NHS	NHS GREATER GLASGOW & CLYDE CONTROL OF INFECTION COMMITTEE STANDARD OPERATING PROCEDURE	Page Effective From	1 of 10 December 2020
Greater Glasgow and Clyde	MULTI-DRUG RESISTANT ORGANISMS (MDROs)	Review Date Version	December 2022 2

SOP Objective

To ensure that patients with MDRGNOs are cared for appropriately and actions are taken to minimise the risk of cross-infection.

This SOP applies to all staff employed by NHS Greater Glasgow & Clyde and locum staff on fixed term contracts and volunteer staff.

KEY CHANGES FROM THE PREVIOUS VERSION OF THIS SOP

- Updated wording in linen and patient clothing sections
- Updated Appendix 1

Document Control Summary

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Approved by and date	Board Infection Control Committee 15 th December 2020
Date of Publication	25 th January 2021
Developed by	Infection Prevention and Control SOP Sub-Group
Related Documents National IPC Manual	
	NHSGGC Decontamination Guidance
	NHSGGC Hand Hygiene Guidance
	NHSGGC SOP Cleaning of Near Patient Equipment
	NHSGGC SOP Twice Daily Clean of Isolation Rooms
	NHSGGC SOP Terminal Clean of Ward/Isolation Rooms
	NHSGGC Waste Management Policy
Distribution/ Availability	NHSGGC Infection Prevention and Control web page
	www.nhsggc.scot/hospitals-services/services-a-to-
	z/infection-prevention-and-control
Lead	Lead Infection Prevention Control Doctor
Responsible Director	Executive Director of Nursing



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(2.1.33)	Version	2

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1. Responsibilities

Health Care Workers (HCW) must:

- Follow this SOP.
- Inform a member of the Infection Prevention and Control Team (IPCT) if this SOP cannot be followed.
- Implement Care Checklist

Senior Charge Nurses (SCN) / Managers must:

- Support HCWs and Infection Prevention and Control Teams (IPCTs) in following this SOP.
- Advise HCWs to contact the Occupational Health Service (OHS) as necessary.

Infection Prevention and Control Teams (IPCTs) must:

- Keep this SOP up-to-date.
- Provide education opportunities on this SOP.

Occupational Health Service (OHS) must:

- Provide staff with advice as appropriate
- Support an Incident Management Team (IMT) with necessary investigations as required

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2. General Information on Multi-Resistant Organisms (MDRO)

Communicable	Multi-drug resistant bacteria are bacteria that are resistant to at	
Disease / Alert	least three different antibiotics. These bacteria are commonly	
Organism	found in the gut, where they do no harm; however, they can	
organism	cause infection at other body sites, mainly in patients who are	
	vulnerable due to other underlying diseases, injury or	
	hospitalisation. Infection often happens when the bacteria enter	
	the body through an open wound or via a medical device such as	
	a catheter. These infections are difficult to treat, and can cause	
	additional pain to patients with slow wound healing and other	
	complications such as pneumonia or infection in the blood. This	
	can prolong the length of stay in hospital and, in some cases, can	
	cause death.	
	MDROs include the following;	
	Extended-spectrum beta-lactamase (ESBL) producers;	
	Vancomycin-resistant Enterococci (VRE),	
	Carbapenem-resistant organisms (CRO)	
	(For CPE, MRSA and XDR Tb, please see appropriate IPC SOP).	
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	Also included in this SOP are those exceptional organisms listed in	
	Appendix 1	
	TIPPETICIN 1	
Clinical Condition	Patients may be colonised or infected with these organisms.	
	Infections include but are not limited to bloodstream infections,	
	device-related infections, pneumonia and wound infections.	
	, ·	
Mode of Spread	This group of organisms are spread by multiple routes depending	
	on their location in the body and the type of infection.	
	Contact: Via hands or contaminated equipment and	
	environment.	
	Droplet: With respiratory infection, droplets from the respiratory	
	tract can travel short distances during coughing and sneezing	
	Airborne: Some respiratory MDROs spread by the airborne route	
	while others can become airborne during aerosol generating	
	procedures.	
Incubation period	No specific incubation period.	
Period of	As long as the organism is isolated.	
Communicability		



