

















Infection Prevention and Control

Multi Drug Resistant Organisms (MDRO's)

> Patricia Coughlan, Infection Prevention & Control Nurse
> HSE South, Cork & Kerry Disability Services
> September 5th 2014

Overview

- Guidelines on Multi-drug resistant organisms (MDROs)
- · Risk factors for Acquisition of MRDOs
- Infection Prevention and Control Measures when caring for residents carrying Multi Drug Resistant Organisms
- Case Scenarios
 - · Management of MRSA
 - Management of VRE





National Guidelines

www.hpsc.ie under A-Z

Guidelines on the Prevention and Control of Multi-drug resistant organisms (MDRO) in healthcare settings. 2012



IP&C of MDROS in Residential Care Facilities 201



National Guidelines

www.hpsc.ie under A-Z

Prevention and Control of Methicillin Resistant Staphyloccus aureus (MRSA) National Clinical Guideline 2





MDRO's - the problem

- Antimicrobials are one of the most significant discovery's of modern medicine · Antibiotic resistance established and growing
- worldwide public health problem
- · Few therapeutic options available
- · Cost- financial and personal



MULTIDRUG RESISTANT **ORGANISMS**



Microorganisms which are resistant to one or more groups of antimicrobials and include but not limited to the following

- Gram positive organisms such as
 Methicillin Resistant Staphylococcus aureus
 (MRSA)
 Vancomycin Resistant Enterococci(VRE)
 Gram negative organisims such as
 ESBL(extended -Spectrum Beta-Lactemases) -producing E.coli and
 Carbapenem Resistant Enterobacteriaceae





Risk Groups for Acquisition of MDRO's



- •Increasing age & underlying burden of co morbidity
- ·Increased contact with health services - particularly high dependency areas
- Antibiotic use
- · Presence of invasive devices
- · High prevalence of colonisation with MDROS has been documented in residents of LTCFs



	Preventing Antimicrobial Resistance in the Healthcare Setting		-	
	Use antimicrobials wisely-		-	
	Treat patient/resident not			
	laboratory result			
	•Treat infection not colonisation			
	Treat infection not contamination Practice antimicrobial control		-	
	•Stop antimicrobial when			
	appropriate			
	•Seek expert advice			
	V			
Clark	ings /	UCC		
are	195 I	Behands Gallan Desi, terani Colibia ne FO loca e Corpulati	-	
	Prevention & Control Measures			
	in Residential Care Facilities		-	
	• Communication.		-	
	• Standard Precautions			
	Hand Hygiene.Environmental Hygiene.		-	
	Healthcare Personnel Education.			
	•Use of Devices.		-	
	•Antimicrobial Stewardship.			
	•Additional Precautions Transmission		-	
	Based Precautions.			
		E TIOO	-	
	IP&C of MDROS in Residential Care Facilities 2014	UCC		
			-	
	Infection Prevention &			
	Control Measures		-	
	 Standard Precaution must be used when caring for all resident's/clients regardless 		-	
	of known or unknown status in respect of			
	MRDO's. • Standard Precautions limit the		-	
	transmission from potentially colonised			
	individuals.Note surveillance cultures may fail to		-	
	identify colonisation			
	due to lack of sensitivity,laboratory methods or			
	 intermittent colonisation due to antimicrobial therapy. 			
	uiciapy.			

UCC

MULTIDRUG RESISTANT	Ī
ORGANISMS	

- Antimicrobial resistance is an evolving process and advice should be sought from Infection Prevention and Control Nurse in relation to the infection prevention and control management of any resident colonised or infection with a MDRO.
- Additional precautions such as Contact Precautions maybe advised for the management of some MDRO's further advice should be sought from your Infection Prevention and Control Nurse.

