

ANTIBIOTIC STEWARDSHIP IN NURSING HOMES

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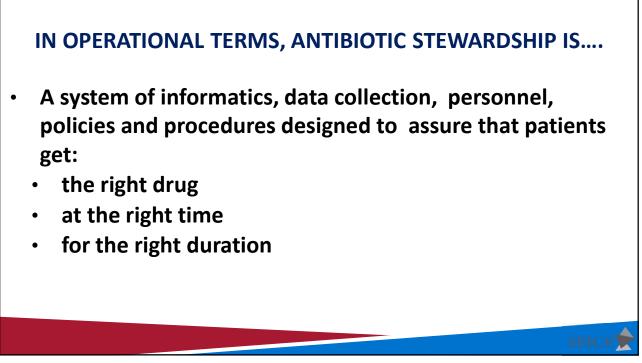
April 15, 2023

NO CONFLICT OF INTEREST

Dr. Sloane has no conflicts of interest.

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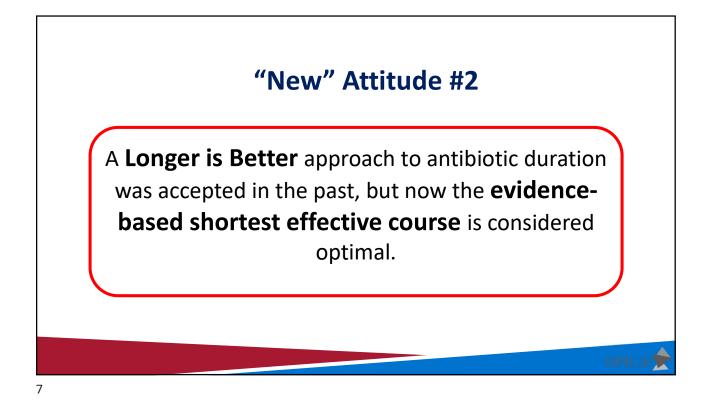


If you were trained 10 or more years ago, attitudes are different now....and these newer attitudes underpin much of antibiotic stewardship

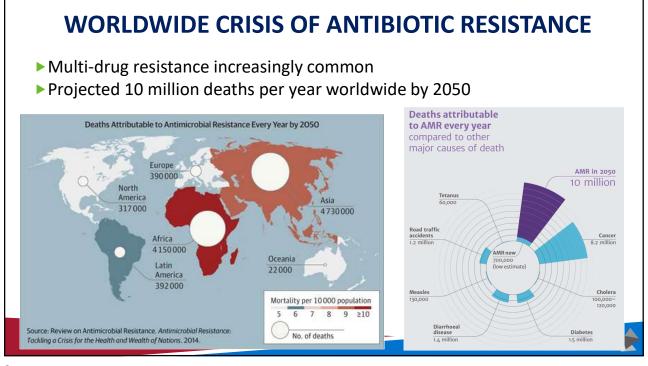
"New" Attitude #1

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.

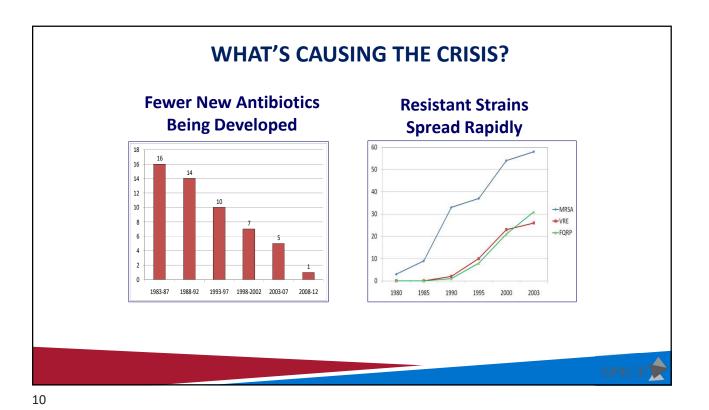
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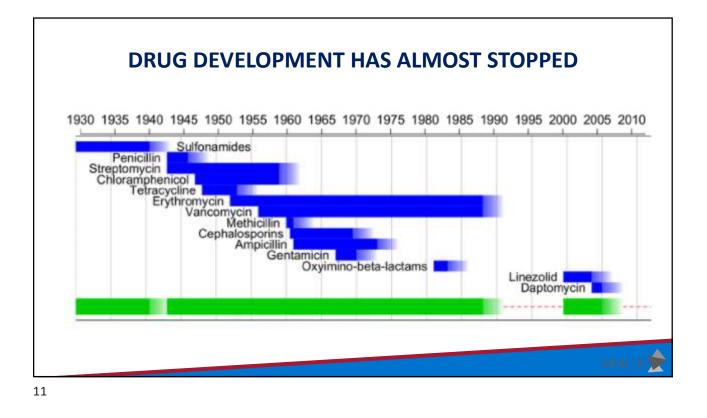


