



AZ Infectious Disease Resource
a mobile app for AZ healthcare

July 27th, 2016

Arizona Infectious Disease Training and Exercise

Informatics Breakout Session

#AZID2016 #AZHEALTH



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans



New paper – photo by Yuichiro Chino

The New York Times

Monday, July 25, 2016 Today's Paper Video 90°F S. & P. 500 -0.43% ↓

World U.S. Politics N.Y. Business Opinion Tech Science Health Sports Arts Style Food Travel Magazine T Magazine Real Estate ALL

ELECTION 2016

In Hacking, Russia Accused of Playing in U.S. Politics

By DAVID E. SANGER and NICOLE PERLROTH

• Forensic evidence suggests Russian intelligence agencies were behind the release of 20,000 emails from the Democratic National Committee.

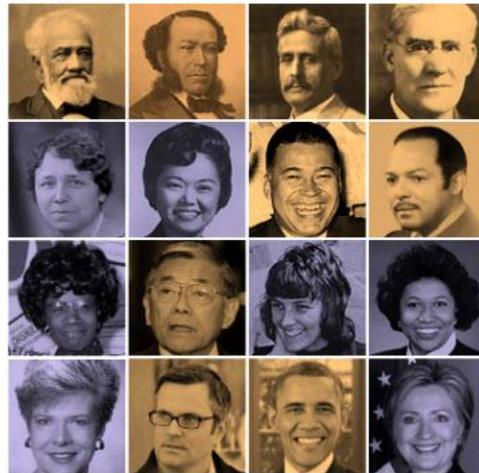
• Hillary Clinton's campaign manager argued that the emails were leaked "by the Russians for the purpose of helping Donald Trump."

617 Comments

Ego Clashes Exposed in Leaked Emails

By MICHAEL M. GRYNBAUM

The documents released by WikiLeaks also offered an evocative glimpse of



Clinton Broke One Glass Ceiling. When Were Others Broken?

A look at some of the milestones when women and minorities were first elected to federal, state and local government.

By KAREN YOURISH, LARRY BUCHANAN and ADAM PEARCE

Democratic Convention: What to Watch For on Day 1

How Can Hillary Clinton Sell Herself to Voters Who

The Opinion Pages

DAVID LEONHARDT

What Hillary Clinton Needs

She can't escape her weaknesses. But as with George Bush in 1988, her convention can take them on.



- Collins: Behind Hillary's Mask
- Room for Debate: Is Tim Kaine the Right Choice for Clinton?
- Join us on Facebook »

OP-ED CONTRIBUTOR

Philly Is Hillary's Kind of Town

By JENNIFER WEINER

This is a city where a battered contender can hit her stride.



- Blow: More Damned Emails
- Cohen: Trump and the End of Truth
- Krugman: Delusions of Chaos

TIMES INSIDER »

Sports Reporter Cries Foul When Own Son's Youth League Is Bilked

THE CROSSWORD »

Play Today's Puzzle



4h An exhibit at the Isle of Wight Zoo in England features 20 examples of **feces from different animals**, including pigeons, meerkats and lions.



5h Goat-milk Popsicles. Frozen watermelon. Tiny shoes. New Yorkers go to great lengths to **keep their dogs cool in the summer heat**.



6h After a woman got out of her car in a Beijing animal park and was **mauled by a tiger**, her mother also left the car and



Over **2 million** apps are available in the Apple App Store and Google Play and over **1000** new apps are added each day.

REPORT
OF THE
HEALTH
DEPARTMENT
OF
THE PANAMA
CANAL

1941
TO
1947

GORGAS
MEMORIAL
LABORATORY

MALARIA
IN
PANAMA

SIMMONS
AND OTHERS

WC 750
Sim
1939

THE
JOHNS HOPKINS
PRESS

STORY
OF THE
ELBOW
WRIGHT
ACADEMY

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40 Years of Tropical Medicine Research

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40 Years of Tropical Medicine Research

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Wright

RECORD
THE
BIOMEDICAL
LIBRARY
RECORD
OF THE
G.M.L.
PUBLICATIONS
1930-1974
PLUS NEW
ADDITIONS

J. LANE

NEOTROPICAL
CULICIDAE

VOL. I

1933

MAMMALS
OF
PANAMA

GOLDEN

GORGAS
MEMORIAL
LABORATORY

WC 100
Mar

QL 708
G-1
1930

WZ.100
Mar

COLLECTED
GORGAS



HEALTH
A-Z

DRUGS &
SUPPLEMENTS

LIVING
HEALTHY

FAMILY &
PREGNANCY

NEWS &
EXPERTS

SEARCH



WebMD Home > A to Z Guides > Common Topics

Email a Friend

Healthy A-Z Guides

- Health A-Z Home
- Community A-Z
- Drugs A-Z
- First Aid A-Z
- Health Games A-Z
- Living Healthy
- Medical Tests & Tools A-Z
- Slideshows, Quizzes, & Assessments A-Z