TORC of MODOC is Desidential Core Facilities 2014



Key infection control recommendations for settings outside the hospital applicable to all MDRO

- MDRO colonised patients should not be declined admission to a long-term care facility (LTCF), day care facilities or rehabilitation services or have their admission delayed on the basis of positive MDRO colonisation status.
- Isolation of a resident with MDRO is generally not required in LTCF.
- Standard Precautions are required for the care of all patients, including patients colonised with MDRO in LTCF.
- The need to place a MDRO colonised patient in a single room or to use Contact Precautions should be determined based upon local risk assessment on a case-by-case basis.
- Routine screening for MDRO is not recommended for LTCF.
- Ref Guidelines on the Prevention and Control of Multidrug resistant organisms (MDRO) in healthcare settings. HPSC 2012

IP&C of MDROS in Residential Care Facilities 201-



Overview

 Infection Prevention and Control Measures for Managing MDROs

Case Scenarios

- Management of MRSA
- Management of VRE



Γ	_		
	1	١	

Case Scenario 1

- James is a 88 year old gentleman and has been living in residential care facility for the last 3 years, he attends a local day care centre 2 days a week.
- He shares a two bedded room with another gentleman.
- Previous history of MRSA in nasal and wound swabs – 1st isolated in 2005 while an in patient in an acute hospital for management of leg ulcers
- Currently James has no wounds, and is well.
- · How would you manage James's care?

IP&C of MDROS in Residential Care Facilities 2014



What is *Staphylococcus* aureus?

Staphylococcus aureus (S. aureus).

- gram-positive bacterium
- common cause of infection minor skin to life threatening septicaemia
- numerous sub types of S. aureus
- nasal carriage in 30% of population at any one time, will occur in up to 80% at some
- Risk of infection increased in vulnerable groups
- Treatable with antibiotics

IP&C of MDROS in Residential Care Facilities 201



What is Methicilin Resistant *Staphylococcus aureus*?

- A strain of staphylococcus aureus which is resistant to the majority of antibiotics making it difficult to treat.
- Seen in both community and hospital settings
- Majority of people are colonised with MRSA
- Colonisation is...
- $\ensuremath{\:\raisebox{1pt}{\text{\circle*{1.5}}}}$ the presence and multiplication of micro organisms
- $\boldsymbol{\cdot}$ without signs and symptoms of infection
- Infection is...
 - the invasion of body tissues by pathogenic and opportunistic organisms
 - with clinical signs of infection present
 - in the right setting MRSA can cause severe infectonsbloodstream (BSI), pneumonia, skin & soft tissue (SSTI),



Evolution of MRSA • 1940's, penicillin resistance emerges •1950's, 95% penicillin resistance • 1959, methicillin introduced in the UK • 1961, methicillin resistance first reported • 1960's, methicillin used in labs to detect resistance • 1970's, MRSA outbreaks in UK & Europe • 1979, major outbreak in Melbourne Hospital Australia • 1981, first epidemic MRSA strain (EMRSA1) **UCC** Who is at risk of infection? • MRSA can cause serious infections e.g. bacteraemia, bone & joint infections, surgical wound infections Patients most at risk of developing infection are those · Seriously ill debilitated ,immunocompromised · In Intensive Care Units, Oncology Units, Burns Units, • With a variety of invasive devices i.e intra vascular catheters, catheters. • Who have had implant surgery - joint replacements **UCC** Factors Predictive of Colonisation & Infection Host Factors predictive of colonisation & infection amongst residents of LTCF include · Advancing age Antibiotic use (independently associated with MRSA colonisation) Poor functional status Hospitalisation · Presence of invasive devices **UCC**

Carriage of MRSA in LTCF



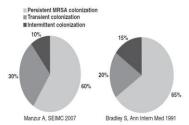


FIG. 1. Methicillin-resistant Stophylococcus aureus (MRSA) colonization among residents in long-term-care facilities; relative frequency of persitence vs. transient carriage.

