

RURAL **HEALTH** WORKSHOP

Advancing Antibiotic Stewardship: Louisiana Critical Access Hospitals Share Their Work



Speakers

- Rochelle Schultz Spinarski, MPA
 - President and Principal
 - Rural Health Solutions
- Donney Goutierrez, RPH
 - Director of Pharmacy
 - Bayou Bend Health System



Speakers

- Amanda Howard, RPH
 - Director of Pharmacy Services
 - Hardtner Medical Center
- Darra Jung, BSN, RN, CCRN-K
 - Director of Nursing
 - Union General Hospital



Louisiana State Office of Rural Health Medicare Rural Hospital Flexibility (Flex) Program



ADVANCING ANTIBIOTIC STEWARDSHIP: LOUISIANA CRITICAL ACCESS HOSPITALS
SHARE THEIR WORK



Panel Presentation

Rochelle Spinarski, Rural Health Solutions, St. Paul, MN and LA Flex Program Team Member

Amanda Howard, Pharmacist, Hardtner Medical Center, Olla, LA

Darra Jung, Director of Nursing, Union General Hospital, Farmerville, LA

Donney Goutierrez, Pharmacist, Bayou Bend Health System, Franklin, LA



Overview

All hospitals in the U.S. are charged with advancing antibiotic stewardship under the leadership of the Centers for Disease Control and Prevention (CDC). Three CAHs are using Flex Program funding to take on the challenge.

BACKGROUND

The Louisiana Medicare Rural Hospital Flexibility (Flex) Program works with Critical Access Hospitals (CAHs) in the state to report and improve antibiotic stewardship program (ASP) processes. This work is done as part of the state's Medicare Beneficiary Quality Improvement Project (MBQIP) using data from MBQIP Reports, annual LA Flex Program QI needs assessments, and QI Roundtable and 1:1 discussions with CAH QI Teams. Each year, hospitals throughout the U.S. complete and submit an Annual Facility Survey (AFS) to the Centers for Disease Control and Prevention (CDC). Amongst other things, the survey asks questions about the hospital's antibiotic stewardship policies, procedures and processes. Since 2019, AFS data for each ASP related survey response have been obtained and reported annually to the Louisiana Flex Program to support its CAH ASP reporting and improvement efforts. These data and the AFS were used to guide cohort planning and discussions.



Annual Facility Survey

- Completed by March 1 of each year
- Submitted to NHSN at the CDC: [NHSN | CDC](#)
- Patient Safety Component, Antibiotic Stewardship Practices start at Q40
- Responses reflect status for prior calendar year
- Components:
 - Facility Leadership
 - Policies and Procedures
 - Interventions
 - Education (staff, providers, and patients)
 - Lab
 - Oversight



[2022 Patient Safety Annual Hospital Survey Form \(cdc.gov\)](#)

LA Flex Program PROJECT AIMS

1) Continue to increase the number of CAHs completing and submitting the AFS & engage CAHs in ASP improvement.

2) Increase the LA Flex Program's awareness of CAH ASP activities in the state.

3) Understand and develop CAHs' capacity towards improving their commitment to antibiotic stewardship communication.

- Measure: absCommitCommun
- Measure Definition: Communicating to staff about stewardship activities via email, newsletters, events, or others.

4) Understand and develop CAHs' capacity towards improving their commitment to antibiotic stewardship training.

- Measure: absCommitTrain
- Measure Definition: Providing opportunities for staff training and development on antibiotic stewardship.

PROJECT DESIGN/METHODS

All CAHs in Louisiana (27) – AIM: Engage all CAHs and keep them informed so AFS reporting continues to increase and all CAHs benefit from cohort efforts.

- 1) Share ASP data, trends, successes and challenges and provide information on the ASP improvement projects and its aims.
- 2) Share project updates, successes, and challenges as well as changes, outcomes, and any policies, procedures or tools developed through the cohort.

Louisiana CAH ASP Improvement Cohort (4) – AIM: Target two ASP AFS measures with a small group of CAHs that reported in prior years and have a strong interest in advancing their ASP.

