

May 9, 2017

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Agenda

- Didactic: Paul Pottinger MRSA Decolonization
- Case Discussion
- Open Discussion

URL: http://rwpoll.com

Code: uwecho





TASP at CDC



MRSA Decolonization: A World of Pain

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May 9, 2017

URL: http://rwpoll.com

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Disclosures



 Everything we discuss is QI, thus protected from legal discovery under WA State Code





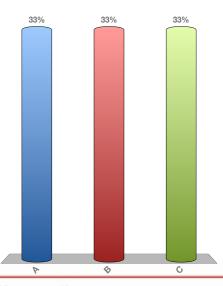
Question...

Do you have a standard MRSA Decolonization Protocol?



A. Yes

B. No



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MRSA: "A World of Pain"

Common Issues

MRSA commonly detected!

✓ When should we look, and how?

How to respond to it....

- ✓ Who should be treated?
- ✓ Who should be decolonized?
- ✓ How should we do it?
- ✓ What kind of follow-up is helpful?
- ✓ Can my patient come out of precautions?



THURSDAY, OCTOBER 18, 2007



RAINY and windy. High 56, low 45. > LOCAL B10

The Seattle Times

50¢ K

King, Pierce, Snohomish, Island, Kitsap and Thurston counties | 75¢ elsewhere INDEPENDENT AND LOCALLY OWNED SINCE 1896 | Se

Deadly superbug is here – why isn't it tracked?

NO LAW REQUIRES HOSPITALS TO REPORT IT

MRSA may kill 18,000 in U.S. this year, yet it's not tallied as closely as measles; "very alarming" data emerges in Pierce County

BY CAROL M. OSTROM Seattle Times health reporter

Instead of going to her first birthday party, little Anna De-Bord spent the weekend in the hospital with a superbug.

Anna had methicillin-resistant Staphylococcus aureus, or MRSA, a pathogen that has

learned to thrive even when treated with the most common antibiotics. At Children's Hospital & Regional Medical Center, doctors gave Anna more-powerful antibiotics and performed surgery on her skin infection.

But her battle with MRSA at Children's won't be tallied by

public-health officials or show up on reports tracking infectious diseases.

Unlike mumps or measles, MRSA cases need not be reported to public-health authorities in this state, even though health officials say they've been aware for years of the growing threat. A study published Wednesday in the Journal of the American Medical Association estimates that the most severe infections caused by this bug kill more than 18,000 Americans a year — more than die of AIDS.

Please see > MRSA, A11



ERIKA SCHULTZ / THE SEATTLE TIMES

Anna DeBord, 1, is back home after spending five nights in a hospital with the superbug.

A big eyeful for little visitors

Season's windstormay hit

Forecasters say arrive just in time f mute, with gusts i mph. While it wasn of the "great winds rupt traffic and power traffic and power says in the s

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MRSA Colonization: Should We Look?

Nasal Surveillance

- ICU Admissions
- SNF Transfers
- Consider if known prior colonization
- Consider if pre-orthopedic surgery





MRSA Colonization: Should We Look?

Wound Surveillance

 Chronic wounds often colonized... surveillance swab OR simply assume they are colonized and place on precautions (in general with wounds: "don't ask, don't

<u>tell</u>")





MRSA Colonization: What if we find it?

Enhanced Precautions

- Diligent Hand Hygiene on entry, exit, other opportunities in the room
- Gloves
- Gowns—tied properly!

Suspected, not yet proven?

Initiate empiric precautions!

Cohorting?

- Consider cohorting known MRSA pts together...
- BUT... STILL practice diligent precautions!





MRSA Colonization: Infected or Colonized?

Colonization

- Asymptomatic carriage... find it only when we look!
- ~3% of Americans colonized at some point (they are "carriers")



Infection

- By definition: Patient is HARMED
- Infection rates higher among carriers
- 80% due to same strain as the colonizing strain



MRSA Colonization: A Family Affair

Easily Shared

- 20-30% family contacts of index case colonized
- Clusters of secondary CA-MRSA infections reported
- May spread skin-to-skin or via fomites
- Much less common in HA-MRSA

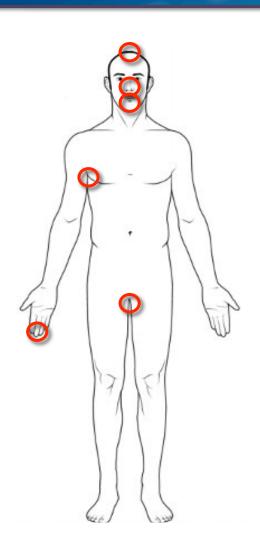




MRSA Colonization: Challenges

Diverse Anatomic Sites

- Nares
- Throat
- Hair (all of it)
- Axillae
- Nails
- Groin
- Rectum
- Vagina



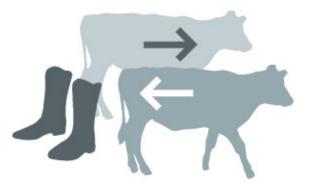


MRSA Colonization: More Challenges

Diverse Ecology

- Easily Spread
- Humans
- Pets
- Farm Animals
- Clothing
- Built Environment
- Natural World













Consider

- Recurrent SSTI
- Single severe infection
- Pre-joint implant



<u>Usually Not...</u>

- Single minor SSTI
- Clear precautions
- Curious HCW
- Anxious family



Systemic Antibiotics?