IP&C of MDROS in Residential Care Facilities 2014

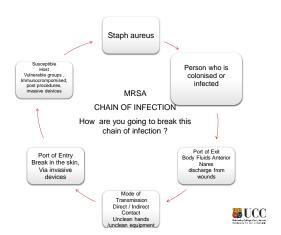


MRSA in LTCF



- High prevalence of MRSA carriage amongst residents of LTCFs
- Frequency of infection with MRSA in these settings appears to be low whilst colonised residents remain at the facility.
- Colonisation amongst residents of nursing homes in Belgium was associated with a higher mortality rate, but the excess mortality rate was restricted to residents with impaired cognitive function.
- The findings showed that no excess mortality was found amongst residents with normal or moderately impaired cognitive function.
- A longitudinal prevalence study in the UK found that MRSA was associated with previous and subsequent MRSA infection but was not significantly associated with subsequent hospital admission or mortality.





Key Issue in providing care for James

- •Adherence to Standard Precautions by all carers when providing care for James at all times!
- •Adherence to Hand Hygiene for all- staff, resident & visitors.
- •Individualised care for all residents.
- Managing care equipment and the environment.

IP&C of MDROS in Residential Care Facilities 2014



What if this were in James bathroom?



Are there infection risks in James bathroom?



Would this be safe for James?



Case Scenario 1b

- James requires elective admission to an acute hospital for hip replacement
- •On prep op assessment James was screened, a nasal swab was MRSA positive.
- You are the nurse planning James care . What do you do?





Key Issues to consider to promote successful decolonisation

- Communication

 - With pre-op clinic
 Link with IPCN where available
- Is there a care plan?
- Has a decolonisation protocol & pack been provided, if not where will this be sourced?
- When will re screening be carried out?
- What swabs are needed?
- What information should be on the lab form?
- · How will results be communicated?
- · Who informs James of the results?



1	Λ
1	U

Key Issues to consider to promote success of decolonisation

- •Standard Precautions adhered to by all carers at all times!
- Consider single room for duration of decolonisation protocol NOT ISOLATION
- Change linen and clothing each day
- •If a 2nd protocol is required use a 2nd decolonisation pack
- •Encourage James with hygiene



	IV.	1.R.S.A	TOPICA	AL DECO	LUNISA	TIONP	KUTUC	JL .		
				D PROTOCO						
Name:	Δ. Pre -	Treatmen		Vard:	МВ	N/DOB:				
						,				
	B. Treat	ment Dat	es	Commend	ed /	- 1	Un	itil	1 1	
ite	TREATMENT	DOSE	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	Day 8 & 9
			STAFF TO	SIGN/INITIA	L EACH SEC	TION AS PR	OTOCOL IS	ADMINISTE	RED	
SKIN WASH	Chlorhexidine Gluconate 4% (Hydrex)	DAILY in place of soan								5
HAIR	Chlorhexidine Gluconate 4% (Hydrex)	Topically to hair		Hairwash NOT DUE today		Hairwash NOT DUE today		Hairwath NOT DUE today		SEE
AXILLAE	Chlorhecidine acetate(CX Powder)	08.00		today		today		today		DATE
GROIN	Chlorhexidine acetate (CX Powder) Apply from waist to knee	08.00								SEE DATES BELOW FOR SCREENING
NOSE	Mupirocin 2% Nasal ointment	09.00								W FOR
	(Bactroban)	14.00								"
		22.00								#
				ROTOCOL	SCREEN	ING				_
1			2	If first scree			3		en negative	

