ANTIMICROBIAL STEWARDSHIP SOFTWARE SOLUTIONS

Medici®

Implementation Partner Program

Asolva

Antimicrobial Resistance In the News

CNN health
Food Fitness Wellness Parenting Vital Signs

Every 15 minutes, someone in the US dies of a drug-resistant superbug

By Elizabeth Cohen and Nadia Kounang, CNN
Updated 3:52 PM EST, Sat November 16, 2019

Medical Xpress

FINANCIAL TIMES

COMPANIES TECH MARKETS CLIMATE OPINION WORK & CAREERS LIFE & ARTS HOW TO SPEND IT

Health: Future of Antibiotics

Opinion Antibiotic resistance

The silent pandemic of antibiotic resistance

A South African doctor's prescription to stop poorer countries losing access to many of modern medicine's advances

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Home / Medical research

JANUARY 19, 2021

Oxford given £100m for antibiotic resistance research

INSIDER

Antibiotic overuse in children's hospitals is leading to more 'superbug' infections in kids

Kelly Burch Jan 19, 2021, 8:37 AM

Washington University School of Medicine in St. Louis

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NEWS RELEASE

1 in 4 kids who get antibiotics in children's hospitals are prescribed the drugs incorrectly

Overuse contributes to dangerous drug-resistant bacteria

by Kristina Sauerwein • January 28, 2020

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NEWS / CITY NEWS / CHANDIGARH NEWS / ANTIMICROBIAL RESISTANCE HURTING GLOBAL WAR AGAINST COVID-19: CHANDIGARH DOCTORS

Antimicrobial resistance hurting global war against Covid-19: Chandigarh doctors

National and Global Health Support
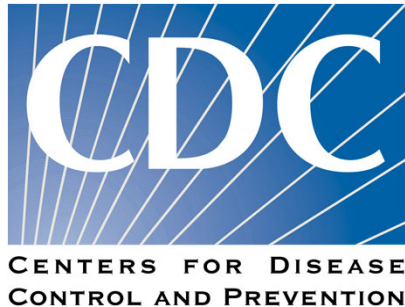
More than 2.8 million antibiotic-resistant infections occur in the United States each year, and more than 35,000 people die as a result.

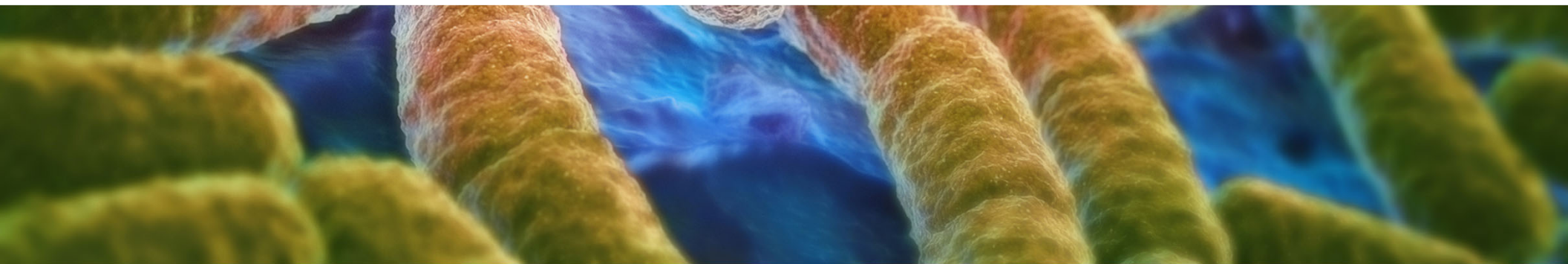*Antibiotic Resistance Threats in the United States 2019*, CDC

WHO has declared that AMR is one of the top 10 global public health threats facing humanity.