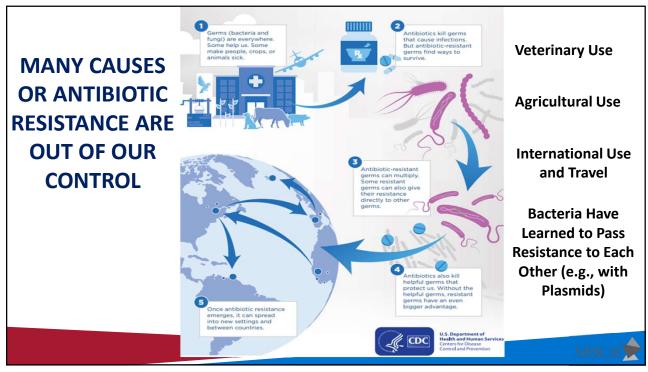






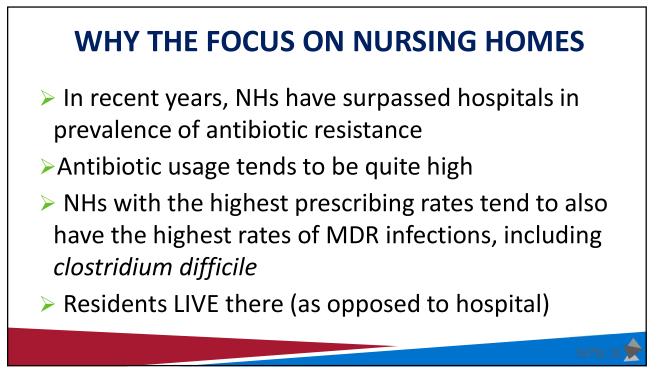




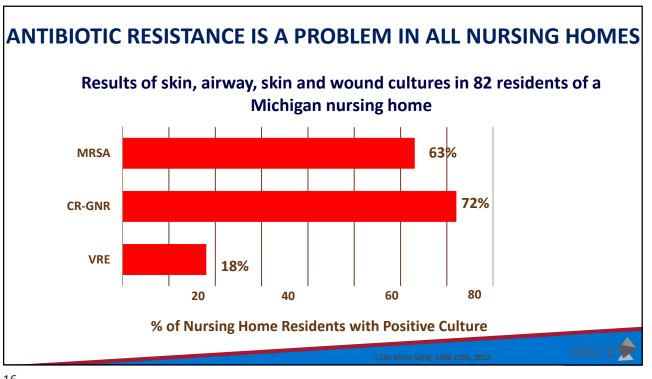


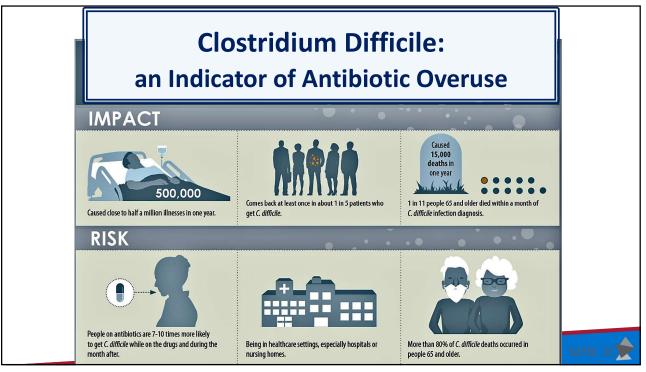
SIDE EFFECTS		of Antibiotics: ide Effects
ARE BETTER	Antibiotics	Side Effect
RECOGNIZED	Aminoglycosides —	Oto-Nephrotoxicity
	Tetracyclines —	Photosensitivity/ Teeth Stains
	Macrolides —	Qt Prolongation
	Fluoroquinolones—	Tendon Damage
	Vancomycin —	► Red Man Syndrome
And then of course	Nitrofurantoin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

