VA Mobile Discussion Series



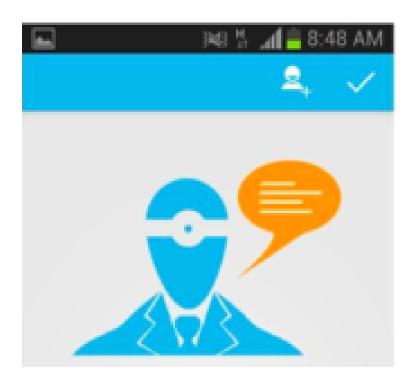


Susan Woods, MD, MPH
Shawn Hardenbrook, Director W/M Solutions
Connected Health Office
Veterans Health Administration

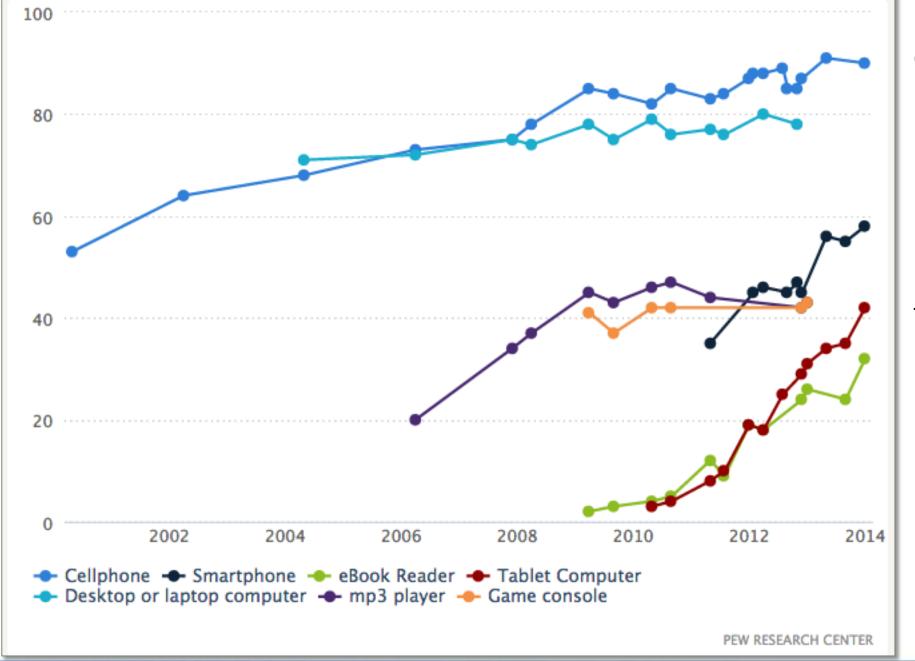
October 17, 2014

Annie: VA's Texting Platform for Veterans

- Trends
- Texting Goals
- Background
- Meet Annie







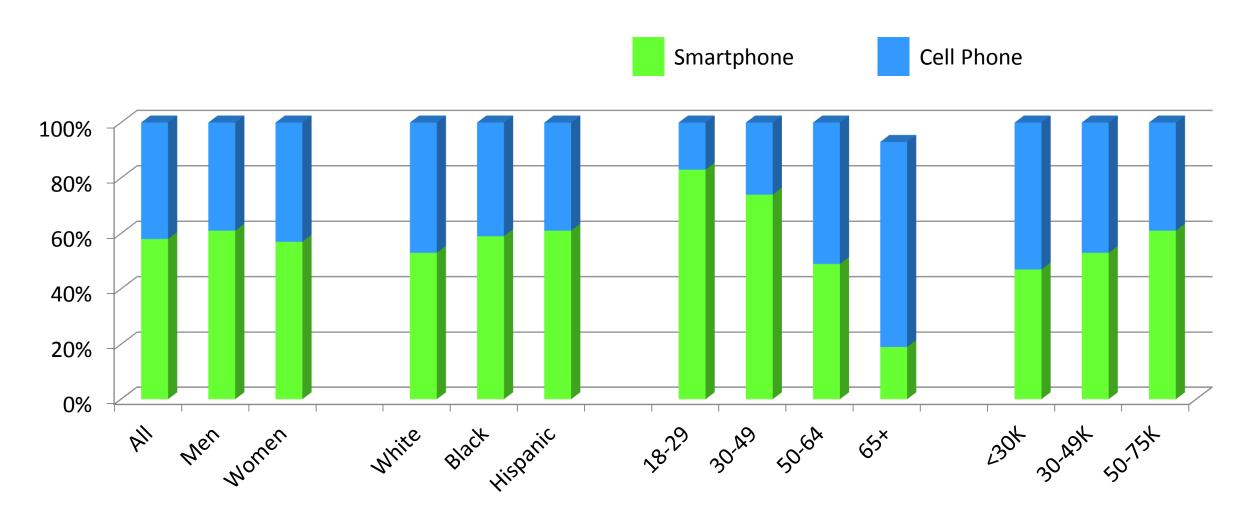
Cell Phone

Smart Phone

Tablet



U.S. Adults and Cell Phone Use (January 2014)