- 1) Engage up to six CAHs in cohort activities towards improving ASP AFS measures; four CAHs participated.
- 2) Focus on measures that reflect data but also CAH interests.
- 3) Build CAH QI capacity by educating CAHs on QI and lean process improvement methods and integrate these methods into the cohort's learning, work and discussions.
- 4) Meet 1:1 with each CAH cohort participant team at project start and end to understand and document needs, capacity, aims, and current understanding of their processes, and gather evaluation data.
- 5) Provide up to \$5,000 in project support to advance hospital-specific improvement efforts and up to \$7,000 to create and implement a statewide ASP training.
- 6) Facilitate 30-minute quarterly huddles to educate CAHs on QI and lean methods, assign homework, discuss measure-specific processes, needs, barriers, successes, changes, and outcomes, and share any policies, procedures or tools developed.
- 7) Document CAHs' experience, process changes, outcomes and impact to share findings within and outside the cohort and determine next steps both for cohort participants but also ASP improvement efforts.

Continue the Louisiana CAH ASP Improvement Cohort (3)' work through 2023 and add 2 additional CAHs to the cohort to begin their work for 2023-2024.

LA ASP Improvement Cohort Timeline 2021 - 2023

- Presentation by RHS
- Review Project Plans
- Team Introductions

Process Thinking Discussion - Lean: Go see, ask why, document, show respect

Meetings with CareLearning.com

Sept October November December January February March April



Recruit ASP Improvement CAHs (4)

Kick-off Webinar #1

Meet 1:1 with each ASP Improvement CAH to discuss data, needs, priorities, project plans, staff involvement, provide funding to launch work.

Improvement Huddle #1

Meet 1:1 with each CAH to discuss needs, priorities, funding and next steps

Funding to one cohort CAH to develop statewide ASP training

Improvement Huddle #2

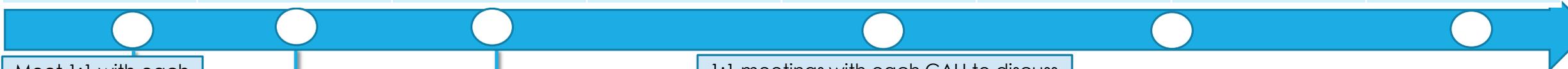
LA all-staff ASP training added to CareLearning.com

ASP Reporting Reminder

ASP Reporting Reminder

ASP Reporting Reminder

May June July August Sept January February April



Meet 1:1 with each ASP Improvement CAH to identify any needs.

Improvement Huddle #3

CAH QI Roundtable, ASP Improvement Cohort Presentations

1:1 meetings with each CAH to discuss outcomes, evaluate project approach, discuss next steps (Sept 2022)

