



THE UNIVERSITY OF ARIZONA  
MEL & ENID ZUCKERMAN COLLEGE OF PUBLIC HEALTH  
**Center for Rural Health**



# Arizona State Office of Rural Health Webinar Series

Today's presentation:

**Stopping Superbugs with Telehealth**  
*September 19, 2019*



# Arizona State Office of Rural Health Monthly Webinar Series

Provides technical assistance to rural stakeholders to disseminate research findings, policy updates, best-practices and other rural health issues to statewide rural partners and stakeholders.



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Thank you to our partners in delivering this webinar series:



ARIZONA  
TELEMEDICINE  
PROGRAM



# Webinar Tips & Notes



- Audience is muted during the presentation.
- Enter your questions into the chat box.
- Please fill out the post-webinar survey
- Webinar is being recorded
- Recording will be posted on the AzCRH [www.crh.arizona.edu/](http://www.crh.arizona.edu/) and SWTRC [www.southwesttrc.org/](http://www.southwesttrc.org/)

# Stopping Superbugs with Telehealth







# DR. KEVIN STEPHAN

DIRECTOR OF STRATEGY & PLANNING

Dual board-certified in Infectious Disease  
and Internal Medicine

23 years of patient care in the Air Force

Led HIV research program for the military

Long standing commitment to antibiotic  
stewardship





Delivering Infectious Disease Treatment Virtually

# What Are Superbugs?

And what is antimicrobial resistance?





# ANTIMICROBIAL RESISTANCE



**2,000,000 People**

Number of antibiotic-resistant infections annually

**\$18,588**

Estimated cost for in-patient treatment for antibiotic-resistant infection

**9 Days**

Increased hospital stay due to antibiotic resistance





At Least  
30%  
of Prescribed Antibiotics  
Are Unnecessary

# HOW DO WE FIX THIS?

Infectious Disease Specialists and Clear Processes





## Success Can Be Measured

**\$20,524**

SAVED

Amount we saved  
a SNF with  
antibiotic  
interchanges

**90%**

REDUCTION

In hospitalization  
due to ability to  
treat Sepsis in-  
house

**89%**

DECREASE

IV lines were  
reduced due to  
antibiotic  
interchanges from  
IV to oral

**ZERO**

CAUTIs

Catheter-  
associated UTIs  
were eliminated  
completely

Representative of 60 day period





# TELEHEALTH TO THE RESCUE!

Cue the superhero music





# 77% Of Patients Want Access To Virtual Care



## **Simple Technology**

Just need a smartphone or  
simple laptop with a webcam

## **Accepted by all Insurances**

Including medicare & medicaid

## **\$0 Cost to Facilities**

Specialists bill insurances directly



# FULL FACILITY INTEGRATION





# #1 Leadership Commitment

A change in culture requires full commitment  
and a champion to see it through.







Everyone needs to understand the cause and the intended impact

Everyone needs to understand the cause and the intended impact





## #3 Admissions Collaboration

Bring in higher acuity patients. Prevent unnecessary antibiotic orders.





## **#4 Update Testing Protocol**

Cut back on needless testing.







## **#5**

# **Antibiotic Guidance**

Before you prescribe, consult your ID provider.





## #6 Treat Patients Virtually

Schedule patient treatment directly with ID providers through video visits.







## #7 Discharge Follow Up

Schedule virtual ID follow up with the patient to check in on treatment progress.





## #8 Monitor, Report, Adjust, Repeat

You can't fix what you don't know is broken



# DOWNLOAD THE GUIDE

[www.eInfectionMD.com/teleidguide](http://www.eInfectionMD.com/teleidguide)





A top-down view of a workspace with a blue tint. In the center is a laptop displaying a website with a medical theme, including a stethoscope icon and text. To the right of the laptop is a black stethoscope. Below the stethoscope is a black smartphone. To the left of the laptop is a clipboard with a document and a pair of glasses. The word "Questions?" is written in large white letters across the center of the image.

# Questions?

 **eInfectionMD**  
[www.eInfectionMD.com](http://www.eInfectionMD.com)



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*Thank you! Be sure to save the date for  
Upcoming AzCRH Webinars*

Arizona Common Ground  
Krista R. Cardenas, MPH  
Thursday, October 17<sup>th</sup>, 2019, 12pm

**Your opinion is valuable to us.  
Please participate in this brief survey:**



[https://uarizona.co1.qualtrics.com/jfe/form/SV\\_cHot4w3TKIPqiMd](https://uarizona.co1.qualtrics.com/jfe/form/SV_cHot4w3TKIPqiMd)

This link will also appear when you exit the Webinar.

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<http://www.crh.arizona.edu/programs/sorh/webinars>

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