

ANTIBIOTIC STEWARDSHIP IN NURSING HOMES

Philip Sloane, MD, MPH

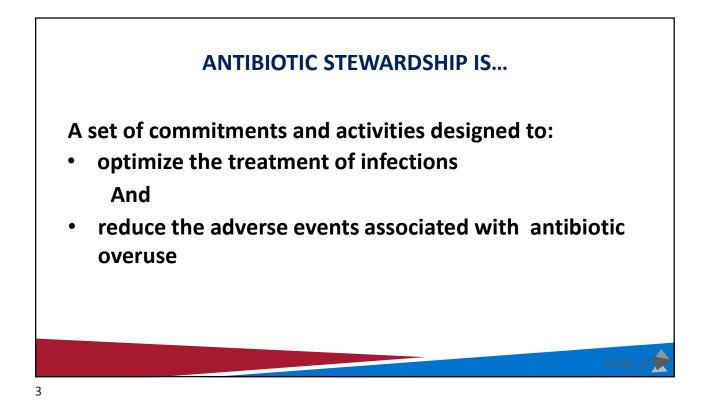
Department of Family Medicine University of North Carolina at Chapel Hill (with thanks to Chrissy Kistler, MD, MASc, the CDC, and AHRQ)

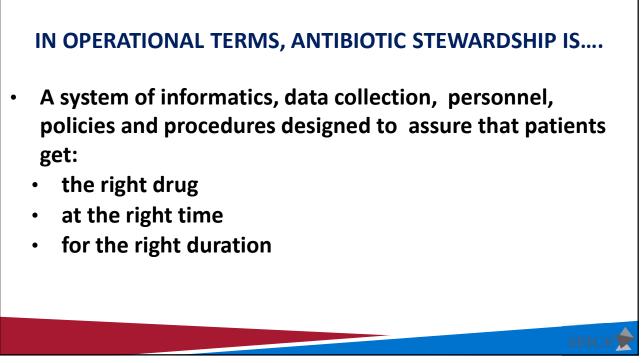
April 15, 2023

NO CONFLICT OF INTEREST

Dr. Sloane has no conflicts of interest.

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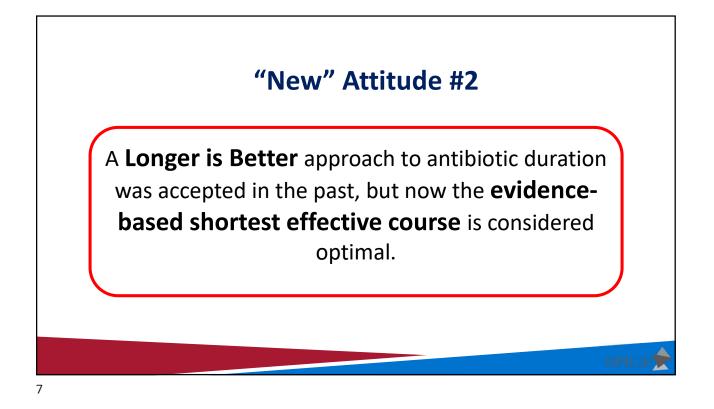


If you were trained 10 or more years ago, attitudes are different now....and these newer attitudes underpin much of antibiotic stewardship

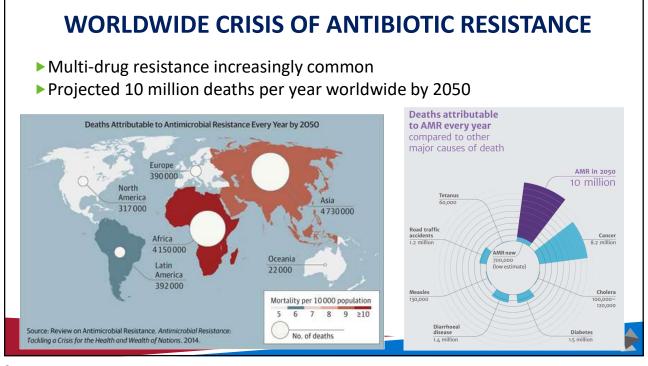
"New" Attitude #1

Prescribing antibiotics **"just in case"** was accepted in the past, but now antibiotics should be given after **careful, evidence-based consideration** of risks and benefits.