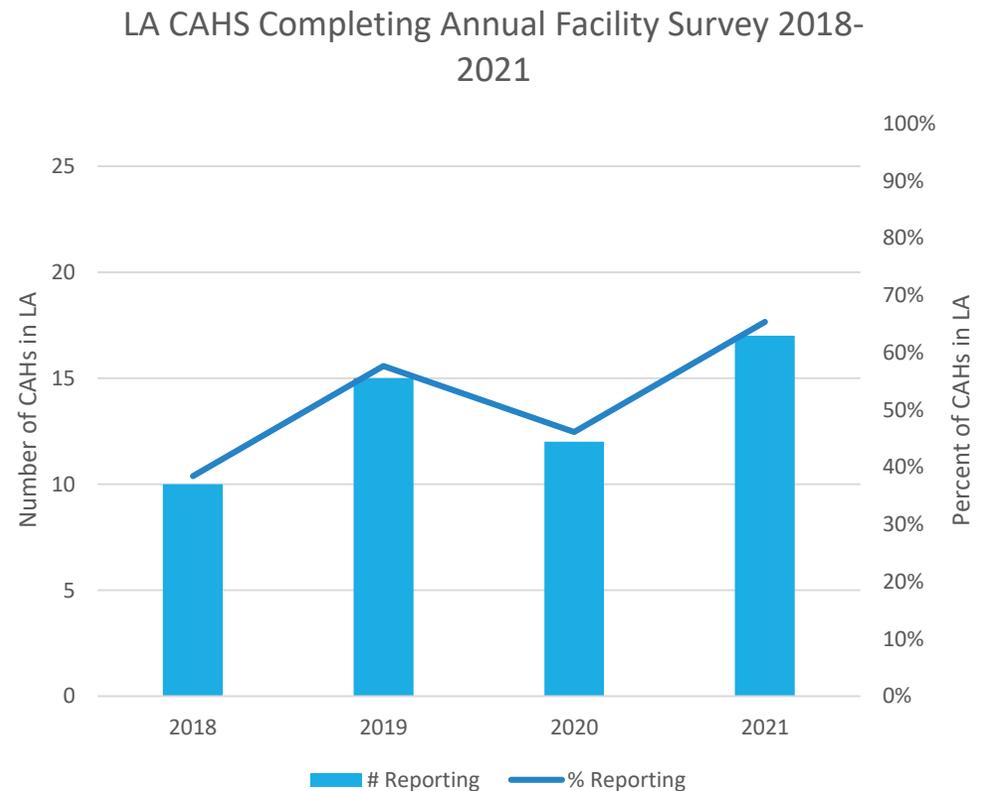
1:1 w/new CAHs & Improvement Huddle #4

On-Boarding & Improvement Huddle #5

Results: Aggregate LA CAHs and ASP Improvement Cohort CAHs

- LA Flex Program had 99 touches or an average of 24.75 touches per CAH participating in the ASP Improvement Cohort & 166 ASP touches across all CAHs.
- All ASP Improvement Cohort CAHs changed ASP processes advancing at least one AFS measure.
- All ASP Improvement Cohort CAHs are continuing to advance at least one AFS measure in the 2022-2023 grant year.
- AFS reporting in the state increased.*
- Additional CAHs will participate in an ASP Improvement Cohort for 2022-2023.

* 2 Additional CAHs completed the AFS but their provider numbers were incorrect in NHSN so they are not included in the MBQIP data reported here.



Louisiana ASP Improvement Cohort Year-2 CAHs



Darra Jung, Director of Nursing



Amanda Howard, Pharmacist



Donney G , Pharmacist

Get to Know Us:

Critical Access Hospital located in rural North Central Louisiana

- 25 Bed Acute Care
- Swing Bed Program
- 10 Bed Inpatient Psych Program
- 2 Rural Health Clinics
- 24 Hour Emergency Room
- Surgery

Many of the services and specialties we provide reach patients far beyond our local area.





Programs

- Ambulance
- Cardio-Respiratory
- Chronic Care Management
- Hormone Replacement Therapy
- Hyperbaric
- Imaging
- Laboratory
- Massage Therapy
- Outpatient Mental Health Services
- Rehabilitation Services
- Surgical Services
- Weight Management
- Wound Care

Specialties

- Allergy / Immunology
- Cardiology
- Chiropractic Medicine
- Counseling
- Dermatology
- Family Medicine
- Gastroenterology
- General Surgery
- Gynecology
- Internal Medicine
- Interventional Pain Management
- Nephrology
- Neurology
- Ophthalmology
- Orthopedics
- Otolaryngology (ENT)
- Pathology
- Pediatrics
- Podiatry
- Urology





Hardtner Medical Center's Antibiotic Stewardship Program



The Importance of Antibiotic Stewardship

We have seen patients in the ER and acute care who are not taking their antibiotics as prescribed.

Some patients have been discharged without oral antibiotics after being on IV antibiotics upon admission.