Health A-Z

Common Topics

Health A-Z

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Acid Reflux

ACL Injuries

Acne

Acoustic Neuroma

Acute Lymphoblastic Leukemia

Acute Myeloid Leukemia

Acute Renal Failure

ADD/ADHD

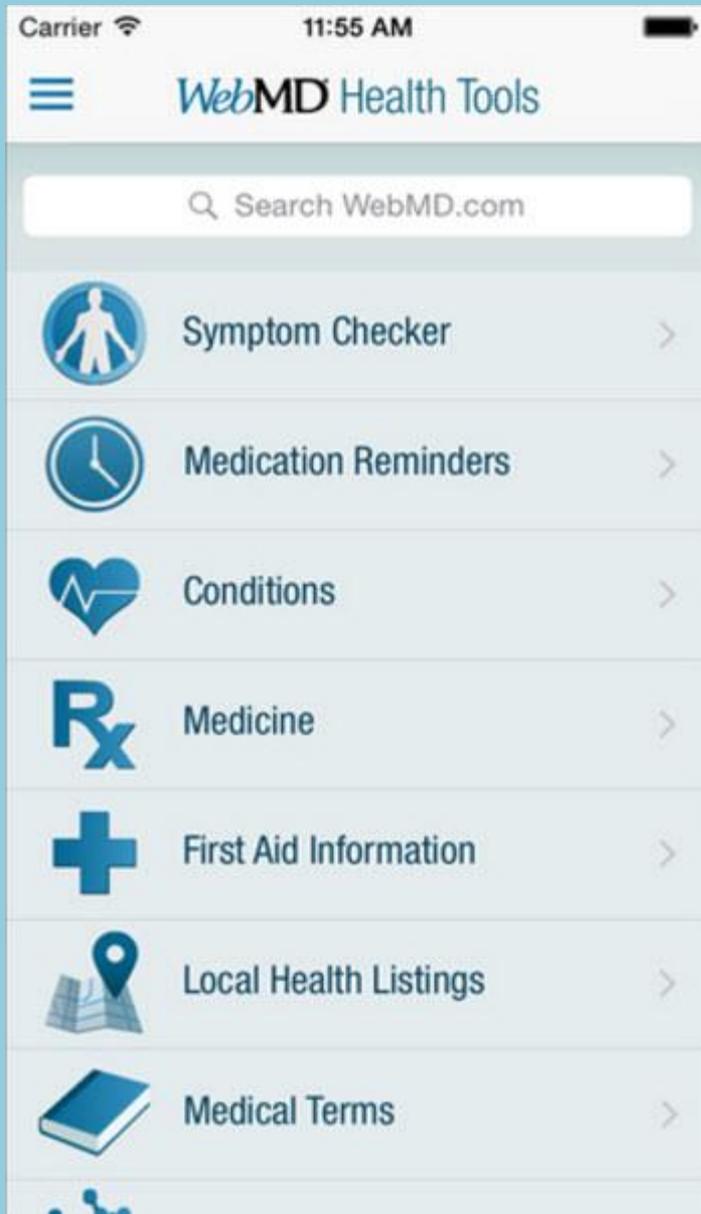
ADHD in Children

Addiction and Substance Abuse, Adult

Addiction and Substance Abuse, Teen

Hot Topics