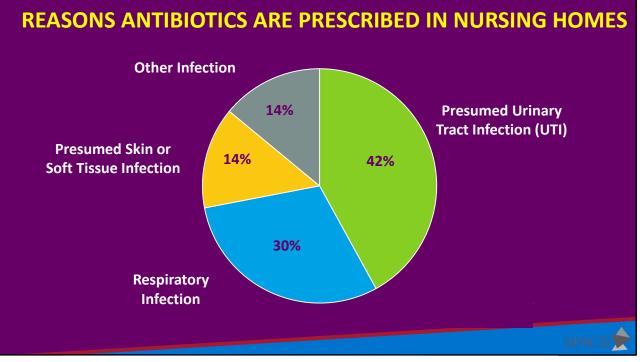


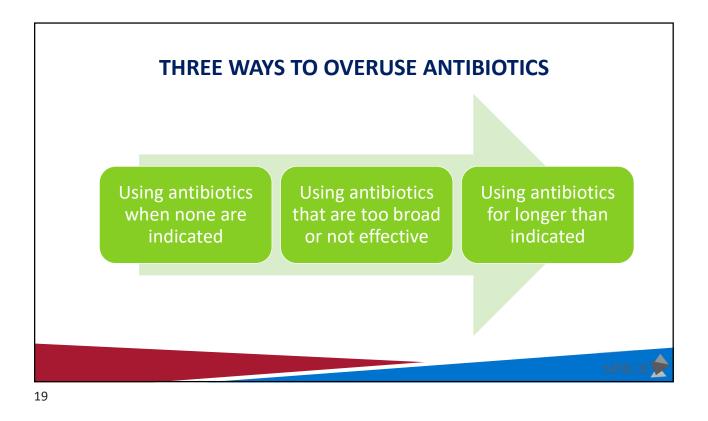


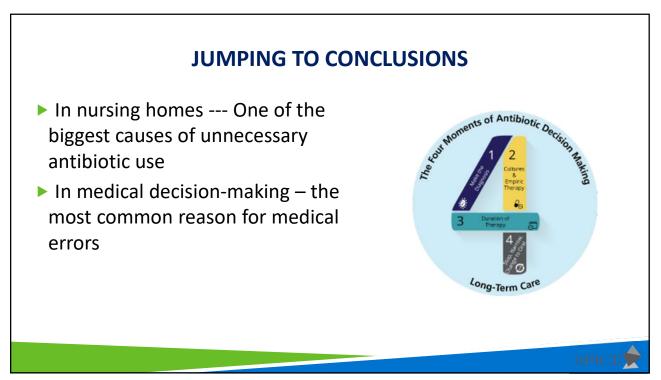


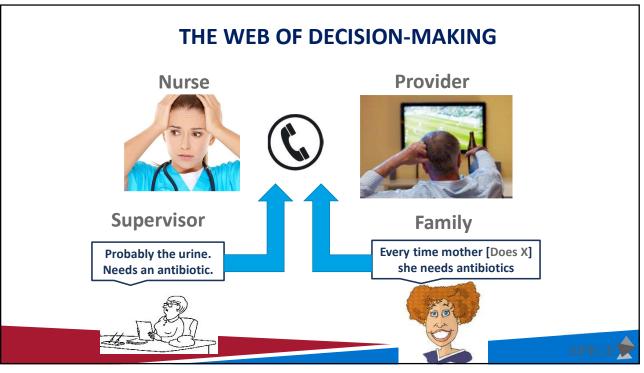


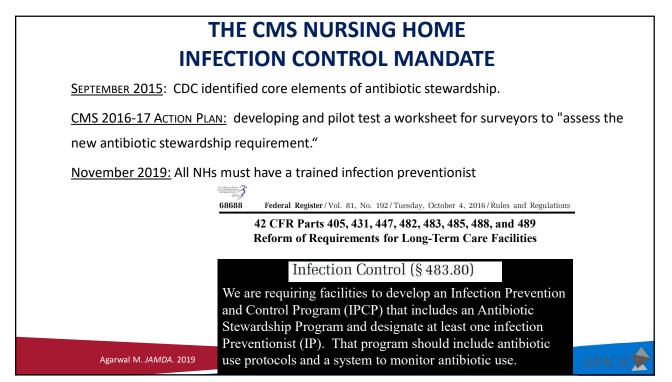




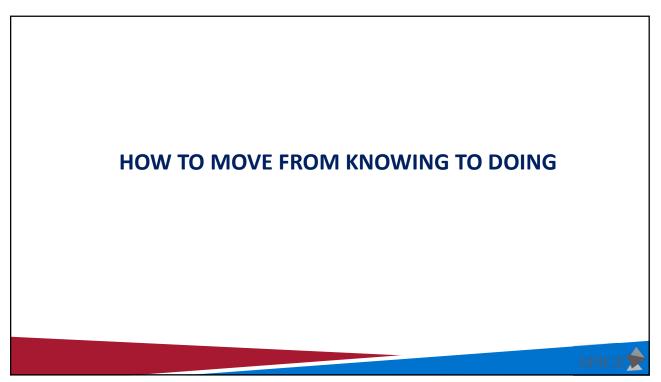




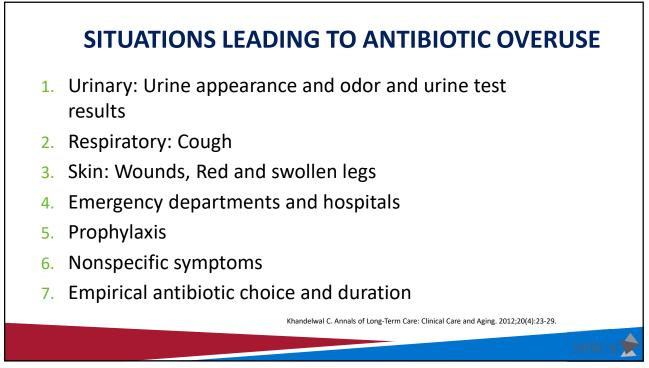


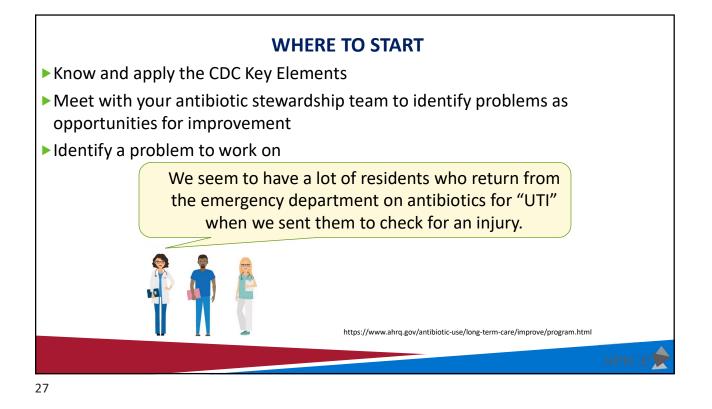