http://www.pewinternet.org/fact-sheets/mobile-technology-fact-sheet

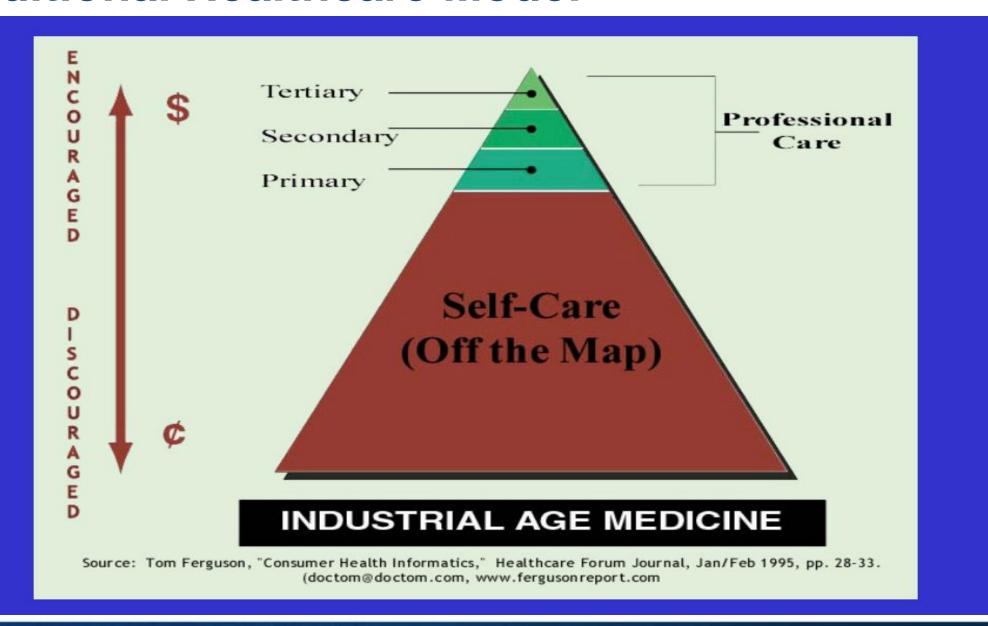


Mobile Culture

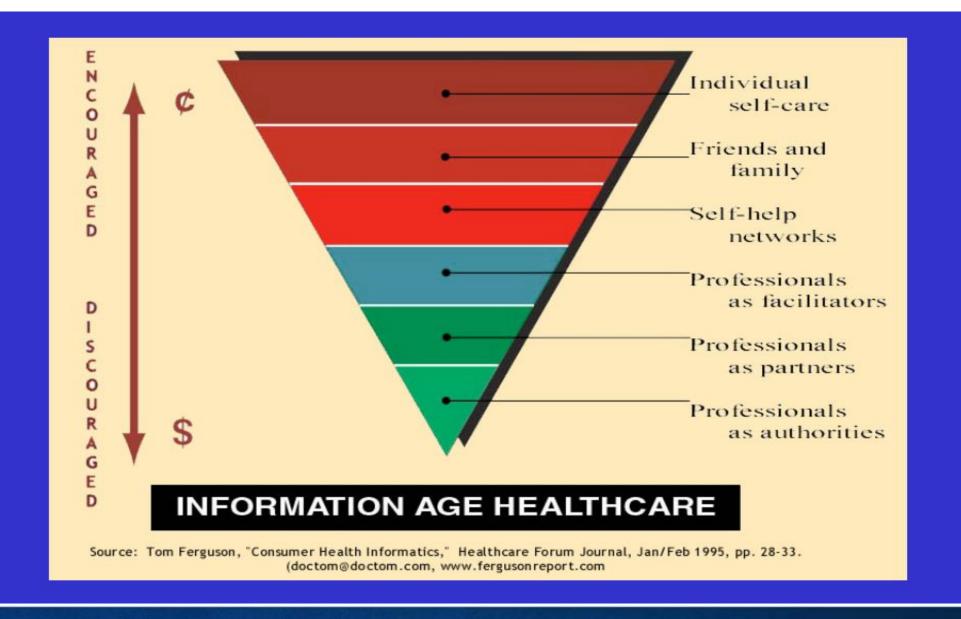
- Constantly present even sleeping
- Users love convenience
- Search often, leads to action
- Check phones often
- Users don't like 24/7 availability, costs
- Frequent use of multiple devices
- Don't think it's disruptive