Goals of the Program

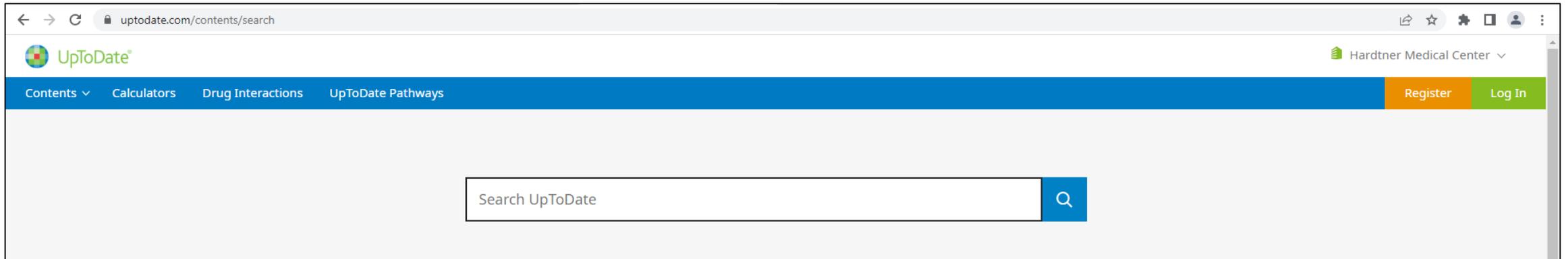
Educate our staff on the program and the importance of being conscious when administering and prescribing antibiotics.

Utilize storyboards throughout the facility and conduct an assessment to ensure retention of the information.



Goals of the Program

Provide Lexicomp UpToDate as a reference for nurses and providers.





Goals of the Program

Provide a daily reminder of the importance of antibiotic stewardship.

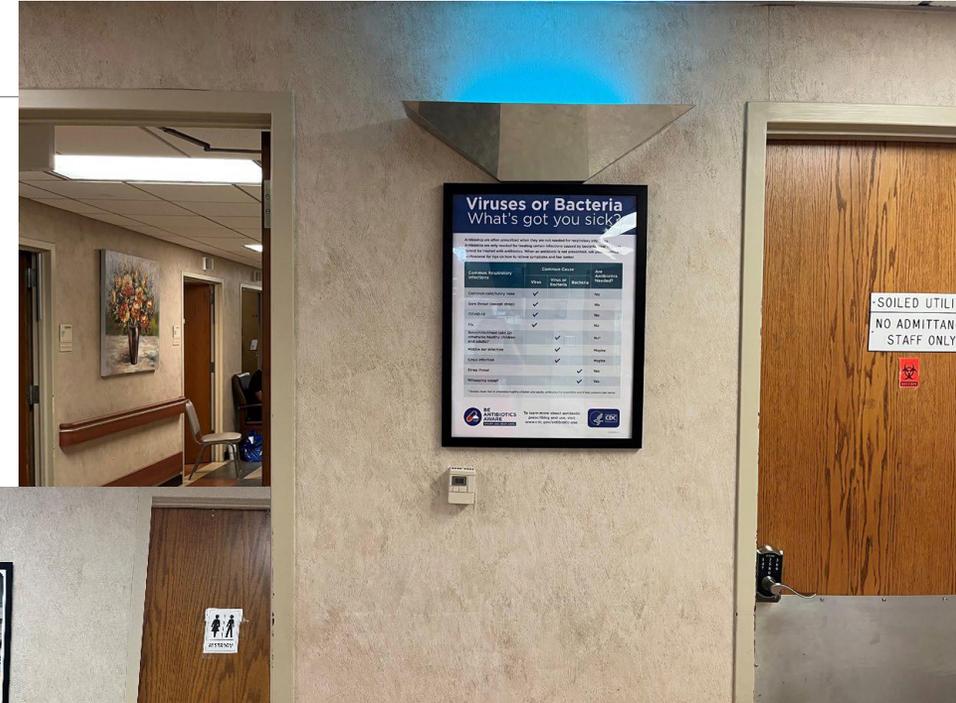


NAME BADGES

Goals of the Program

Use visualization to aid in the learning and recall of the information.

Provide patients with a fact sheet on antibiotic usage upon discharge from hospital.



Goals of the Program

Provide a way for patients to easily return their medications to prevent antibiotics from being flushed down the toilet or washed down the sink.





Outcomes of the Project

AWARENESS of the importance of antibiotic stewardship.

Because providers have requested access to UpToDate at the point of care, funds from the Antibiotic Stewardship Program Grant will be used to purchase **UpToDate** for 2022-2023.

A **DECREASE** in over-prescribing, and an increase in patient awareness that antibiotics are not useful in viral infections.