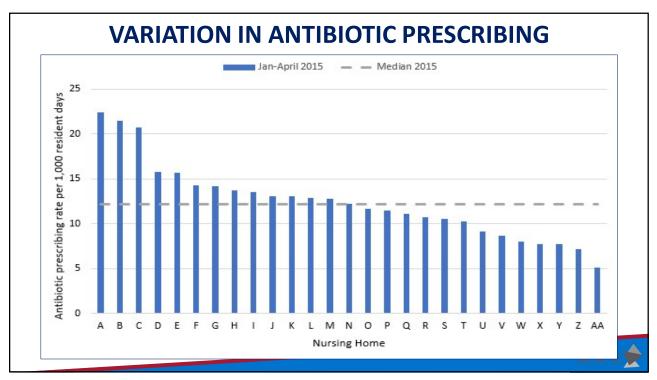


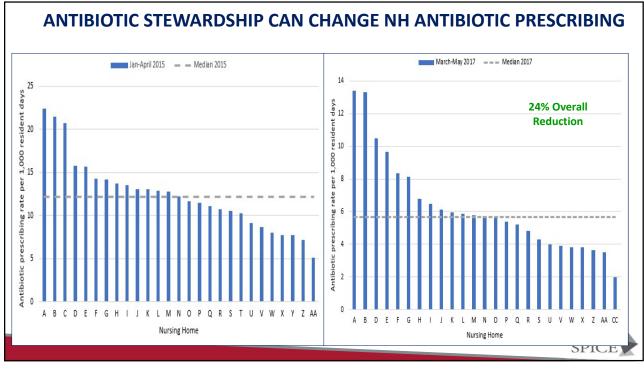


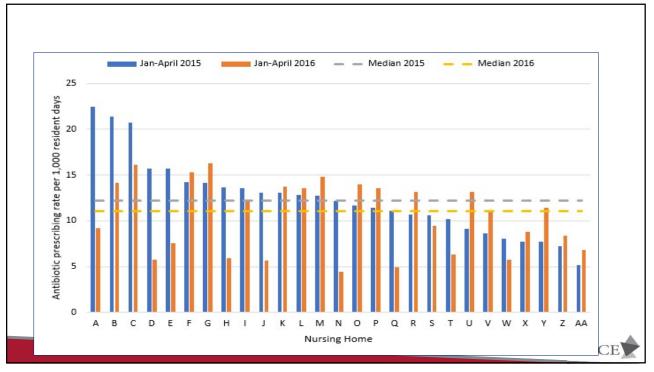


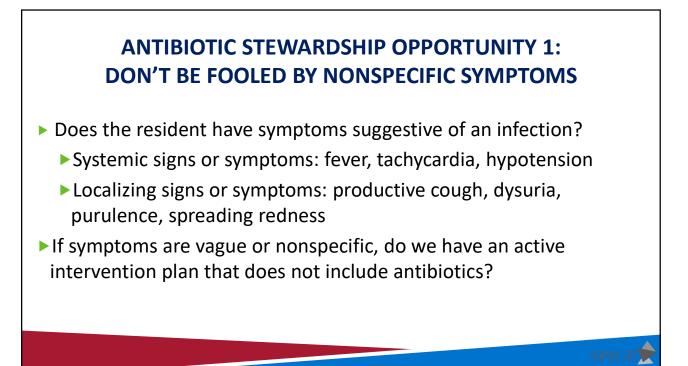










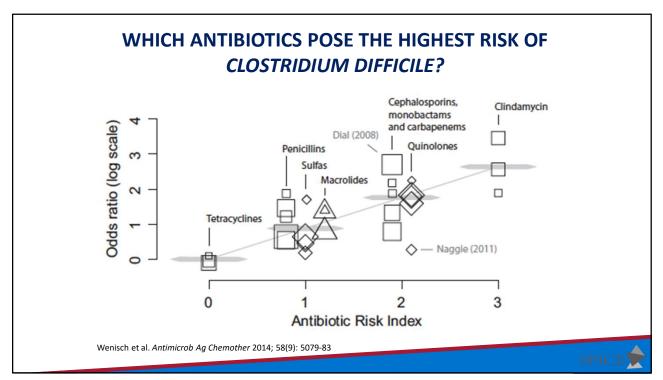


ACTIVE INTERVENTIONS FOR NON-SPECIFIC SYMPTOMS

- ✓ 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)