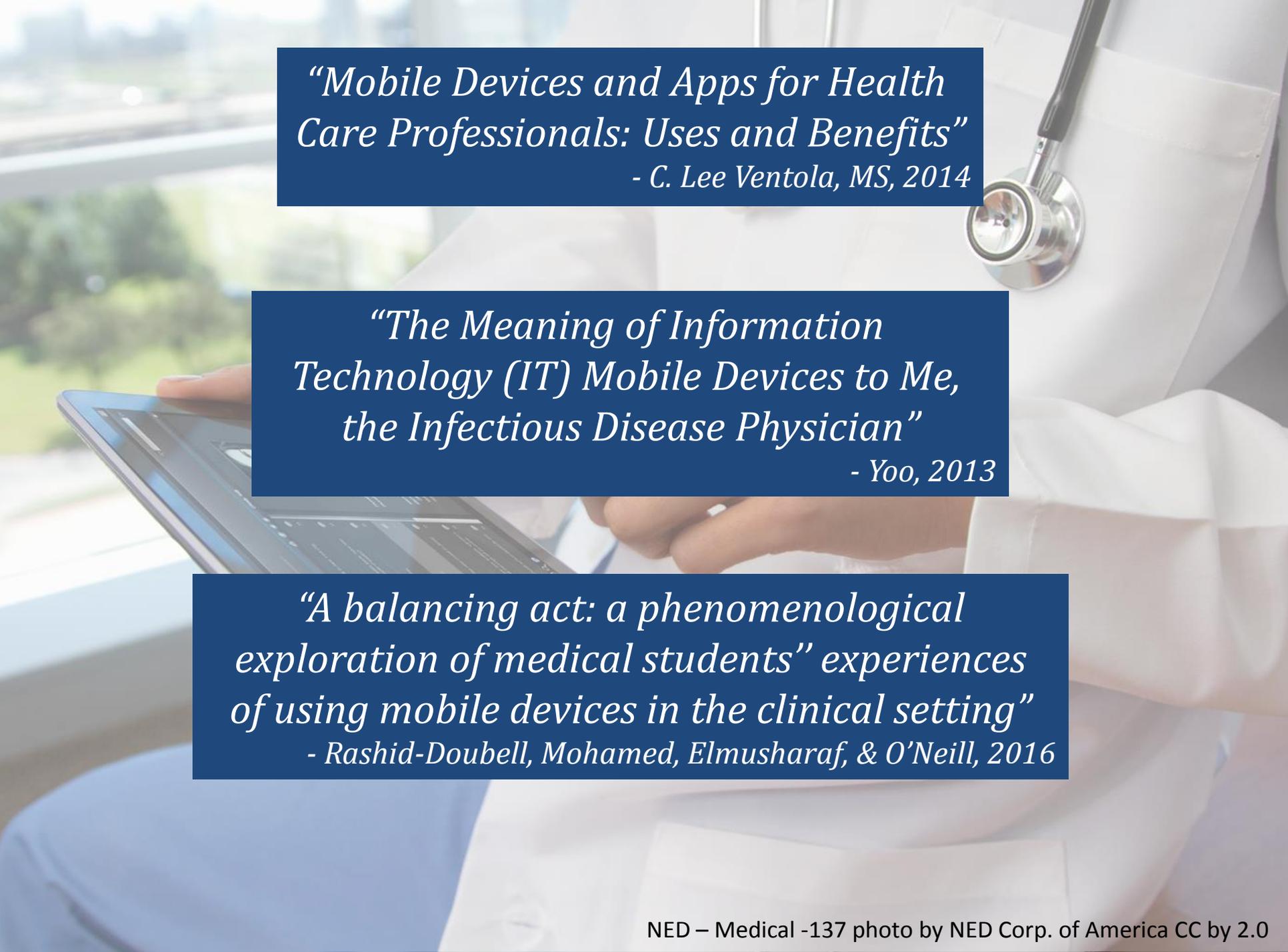
- ADHD: Causes and Symptoms
- 17 Possible Side Effects Of Targeted Therapy
- 3 Signs You Need Radiation For Myeloma
- Taming a Tummyache
- 5 Types of Stem Cell Transplants
- 7 Signs Your Baby Is Really Sick
- Type 1 Diabetes Quiz
- Video: How Insulin Lowers Blood Sugar
- Slow Male-Pattern Balding By Quitting Smoking
- Take the ADHD Assessment