Nursing Care Plan for Client reciving MRSA Decolonization Treatment Name: Location: Date Completed:	
An individual care plan should be devised	
The patient will have topical decolorisation protocol for seven days. After this time the protocol in than altegoriff or re-screening. The screen sites and dates will be identified on the protocol administration wheet. 3 negative screening fort below 40-72 bours, second and blood 4 days. Clearly blood bits organized forms "as required by finitional control".	
Use topical proporations as follows: J. mich hadron; Challensachine Chalconals, 410 (Hydres) as par. J. mich hadron; Challensachine Chalconals, 410 (Hydres) as par. J. mich hadron; Challensachine Ch	
Screening after includes: - Result (Samb used on both nontrin) - Aufli (Samb used on both nontrin) - Aufli (Samb used on both auflier)-may not be required in some - Comin (Samb used on both profine) - Worker - Worker - Worker - Spatter	
HSE - Seath Cork & Kerry Disability Senices, 2007 Entered 80 2019 (Adapted Fron CSE Core Fato) IPRC of MDROS in Residential Care Facilities 2014	UCC

Prevention and Control of Methicillin Resistant <i>Staphyloccus aureus</i> (MRSA) (2013) National Clinical Guideline 2		
Recommendations relevant to Non-acute healthcare given on which are detailed in the next 15 slides 1. Communication 2. Screening 3. Infection Prevention & Control Programme 4. Infection Prevention and Control Measures 5. Facilities 6. MRSA in the Home 7. Eradication of MRSA (Decolonisation) 8. Antimicrobial Stewardship		
IPBC of MOROS in Residential Cure Facilities 2014	SECONDARIA	
Communication		
Good communication between healthcare facilities is essential to prevent and control MRSA. Healthcare facilities should be informed on admission and discharge of recent MRSA screening results, decolonisation treatments received and any requirement for post decolonisation screening. This should be included in the transfer documentation. Grade D IPAC OF MOROS in Residential Care Facilities 2014	SE UCC Considerations	
Screening		
Expert advice should be sought before embarking on screening for MRSA. Routine screening for MRSA in non-acute healthcare settings is not recommended. Carriage of MRSA is not a contraindication to the transfer of a patient to a non-acute healthcare setting.		
Routine screening before discharge to a non-acute healthcare facility or home is not required.		
IPBC of MDROS in Residential Care Facilities 2014	UCC	

Screening contd

- · Screening before admission to an acute hospital setting may be required, especially, pre operatively for an elective procedure.
- · The need for screening prior to admission should be determined by the patients' consultant in conjunction with the hospital infection doctor, prevention and control team.
- Screening after decolonisation treatment will not normally be required after discharge. However, screening after decolonisation treatment may be requested in certain cases for example;
 - pre-operatively on the advice of the hospital admitting physician/surgeon
 - 2. where a patient is to be readmitted to hospital for further treatment



Infection Prevention & Control Programme

Non-acute healthcare facilities should have an infection prevention and control program which incorporates

1. Monitoring for problems, including outbreaks of infection.

2. Routinely assessing all residents for their risk of acquisition or transmission of infection

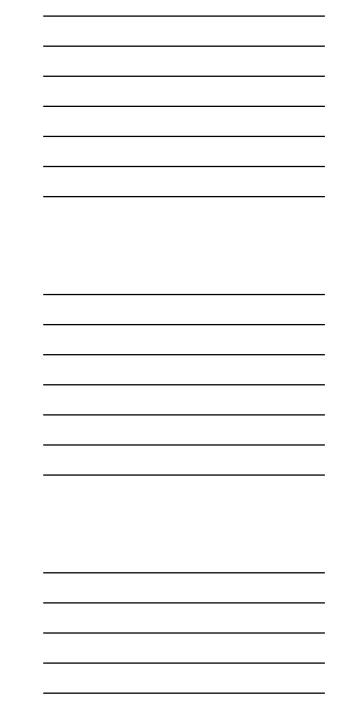
- Education of employees in infection prevention and control precautions.
 Policy and procedure development and review.
- 5. Monitoring of care practices.
- 6. Occupational health.7. Antibiotic stewardship.



