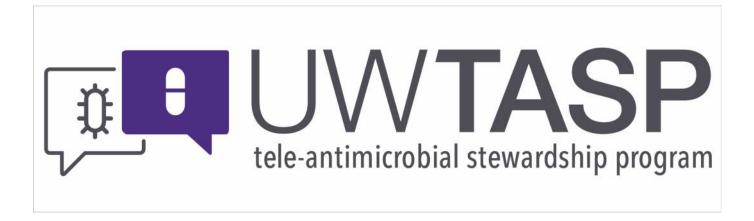


January 15, 2019

Agenda

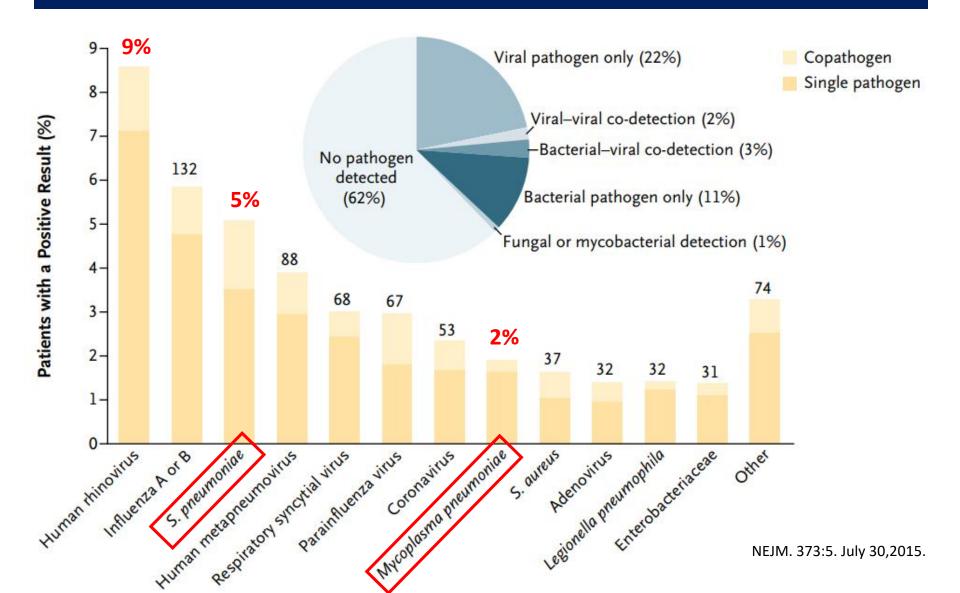
- Quick Hits: PNA, UTI and SSTI
- Case Discussions
- Open Discussion



Quick Hits: Stewarding Pneumonia

Zahra Kassamali Escobar, PharmD, BCPS UW Medicine | Valley Medical Center zescobar@uw.edu

Causative organisms in pneumonia identified in 38% of cases



What drives duration of therapy? History, the Solar System, and a Human hand



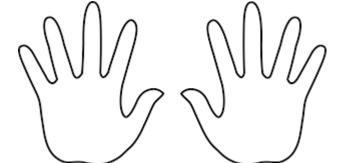
-Babylonians held the number 7 in mystical significance

-Ancient Chinese and Japanese based 7-day cycles on celestial bodies (Sun, Moon, Mars, Mercury, Jupiter, Venus and Saturn)

-Judaism, the world was created in 7 days

AD 321: 7-day week is formally codified by the Romans

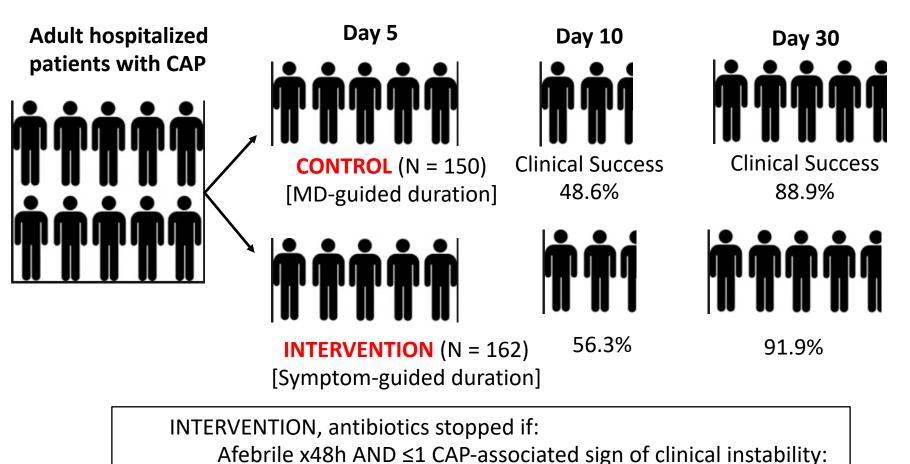
Constantine







Symptom-guided duration



[SBP < 90 | HR > 100 | RR > 24 | O2 Sat < 90% | PaO2 < 60 on RA]



Symptom-guided duration, some caveats

- 30% of subjects in the intervention received >5 days of antibiotic therapy
- Excluded patients living in a nursing home or prior hospital stay within 14 days prior to admit
- Excluded immunosuppressed patients
- No differences in LOS or length or days of IV antibiotic
- 80% of antibiotics selected were fluoroquinolones



JAMA Intern Med. 2016 Sep 1;176(9):1257-65.