Apps in the medical category account for approximately

2%

of total apps available
In the Apple App Store



*“Mobile Devices and Apps for Health
Care Professionals: Uses and Benefits”*

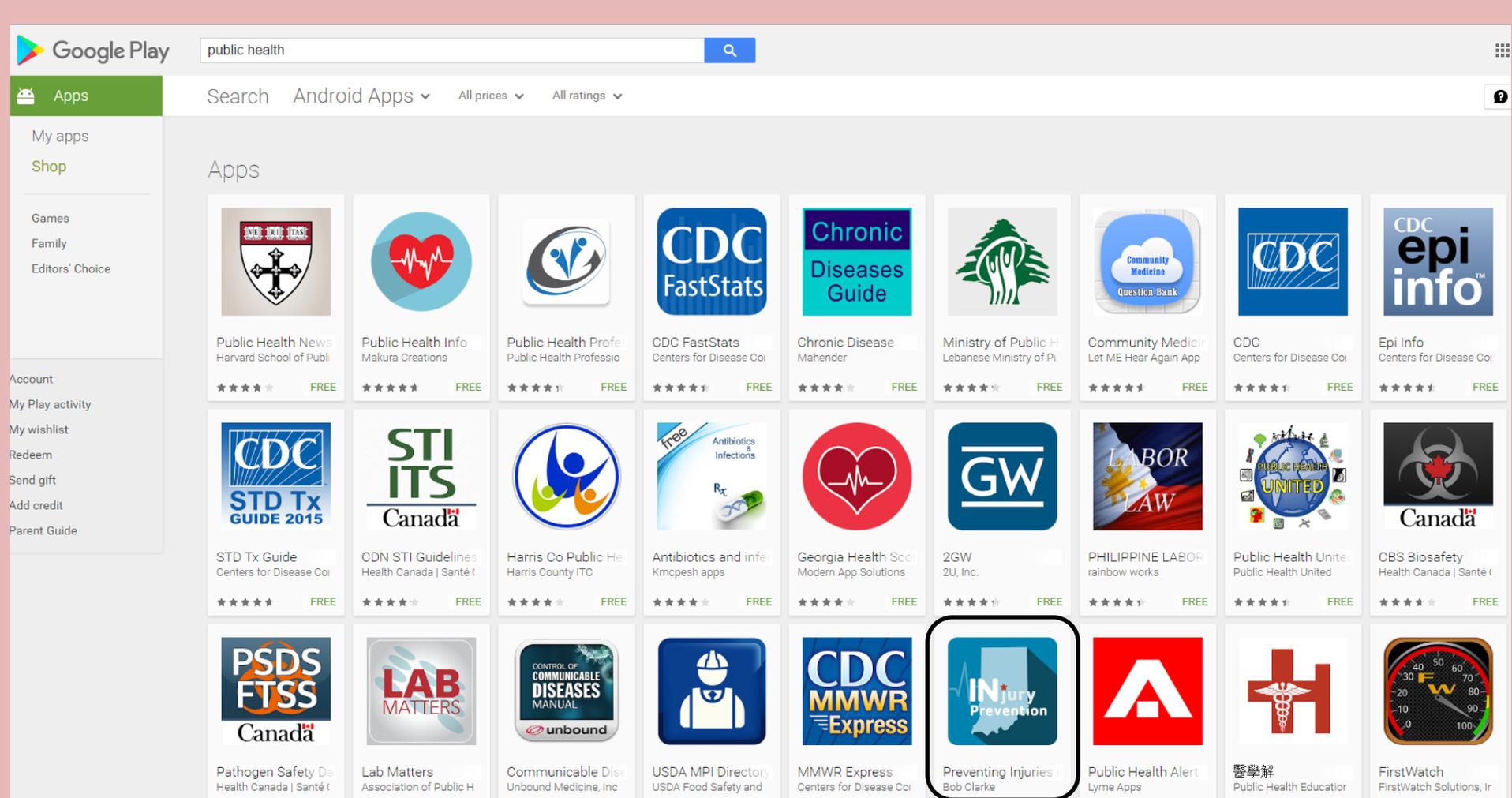
- C. Lee Ventola, MS, 2014

*“The Meaning of Information
Technology (IT) Mobile Devices to Me,
the Infectious Disease Physician”*

- Yoo, 2013

*“A balancing act: a phenomenological
exploration of medical students” experiences
of using mobile devices in the clinical setting”*

- Rashid-Doubell, Mohamed, Elmusharaf, & O’Neill, 2016



There are a few public health related apps available...but even fewer state specific public health apps