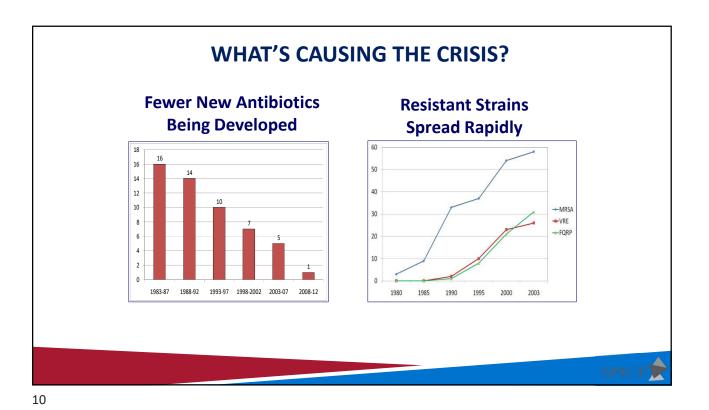
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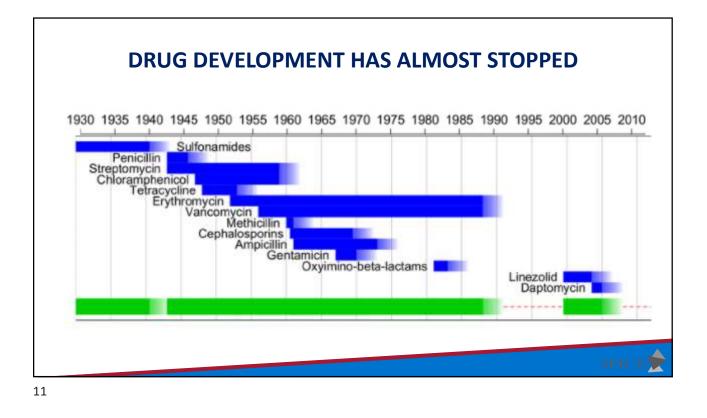