Outcomes of the Project

An **INCREASE** in patients' knowledge about antibiotic side effects.

EDUCATION through Facebook and Instagram on the availability of the Drug Take-Back Box at our facility.

Bayou Bend Health System

Antibiotic Stewardship Program

A Program in Progress.



BAYOU BEND
HEALTH SYSTEM

Who We Are

22 Bed Critical Acute Hospital

- Emergency Department
- Labor and Delivery
- Surgery
- Inpatient Acute Care
- Outpatient Infusions
- Radiology
- Laboratory

Physician Services Clinic

- Family Medicine
- Internal Medicine
- Women's Health
- Specialty

Wellness Center

- Opening July 2023



Wellness Center

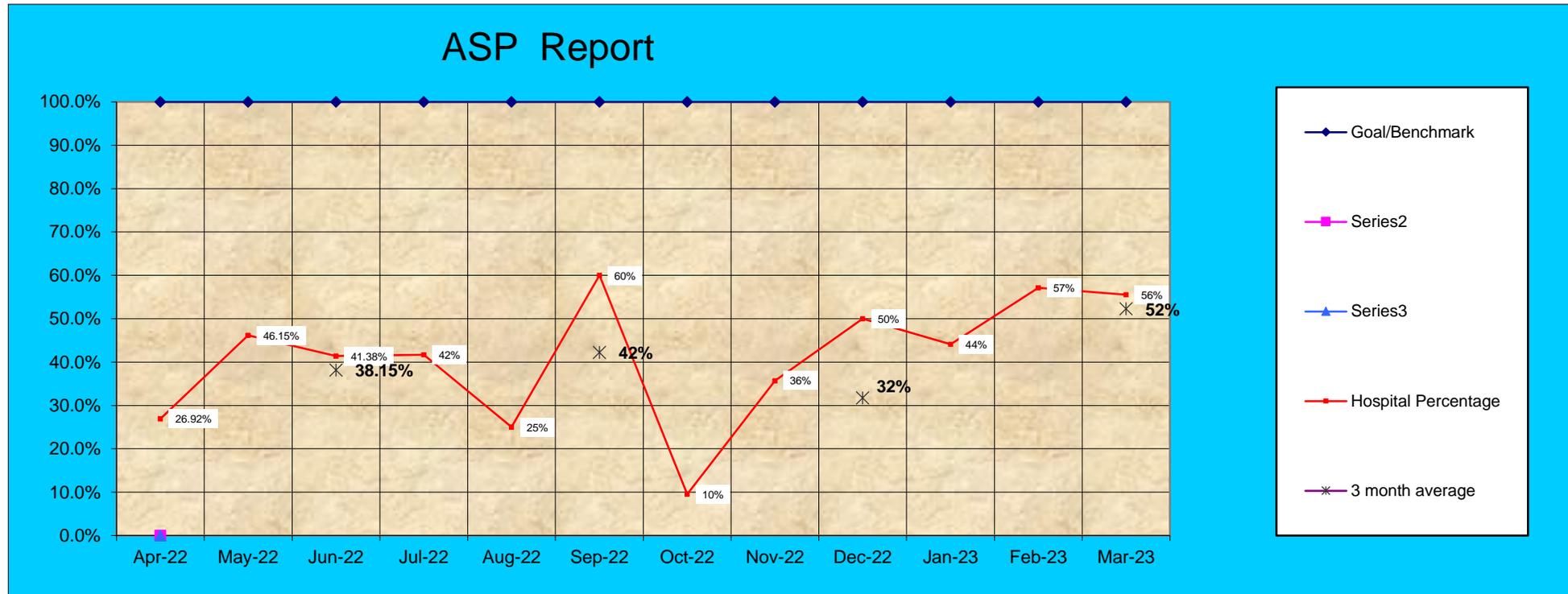
- Fitness Facility
- Orthopedics Services
- Wellness Testing
- Indoor Walking Track
- Child Care
- Conference Rooms
- Group Exercise
- Cycling Studios

- Expanded Therapy Services
- Cardiology Services
- Outpatient Cardiac Rehab
- Senior Behavioral Health
- Medical Wellness Programs
- Healthy Bistro
- Exercise and Lap Pools
- 60,000 sq. ft.