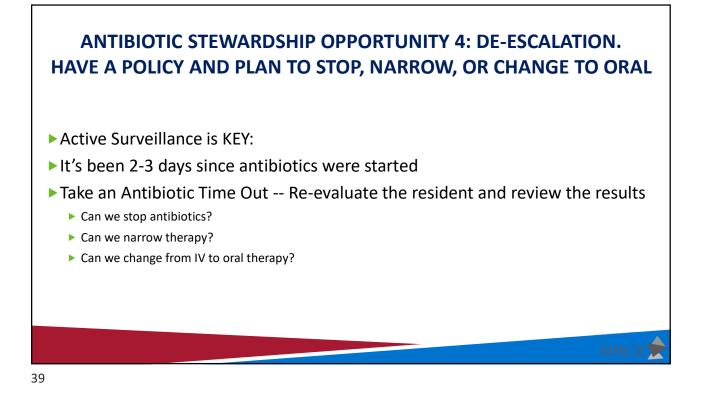
Type of infection	Sanford Guide, 2015	ID Society	David Weber	
Simple UTI (cystitis)	3 days ¹	3 days ¹	3 days	
COPD exacerbation	3-10 days ²		3-5 days	
Pneumonia without sepsis	Until afebrile for 3d	<u>></u> 5 days ⁴	<u>></u> 5 days	
Cellulitis (lower extremity)	10 days ³	5 days	5-7 days	