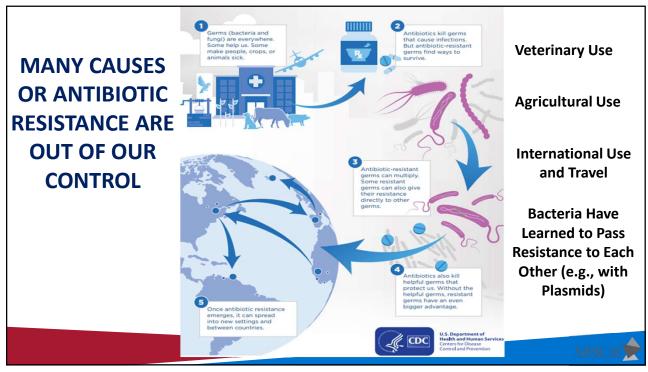






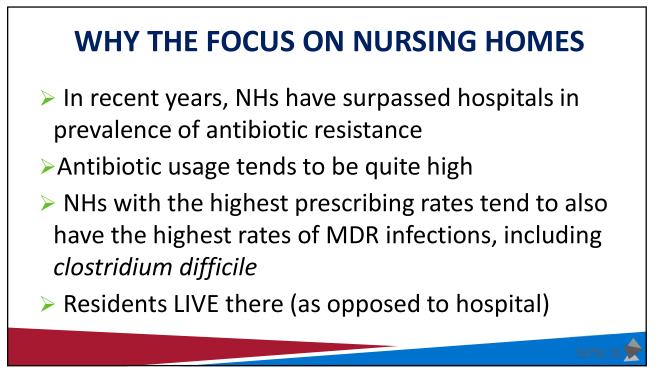




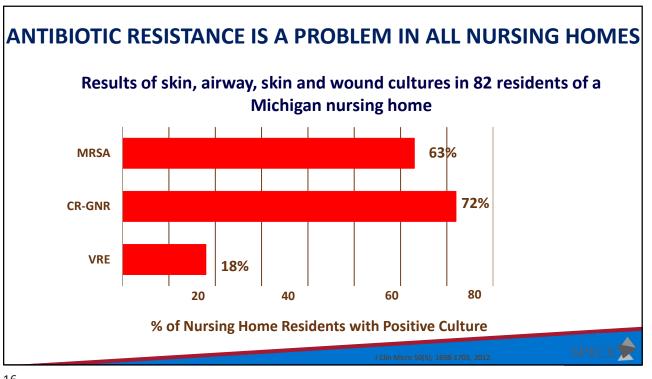


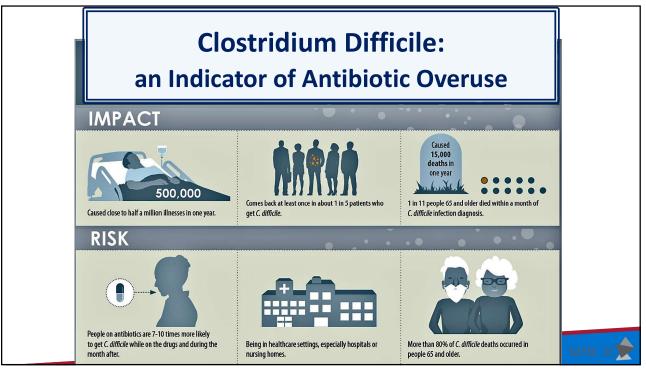
SIDE EFFECTS		of Antibiotics: ide Effects
ARE BETTER	Antibiotics	Side Effect
RECOGNIZED	Aminoglycosides —	Oto-Nephrotoxicity
	Tetracyclines —	Photosensitivity/ Teeth Stains
	Macrolides —	Qt Prolongation
	Fluoroquinolones—	Tendon Damage
	Vancomycin —	► Red Man Syndrome
And then of course	Nitrofurantoin —	Lung Effects/ Brown Urine
C. Difficile	Linezolid —	Serotonin Syndrome
	Penicillins —	Allergies
	Clofazimine —	Brown-Pink Skin Discoloration
	Isoniazid —	→Peripheral Neuropathy