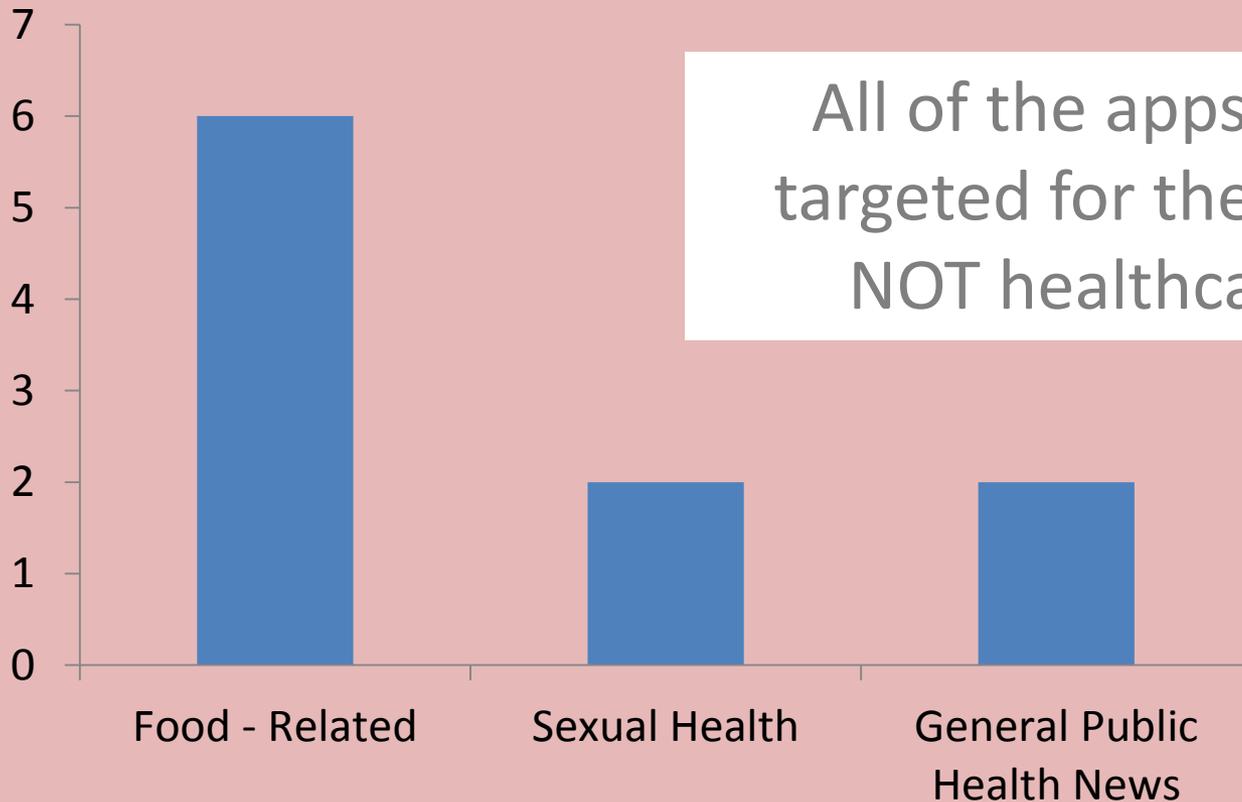
Slideshow: 10 apps from public health departments

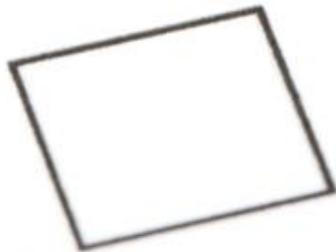
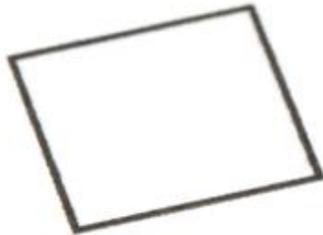
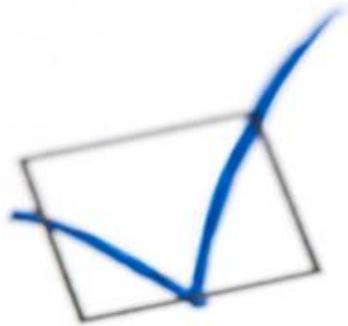
By **Aditi Pai** | August 27, 2013

SHARE 17



All of the apps described are targeted for the general public, NOT healthcare providers.





- Easy to use
- Quick to update
- Push notifications directly to users
 - Accessible
- Available offline

Create Your Perfect App With Ease



Mobile Roadie unites app creation and mobile marketing in one powerful solution, empowering you to build a customized app in no time and update it on the fly.

Get Started

 iOS (iPhone, iPad)

 Android



TEDx



CIRQUE DU SOLEIL

Create Your Perfect



Get Started

iOS (iPhone, iPad)

Android



APP DOWNLOADS ?