Infection Prevention & Control Measures

- Standard Precautions are advised for the care of all residents regardless of MRSA status $\,$
- All residents should be encouraged to practice good hygiene and be assisted with this if required.
- Isolation of a resident colonised with MRSA is not generally required as this may adversely affect rehabilitation of the resident.
- The potential for transmission of infection should be considered in resident placement decisions.
- Local risk assessment of the individual and the environment will be required prior to placement, i.e. in the presence of an exudating wound which can not be covered single room placement may be appropriate.
- Contact Precautions may be required where a resident has an infection caused by MRSA or to control outbreaks of MRSA





Facilities · Routine facilities in all non-acute healthcare facilities should include adequate sinks for staff hand washing, liquid soap and paper towels in wall mounted dispensers, alcohol hand rub and hand cream. • In non-acute healthcare facilities, single rooms with hand hygiene facilities should be available which can be used for infection prevention and control · Newly built non-acute hospital inpatient accommodation should comprise a minimum of 50% single-patient rooms. **UCC** Education · Education on standard precautions and relevant national infection prevention and control on national policies should be provided for all staff in non acute healthcare settings. · Education on the use of invasive devices such as urinary catheters, enteral feeding tubes and tracheostomies should be provided to healthcare staff in non-acute healthcare facilities. **UCC** Decolonisation of MRSA • MRSA decolonisation is not sufficiently effective to warrant routine use in all colonised patients.

UCC

Excessive use of mupirocin, should be avoided as this will select for resistance.
Decolonisation may be considered in certain cases but the likely success or impact of such therapy should be risk assessed to evaluate the aim, the required agents and whether it is likely to

be successful.

14

Eradication of MRSA- when should decolonisation be attempted?	
Attempt at decolonisation may be considered in the following groups	
Patients colonised with MRSA who are due to undergo an elective operative procedure especially high risk surgery e.g. cardiothoracic surgery, orthopaedic implant.	
implant. 2. Patients in a clinical area where there is a high risk of colonisation leading to invasive infection, e.g. the ICU/NNU.	
ICU/NNU. 3. If the risk of infection is high and the consequences severe e.g. immunosuppressed patients.	
As part of a strategy to address uncontrolled transmission despite the use of other measures.	
IPBC of MDROS in Residential Care Facilities 2014	UC
Eradication of MRSA- when should decolonisation be attempted?	
In patients with colonisation at non-nasal sites	
 In patients with colonisation at non-nasal sites there is a high possibility that decolonisation therapy will fail. Therefore use, in such populations, should be carefully considered and the aim and likely outcome taken into account 	
before such therapy is initiated.	
Attempts at decolonisation are unlikely to be successful in patients with chronic skin conditions, ulcars, indwelling urinary catheters and therefore.	
ulcers, indwelling urinary catheters and therefore use in such populations should be carefully considered and the aim and likely outcome taken into account before such therapy is initiated.	
IPBC of MDROS in Residential Care Facilities 2014	# UCC
Antimierobial use in lang tarm as "-	
Antimicrobial use in long term care facilities – Practical Guidance	
Antibiotic stewardship programmes should be	
 implemented for long term care facilities. When antibiotics are prescribed to treat MRSA, local advice should be sought from the consultant 	
microbiologist or infectious diseases physician. The use of antibiotics associated with MRSA	
selection or resistance should be avoided or minimised as much as possible. These include cephalosporins, macrolides and fluoroquinolones.	
Topical therapy for superficial MRSA skin infections should not be used without advice from	
a consultant microbiologist or an infectious diseases physician.	

UCC

Appendix VII

Infection prevention and control measures advised when caring for residents colonised or infected with MRSA in residential care facilities.