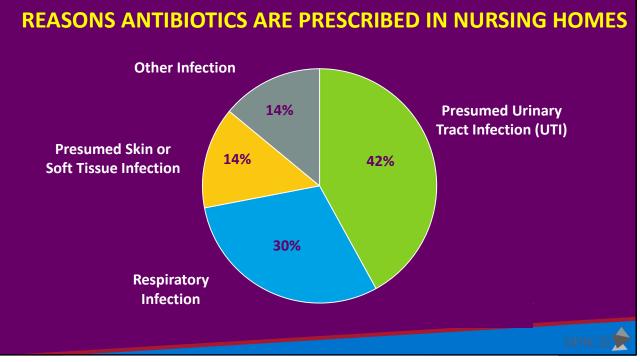


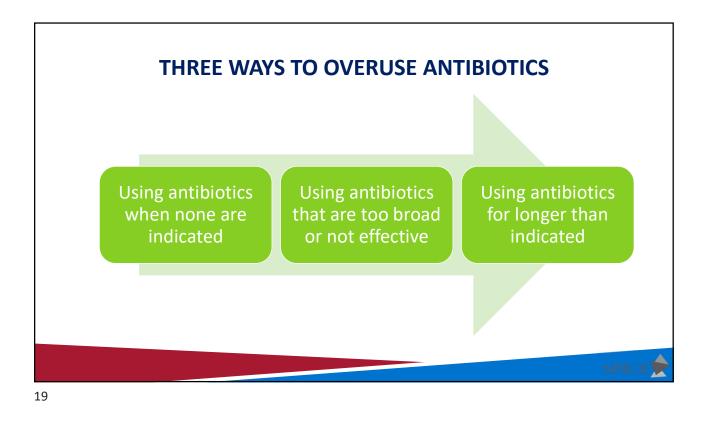


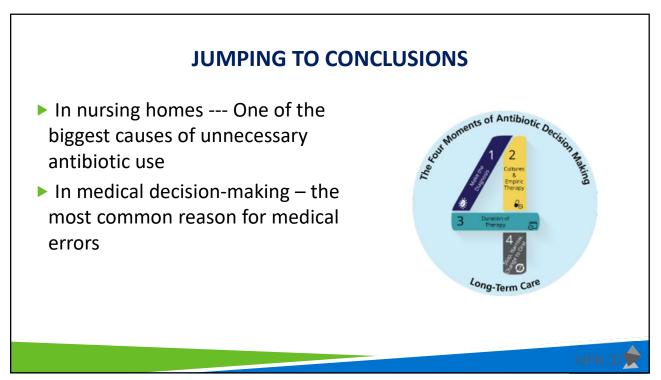


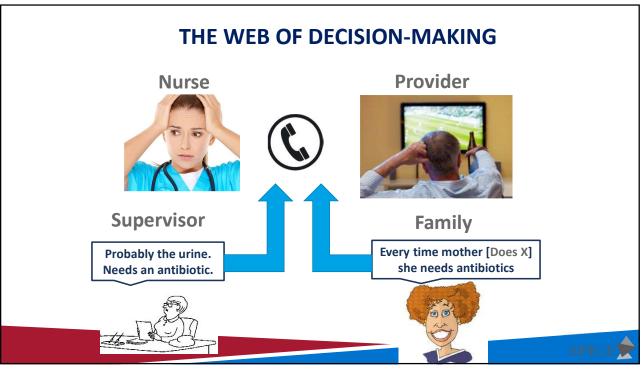


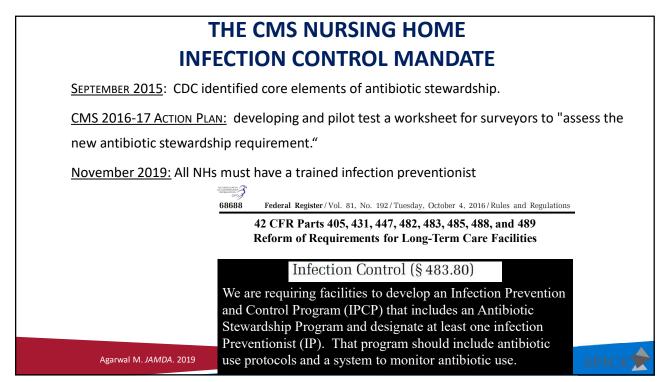




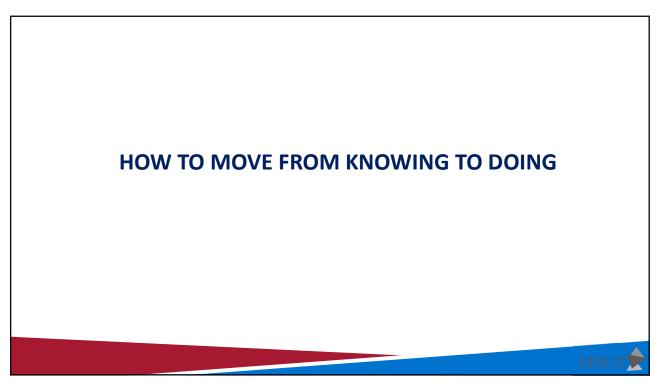




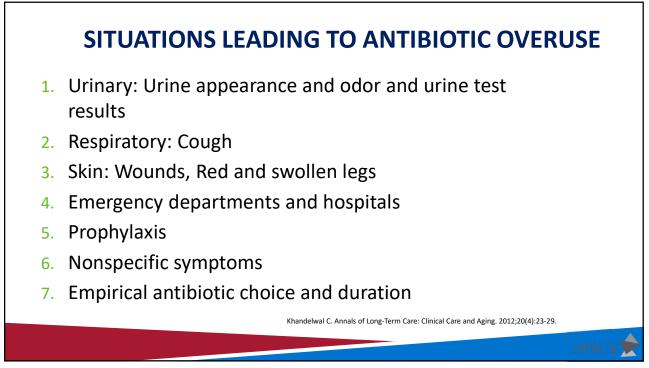


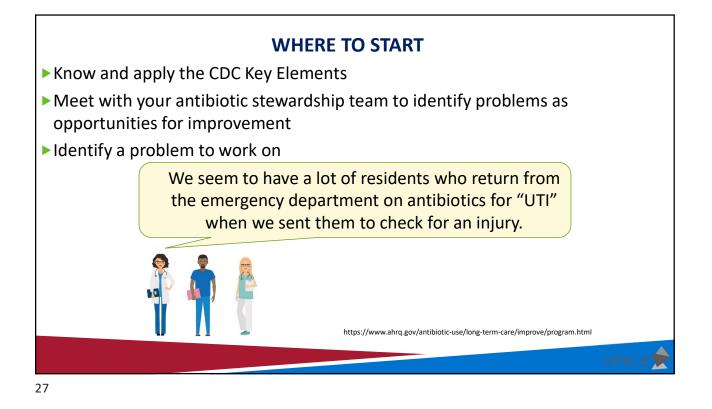


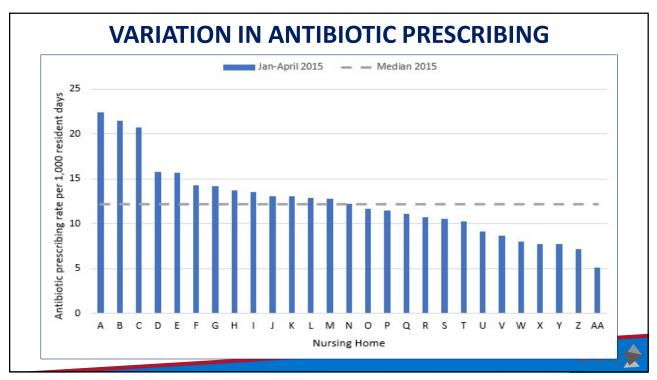


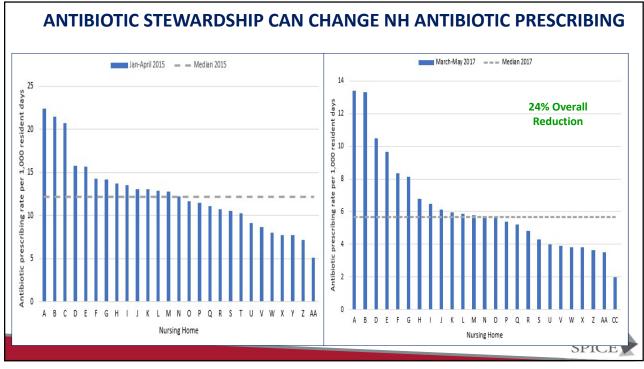


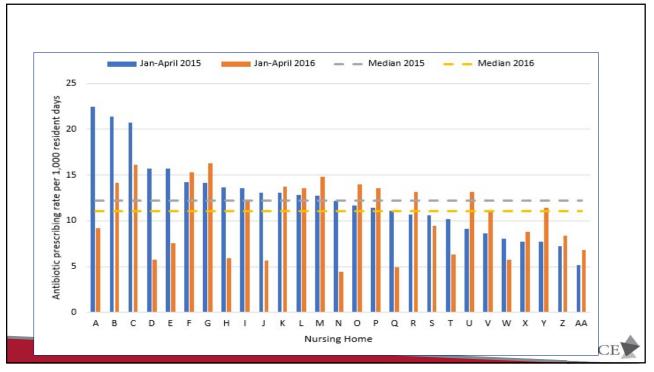


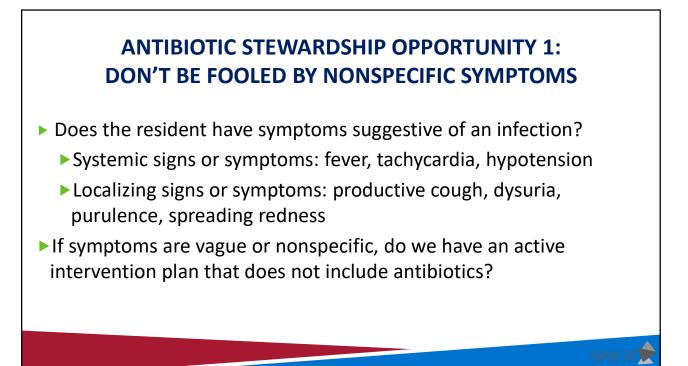










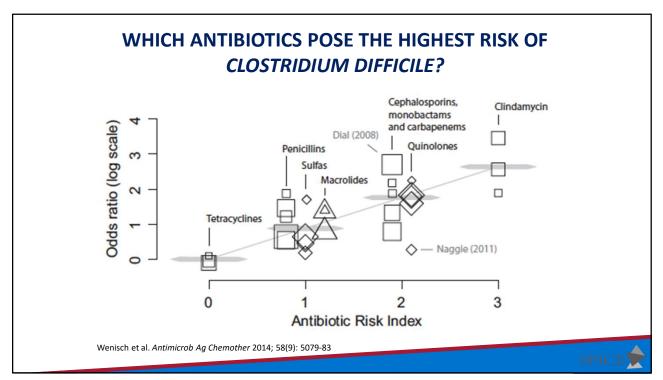


ACTIVE INTERVENTIONS FOR NON-SPECIFIC SYMPTOMS

- ✓ Assess hydration status (and encourage fluids)
- ✓ Review current medications
- ✓ Look for signs of a respiratory or GI virus
- ✓ Think about sleep problems
- ✓ Ask about pain / discomfort
- ✓ Ask about constipation
- \checkmark Look for sources of stress, anxiety or depression
- ✓ Monitor symptoms and vital signs (especially temperature)
- \checkmark Use nursing interventions where appropriate

Should we get a urine culture "just in case"





	Percent F	Resistan	nt (% c	of isolates)	6 -
Esc	herichia Coli (44%)	Prote (13%	us	Klebsiella pneumoniae (13%)	
	57%	69%	/ D	11%	
	42%	45%	/ D	14%	
	4%	98%	/ D	23%	
	17%	7%		11%	
	58%	63%	/ D	8%	

ANTIBIOTIC STEWARDSHIP OPPORTUNITY 3: LENGTH OF THERAPY

- What duration of antibiotic therapy is needed for the resident's diagnosis?
- Most bacterial infections need 7 days or less of antibiotics!

RECOMMENDED DURATION OF ANTIBIOTIC THERAPY (NON-HOSPITALIZED PATIENTS)