Traditional Healthcare Model



Information Age Healthcare Model





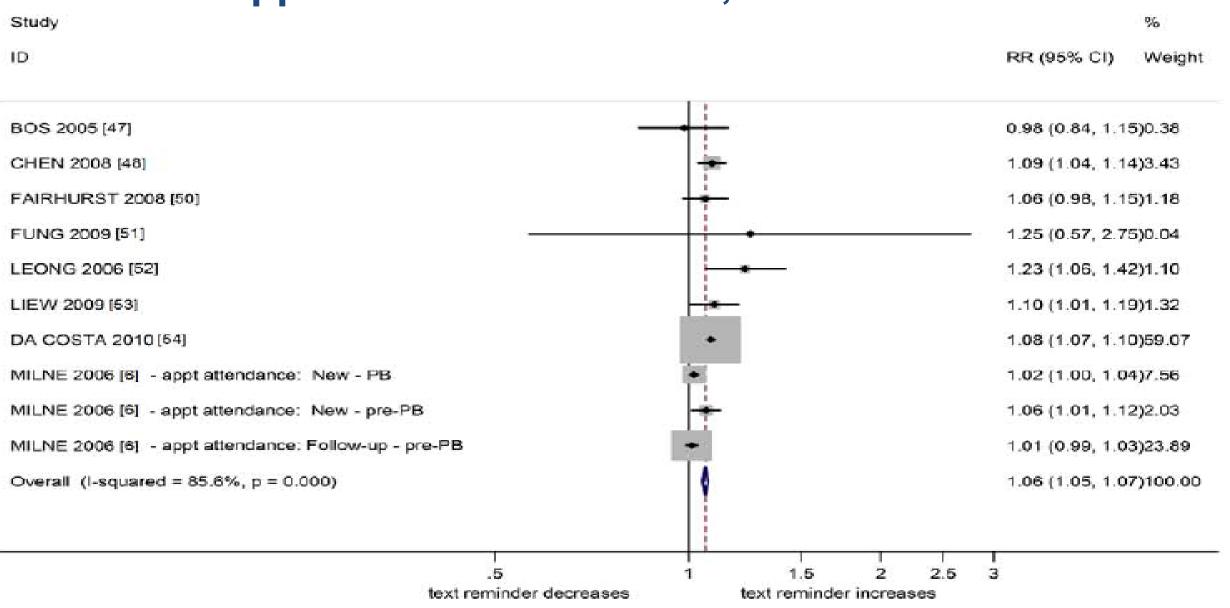
Behavioral Opportunity

Constructs

- Pervasive (always on)
- Cue to action (reminders, texts)
- Self-efficacy (exploration, goal setting)
- Social support (networks)
- Self monitoring (tracking)
- Feedback (algorithms)



Appointment attendance, SMS vs. none



Mobile phone messaging for facilitating self-management of long-term illnesses (Review)

de Jongh T, Gurol-Urganci I, Vodopivec-Jamsek V, Car J, Atun R





Across the Pond VA – NHS Partnership





NHS Implemented Flo – Simple Telehealth

Named after Florence Nightingale

"The service has altered my life. I feel supported...It's great."

"I was astonished at how Flo changed my medication habits."

"Flo found I had a heart problem and my [GP] saw me quickly and now checks on my progress."

"I now feel that I am not on my own."



Evaluation of 'Flo'

Patients find Flo

- Flexible
- Easy to use
- Can build confidence
- Can provide comfort and companionship
- Acceptable for reporting blood pressure vs. other means

Cottrell E, McMillan K, Chambers R. A cross-sectional survey and service evaluation of simple telehealth in primary care: what do patients think? BMJ April 2012



Questions





VA's Texting Program

VA system named:





Annie G. Fox

August 4, 1893 – January 20, 1987

First woman to receive Purple Heart

Chief Nurse in Army Nurse Corps at Pearl Harbor



Annie – VA Text Messaging Program

Protocol Messaging: Automated messages for specific clinical issues and conditions

Broadcast Messaging: Tailored messages to people/groups (age, facility) - "flu shot ready"

Provider to Provider: Staff messaging

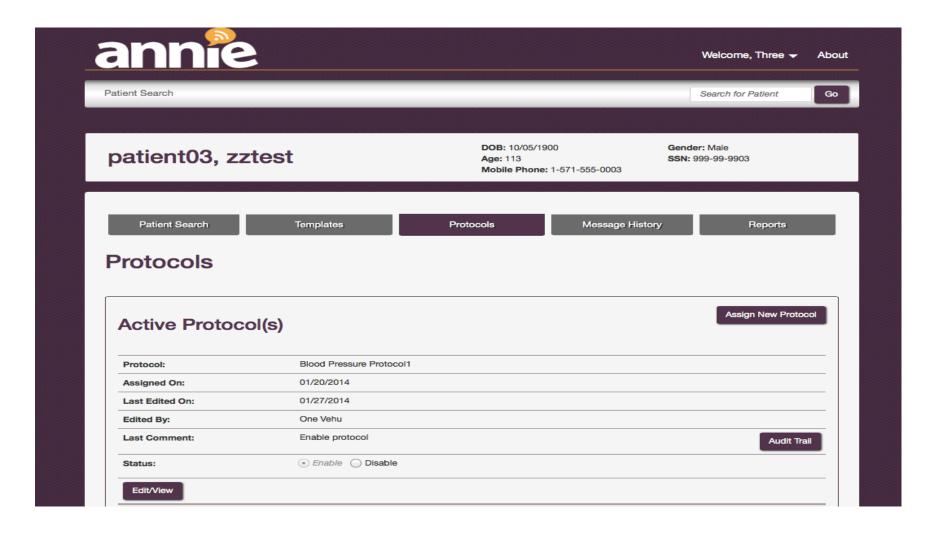
Drivers for SMS Texting

- √ 24/7, everywhere phones
- √ Population reach (basic cell phones)
- ✓ Care efficiency (visit attendance)
- ✓ Empower patient self-efficacy
- ✓ Connecting with Veterans
- √ Low cost