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Persons most at-risk	Patients in intensive care units, Renal Units, High Dependency
	Units (HDU) and haemato-oncology who have had a variety of
	antibiotics and/ or prolonged antibiotic therapy. Patients who
	have received medical care overseas

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3. Transmission Based Precautions for MDROs

the door close. Where isolation facilities are unavailable contact a member of the IPCT who will provide advice on the most appropriate placement. Patients colonised with VRE/ESBL should be discussed with a member of the IPCT for the most suitable accommodation. Care checklist Yes Clinical Waste Non-sharps waste should be designated as clinical/ healthcare waste and placed in an orange waste bag. Please refer to the NHSGCC Waste Management Policy Contacts Contacts may be screened on the advice of a member of the IPCT. Domestic Advice Domestic staff must follow the SOP for Twice Daily and Terminal Clean of Isolation Rooms and ward. Cleans should be undertaken at least four hours apart. NHSGGC SOP Twice Daily Clean of Isolation Rooms NHSGGC SOP Terminal Clean of Ward/Isolation Room Equipment Where practical allocate dedicated equipment, e.g. own washbowl, commode, moving sling or slip-sheet. Decontaminate equipment as per the NHSGGC Decontamination Guidance Hand Hygiene Hand Hygiene Hand Hygiene is the single most important measure to prevent cross-infection. Hands must be decontaminated before and after each direct patient contact. Refer to the NHSGGC Hand Hygiene Guidance Please see last Offices in the National Infection Prevention and Control Manual.	Accommodation (Patient	Patients with infection should be placed in a single ensuite room with
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Moving between wards, hospitals and essential procedures and investigations. All patient movement should be kept to a minimum. Prior to transfer, the ward should inform the receiving department, ward, hospital, health board, of the patient's infectious condition. The receiving area should put in place arrangements to minimise contact with other patients and arrange for additional domestic cleaning if required.		used in mental health areas)
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arrangements to minimise contact with other patients and arrange for additional domestic cleaning if required.	-	infectious condition. The receiving area should put in place
for additional domestic cleaning if required.		
		,
	Notice for Door	
	•	

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Patient Clothing	If relatives or carers wish to take personal clothing home,
	staff must place clothing into a domestic water soluble bag then into
	a patient clothing bag and ensure that a Washing Clothes at Home
	Information Leaflet is issued. NB It should be recorded in the nursing
	notes that both advice and the information leaflet has been issued.
Patient Information	Inform the patient/ parent/ guardian/ next-of-kin (as appropriate) of
	the patient's condition and the necessary precautions. Answer any
	questions and concerns they may have.
Personal Protective	To prevent spread through direct contact PPE
Equipment (PPE)	(disposable gloves and yellow apron) must be worn for all
, , , ,	direct contact with the patient or the patient's
	environment/equipment. If there is a risk of splashing/spraying of
	blood or body fluid a fluid repellent surgical face mask and eye
	protection should be worn. Fit tested FFP3 mask , disposable yellow
	apron and gloves must be worn if Aerosol Generating Procedures
	(AGP) are undertaken on a patient with a MDRO respiratory
	infection.
Precautions Required	Please contact your local IPCT for advice on when/if transmission
until .	based precautions can be discontinued.
Specimens Required	Please contact your local IPCT for advice on which specimens are
	required and when (including readmission).
Terminal Cleaning of	Refer to NHSGGC SOP Terminal Clean of Ward/Isolation Rooms
Room	
Visitors	No specific restrictions. Encourage any visitors to undertake hand
	hygiene before and after visiting.