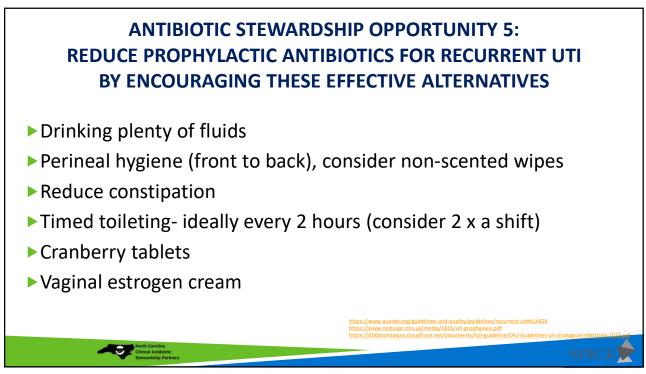
1 TMP-SMX – 3 days; Nitrofurantoin – 5-days; 2 Varies with drug, No therapy required in most cases; 3 Not diabetic; 4 Minimum 5 days (should be afebrile 48-72 hours);' non-ambulatory treat as HCAP; assess using score for severity

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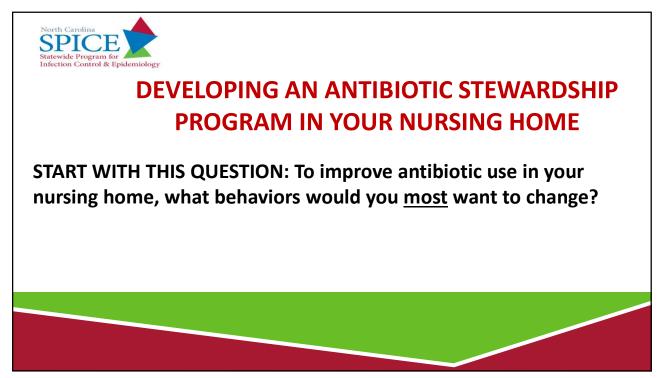
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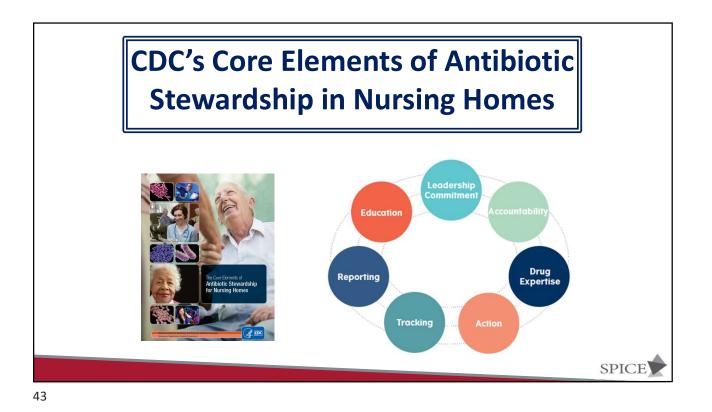




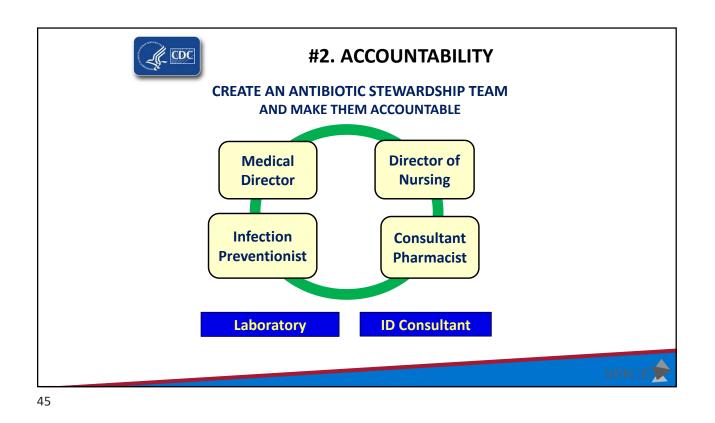
ANTIBIOTIC STEWARDSHIP OPPORTUNITY 6: RESIDENTS AT THE END OF LIFE

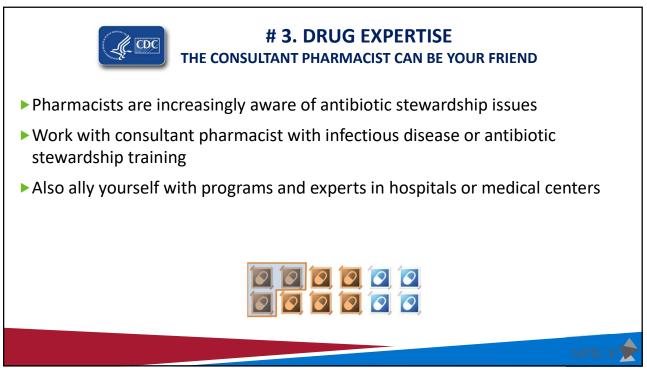
- Goals of care discussions should include antibiotics
- "Do everything" should be clarified
- Benefit versus potential harms
- If to relieve symptoms define end point and take a time out after 2-3 days to evaluate whether they are helping