BBHS ASP Elements

- Therapeutic Interchange
- Antibiotic Timeout
- IV to PO
- Antibiotic Automatic Stop
- Pneumonia Protocol
- C-Diff Protocol
- UTI Protocol
- Sepsis Protocol
- Skin Structure Protocol

Stewardship Compliance



Tele Antimicrobial Stewardship Program (TASP) – UW Center for Stewardship in Medicine - UW



1. Intensive Quality Improvement Cohort (IQIC)

1. A 12-month sub-cohort of CSiM members working on quality improvement interventions based on local hospital data and goal setting.
2. Current IQICs: Asymptomatic Bacteriuria 101 and 201

2. Tele-Antimicrobial Stewardship Program (TASP) ECHO

1. A weekly Telehealth meeting with peer facilities for education and case discussion.

3. CSiM Stewardship Core Elements

1. CSiM faculty led Antimicrobial Stewardship assessment and review
2. Hospital-led Quality Improvement [PDSAs](#) tools and portal
3. Toolkits, resources, and guidelines
4. Grand Rounds opportunities with CSiM faculty
5. Antibiotic Pocket Guide
6. Annual Conference
7. Quality Improvement mentoring and support

**DAYS OF THERAPY - ACUTE CARE
BAYOU BEND HEALTH SYSTEM**



RATE CALCULATION

$$\frac{\text{sum of antibiotic DOTs}}{\text{total \# of resident-days}} \times 1,000$$

— rate of total antibiotic days

Donney Goutierrez
Director of Pharmacy
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<http://www.bayoubendhealth.org>



Union General Hospital

Antibiotic Stewardship Improvement 2021-2023

Darra Jung, BSN, RN, CCRN-K

Director of Nursing





A little bit about us...

- ❖ Located in Farmerville, La. - Northeast La. Region 8
- ❖ Full service 20-Bed Critical Access Hospital with Acute & Skilled care
- ❖ 24-7 Emergency Department
- ❖ Rural Health Clinic
- ❖ Intensive Outpatient Program for Medicare patients
- ❖ Outpatient Therapy Services - PT, OT, ST





Educate yourself about antibiotics....

How we got started & why...

- Rochelle with Rural Health Solutions reached out to us as part of the Flex grant for 2021-2022.
- Our Antibiotic Stewardship group met & brainstormed ideas to spend the grant money.
- We decided on staff & community education as our primary focus since it was part of the CMS requirement to have the Antibiotic Stewardship Program.

Infection Prevention AND CONTROL ANNUAL EDUCATION EXHIBIT

MANDATORY FOR ALL EMPLOYEES

COME & GO EVENTS

ALL SHIFTS

DECEMBER 14TH – OPEN @ 6 PM – 7:30 AM
 DECEMBER 15TH AND 16TH - OPEN 08:30 AM-Until
LOCATION: CONFERENCE ROOM

Themes Covered:

VACCINES

1. COVID-19
2. TB Skin Test
3. MMR-Measles, Mumps, Rubella
4. Tdap- Tetanus, Diphtheria, Pertussis
5. Varicella- Chickenpox
6. Zoster- Shingles
7. Hepatitis B
8. Influenza- Flu
9. Handwashing
10. Disinfection
11. PPE
12. Safety
13. Taking Care of Yourself
14. Compliance Education
15. Pharmacy Education
16. Antibiotic Education

OTHER TOPICS BEING PRESENTED:

Kate Cook, Director of Pharmacy
Signs of Product Instability or Contamination

Julie Duty, Director of Compliance
Antibiotic Stewardship

Darra Jung, Director of Nursing
Emergency Preparedness

WHAT TO EXPECT:
Games Throughout the Day

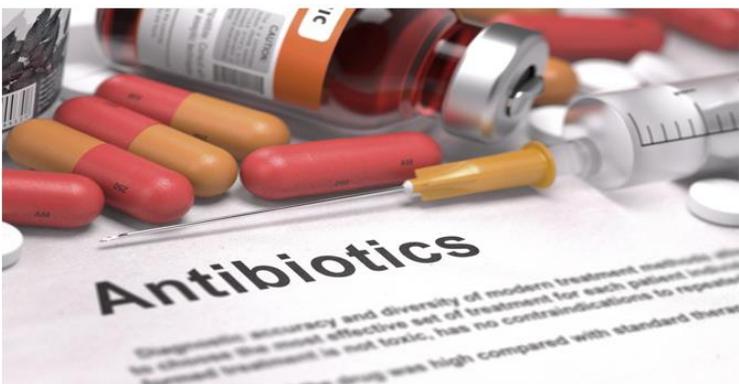
THANKS TO OUR SPONSORS:

Walmart Farmerville, Dean of Flowers, Johnny's Pizza, L BK's, Albritton's Auto Services, Carpenter's Health Clinic, Mack's Auto Care, Brookshires, Lexi Lou's Sassy Boutique, White's Detail, Reed Lumber & Supply Co, Origin Bank, Bumper to Bumper Auto Parts/Crow-Bulingame, A Piece of Mexico Restaurant, Cooter's Bait, Sevin's Seafood Restaurant, K&M's, Arbor Rose, Nana's Doughnuts, Tater Bugs, El Jarrito Mexican Restaurant, Sonic, Union Veterinary Clinic, Independent Auto Detail, and Delta Mimi Mart.

All Staff Training



Community Training

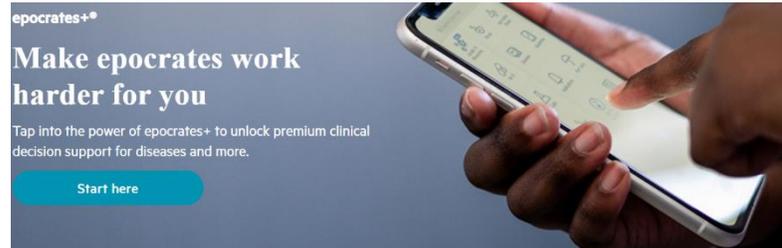


Union General Hospital Antibiotic Stewardship

Focus Areas & Process Changes...

- Created an Infection Control Exhibit to include Antibiotic Stewardship training where we had games & prizes for all hospital staff.
- Added training to orientation and annual training requirements for staff including a Post-Test
- Created a Carelearning Module as part of our new hire orientation and annual training for employees
- Purchased Epocrates+ (a Point of Care Medical Application) for Medical Staff & an "Up To Date" subscription for one of our physicians.
- Our Infection Preventionist spent 1 day a week for 8 weeks doing Community Awareness & Outreach Education to different businesses in our parish - 67 community members trained.
- Purchased signage and artwork that was hung in all Emergency Department & RHC patient rooms

Epocrates Subscriptions for 4 providers



DO YOU NEED ANTIBIOTICS?

You feel sick and miserable and want to get better fast. It could be a cold or even the flu. You're probably thinking you need antibiotics to knock out your illness and help you feel better. **Not so fast!** When antibiotics aren't needed, they won't help you, and the side effects could still hurt you.

8 WAYS TO BE ANTIBIOTICS AWARE

- 1 Antibiotics save lives, but they aren't always the answer when you're sick.
- 2 Antibiotics do not work on viruses.
- 3 Antibiotics are only needed for treating certain infections caused by bacteria.
- 4 An antibiotic will NOT make you feel better if you have a virus.
- 5 Any time antibiotics are used, they can cause side effects.
- 6 Taking antibiotics creates resistant bacteria.
- 7 If you need antibiotics, take them exactly as prescribed.
- 8 Stay healthy: clean hands, cover coughs, and get vaccinated, for the flu, for example.

Talk to your healthcare professional about the best way to feel better.

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use.