Clinicians "Prescribe" Clinical Protocols

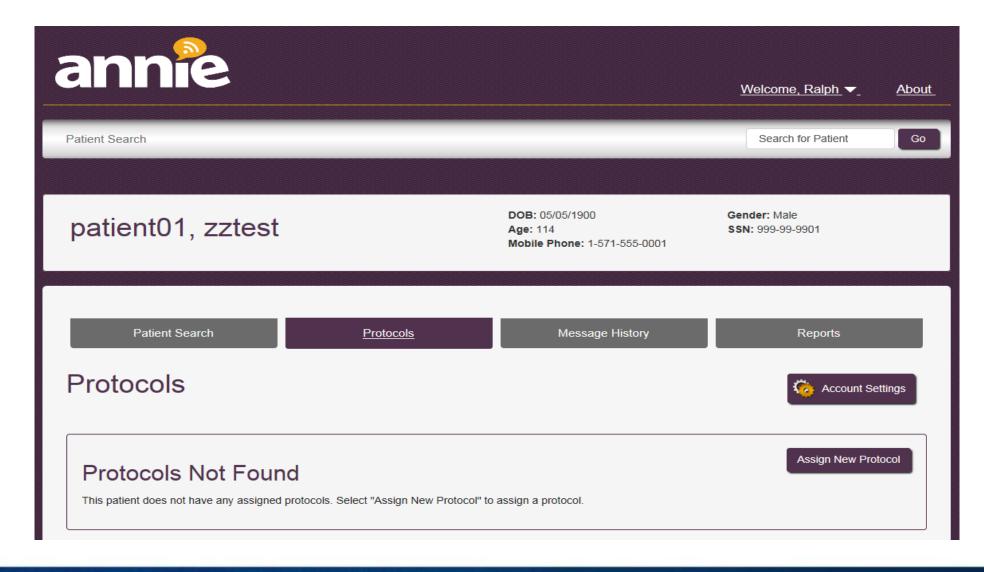




"Hi, Annie here. It is 10am and I haven't seen your blood pressure reading yet. Can you send?"

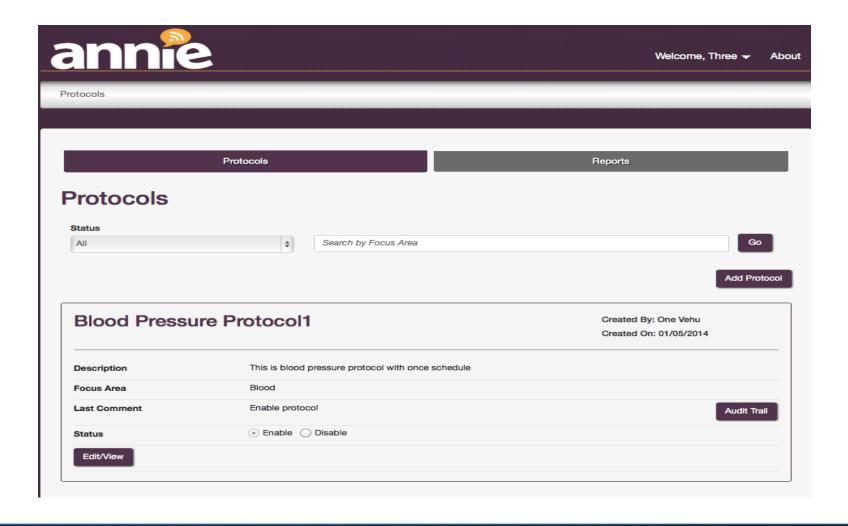


Assigning a Protocol





Protocol Assignment



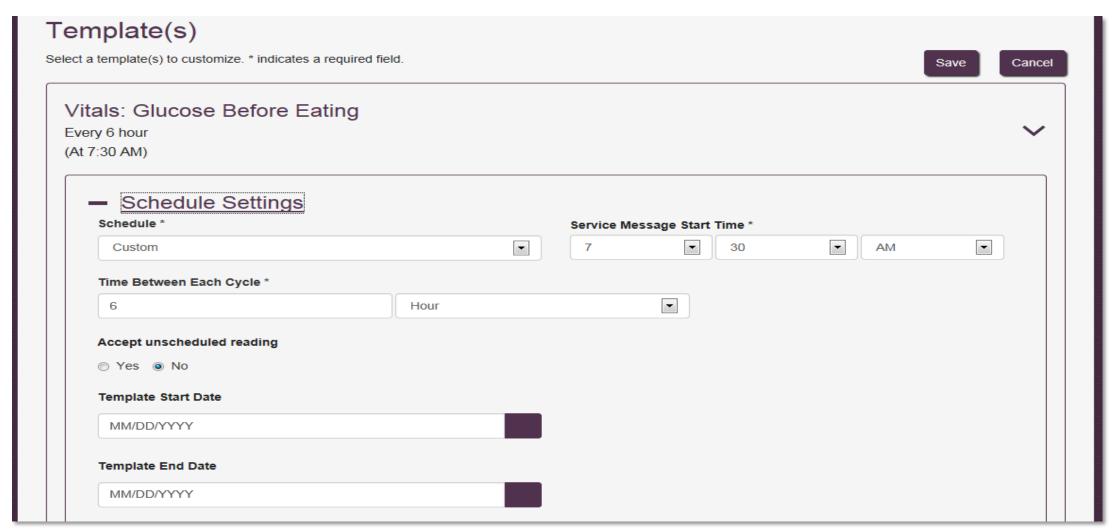


Protocol Description

Patient Search Message History Reports Protocols **Protocols** Search Focus Area Diabetes Management Protocol Protocol: Description: To support the veteran who is living with diabetes and monitoring blood glucose values on a regular schedule. To provide an education overview of hypoglycemia prevention and management of sick day guidelines. Template(s): Vitals: Glucose Before Eating - Every 6 hour (At 7:30 AM) Vitals: Glucose After Eating - Every 6 hour (At 9:30 AM) Motivational/Educational: Glucose Management Motivational Messages - Sun., Mon., Tue., Wed., Thu., Fri., Sat. (At 8:00 AM) Created On: 08/01/2014 Diabetes, Hypoglycemia, Blood Sugar Focus Area: Status: Active Assign

