10.1136/amiajnl-2012-001263

Research and applications

Online disease management of diabetes: Engaging and Motivating Patients Online With Enhanced Resources-Diabetes (EMPOWER-D), a randomized controlled trial







It is about people and their families, NOT the app or technology





Questions?

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- Twitter: @albertschan