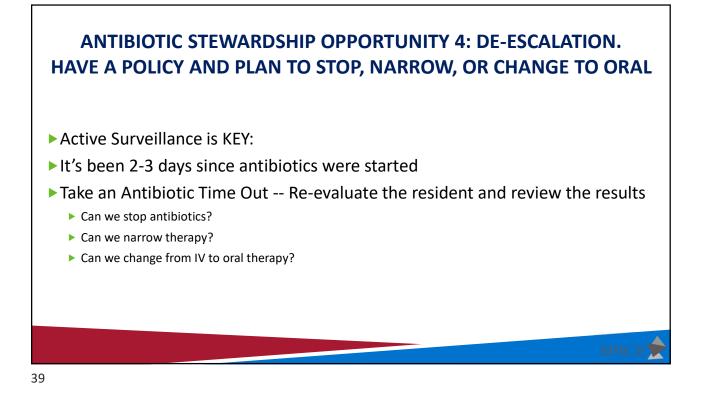
Type of infection	Sanford Guide, 2015	ID Society	David Weber	
Simple UTI (cystitis)	3 days ¹	3 days ¹	3 days	
COPD exacerbation	3-10 days ²		3-5 days	
Pneumonia without sepsis	Until afebrile for 3d	<u>></u> 5 days ⁴	<u>></u> 5 days	
Cellulitis (lower extremity)	10 days ³	5 days	5-7 days	

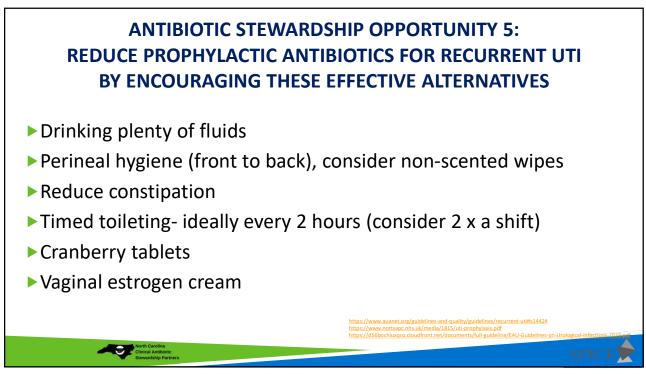
1 TMP-SMX – 3 days; Nitrofurantoin – 5-days; 2 Varies with drug, No therapy required in most cases; 3 Not diabetic; 4 Minimum 5 days (should be afebrile 48-72 hours);' non-ambulatory treat as HCAP; assess using score for severity

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Type of infection	Sanford Guide, 2015	ID Society	David Weber	Actual NH Practice
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Pneumonia without sepsis	Until afebrile for 3d	≥5 days ⁴	<u>></u> 5 days	7.8 days
Cellulitis (lower extremity)	10 days ³	5 days	5-7 days	9.6 days

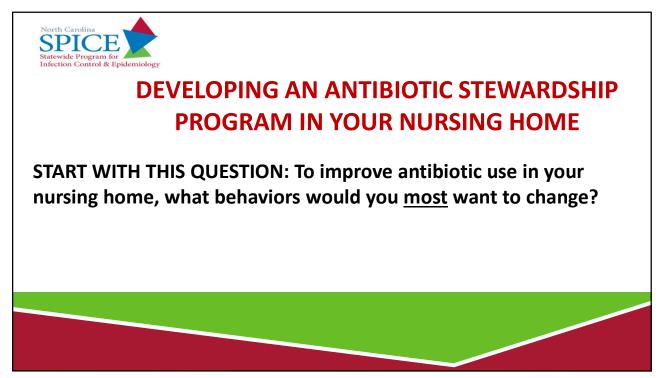
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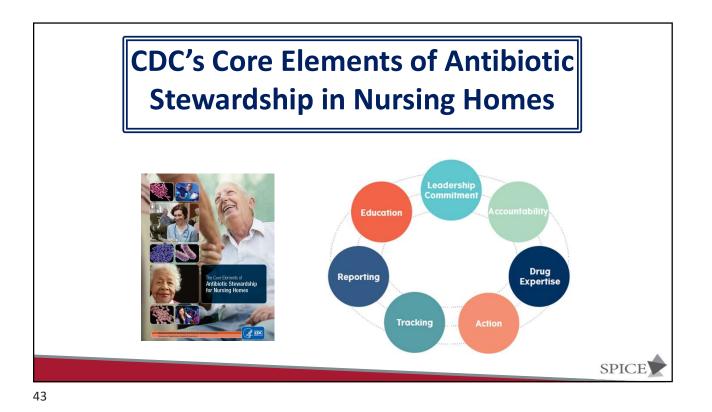