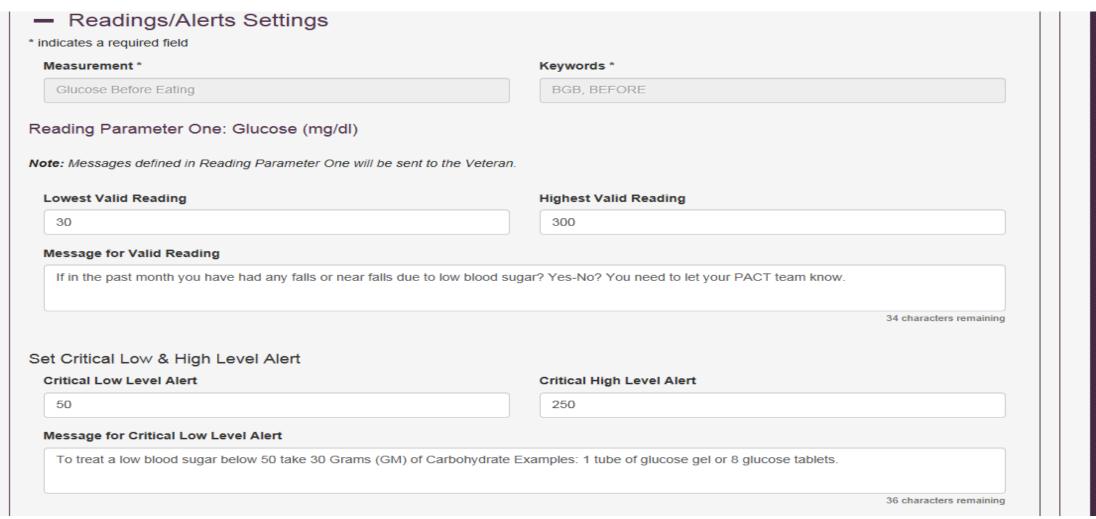


Protocol: Blood Sugar before meals - schedule



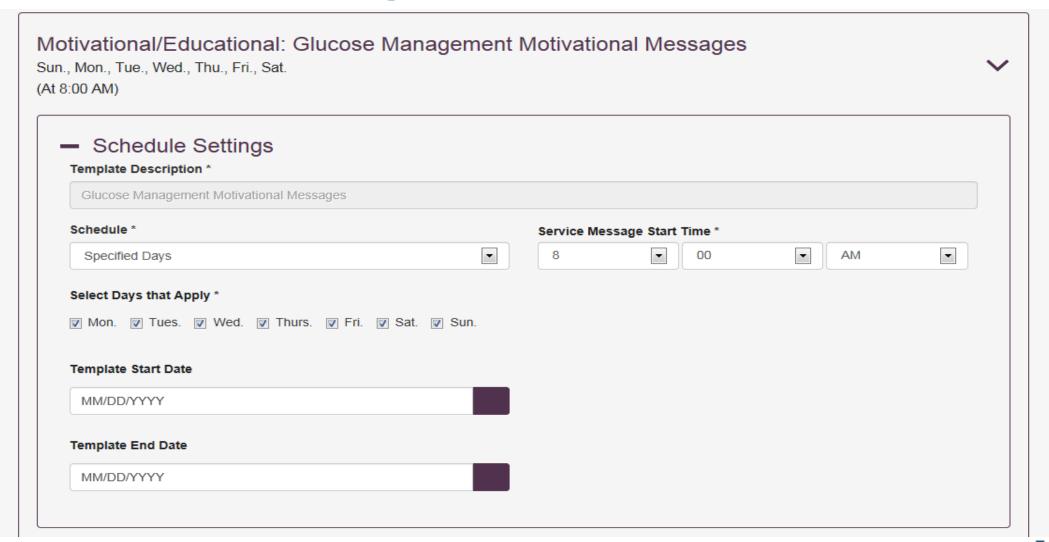


Protocol: Blood Sugar before meals – alert to patient



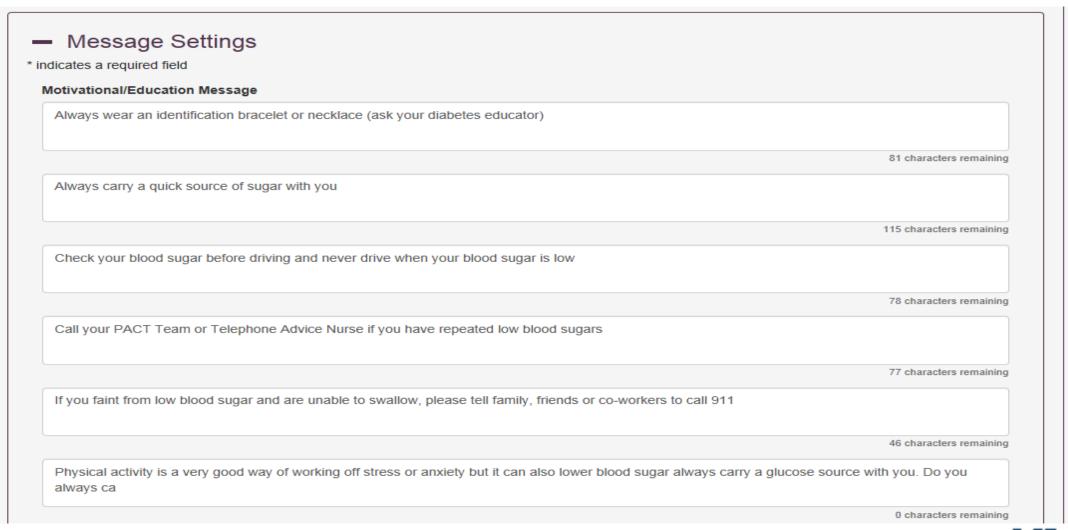


Protocol: Blood Sugar before meals – education





Protocol: Blood Sugar before meals – message content

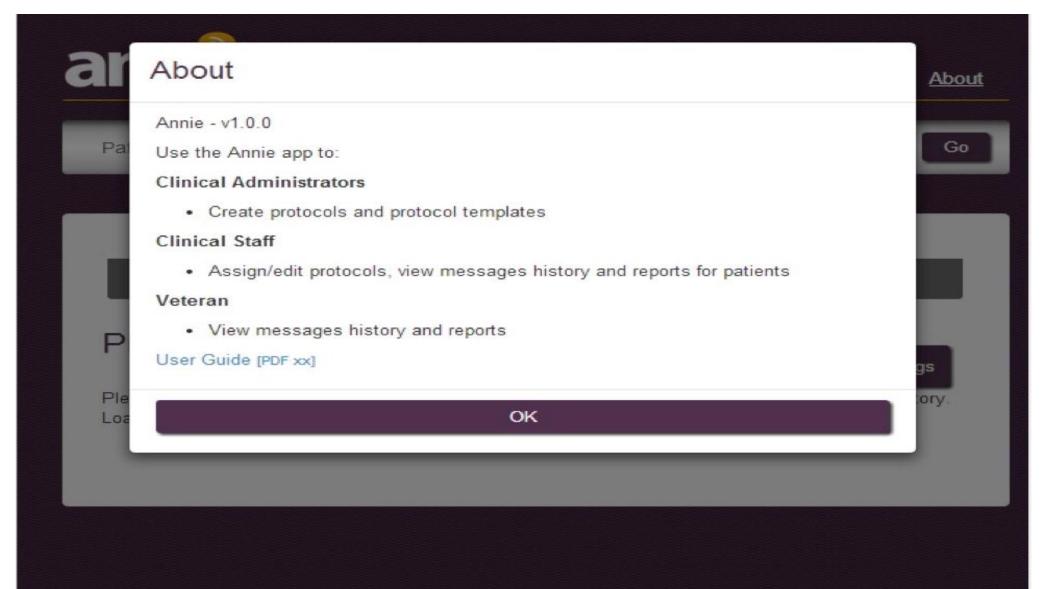




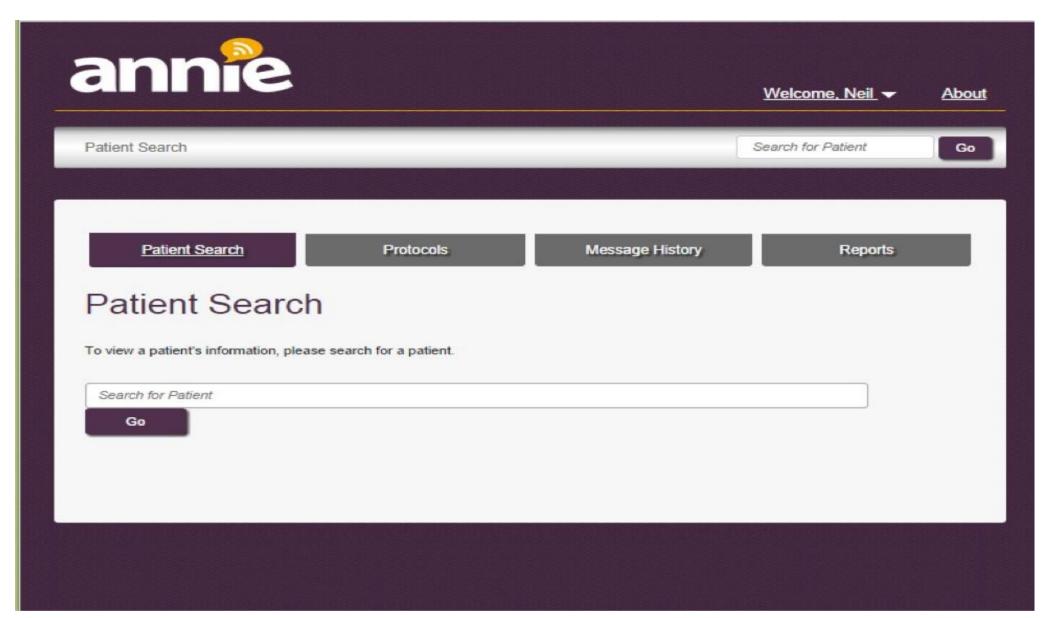
Questions













Patient Search Protocols Message History Reports Patient Search To view a patient's information, please search for a patient. zztest Go Gender: Male DOB: 05/05/1900 MobileAppsVeteran, One Age: 114 SSN: 999-99-9901 Mobile Phone: 1-571-555-0001 Gender: Male DOB: 10/05/1900 MobileAppsVeteran, Two SSN: 999-99-9902 Age: 113 Mobile Phone: 1-703-333-4444 Gender: Male DOB: 10/05/1900 MobileAppsVeteran, Three Age: 113 SSN: 999-99-9903