Prevention and Control Methicillin-Resistan Staphylococcus aureus (MRSA)





Placement in Residential Care Facilities



UCC

- Placement
 - Consider the potential for transmission in all resident placement decisions
 - Single room placement with Contact Precautions for residents with MRSA is not generally recommended

Exceptions might be

- a resident with wounds heavily colonised with MRSA, (where the wound can not be covered)
- or a resident with a tracheostomy who is unable to control their secretions



IP&C of MDROS in Residential Care Facilities 2014

Placement in Residential Care Facilities

Residents known to be colonised with MRSA

- Can participate in group activities provided wounds are covered and good hand hygiene is adhered to.
- Can share a room with resident at low risk of acquiring MRSA
- Where facilities are available should not share with residents at increase risk of acquiring MRSA
- Residents colonised should receive care in rooms
- Single room placement for residents with wound which can not be covered





Overview

- Infection Prevention and Control Measures for Managing MDROs
- Case Scenarios
- Management of MRSA
- Management of VRE

IP&C of MDROS in Residential Care Facilities 201

UCC

VRE – Vancomycin Resistant Enterococci

- •Enterococci normal bacteria flora of the human and animal bowel over 17 different species.
- Enterococci have intrinsic resistance to many antimicrobials
- Enterococci are relatively poor pathogens usually causing colonisation rather than infection



VRE - Vancomycin Resistant Enterococci Risk Groups · oncology & transplant patients, · residents with indwelling devices, · haemodialysis patients, • recent hospitalisation in high dependency, • recent antibiotics vancomycin, third generation cephalosporins **₿**UCC Susceptible Host Causative Vulnerable groups Organism unocrompomised, Enterococci th invasive deivices **VRE** Reservoir Port of Entry **CHAIN OF INFECTION** Bowel of Break in the skin, Humans How are you going to invasive devices Animal break this chain of infection? Mode of Port of Exit Transmission Through body fluid Peron to Person ecretions, excretions Direct or Indirect Co **UCC** Unclean hands /unclean equi Case Scenario 2 • Mary is 84 year old resident in a residential care facility. Recently treated in hospital for pneumonia requiring care in a high dependency unit. During her admission Mary was found to be carrying VRE (Vancomycin Resistant Enterococci). Mary has recovered and is returning to her residential care facility • What IP&C precautions will be required when caring for Mary on her return? · Standard or Contact ?? **UCC**

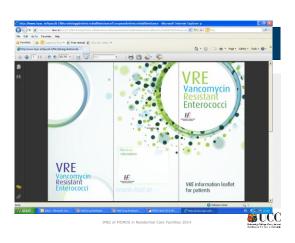
VRE - Vancomycin Resistant Enterococci Infection Prevention and Control Precautions

- Standard Precautions are advised for all residents including those colonised with VRE
 Placement assess the risk of dispersal of the microorganism into the environment
- Screening not indicated in RCF
- Decolonisation not applicable to VRE

- Decolonisation not applicable to VRE
 Communication
 resident should be aware of diagnosis,
 on discharge the receiving health care facility/RCF
 should be informed of status of the resident/patient.
 VRE is not a contraindication to admission to a RCF, access to day services or rehabilitation.
 People with VRE should be advised on and assisted to adhere to good hygiene practices i.e. hand hygiene after using the bathroom or touching any wounds or devices as a matter of routine.









Case Scenario 2b

- Two weeks after discharge Mary develops diarrhoea.
- What actions do you take to prevent and control infection?

IP&C of MDROS in Residential Care Facilities 201

UCC

Consider causes of Diarrhoea?

- Infectious causes of diarrhoea include *C.Difficile*, Norovirus, salmonella and other bacteria & viral infection.
- In a resident known to be colonised with VRE diarrhoea will increase the risk of dispersal of the microorganism into the environment
- In a RCF all residents with diarrhoea which is suspected to be infectious should be placed in a single room on Contact Precautions
- · What is diarhea?