Antimicrobial Resistance Key facts, 13 October 2020, World Health Organization (WHO)
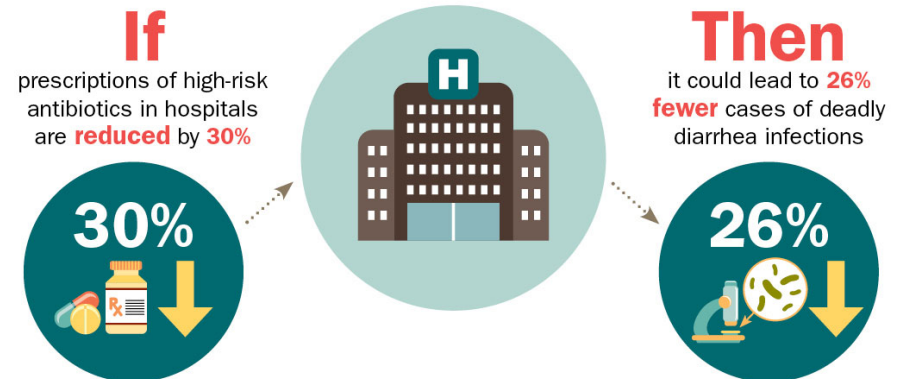
Antimicrobial Resistance: Simplified

✓Antibiotics are common treatment for infections

✓Inappropriate antibiotics prescribing causes resistance

✓Global health issue

✓Solvable: Takes discipline to manage antibiotics therapy

✓**Information systems can help in the hospital setting**

Opportunity for Information Systems

CDC strategies that work in healthcare:

- Preventing device- and procedure-related infections, such as from urinary catheters or central lines ✓
- Stopping the spread of resistant germs within and between healthcare facilities ✓
- Containing emerging threats through early detection and aggressive response ✓
- Tracking and improving appropriate antibiotic use ✓
- Infection prevention and control in non-hospital settings, such as long-term care facilities ✓

Antibiotic Rx for Hospitals
Proceed with Caution

If prescriptions of high-risk antibiotics in hospitals are **reduced** by **30%**

30%

Then it could lead to **26% fewer** cases of deadly diarrhea infections

26%

SOURCE: CDC Vital Signs. March 2014. www.cdc.gov/vitalsigns.

Established Guidelines

CDC

Hospital Leadership Commitment
Dedicate necessary human, financial, and information technology resources.

Accountability
Appoint a leader or co-leaders, such as a physician and pharmacist, responsible for program management and outcomes.

Pharmacy Expertise (previously "Drug Expertise"):
Appoint a pharmacist, ideally as the co-leader of the stewardship program, to help lead implementation efforts to improve antibiotic use.

Action
Implement interventions, such as prospective audit and feedback or preauthorization, to improve antibiotic use.

Tracking
Monitor antibiotic prescribing, impact of interventions, and other important outcomes, like *C. difficile* infections and resistance patterns.

Reporting
Regularly report information on antibiotic use and resistance to prescribers, pharmacists, nurses, and hospital leadership.
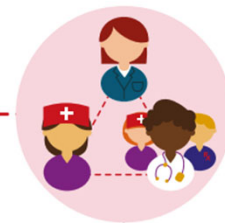
Education
Educate prescribers, pharmacists, nurses, and patients about adverse reactions from antibiotics, antibiotic resistance, and optimal prescribing.