Account

Preferences *

Has Basic Cell Phone

How Patient will Receive Messages from Annie

* indicates a required field

annie

First Name *	Middle Name		Last Name *
One			MobileAppsVeteran
SSN *	DOB *		Gender *
555-55-5555	05/05/1955		Female
Mobile Phone *	Time Zone *		Home Phone
222-222-2222	Eastern (GMT-05:00)	~	xxx-xxxx-xxxx
(This will be used to receive message	s from Annie.)		
Email Address			

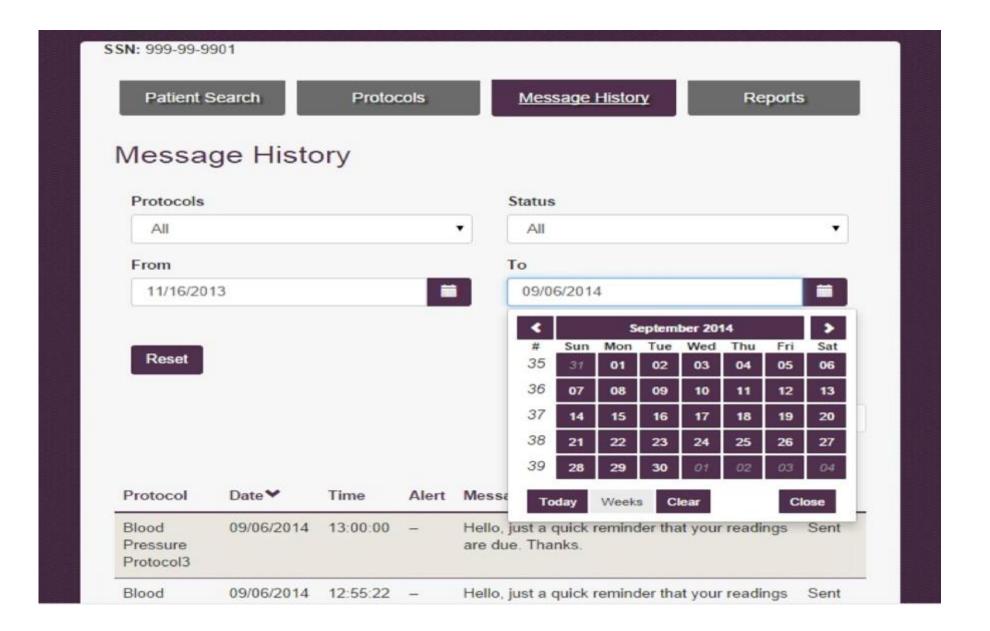
O Has Smart Phone







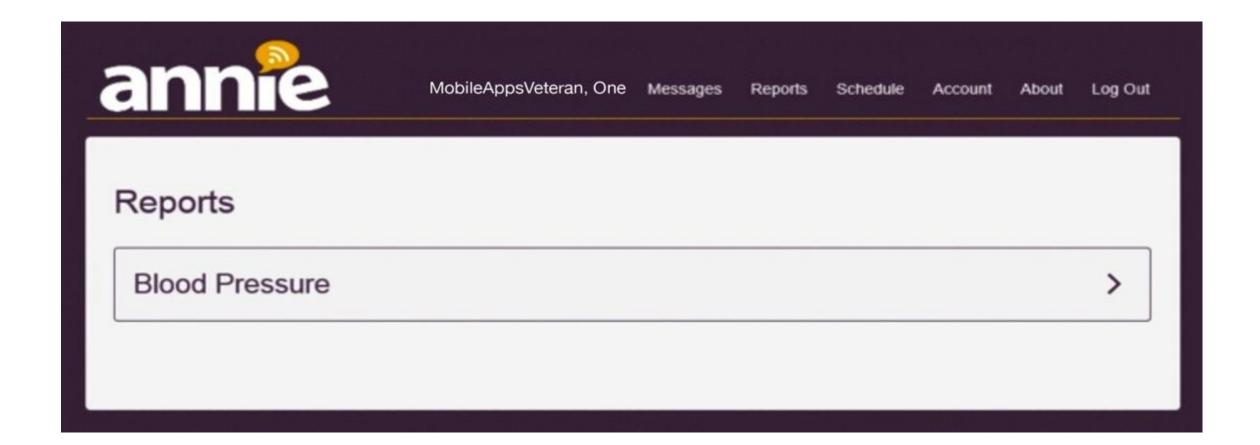






Message	History	/			
Protocols		,		Status	
All				▼ All	
From				То	
11/16/2013				09/06/2014	=
2	D. J. W	T:	No.	Marrana	1
Protocol Blood Pressure	Date♥	Time 13:00:00	Alert	Message Hello, just a quick reminder that your readings are due. Thanks.	1 Stat
	Date❤ 09/08/2014	Time 13:00:00		Message Hello, just a quick reminder that your readings are due. Thanks.	
Rood Pressure Protocol3					
Blood Pressure	09/06/2014	13:00:00	=	Hello, just a quick reminder that your readings are due. Thanks.	Sen Sen
Protocol3 Flood Pressure Protocol3 Flood Sugar After	09/08/2014	13:00:00	= =	Hello, just a quick reminder that your readings are due. Thanks. Hello, just a quick reminder that your readings are due. Thanks.	Sen Sen Sen
Blood Pressure Protocol3	09/06/2014 09/06/2014 09/05/2014	13:00:00 12:55:22 06:59:28	= =	Hello, just a quick reminder that your readings are due. Thanks. Hello, just a quick reminder that your readings are due. Thanks. test This is the last day for you to send in responses for the Glucose After Eating. The protocol	Sen
lood Pressure rotocol3 lood Pressure rotocol3 lood Sugar After lating beth	09/06/2014 09/06/2014 09/05/2014 09/03/2014	13:00:00 12:55:22 06:59:28 13:48:44	-	Hello, just a quick reminder that your readings are due. Thanks. Hello, just a quick reminder that your readings are due. Thanks. test This is the last day for you to send in responses for the Glucose After Eating. The protocol will no longer be active AFTER Sep 3, 2014.	Sen Sen Sen