[Download CSV](#) ▼

time frame

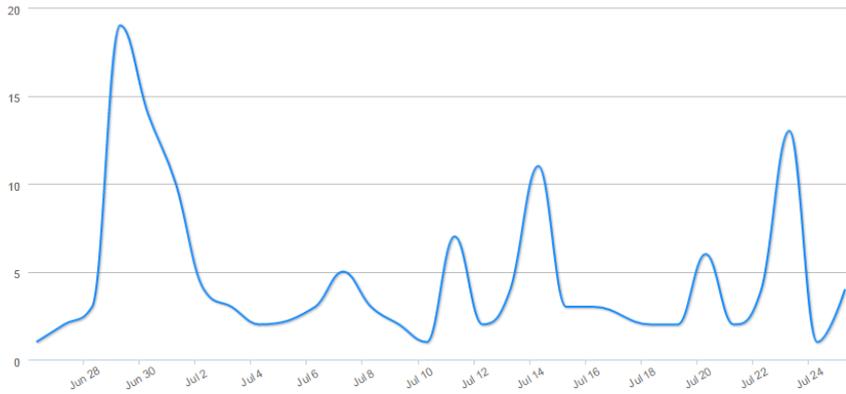
Past Month (30 days) ▼

results

136 downloads

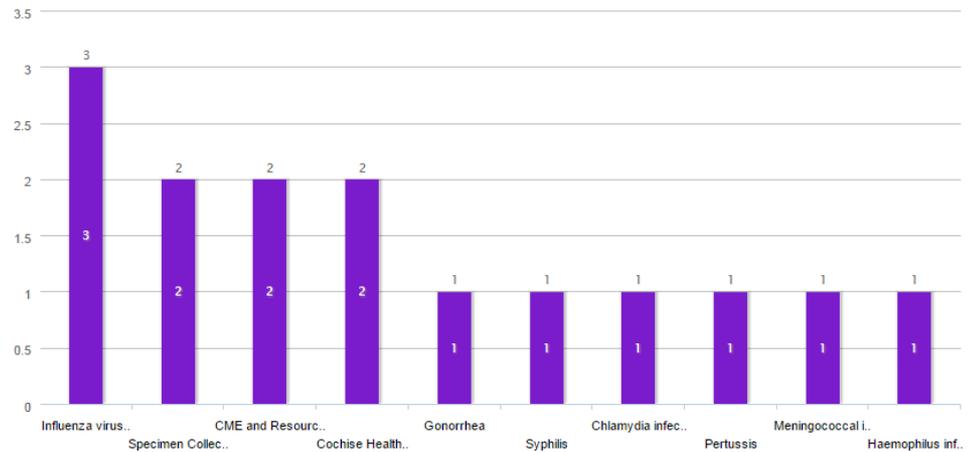
trending

▲ 126.7%



POPULAR CONTENT ?

[Download CSV](#) ▼







color and costumes

ADHS Content Development & Project Management

- All of our amazing EDC epis and managers
 - Susan Robinson & Rosa Lira
 - Lisa Villarroel
 - Christine Wampler

ADHS IT Support

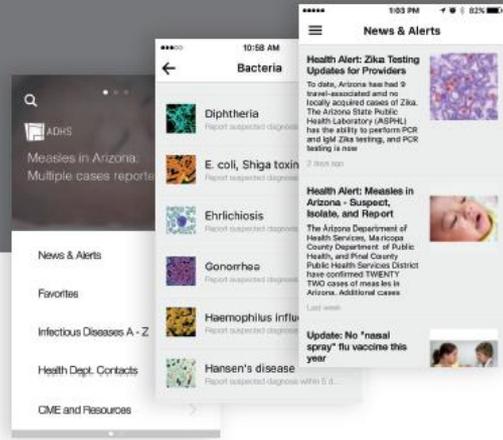
- Design – Richard Gledhill
- Project Mgmt – Nita Surathu & Joseph Dick
- QA – Asha Balachandran

Mobile Roadie Team

- Marinda Dircks
- Nick Bishop



AZ Infectious Disease Resource



IDAZ is a mobile app for Arizona healthcare providers to get the latest news and public health recommendations about infectious diseases in the state.



Receive **alerts** with public health updates



Search for **public clinics, FQHCs, and RHCs** in your area



Look up infectious disease info, including **AZ specific statistics and testing recommendations**



Contact your local public health department with **1-click**



Find **public health events and CME** in your area

Download for free today!



Come check out IDAZ and other public health apps at the App Station!

IDAZ Posters and Brochures also available

Have questions, problems, or feedback? Reach out to us at IDAZ@azdhs.gov | www.azhealth.gov/idaz
Prefer e-mailed health alerts? Sign up for the AZ Health Alert Network here: <https://han.health.azdhs.gov>