WHO

Leadership commitment

Accountability & responsibilities

AMS actions

Education & training

Monitoring & surveillance

Reporting & feedback

https://apps.who.int/iris/bitstream/handle/10665/329404/9789241515481-eng.pdf
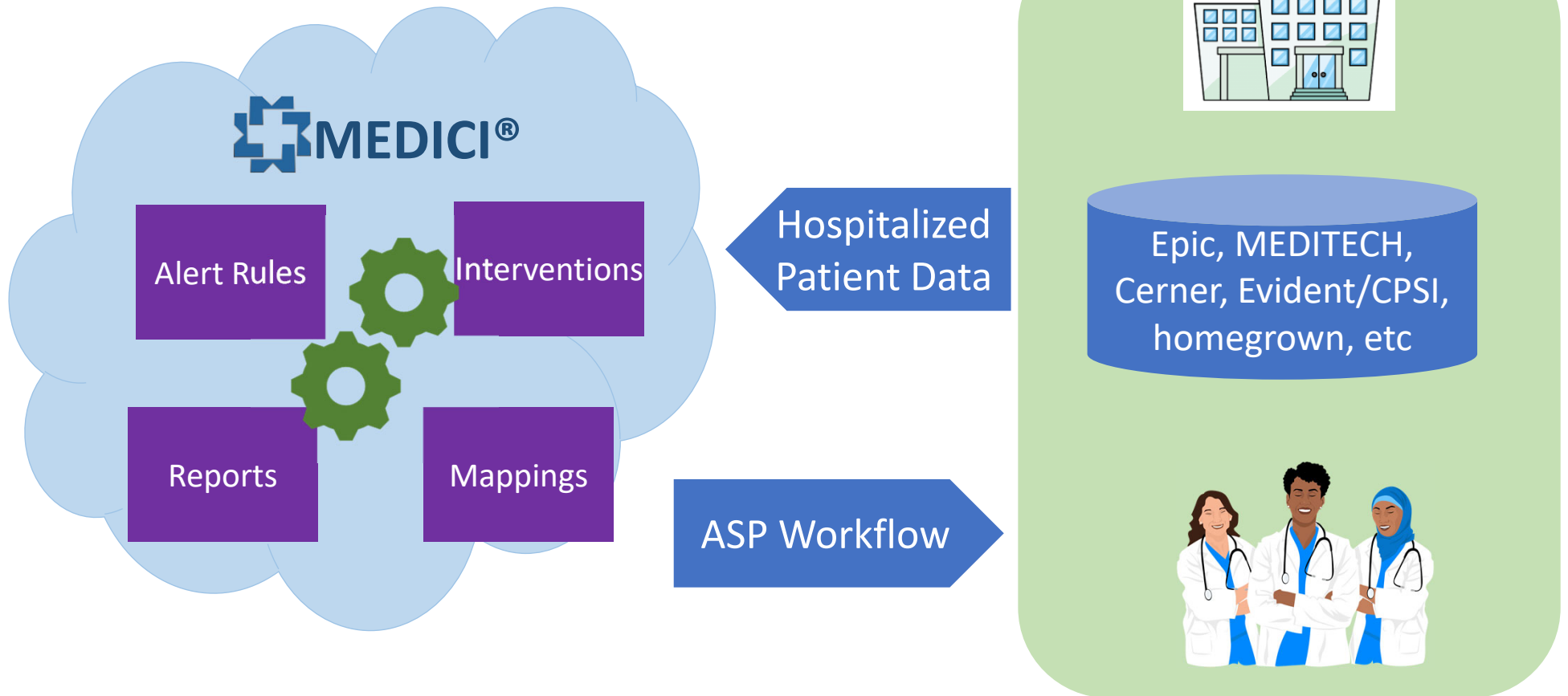
Target Hospital Audience

