BC Cancer Agency CARE + RESEARCH

An agency of the Provincial Health Services Authority

ISSUE

The required duration of additional precautions for me resistant Staphylococcus aureus (MRSA) remains a h debated topic. Multiple studies have investigated risk may identify patients who are particularly prone to pe colonization or infection; malignancy is often sited. I there is insufficient data regarding the specific contril factors among the oncology population (e.g. underlying malignancy,

extent of disease, active treatment, etc.).

With the shift in oncology care to the outpatient setting, Infection Control programs face significant challenges implementing inpatientfocused guidelines.



Objective and Project

OBJECTIVE:

To ascertain current trends in isolation practices for patients with a history of MRSA in the outpatient oncology setting

PROJECT:

Infection Control Practitioners working in oncology from across Canada were polled regarding current MRSA management practices in their outpatient departments.

10 facilities participated in the poll spanning 8 different provinces



Duration of Precautions for Methicillin-Resistant Staphylococcus aureus in the Outpatient Oncology Setting: A Canadian Snapshot

<u>K.Harding¹</u>, G. Al-Rawahi¹, B. Catt², R. McCombie³, A. Chant¹, A. Ezelyk¹, R. Hunter¹, S.Kainth¹, J. Tearoe¹ ¹BC Cancer Agency, ²Sunnybrook Health Sciences Centre, ³Alberta Health Services

ethicillin-
nighly
factors that
ersistent
Despite this,
buting
ing

	CENTER A	CENTER B	CENTER C	CENTER D	CENTER E	CENTER F	CENTER G	CENTER H	CENTER I	CENTER J
Do you de-flag patients?	YES	YES	YES	YES	YES	YES - Upon Request	YES	No	YES	YES , but patient is re- flagged as "MRSA Previous"
Criteria for de- flagging	 No waiting period 3 consecutive Neg swabs, 1 week apart. 	 3mths waiting period 3 consecutive Neg swabs, no timeframe between. 	 18mths waiting period 3 consecutive Neg swabs, 24hrs apart. Oncology Specific: Immunocompro- mised patients are excluded until remission (taken case-by-case) 	 1 year waiting period 3 consecutive Neg swabs, 24hrs apart. 	 10yr waiting period 3 consecutive Neg swabs, 1 mth apart. Oncology Specific: Taken case-by-case dependent on risk factors for recolonization 	 No waiting period 3consecutive Neg swabs, 1 wk apart. 	 3mos waiting period 3 consecutive Neg swabs, 1 week apart Oncology Specific: Pts on active chemo/RT must not be on decline from baseline performance status Taken case-by-case dependent on risk 	• N/A	 1 year waiting period 1 Neg swab required Patient does not reside in a LTC facility 	 No waiting period 3 Neg swabs, do not need to be consecutive Swabs, 1 week apart
Swabbing protocols	 Nares Rectal Site of original +ve 	 Nares Rectal/Perineal/ Groin Open wounds Site of original +ve 	 Nares Groin Open wounds Exit sites of invasive devices 	 Nares Perianal Open wounds, lesions, incisions Exit sites of invasive devices Site of original +ve 	 Nares Perianal/rectal Open wounds Exit site of invasive devices Throat 	 Nares Open wounds Exit sites of invasive devices Urine (only if initial MRSA was in urine) 	 Nares Groin Site of original +ve 	• N/A	 Nares Site of original +ve Exit sites of invasive devices 	 Nares chronic wounds
Monitoring post de-flagging	No	No	No	No	Yes Re-swab q6mths	No	No	N/A	No	Yes Using "MRSA Previous" flag as trigger
Isolation Practices while flagged	 RP for "Well visit" CP for physical exam/ non- or minimally invasive procedure 	 RP for colonized patients CP for those with transmission risk factors 	 RP + CP No segregation or end of the day visits 	 CP for direct care No PPE required for consults 	• RP + CP	• RP	• D&C regardless of colonization/infection (To trigger point-of-care risk assessment)	• RP	• RP	• CP
Active ARO screening in outpatient setting	No	No	None stated	Yes (Risk Based)	No	No	No	No	No	No

RP: Routine Practices, CP: Contact Precautions, D&C: Droplet and Contact Precautions

Results (Table 1)

- The majority of centers surveyed have processes for removing MRSA flags
- Timeframe for MRSA status reassessment ranges from no waiting period to 10 years
- Most facilities surveyed apply similar criteria to general inpatient guidelines
- Time interval between re-screening swabs ranges from no required interval to one month
- ✤ 3 of the 9 facilities who de-flag patients for MRSA take into consideration cancerrelated factors e.g. active treatment, extent of disease.
- Isolation practices for MRSA patients vary from contact precautions to routine practices. Some facilities take into consideration the type of visit.
- In general, active ARO screening is not occurring in the outpatient setting.

MRSA management in outpatient oncology: Survey results

- Control and Hospital Epidemiology 2006; 27: 1206-1212.

- Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings.

Lessons Learned

There is significant variation in MRSA management in this specialized setting The role of a cancer diagnosis as a risk factor of MRSA carriage remains undefined Only 3 of the 9 facilities who de-flag take into consideration cancer-related factors There is an increasing shift to the implementation of good routine practices over standard contact precautions for patients carrying MRSA.

REFERENCES

Coia JE, Leanord AT & Reilly J. Screening for methicillin-resistant Staphylococcus aureus (MRSA): who, when, and how? BMJ. 2014; 348: g1697 Marschall J & Muhlemann K. Duration of Methicillin-Resistant Staphylococcus aureus Carriage, According to Risk Factors for Acquisition. Infection

Schaefer AM, McMullen KM, Mayfield JL, Richmond A, Warren DK & Dubberke ER. Risk factors associated with methicillin-resistant Staphylococcus aureus colonization on hospital admission among oncology patients. American Journal of Infection Control. 2009; 37: 603-5 Shenoy ES, Paras ML, Noubary F, Walensky RP & Hooper DC. Natural History of colonization with methicillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant Enterococcus (VRE): a systematic review. BMC Infectious Diseases 2014; 14: 177. 1-13 Siegel JD, Rhinehart E, Jackson M, Chiarello L. & the Healthcare Infection Control Practice Advisory Committee. 2007. Guideline for Isolation