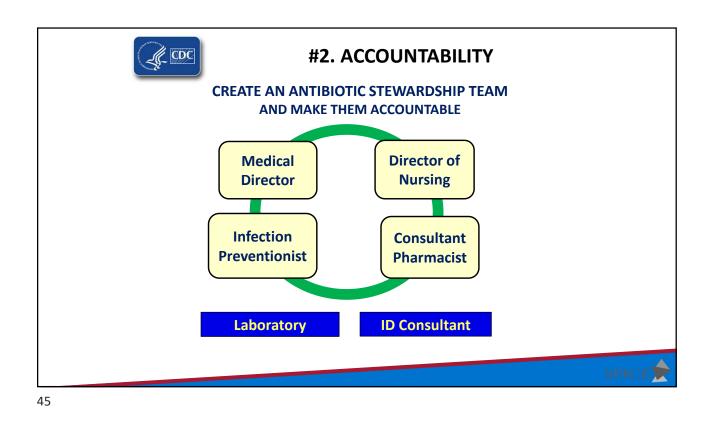
ANTIBIOTIC STEWARDSHIP OPPORTUNITY 6: RESIDENTS AT THE END OF LIFE

- Goals of care discussions should include antibiotics
- "Do everything" should be clarified
- Benefit versus potential harms
- If to relieve symptoms define end point and take a time out after 2-3 days to evaluate whether they are helping

