



# College of Medicine – Phoenix/Veterans Health Administration Progress and Vision

Will Heise MD

January 2020

PGX P4



# UA College of Medicine – Phoenix, VA Health Care System Launch Initiative to Improve Treatment Options for Veterans

September 27, 2019



TERESA JOSEPH 



## Collaborative Program Could Prevent Adverse Drug Events, Save Lives and Decrease Healthcare Costs

The University of Arizona College of Medicine – Phoenix is partnering with the [Phoenix Veterans Affairs Health Care System](#) to provide personalized drug treatment for veterans.

# Collaboration Strengths

- COMP incubator
- Clinical decision support experience
- Medical informatics expertise
- Precision and medical toxicology
- Local VA support and governance



# Collaboration Ongoing

- PHASER opportunity
- Flinn Foundation support
- UA/VA Phoenix research strategic plan
- Alignment to VA research focus

# Phoenix VA Benefits/Investments



**20 VETERANS DIE BY SUICIDE EACH DAY**



# PHASER Clinical Program

- Allows building joint expertise, supports personnel development in Phoenix VA, positions our group to share results and evaluate veteran outcomes





# Patient/Cohort Outcomes





























# VA Cerner Transition







Adams, Charles DOB: 12/21/1972 Age: 40 years Sex: Male Allergies: Penicillins  
Weight: 187 lbs. MRN: 200365448 FIN: 1005-63251

Menu - All SMART Medication Print 5 minutes ago

**meducation<sup>RS</sup>** GP7XAJNA Logoff | Tutorial | Feedback University Medical C New Loa

**Med List** Calendar Add Med Print PMI English Regular Options

Drug Name	SIG Instructions	Links	Category	Cal	Prin
24 HR Niacin 500 MG / Simvastatin 40 MG Extended Release Oral Tablet [Simcor]	1 once daily [bedtime] for cholesterol, high	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Aspirin Enteric Coated Tablet 81 mg	1 once daily for heart	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bumetanide 1 MG Oral Tablet	2 twice daily for CHF	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Carvedilol 25 MG Oral Tablet [Coreg]	1 twice daily for CHF	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Clonazepam 0.5 MG Oral Tablet	1 twice daily as needed for anxiety/nervousness	  	PRN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Clonidine HCl Tablet 0.1 mg	2 twice daily for hypertension	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ergocalciferol 50000 UNT Oral Capsule	Day of week schedule	 	Day of Week	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Escitalopram 20 MG Oral Tablet [Lexapro]	1 once daily for depression	  	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Levemir FlexPen 100 IU/mL	50 units once daily [morning] for diabetes	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Losartan Potassium 100 MG Oral Tablet [Cozaar]	1 once daily for hypertension	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Minoxidil 2.5 MG Oral Tablet	1 twice daily for hypertension	 	Daily	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Novolog Insulin Solution 100 IU/mL	Sliding scale	 	Special	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Red SIG: SIG not recognized  Edit unrecognized data  View PMI (Personal Med Instructions)  View demonstration  
Red Drug: Medicine not recognized  Modify SIG instructions  Med instruction unavailable  View FDA Med Guide



# Review Results

care.va.gov/vvc-app/#/ | VA Bookmarks | New Tab | Search Federal Emp... | vatas - Google Sear... | https://www.marrio... | Location

**Video Connect**

AL YAQOOBI,ALI  
Host

ABBASZADEGAN,...  
Guest



A9624.pdf - Adobe Acrobat Reader DC

File Edit View Window Help

Home Tools TCA\_2016.pdf A9624.pdf x

Protected View: This file originated from a potentially unsafe location, and most features have been disabled to avoid potential security risks. [Enable All Features](#)

### Potentially Impacted Medications

CATEGORY	DRUG CLASS	STANDARD PRECAUTIONS	USE WITH CAUTION	CONSIDER ALTERNATIVES
Anticancer Agents	Fluoropyrimidines	Capecitabine (Xeloda®) Fluorouracil (Adrucil® (iv); Carac® (topical); Efudec® (topical))		
	Thiopurines		Azathioprine (Azasan®, Imuran®) Mercaptopurine (Purinethol®, Purixan®)	
	Anticoagulants	Warfarin (Coumadin®)		
Cardiovascular	Antiplatelets	Clopidogrel (Plavix®)		
	Statins	Simvastatin (Zocor®)		
Gastrointestinal	Antiemetics	Ondansetron (Zofran®, Zuplenz®)		
Infections	Antifungals	Voriconazole (Vfend®)		
Pain	Opioids	Codeine (Codeine; Fioricet® with Codeine)		
		Tramadol (Ultram®)		
	Anti-ADHD Agents		Atomoxetine (Strattera®)	
Psychotropic		Amitriptyline (Elavil®) Citalopram (Celexa®) Clomipramine (Anafranil®) Desipramine (Norpramin®) Doxepin (Silenor®) Escitalopram (Lexapro®)		

Chat room

There are no chat messages yet. Write a message below to start chatting.

Write a message

Presenter: AL YAQOOBI,ALI

Navigation icons: back, forward, search, refresh, etc.

Presentation Quality: Normal

Settings, Help, and other utility icons.



# Future directions

- Development of clinical service line centered on pharmacogenomics
- Education undergraduate + graduate medical education, pharmacy, current faculty/staff
- National impact via clinical decision support design

# Future Directions

- Career development awards and merit awards based on current preliminary capabilities and data
- Healthcare analytics powerhouse
- Emerging therapy research