POST TEST – ANTIBIOTIC STEWARDSHIP

EMPLOYEE NAME: _____ DATE COMPLETED: _____

DEPARTMENT: _____

QUESTION	TRUE	FALSE
1 Antibiotic resistance is an adverse consequence from taking antibiotics	<input type="checkbox"/>	<input type="checkbox"/>
2 When we take antibiotics, we have a greater risk of contracting C. Difficile infection	<input type="checkbox"/>	<input type="checkbox"/>
3 C. Difficile is a bacterium that causes an infection of the large intestine (colon) and causes debilitating diarrhea.	<input type="checkbox"/>	<input type="checkbox"/>
4 CDC reports that 1 in 3 antibiotic prescriptions are not needed. <small>(Union General Hospital)</small>	<input type="checkbox"/>	<input type="checkbox"/>
5 It is okay to stop taking a prescribed antibiotic once you start feeling better	<input type="checkbox"/>	<input type="checkbox"/>
6 Antibiotics are used to treat both bacteria and viruses that can make us ill.	<input type="checkbox"/>	<input type="checkbox"/>
7 Antibiotics are urgently needed to treat certain bacterial infections like pneumonia meningitis, etc.	<input type="checkbox"/>	<input type="checkbox"/>
8 Antibiotic resistant bacteria is growing faster than the development of new antibiotics	<input type="checkbox"/>	<input type="checkbox"/>
9 Z pack is my preferred antibiotic and I should always ask for it since it works so good on me.	<input type="checkbox"/>	<input type="checkbox"/>

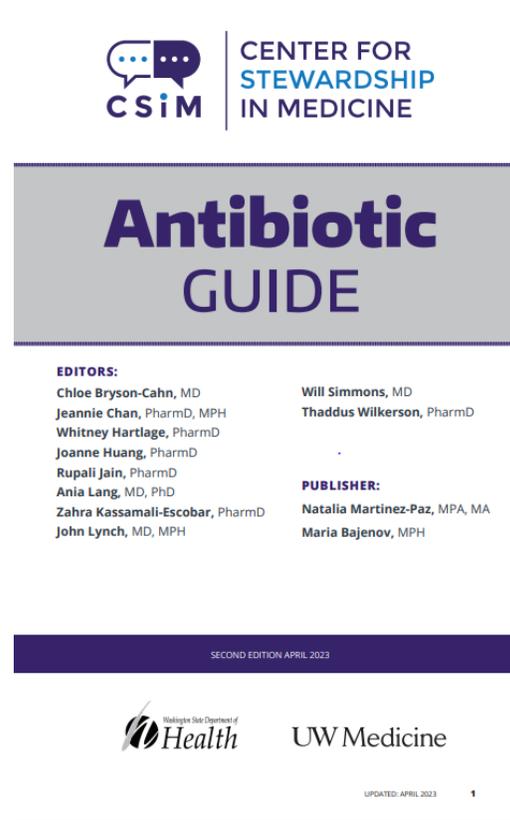
Complete final column- is answer Yes, No, or Maybe

Common Respiratory Infections	Common Cause Virus	Common Cause Virus or Bacteria	Common Cause Bacteria	Are antibiotics needed
Common cold	x			<input type="checkbox"/>
Flu	x			<input type="checkbox"/>
Bronchitis/chest cold (in otherwise healthy children)		x		<input type="checkbox"/>



What are we doing next...

- Purchased TASP (Tele-Antimicrobial Stewardship Program) to provide further education and resources for our clinical ASP team members.
 - This includes weekly Zoom calls to discuss relevant ASP topics.
 - An Antibiotic Guide for 15 committee members
- Renewed Epocrates+ subscriptions for providers



CENTER FOR
STEWARDSHIP
IN MEDICINE

Finding Local Solutions to Emerging Health Challenges

UW CSiM is a collaborative tackling today's stewardship challenges in rural medicine. Join us!

Questions?

- Union General
 - Darra Jung, Director of Nursing
 - djung@uniongen.org
- Hardtner
 - Amanda Howard
 - Amanda@hardtnermedical.com
- Bayou Bend Health System
 - Donney Goutierrez
 - dgoutierrez@bayoubendhealth.org
- Louisiana Flex Program
 - Rochelle Spinarski
 - rspinarski@rhsnow.com



We want to hear from you!

<https://www.surveymonkey.com/r/BW59S9F>





Thank you!

RURAL **HEALTH** WORKSHOP

Breakout Sessions: 10:45 – 11:45 a.m.