- Antimicrobial Stewardship Team Leaders
- Hospital Infectious Disease Physicians
- ASP/Infectious Disease Pharmacists
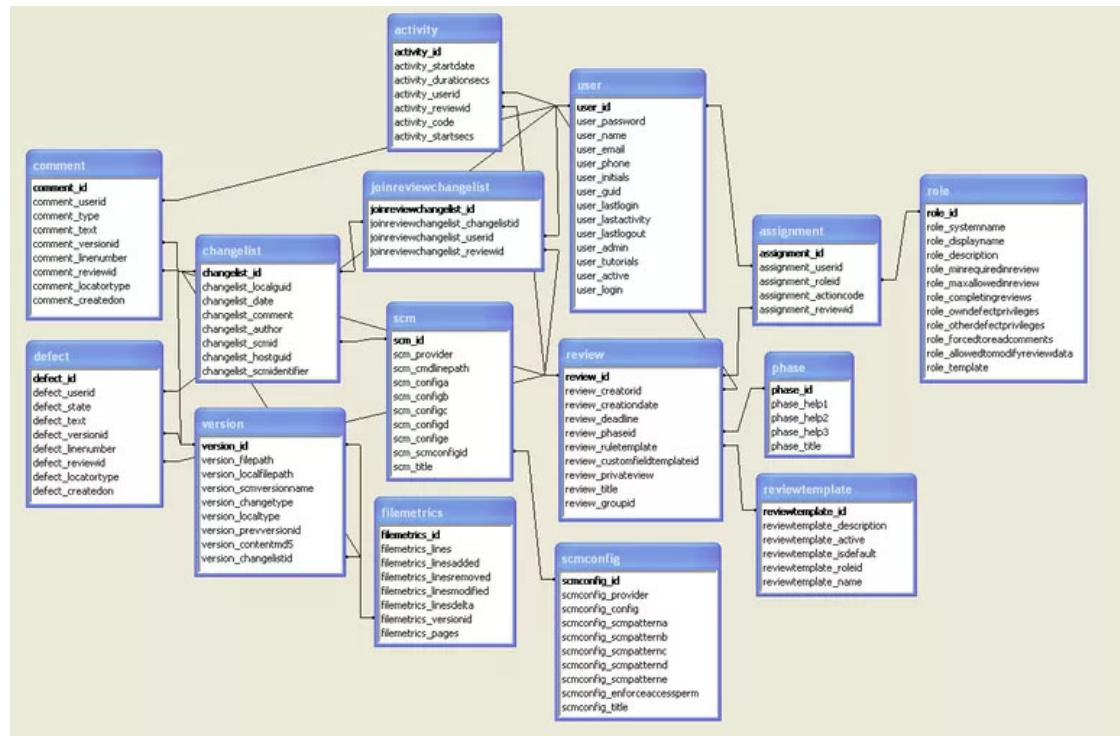- Infection Preventionists

Using **MEDICI** to follow ASP Best Practice: CDC Core Elements

Action
Implement interventions

Tracking
Monitor medication orders for continued appropriateness

Reporting
Report on antibiotic use and resistance patterns

MEDICI® Cloud Architecture

Data Elements

- Hospital Encounters
- Patient Demographics
- Medication Orders
- Lab Results
- Microbiology Tests
- Allergies
- Diagnoses

CDC
CENTERS FOR DISEASE
CONTROL AND PREVENTION

CDC Centers for Disease Control and Prevention

Search 🔍

NHSN CDA Submission Support Portal (CSSP)

Vendors that have Passed the AU SDS Validation

Beginning in January 2020, NHSN will list vendors that have passed Antimicrobial Use Synthetic Data Set (AU SDS) Validation below:

As a vendor neutral, federal program, NHSN does not endorse any AU CDA vendors. Rather the list below will inform current and prospective customers of vendor services and successes with respect to the NHSN AU Option SDS validation. It may take up to two months for this webpage to be updated with passing vendor information.

**NHSN will require validation for all AU CDA vendors beginning in 2021.**

Please refer to the AU Synthetic Data Set Validation website for information describing the AU SDS, the validation process, and FAQs.

Vendor Name	Vendor Software	Software Version/ Release	Date Passed Validation
Asolva, Inc 🔗	Medici	3	1/15/2020
Asolva, Inc 🔗	Medici	5	2/19/2020