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THANK YOU

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IDAZ@azdhs.gov



ARIZONA DEPARTMENT
OF HEALTH SERVICES

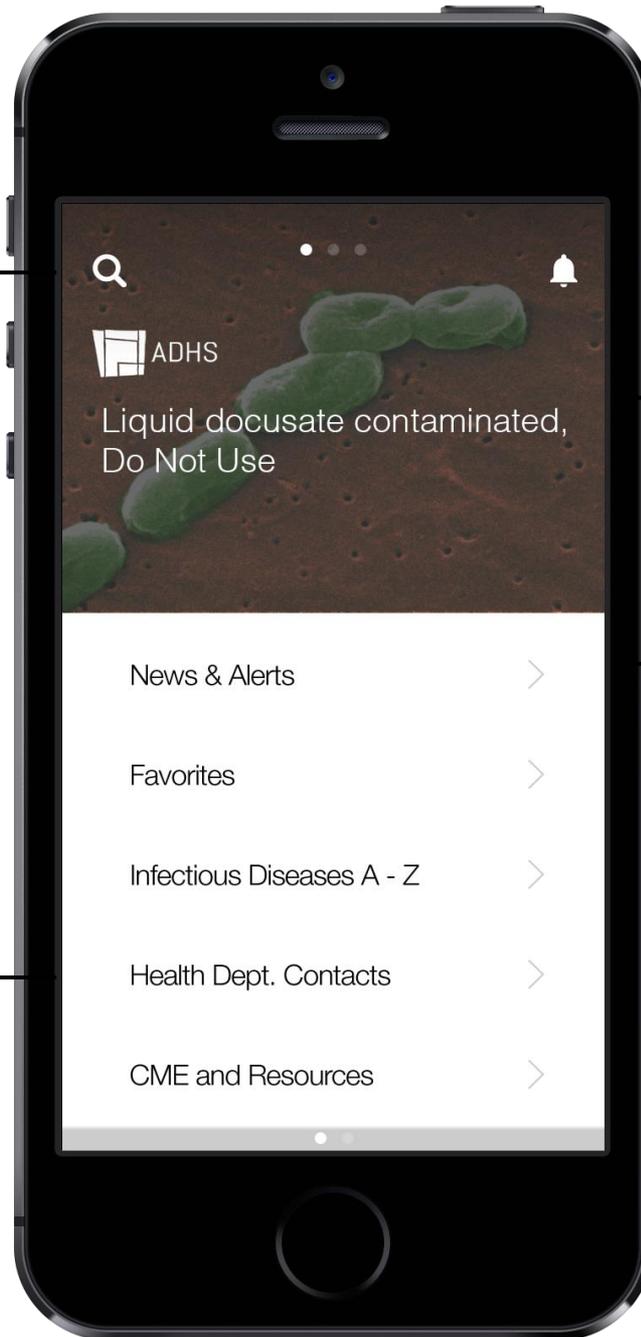
Health and Wellness for all Arizonans



AZ Infectious Disease Resource

Additional Screenshots

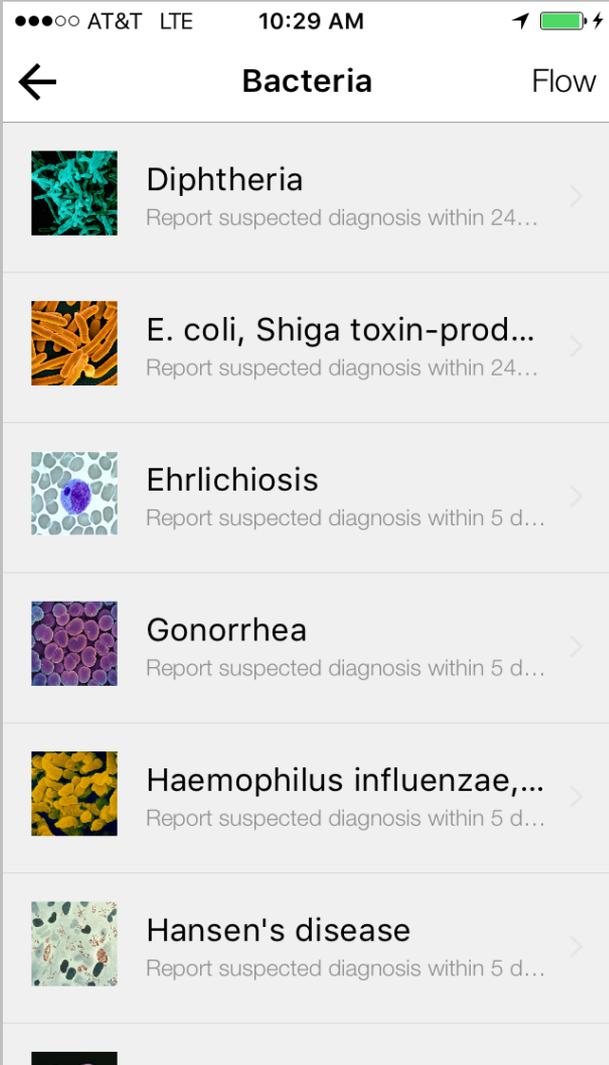
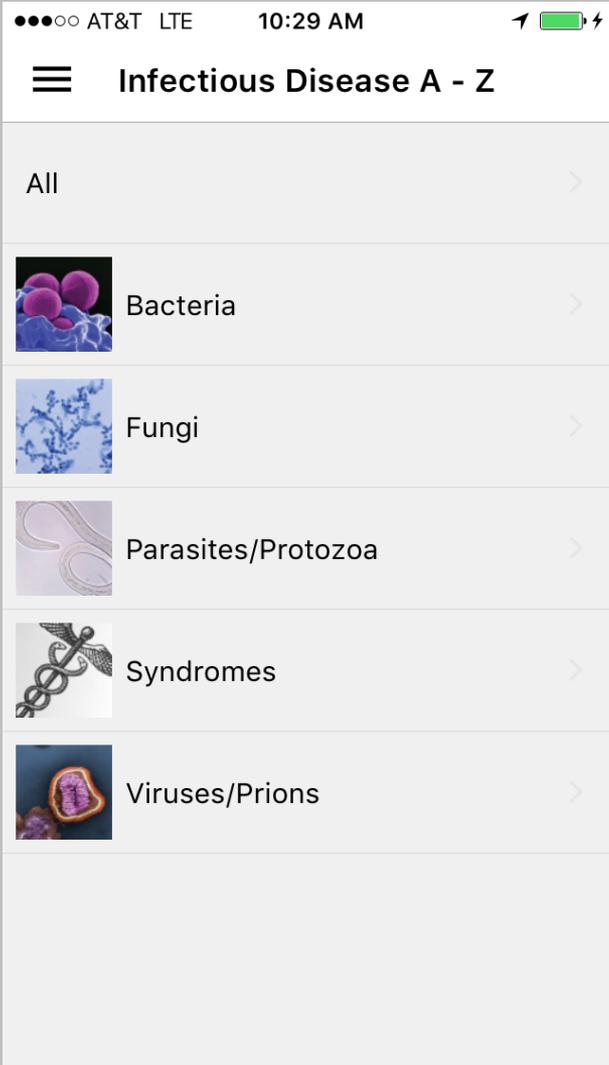
Global search
functionality