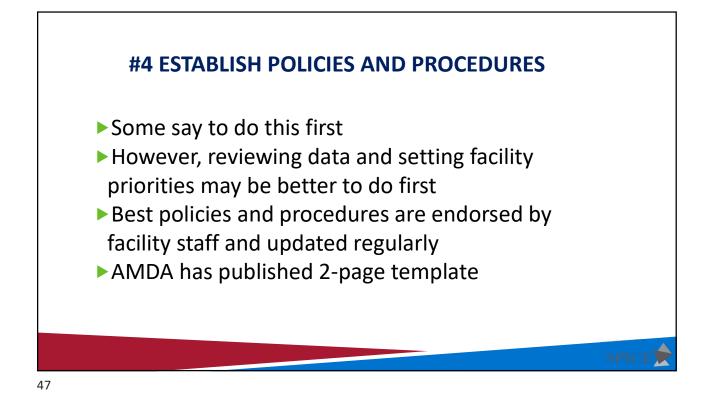


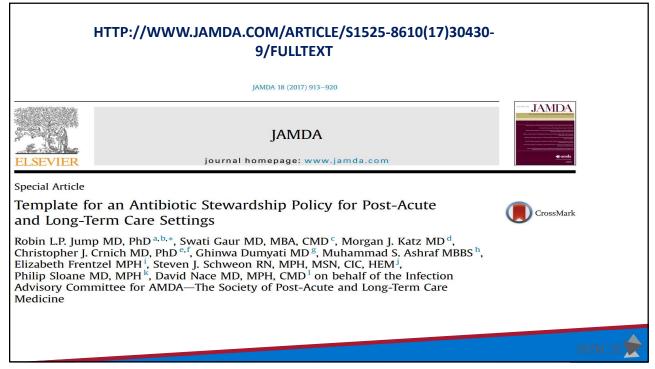


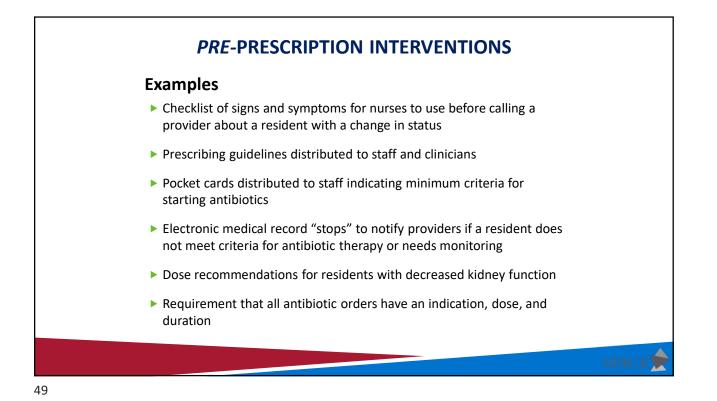


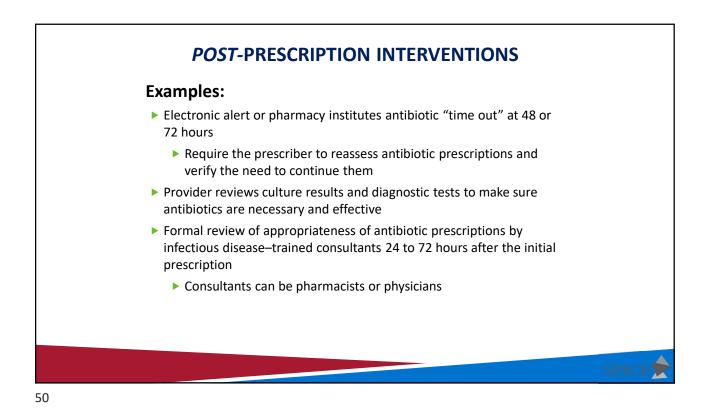


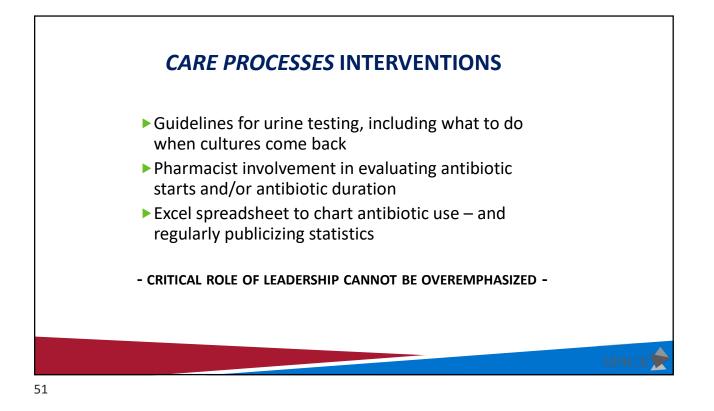




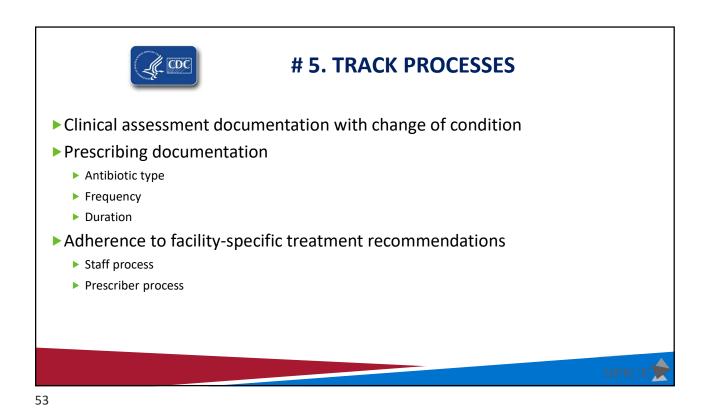


