Summary of Interventions for Antibiotic Resistant Organisms (ARO)

Intervention Element	MRSA Methicillin-resistant Staphylococcus aureus	VRE Vancomycin-resistant Enterococci	CPE Carbapenemase Producing Enterobacteriaceae	ESBL Extended Spectrum B-lactamase Producing Bacteria
Initiation of Contact Precautions (Routine Practices plus Gloves & Gown when providing direct care)	Receipt of positive culture result OR Admission of known MRSA-positive patient (internal flag or communication from other health care setting) OR High risk individual, pending culture results	Receipt of positive culture result OR Admission of known VRE-positive patient (internal flag or communication from other health care setting) OR High risk individual, pending culture results	Receipt of positive culture result OR Admission of known CPE-positive patient (internal flag or communication from other health care setting) OR High risk individual, pending culture results OR Roommates and other contacts pending culture results	Based on facility's ESBL program
Accommodation	Appropriate placement and bed spacing Single room preferred MRSA is most commonly spread via the transiently colonized hands of health care workers. Hand hygiene and environmental surface cleaning are, therefore, important measures to prevent transmission.	Single room with own toileting facilities (toilet or commode)	Single room with dedicated own toileting facilities essential (toilet or commode)	Single room with own toileting facilities (toilet or commode)
Environmental Cleaning	 Routine daily cleaning/ disinfection Routine discharge/ transfer cleaning and disinfection Discard supplies remaining in room Remove and launder privacy and shower curtains 	 Routine daily cleaning/ disinfection and consider double cleaning Double cleaning in an outbreak Routine discharge/ transfer cleaning and disinfection Remove and launder privacy and shower curtains Discard toilet brush and supplies remaining in room 	 Routine daily cleaning/disinfection Pay particular attention to sink cleaning/disinfection Routine discharge/transfer cleaning and disinfection Discard supplies remaining in room Remove and launder privacy and shower curtains Discard toilet brush/swab 	 Routine daily cleaning/ disinfection Routine discharge/ transfer cleaning and disinfection and Discard supplies remaining in room Remove and launder privacy and shower curtains Discard toilet brush/ swab
Laundry		ng to PIDAC Best Practices for Settings – 2nd edition, May, 20		evention and Control of



Summary of Interventions for Antibiotic Resistant Organisms (ARO)

(continued)

Intervention Element	MRSA Methicillin-resistant Staphylococcus aureus	VRE Vancomycin-resistant Enterococci	CPE Carbapenemase Producing Enterobacteriaceae	ESBL Extended Spectrum B-lactamase Producing Bacteria
Discontinuation of Contact Precautions	 3 negative cultures taken at least one week apart if decolonization has been successful If LTC, 3 negative cultures taken at least one week apart 	Minimum 3 successive negative cultures with at least one culture taken three months after the last positive culture	 Contact precautions for duration of acute care hospitalization Discontinue contact precautions for patients with risk factors or contacts when screening is complete 	Based on facility's ESBL program or for duration of acute care hospitalization In LTC, 3 negative results from all colonized/ infected body sites taken at least one week apart, in the absence of antibiotic therapy
Decolonization	 Patient/Resident: Only in an outbreak Staff: Only if colonized/infected with outbreak strain 	NO		
Patient/ Resident Risk Factors	 Spent 12 or more continuous hours in a health care setting in the past 12 months Received health care in another country 		 Received health care in a country or hospital that has reported transmission of CPE Previously colonized or 	 Previously colonized or infected with ESBL Antibiotic treatment, especially betalactams or fluoroguinolones
	 Previously colonized or infected with MRSA Contact of a MRSA case Indwelling medical device Injection drug use Immune compromised Communal setting, contact sports (risk for CA-MRSA 	 Previously colonized or infected with VRE Contact of a VRE case Recent exposure to second or third generation cephalosporins 	infected with CPE • Contact of a CPE case	 Prolonged hospital stay, ICU stay Exposed to a health care setting with ESBL outbreak Contact of a ESBL case Indwelling medical device Transplant recipient
Re-Screening Infected/ Colonized Cases	 If treated for infection, after antibiotics have been discontinued If decolonized, 3 sets of cultures taken at least 1 week apart If decolonized and Additional Precautions (AP) discontinued, screen weekly for duration of admission In long-term care, re-screen no more frequently than every 3 months If Additional Precautions have been discontinued, re-screen monthly for 6 months 	Ideally, no re-screening For discontinuation of AP, begin re-screening no sooner than 3 months after last positive and take 3 cultures at least one week apart, for 3 consecutive negative cultures	No re-screening for current admission to acute care hospital Duration of colonization may be prolonged. There is insufficient evidence to recommend frequency of re-screening	No re-screening unless risk factors change



Summary of Interventions for Antibiotic Resistant Organisms (ARO)

(continued)

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Screening Contacts of Cases	 2 sets of specimens taken on different days, with one taken a minimum 7 days after last exposure Re-screen if ongoing transmission of MRSA/VRE Point prevalence where there is an MRSA/VRE outbreak 		 Minimum 3 sets of specimens taken on different days, with at least one taken 21 days after last exposure Re-screen if ongoing transmission of CPE Point prevalence following identification of a single new case of CPE on a unit 	Based on facility's ESBL program or for duration of acute care hospitalization In LTC, 3 negative results from all colonized/infected body sites taken at least one week apart, in the absence of antibiotic therapy	
Screening in an Outbreak	 All contacts -roommates and others in close geographical proximity to source patient. For screening of staff cases consult with outbreak coordinator. Weekly prevalence screening until no further transmission. 				
Specimens	Anterior nares AND Perianal, perineal or groin swab AND Lesions/wounds, incisions, ulcers, exit sites	StoolORRectal swab	 Stool OR Rectal swab AND, if indicated Urine Wounds Exit sites (critical care) 	StoolORRectal swabAND, if indicatedUrine	

Note: All health care settings in Ontario must be able to manage patients who are colonized with antibiotic resistant organisms Excerpts from PIDAC: Annex A-Screening, Testing and Surveillance for Antibiotic-Resistant Organisms (AROs) / February, 2013