Contact Precautions		
Refer to Guidelines on Infection Prevention and Control for Community & Disability Services Section 6 HSE South 2012 Management of MDROS Appendix 5 _ Summary of Contact Precautions www.hpsc.ie		
IFIC of MOROS in Residential Care Facilities 2014	SACRETY STREET	
Contact Precautions		
Placement -single room with en suite facilities or designate toilet or commode Hand Hygiene - AHR (if hands visibly clean) or antimicrobial soap- Soap & Water if in contact with diarrhoea PPE - gloves when in direct contact with the resident or their immediate environment, apron or gown depending on level of contact Care Equipment - dedicated or cleaned & disinfected between each person, minimise the amount of disposable supplies brought into a room Environmental Cleaning - increase cleaning and introduce environmental disinfection - With what ??	UCC BOOKERS OF THE STREET	
Contact Precautions		
 Laundry - treat all as potential contaminated - alginate bag Waste - as per HCRW policy -items soiled with body fluids assessed as infectious should be disposed of as HCRW Duration of Precautions - until symptom free for two day and return of normal bowel pattern Terminal Cleaning - carried out on resolution of symptoms 		
IPBC of MDROS in Residential Care Facilities 2014	UCC Bearing Galler Group in and Goldmann of Chica or Cherchan	

Placed on the outside door Contact Precautions on the reverse of the advice for visitors to preserve privacy **VISITORS** Please seek advice from nursing staff before entering this room Contact Precautions on the reverse of the advice for visitors to preserve privacy **Contact Precautions** Clean your hands before entering Wear a plastic apron and gloves on enterin Keep the door closed **UCC** Placed on the inside of the room door for staff & visitors leaving the room Please Wash Your Hands Before Leaving The Room **Staff Members** •Clean and Disinfect Equipment When Removing From Room Disposed of Gloves and Apron Inside Room •Wash Your Hands Before Leaving Room **UCC** Cork & Kerry Infection Prevention & Control Community and Disability Services 2012

INFECTION PREVENTION AND CONTROL STOOL CHART NAME: DATE TIME Typy DOUBLE THE TIME TYPY NAME IN THE TIME TYPY NAME TO THE TIME TYPY NAME TYPY NAME TO THE TIME TYPY NAME TYPY N	NTROL	
EOR MINS AND		
SECOND COLUMN COLLISTED A TEXANDED ROUGHTED ENTE CAS C ANGLE Noncom Bentl C C C C C C C C C C C C C C C C C C C		
Non-Banders a defend on the or some binst 'rempe bord mercenam platch are named on different to the princip in Parties bord mercenam platch are named to different to the princip in Parties bord and the recognited and go for the dataset, poses are so pill'Dec. (See all parties of the princip in Parties of the Parties of		
Rectal Good Good Good Good Good Good Good Goo		
Type 4 - 7 tradag words distinct in cogney	Fe 2017	
See New and Gird See New and		
When a resident has diarrhoea- SIGHT		
S Suspect that a case may be infective where		
there is no clear alternative cause for diarrheoa I Isolate. Consult with the infection prevention and control team (IPCT) where available		
while determining the cause of the diarrhoea G Gloves and aprons must be used for all contacts with the patient and their		
environment H Hand washing with soap and water should be carried out after each contact with the patient and the patient's environment		
T Test the stool for C&S, <i>C. difficile</i> toxin, by sending a specimen immediately		
	UCC	
Key Messages for when Managing MDROs outside of the Hospital		
MDRO colonised patients should not be declined admission to a long-term care facility (LTCF), day considered to the construction of the const		
MDRO colonised patients should not be declined admission to a long-term care facility (LTCF), day care facilities or rehabilitation services or have their admission delayed on the basis of positive MDRO colonisation status. Isolation of a resident with MDRO is generally not required in LTCF. Standard Precautions are		
Isolation of a resident with MDRO is generally not required in LTCF. Standard Precautions are required for the care of all patients, including patients colonised with MDRO in LTCF. The need to place a MDRO colonised patient in a single room or to use Contact Precautions should be determined based upon local risk assessment.		
Routine screening for MDRO is not recommended for LTCF.		
 Ref Guidelines on the Prevention and Control of Multi-drug resistant organisms (MDRO) in healthcare settings. HPSC 2012 		

UCC

Standard or Contact Precautions for MRDOs?