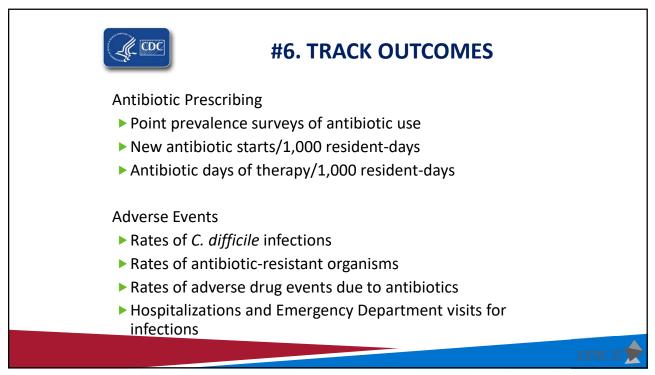






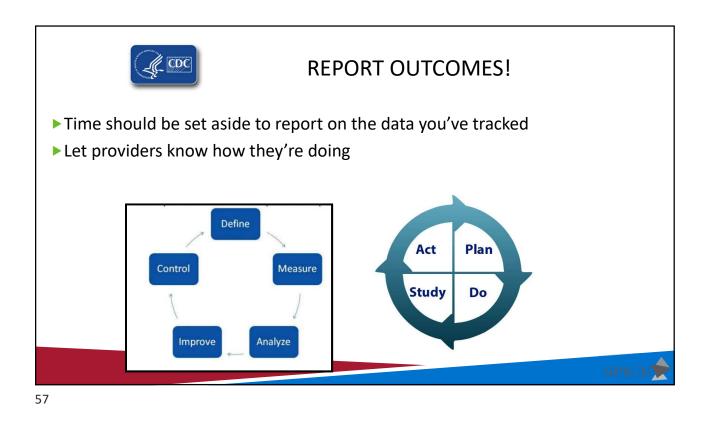


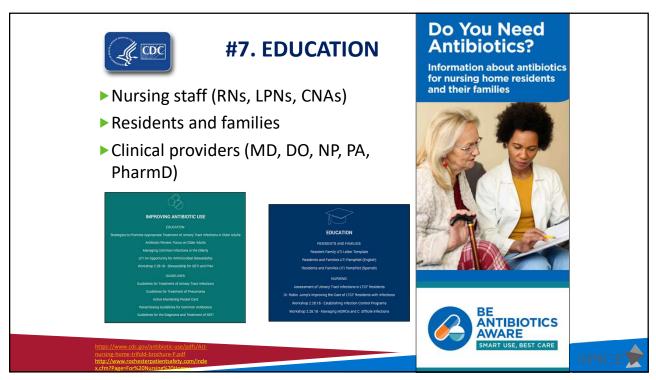




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IMPLEMENTATION MANUAL

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