From Publication to Patient

Sticky Notes to Physicians

Comment

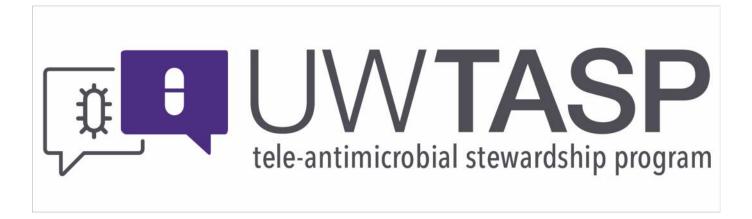
MD, IV fluids order was for 1 liter which is complete. Would you like to d/c the order now? Thank you, nursing.

2/1- Dr. Yuan, suggest d/c antibiotics after tomorrow's dose (2/2). Will have completed 5 days of abx which is non-inferior to longer duration for mild-moderate CAP. JAMA Int Med. 2016 Sep; 176(9): 1257-65. Thank you- Kevin S, PharmD x5636

Last edited by Kevin Stock, PharmD on 02/01/18 at 1206

View All





Quick Hits: Stewarding UTI

Chloe Bryson-Cahn, MD UW Medicine | Harborview Medical Center chloebc@uw.edu There are three truths: death, taxes, and the urine culture is gonna grow

Paul Pottinger MD



Sx of UTI: fever, urgency, frequency, dysuria, hematuria, suprapubic tenderness, or hypotension

UTI Symptom Myths

- Dark, foul-smelling, cloudy urine
- Dizziness, falls, decreased appetite, AMS
- DON'T CHECK THE URINE



UTI: Diagnostic Stewardship

Asymptomatic bacteriuria (and even pyuria)

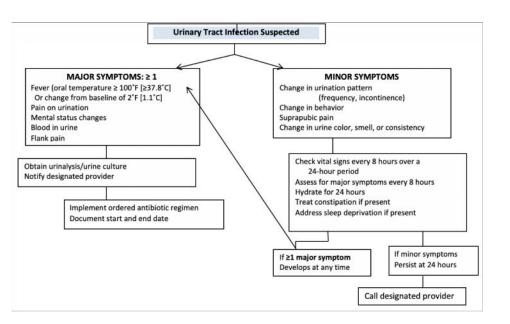
- ONLY TREAT: pregnancy, urologic procedure
- Common, increases with age and catheters
- Treatment does NOT improve outcomes
 - Not a/w lower rate of complications/death
 - Adverse drug events and rising resistance



UTI: Diagnostic Stewardship Strategies

IMPROVE APPROPRIATE TESTING

 Utilize education and algorithms



STOP INAPPROPRIATE Cx

 Reflex to culture only when UA is positive

(+LE, +WBC, +nitrites, + bacteria)

• NPV of pyuria is 90%+



UTI: Fluoroquinodon't

Cystitis

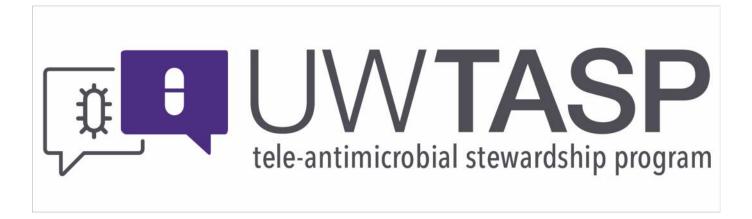
• FQ are NOT first line

Pyelonephritis

- FQ appropriate for outpatient treatment with sensitive organisms
- Duration 5-7 days (non-inferior to 14)



Peterson J, Urology, 2008



Quick Hits: Stewarding SSTI

John Lynch, MD UW Medicine | Harborview Medical Center jblynch@uw.edu

SSTI: Most Common Organisms

- Aerobic Gram-positive bacteria
- Staphylococcus aureus (MSSA and MRSA)
 Purulent SSTI like abscesses and wound infections
- Streptococcus pyogenes (aka Group A strep)
 Non-purulent SSTIs like cellulitis
- Vibrio vulnificis, aeromonas, peptostreptococcus, clostridia species
- Polymicrobial infections



10 Cellulitis Myths

- Myth 1: Skin that is red and swollen is definitely cellulitis.
- Myth 2: My patient has bilateral lower-extremity swelling and redness; my patient has bilateral cellulitis.
- Myth 4: All clinically stable, community-dwelling patients presenting to the ED with cellulitis should be treated with an antibiotic that has activity against MRSA.
- Myth 5: My patient requires hospitalization for cellulitis, therefore, my patient has a MRSA infection and requires MRSA targeted anti-infective therapy.



10 Cellulitis Myths

- Myth 7: Because one cannot tell whether cellulitis is caused by *Streptococcus* spp., MSSA, MRSA, Gramnegative or anaerobic pathogens, each patient needs to be treated with broad-spectrum antibiotic therapy.
- Myth 8: If the redness extends beyond the drawn wound margin in a patient with cellulitis, the patient is getting worse.
- Myth 10: All patients with tick bites and surrounding redness have cellulitis.



McCreay, J Emerg Med, 2017

