ABCs for Diagnosing Urinary Tract Infection in Long Term Care

Resident Name:		Date	e/Time:	
Nurse:		MD/NP/PA:		
UTI and a positive cu			esident requires clinical signs and symptoms of OF UTI ¹	
CHECK HERE IF CF	RITERIA ARE MET FOR SIG	NS OR SYMPT	OMS	
Resident without indwelling catheter*		*	Resident with indwelling catheter At least one of the symptoms below	
□ Fever + at least one of the symptoms below (new or increased) OR □ If no fever, at least two of the symptoms below (new or increased) □ Urgency □ Frequency □ Suprapubic pain □ Gross hematuria □ Costovertebral angle (CVA) pain or tenderness □ Urinary incontinence *Mental status changes alone are not specific enough to identify symptomatic urinal tract infection. See reverse side for alternative causes.		OR	(new or increased) □ Fever □ Costovertebral angle (CVA) pain or tenderness □ Rigors (shaking chills) □ Delirium □ Flank pain (back, side pain) □ Pelvic discomfort □ Acute hematuria □ Malaise or lethargy with no other cause	
Blood Pressure	Pulse	Temperatu	reRespiratory Rate	
Bacteria (Order urinalysis and culture & sensitivity if above criteria are met) Collect clean voided specimen if possible; in and out catheter if necessary. For residents with chronic indwelling Foley catheter, change catheter; send urine obtained from new catheter. Consider CBC, BMP if clinically indicated (e.g., lethargy, fever). The presence of an elevated WBC count suggests				
infection, with or with				
Urinalysis		Culture and	sensitivity	
Nitrite Leukocyte esterase Pyuria	☐ Positive ☐ Negative ☐ Positive ☐ Negative ☐ > 10 WBC urinalysis	Catheterize	ne culture: n specimen: $\geq 10^5$ cfu/mL with ≤ 2 organisms ed specimen (straight cath or newly placed cath): $\geq 10^3$ cfu/mL with ≥ 1 organism	
		□ Negative u	rine culture	

Care Plan	
Criteria met for UTI symptoms AND positive urine culture	Review for treatment with antibiotics Monitor vital signs Monitor fluid intake and increase if indicated
Criteria not met for UTI symptoms (with or without a positive urine culture)	Review for alternate diagnosis Monitor vital signs and symptoms Monitor fluid intake and increase if indicated Re-evaluate if above criteria for symptomatic UTI emerge
	n MD/NP/PA, if symptoms progress or if the resident has any of 100 or < 50, RR > 28/min or < 10/min, BP < 90 or > 200 systolic, se < 70 or > 300, unable to eat or drink.
Prior to t	reatment consider review:
Advance directives for limiting treatment (Medication Allergies: The resident is on warfarin (Coumadin)	(especially antibiotics): NO YES NO YES NO YES
Possible causes f	or mental status changes include:
ConstipationPainDehydrationMedication or dose changeHypoxia	Infections such as pneumoniaHypo/hyperglycemiaUrinary retentionEnvironmental triggers
NOTES	

 $Additional\ copies\ available\ at\ http://macoalition.org/evaluation-and-treatment-uti-in-elderly.shtml$

¹ CID 2010;50:625-663 (IDSA guidelines CA-UTI): ID 2009;48:149-171 (IDSA guidelines LTCF): ICHE 2001;22:120-124 (Loeb criteria) CID 2005;40:643-54 (IDSA guidelines ASB); Interact 3.0 Care Path Symptoms of UTI