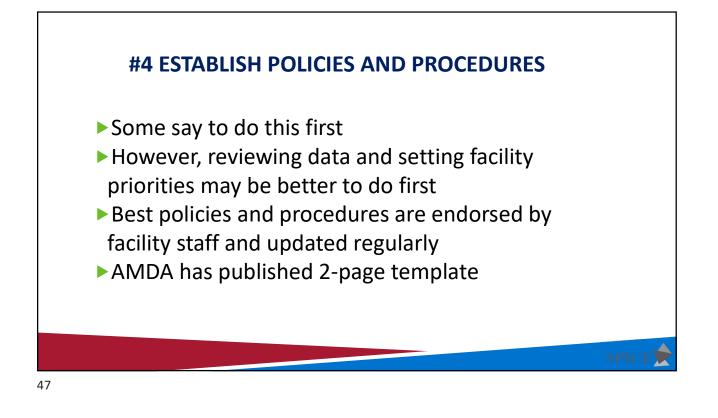


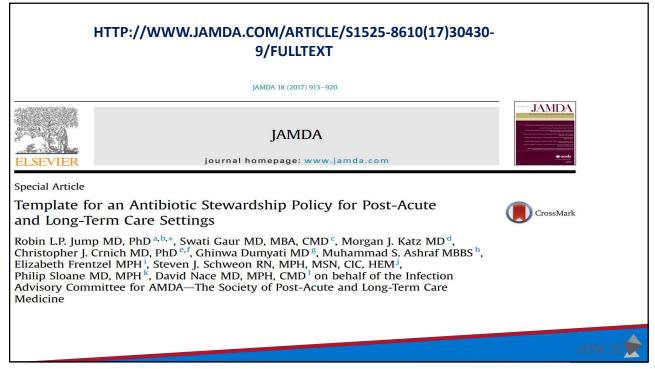


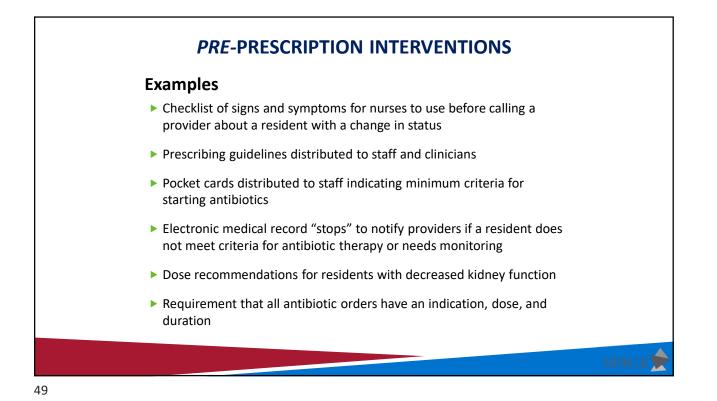


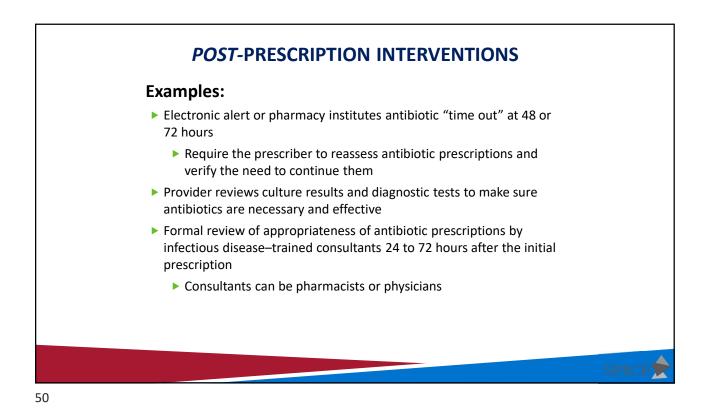


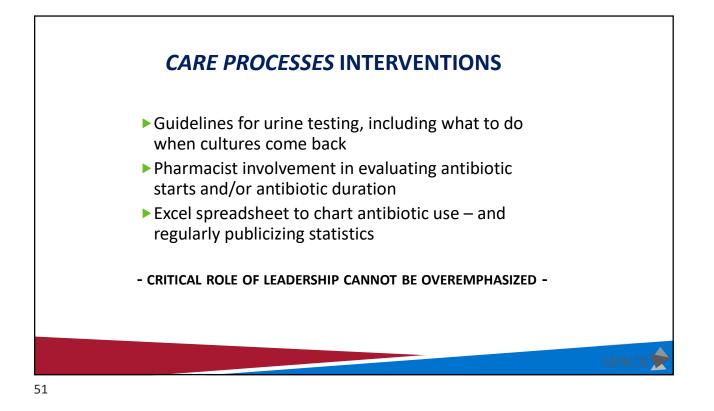




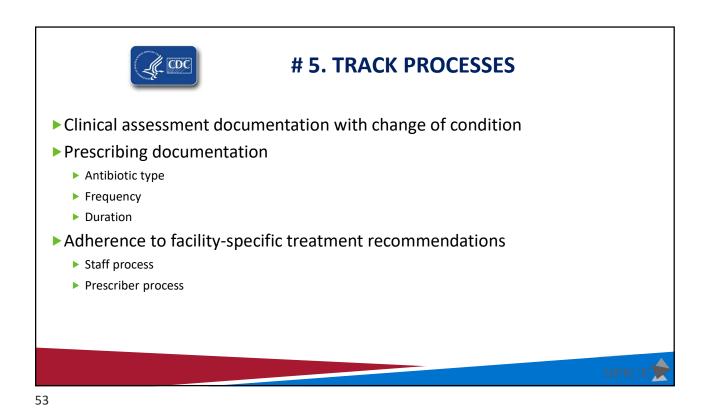


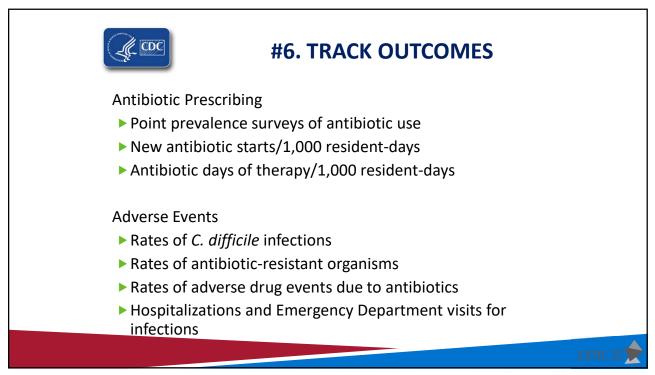






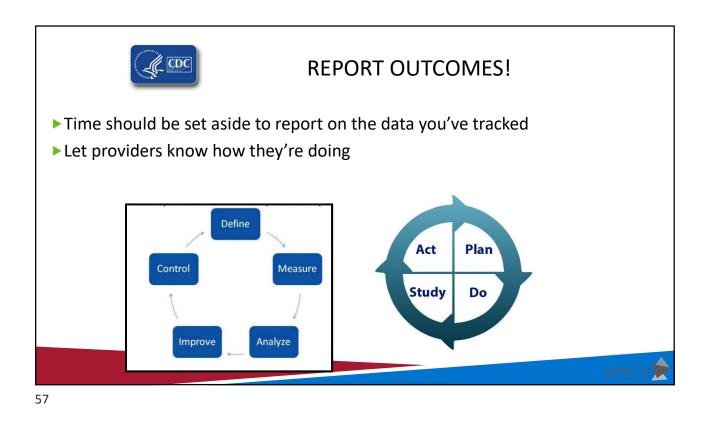


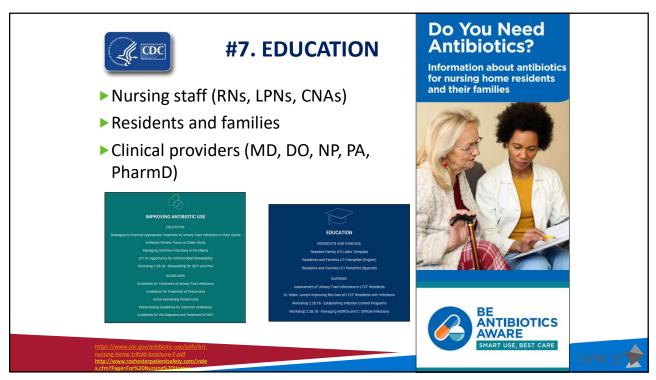




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IMPLEMENTATION MANUAL

► A step-by-step guide explaining how to incorporate our materials into a program that will improve outcomes