Scrolling feature
boxes to highlight
newest updates
or alerts

Health alerts and Arizona
specific infectious disease
news and events

Direct link to public
health, including
contact information
and 24/7 reporting
numbers





Guidance for reporting cases according to Arizona Administrative Code

Disease icons for quick reference:

- Primary Transmission mode
- Endemic to AZ vs. Travel Associated
- Vaccine available in the U.S.
- Bioterrorism Agent



Legionellosis is a respiratory disease caused by *Legionella* bacteria. If the bacteria cause pneumonia, the condition is called Legionnaires' disease. If the bacteria cause a less serious infection that presents like a mild case of flu, the condition is called Pontiac fever.

Disease Specific Information including Arizona 5 year medians, testing recommendations, and additional resources

Providers shall submit a report that includes the following information

Patient Information

- Name
- Residential and mailing addresses
- County of residence
- If the individual is living on a reservation, the name of the reservation
- Telephone number(s)
- Date of birth
- Race and ethnicity
- Gender
- If known, whether the individual is pregnant
- If known, whether the individual is alive or dead
- If known, the individual's occupation

Disease Information

- The name of the disease (Morbidity)
- The date of onset of symptoms
- The date of diagnosis

Educational Materials

ADHS offers free print materials to help healthcare providers educate their patients about infectious diseases. Order materials using the [Office of Infectious Disease Ordering Form](#) and materials will be mailed to your office.

Free Continuing Medical Education (CME) Credits

These CME courses are designed to improve physician knowledge and performance and are available at no cost. Please see available courses below:

- [Valley Fever: Timely Diagnosis, Early Assessment, and Proper Management](#)
- [Rabies Postexposure Prophylaxis \(PEP\) Basics: Risk & Prevention](#)
- [Documenting Cause of Death](#)
- [Medical Marijuana](#)
- [Centers for Disease Control & Prevention Online Continuing Medical Education](#)

Specimens for Bacteriology

See disease specific guidelines

Specimens for Serology

Blood	Collect 10-15 mL in a lavender top vacutainer with EDTA anticoagulant and do not freeze. Store sample refrigerated.
Serum	Collect 2-3 mL in a red top, tiger top, or gold vacutainer. Store sample refrigerated.
CSF	Pleural or joint fluid, collect 2 mL and do not freeze. Store sample refrigerated.
Urine	Collect 10-20 mL. Store sample refrigerated

Specimens for Virology

	Store at 4°C and if testing cannot be performed within 72
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Public Clinics, FQHCs, and RHCs by County