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4. Evidence Base

HPS (2018) National Infection Prevention and Control Manual



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Appendix 1

Organisms	Exceptional phenotypes
Exceptional resistance phenotypes of Gram-negative	
Any Enterobacteriaceae	Resistant to colistin 1 (except <i>Proteus</i> spp, <i>Providencia</i>
•	spp, Morganella spp and Serratia marcescens)
	Resistant to meropenem or is a carbapenemase
	producer
	Resistant to ceftazidime-avibactam
Salmonella typhi	Resistant to fluoroquinolones and/or carbapenems
,,	or azithromycin
Pseudomonas aeruginosa and Acinetobacter spp.	Resistant to colistin 1
	Resistant to ceftolozane-tazobactam
	Resistant to a meropenem/imipenem AND ceftazidime
	AND piperacillin-tazobactam
Acinetobacter baumannii	Resistant to colistin 1
	Resistant to meropenem or imipenem
Stenotrophomonas maltophilia	Resistant to co-trimoxazole
Haemophilus influenzae	Resistant to any 3rd/4th/5th generation
, , , , , , , , , , , , , , , , , , ,	cephalosporins or carbapenems
Moraxella catarrhalis	Resistant to any 3rd/4th/5th generation
	cephalosporins, carbapenems or fluoroquinolones
Neisseria meningitidis	Resistant to meropenem, any 3rd generation
3	cephalosporins, fluoroquinolones or rifampicin
Neisseria gonorrhoeae	Resistant to spectinomycin and / or azithromycin
5	and/or third-generation cephalosporins
Exceptional resistance phenotypes of Gram-positive	,
Staphylococcus aureus	Resistant to vancomycin, teicoplanin, daptomycin (MIC
, ,	> 4 mg/L), 2 linezolid, tedizolid, quinupristin-
	dalfopristin, tigecycline, ceftaroline or ceftobiprole
Coagulase-negative staphylococci	Resistant to vancomycin, daptomycin (MIC > 4 mg/L), 2
5 5 1 7	linezolid, tedizolid, quinupristin-dalfopristin,
	tigecycline, ceftaroline or ceftobiprole
Corynebacterium spp.	Resistant to vancomycin, teicoplanin or linezolid
Cturanta and an annual and an an annual and an	Designation and a second secon
Streptococcus pneumoniae	Resistant to carbapenems, vancomycin, teicoplanin,
	linezolid or rifampicin. Also isolates with high level
	penicillin resistance (MIC > 2 mg/L) and those
	intermediate or resistant to 3rd generation
Group A, B, C and G β-haemolytic streptococci	cephalosporins (MIC > 0.5 mg/L) Resistant to penicillin, cephalosporins, vancomycin,
Group A, b, C and G p-naemorytic streptococci	
	teicoplanin, dalbavancin, oritavancin, daptomycin,
	linezolid, tedizolid or tigecycline



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Enterococcus spp.	E. faecalis: Resistant to ampicillin/amoxicillin or daptomycin (MIC > 2 mg/L) E. faecium: Resistant to daptomycin (MIC > 4 mg/L)	
	All enterococci:	
	Resistant to tigecycline or linezolid	
Exceptional resistance phenotypes of anaerobes		
Bacteroides spp.	Resistant to metronidizole	
Clostridium difficile	Resistant to metronidizole, vancomycin.	
Exceptional resistance phenotypes of anaerobes		
Bacteroides spp. 3	Resistant to metronidizole	
Clostridioides difficile	Resistant to metronidizole or vancomycin	
Exceptional resistance phenotypes of Candida species		
Candida spp.	Resistant to amphotericin B or any echinocandin	
Candida albicans	Resistant to any azole (invasive isolates)	
Aspergillus fumigatus	Resistant to amphotericin B, echinocandins or azoles	
	(excluding fluconazole)	

Notes

- 1. Colistin resistance should be determined locally by use of broth microdilution testing prior to sending to Glasgow Reference Laboratories for further confirmatory testing
- 2. Daptomycin MIC of > 4 mg/L is higher than that stated by EUCAST in relation to daptomycin resistance in staphylococci. This may be reviewed in the future.
- 3. This is not an exhaustive list of species where metronidazole resistance would be exceptional. N.B some anaerobes are intrinsically resistant to metronidazole e.g. *Actinomyces* spp.