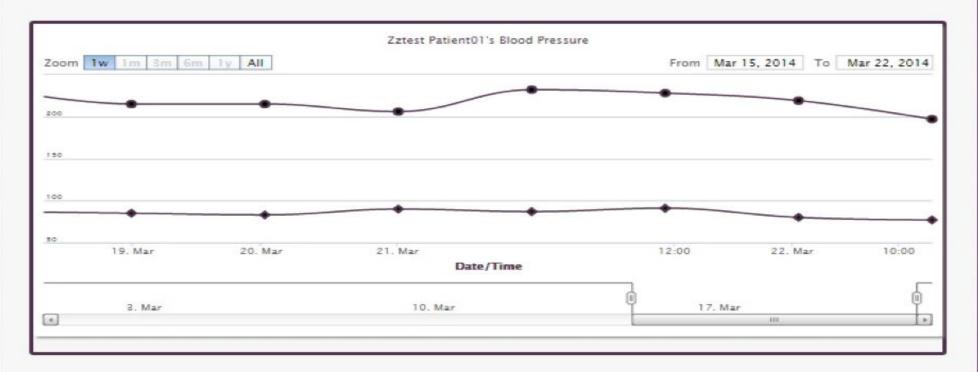




Reports

Readings

Blood Pressure



Date/Time	Blood Pressure - Systolic/Diastolic mmHg			
03/19/2014 10:00:00	130/85			
03/20/2014 15:00:00	132/83			
03/21/2014 08:12:00	116/90			
03/21/2014 09:00:00	145/87			
03/21/2014 10-41-00	137/91			



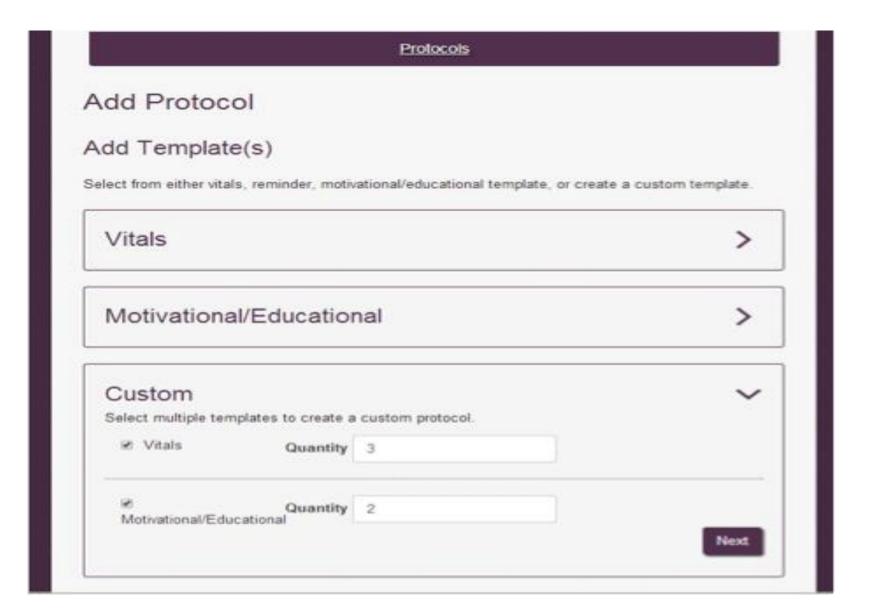
Protocols

Add Protocol

Protocol Name * Description * Focus Area * Tags ie: blood pressure, glucose before eating	Please complete information about the new protocol. * indicates as a required field.	
Focus Area *	Protocol Name *	
Focus Area *		
	escription *	
Tags ie: blood pressure, glucose before eating	ocus Area *	
	ags ie: blood pressure, glucose before eating	



Next





patient01, zztest

DOB: 05/05/1900

Age: 114

Mobile Phone: 1-571-555-0001

Gender: Male SSN: 999-99-9901





Annie Next Steps

- Completing development
- Finalizing training materials
- First phase testing planning
- Initially early 2015



Questions



Susan Woods, MD, MPH - @SueWoods Shawn Hardenbrook, Director W/M Solutions Connected Health Office Veterans Health Administration



Support VA Mobile Health!

Vote for Connected Health Co-Director Dr. Neil Evans for FedScoop50's Most Inspiring Up & Comer

http://fedscoop.com/events/fedscoop50/#up-and-comer



What future topics would you like to discuss? Let us know by answering our survey below!

https://www.surveymonkey.com/r/YQJ5T5G

A recording of this session will be available on the VA Mobile Health website

http://mobilehealth.va.gov

We hope you join us for our next presentation in November

