



Senior Medicine Rotation: Evidence-Based Medicine Project

Resident Name: Judy Nam

Block:

Date: 4/12/05

Case SIGNOUT:

86 yo F h/o mild dementia, CRI, DM2, HTN, diastolic CHF, referred to ED by VNS for concern for home safety. Pt is at baseline alert and oriented x 2, unable to walk secondary to deconditioning. Urine sent from ED reveals 10-100 kcol/ml E.coli. Pt is afebrile, asymptomatic for UTI, and at baseline mental and functional status.

Clinical Question: Will holding antibiotics for asymptomatic UTI in this elderly woman affect her mortality?

Search Strategy

Database:

#	Search History	Results	Display
1	Bacteriuria/ or Urinary Tract Infections/ or uti.mp.	27470	Display
2	elderly.mp. or Aged/	1434279	Display
3	asymptomatic.mp.	58463	Display
4	MORTALITY/	22967	Display
5	1 and 2 and 3 and 4	5	Display
6	limit 5 to (humans and english language)	5	Display

Abrutyn E. Berlin J. Mossey J. Pitsakis P. Levison M. Kaye D. **Does treatment of asymptomatic bacteriuria in older ambulatory women reduce subsequent symptoms of urinary tract infection?** [Clinical Trial. Journal Article. Multicenter Study. Randomized Controlled Trial] *Journal of the American Geriatrics Society*. 44(3):293-5, 1996 Mar.



Senior Medicine Rotation: Based Medicine Project (Cont)

Group	Criteria or definition	n
Population screened.	Elderly ambulatory residents of long-term facilities	358
Inclusion criteria	Female, living in specified facilities	
Exclusion criteria	Indwelling foley, unable to provide mid-stream clean-catch urine sample	
Treatment group		166
No treatment group		192

Primary endpoints: Mortality

Secondary endpoints:

- Are the Results of the Trial Valid? Yes
 - Randomized? Yes
 - All patients accounted for at end? No
 - Intention to treat? Yes
 - Blinding? Yes
 - Equal treatment of groups? Yes
 - Did randomization work? Yes
- Are the Results of the Trial important? Yes

Endpoint	Result	Significance	ARR	NNT
Mortality	No difference	p>0.2		
Morbidity	Result	Significance	ARI	NNH

- Can I apply these results to my patient? No
 - Comparison of my patient to trial patients. My patient would have been excluded from this study due to her inability to provide mid-stream clean-catch urine sample. Also, she is not a resident in an institution, and is of lesser functional and mental status.