Asolva's Commitment to ASP

The AMR Challenge
Number of Commitments by Country
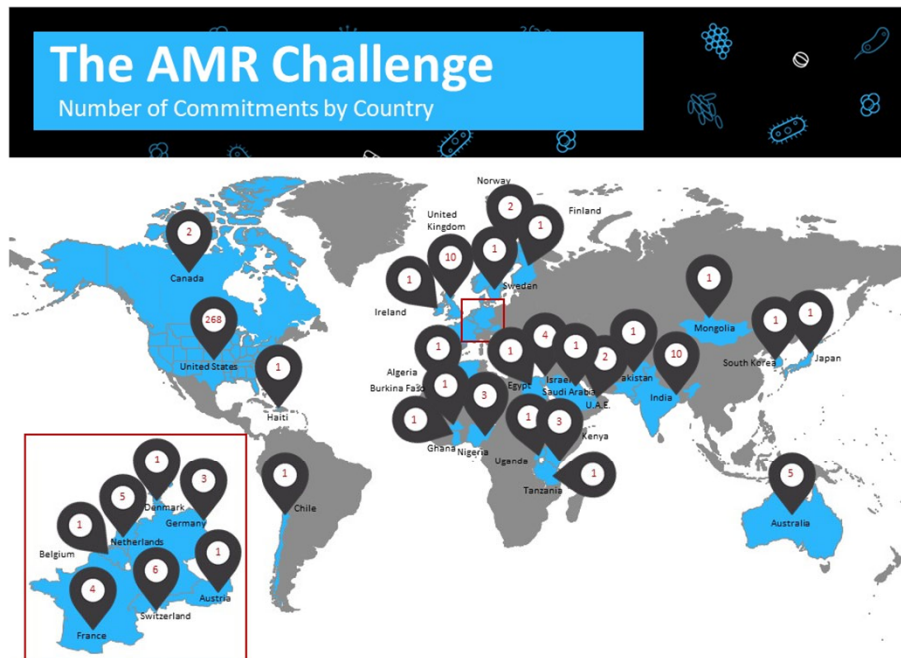
Asolva, Inc. (California, U.S.)
Having served as IT professionals in healthcare for nearly 20 years, Asolva, Inc. commits to work with public health agencies to enable antibiotic use reporting at any health care facility regardless of size, geography, infrastructure, and resources. Asolva aims to partner with state health departments to expand antibiotic use reporting to CDC's National Healthcare Safety Network with the use of their reporting technology that will work with any hospital for a low cost.

https://www.cdc.gov/drugresistance/intl-activities/amr-challenge.html

Using Synthetic Data to Enhance Antimicrobial Use Data Quality within the National Healthcare Safety Network

Wendy L. Wise, MPH, PMP[1,2]; Senthil K. Nachimuthu, MD, PhD, FAMIA[3,4]; Joseph Chuong, MS[5]; Jay P Kim, RPh, MBA[6]; Shuai Zheng, PhD[1]

[1]Division of Healthcare Quality Promotion, Centers for Disease Control and Prevention, Atlanta, GA; [2]Lantana Consulting Group, East Thetford, VT; [3]IDEAS Center, VA Salt Lake City Healthcare System, Salt Lake City, UT; [4]Division of Epidemiology, Department of Internal Medicine, University of Utah School of Medicine, Salt Lake City, UT; [5]Asolva, Pasadena, CA; [6]Cerner Corporation, Kansas City, MO

Abstract

The Centers for Disease Control and Prevention's (CDC) National Healthcare Safety Network (NHSN) Team partnered with the Veterans Affairs (VA) Informatics, Decision-Enhancement and Analytic Sciences (IDEAS 2.0) Center at the VA Salt Lake City Health Care System to create an Antimicrobial Use (AU) synthetic data set (SDS) and a vendor software validation process. NHSN will require all vendor systems electronically submitting AU data to NHSN be validated by January 2021 using the AU SDS.

The panel will provide an overview of the AU SDS and validation process along with a discussion of challenges faced including lessons learned during the implementation of this unique validation effort for NHSN data. Panelists will speak about the motivation, insights and methods behind the AU SDS and the validation process. Additionally, two vendors that have successfully completed the AU SDS validation process will share their experiences completing the validation process.

https://www.amia.org/summit2021/panels

![SIDP — Society of Infectious Diseases Pharmacists logo]

AUR Vendors

The CDC's National Healthcare Safety Network (NHSN) Antimicrobial Use and Resistance (AUR) Module provides a mechanism for facilities to report antimicrobial use and/or resistance data. The following vendors have expressed interest in providing services and software that will allow participating in the AUR Module through direct reporting. Click HERE to download a copy.

Membership gives you more

- Access exclusive opportunities
- Connect with colleagues
- Attend networking events

JOIN TODAY

Vendor Name	Vendor Contact	Contact E-mail/URL	Actively Reporting Antimicrobial Use	Actively Reporting Antimicrobial Resistance
Asolva, Inc.	Chun Wong	cwong@asolva.com	Yes	Yes

Partner Opportunity

- **Consulting revenue**
  - Develop data interface
  - Local infrastructure setup
  - Technical liaison
  - Reports development
- **Co-marketing**
  - Leverage Asolva references
  - Asolva assists with sales cycle
- **Training and support**
  - Implementation toolkit
  - Remote support