- Usually <u>NOT</u> indicated
- Data exist supporting addition of PO rifampin in assisting with success.... but, many drug interactions!
- Fine to start towards end of treatment course, but do not start treatment just to decolonize!





Nares

- Mostly anterior... MRSA likes hair!
- Mupirocin 2% cream BID x 7 days... but resistance rates not measured (may be 40%! and expensive... we use regular ointment sparingly
- Povidone Iodine attractive... but not approved for > 1 dose, effect lasts only a day, poor effect in sinus MRSA colonization
- Retapamulin has helped me... but off label, and very expensive





Skin

- 4% CHG soap
- Apply to whole body—except the eyes!
- "Yes... even down there"
- Lather up... then let it dwell for FIVE MINUTES before rinsing
- Repeat daily x one week
- We use SAGE cloths in ICU... expensive for home use, requires dexterity (or help)
- Trim nails, scrub gently with brush





Skin

- Chlorinated Water
- Easy to apply—if they have a tub
- "1/2 cup in a tub"
- Soak up to the neck x 30 minutes daily x 7 days
- "Yes... body hair may lighten"





Mouth

- Underappreciated reservoir
- 0.12% CHG mouthwash can be tried...
- Will stain teeth brown color (can be removed)
- Not well studied in decolonization

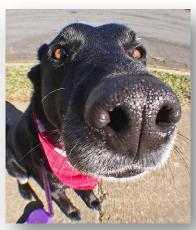




A World of MRSA

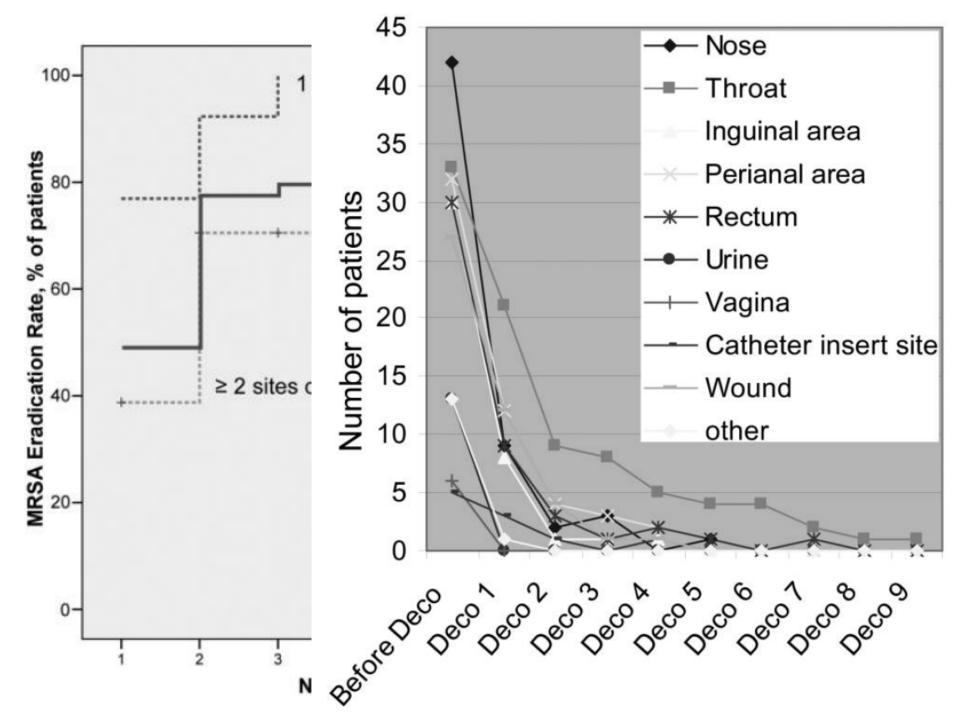
- Home hygiene counts
- No fomite sharing!
- Regular laundry is fine
- Everyone in the home should do it
- Pets? Good luck... don't suck their snout
- Repeat one or two weeks every month x 3 months











Conclusions

MRSA Decolonization: A World of Pain

- ✓ The more you look, the more you find...
- ✓ Consider decolonization for minor recurrences, or one bad infection
- ✓ Address nares, skin, environment
- ✓ Persistence may pay off... maybe
- ✓ Our protocol available to you online