- The decision to isolate a resident must be considered carefully and should take into account
 - · the infection
 - · the risks to other residents,
 - the presence of risk factors that increase the likelihood of transmission, and
 - the psychological effects of isolation on the colonised or infected resident.
- Before isolating a resident, a plan to review the need for ongoing Contact Precautions must be in place.





Standard or Contact Precautions for MDROS ?

- Standard Precautions advised for relatively healthy independent residents colonised with
- Contact Precautions are recommended in certain situations including .
 - Ill dependent residents OR

an MDRO

- Residents with uncontrolled secretions/excretions OR
- Residents suffering from an <u>infection</u> caused by an MDRO:
- Single room accommodation is preferable, if available.

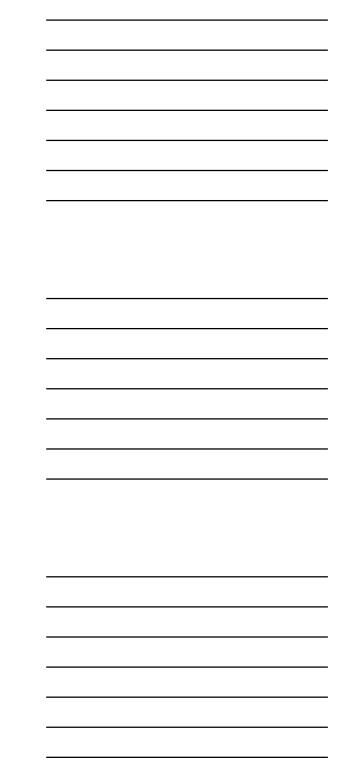




Standard or Contact Precautions for MDROS

- Cohorting of patients known to be colonised or infected with the same MDRO is acceptable.
- If cohorting is not possible, then those residents colonised/infected with an MDRO should be placed in a room
- with a resident considered to be at low risk for acquisition of an MDRO (i.e. not immunocompromised, not on antimicrobials, without open wounds, drains or urinary catheters) or these who have an application of check during of
- those who have an anticipated short duration of stay





Other aspects of control	of
MDRO in LTCFs include:	

- Maintaining a list of residents infected/colonised with an MDRO
- Monitoring microbiology culture results of specimens sent to the local microbiology laboratory
- Communication of information relating to the status of an MDRO colonised resident to other receiving or transmitting facilities where indicated, such as upon referral to hospital or other healthcare facilities
- Ensuring adequate environmental cleaning



IP&C of MDROS in Residential Care Facilities 2014

Wise Words



"Penicillin should only be used

if there is a properly diagnosed reason and, if it needs to be used, use the highest possible dose for the shortest time necessary.

Otherwise antibiotic resistance will develop" Alexander Fleming, 1945

IP&C of MDROS in Residential Care Facilities 2014

3 Key Messages for Control of MRDOs in Residential Care



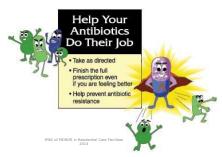
- Standard Precautions for ALL- the major focus for health care workers is the reduction of contamination on hands and any equipment taken from one client to another
- 2. Careful use of a precious resource Antimicrobials
- Reduce risk of infection- vaccinate, care of devices, monitor and treat infection appropriately.

The need for additional infection control precautions in a residential setting must be balanced with the need for a healthy lifestyle.





What you can do as an individual!





References

- Guidelines on the Prevention and Control of Multi-drug resistant organisms (MDRO) in healthcare settings. 2012
- http://www.hpsc.ie/A-Z/MicrobiologyAntimicrobialResistance/InfectionControlandHAI/Guidelines/File,12922,en.p
- Prevention and Control of Methicillin Resistant Staphylococus aureus (MRSA) National Clinical Guideline 2
- http://www.hpsc.ie/A-Z/MicrobiologyAntimicrobialResistance/InfectionControlandHAI/Guidelines/File,13950,en.pdf















