Attachment 1: Questionnaire

Management of Multi-Drug Resistant Organisms in Rehabilitation Facilities

Is your facility a member in the MDRO network Rhine-Main? Yes O No O

Main focus of your facility: ........................................................................................................

Is there an early neurologic rehabilitation section in your facility? Yes O No O
(if yes: please answer questions page 2 and page 3 separately for general rehabilitation and early neurological rehabilitation; if no: please ignore all questions regarding early neurological rehabilitation)

What type of rehabilitation facility do you work in?
Attached/part of an acute hospital facility O
Stand-alone facility with doctor input on request only O
Stand-alone facility with 24-hr medical coverage by a doctor O
Other (please specify) ........................................................................................................

Does your rehabilitation facility follow a written guideline or policy on the management of patients with MDROs? Yes O No O

Which of the following policies/guidelines best describe the ones used in your facility?
International guidelines O
National guidelines (i.e. KRINKO) O
Local /regional guidelines (Guidelines of the MDRO network) O
Guidelines or policies specific to rehabilitation facilities O
Other (please specify) ........................................................................................................

Are there hygiene specialists available at your facility?
Specialist in hospital hygiene (Physician) Yes O No O
Authorized hygiene practitioner (one or more) Yes O No O
Infection control nurse Yes O No O
Authorized hygiene-care nurses Yes O No O

How many rehabilitation beds do you have at your institution? ............
How many single rooms? ............
How many shared rooms? ............
Regarding shared rooms: how many persons share one sanitary module? ............

What proportion of your patients arrive from the following facilities?
Acute Care hospital ...........% from their home ...........%
Long-term care facilities for the elderly ...........% other long-term care facilities...........%
Please answer the following questions separately for general rehabilitation (GR) and – if available – for early neurological rehabilitation (ENR)

Do you establish whether your patients are colonized/infected with a multidrug-resistant organism (MDRO) prior to their admission?

| General rehabilitation | Early neurological rehabilitation |
|-------------------------|----------------------------------|
| Yes, always where possible | Yes, always where possible |
| Yes, sometimes           | Yes, sometimes                  |
| No, never                | No, never                       |
| Don’t know               | Don’t know                      |
| Other (please specify)   | Other (please specify)          |

Do you screen for MDROs upon admission?

| General rehabilitation | Early neurological rehabilitation |
|------------------------|----------------------------------|
| Yes, always where possible | Yes, always where possible |
| Yes, sometimes         | Yes, sometimes                  |
| No, never              | No, never                       |
| Don’t know             | Don’t know                      |
| Other (please specify) | Other (please specify)          |

If only some patients are screened, what percentage of patients do you screen?

| General rehabilitation | Early neurological rehabilitation |
|------------------------|----------------------------------|
| ........ %             | ........ %                       |

If only some patients are screened, which types of patients are selected for screening?

| General rehabilitation | Early neurological rehabilitation |
|------------------------|----------------------------------|
| Those admitted from another institution | O | O |
| Patients who have previously tested positive for a multidrug-resistant organism (MDRO) | O | O |
| Only patients who will share a room with other patients | O | O |
| Don’t know             | O | O |

Which organisms do you screen for on admission?

| General rehabilitation | Early neurological rehabilitation |
|------------------------|----------------------------------|
| MRSA                   | MRSA                             |
| VRE                    | VRE                              |
| 3MRGN                  | 3MRGN                            |
| 4MRGN/CRE              | 4MRGN/CRE                        |
| ESBL                   | ESBL                             |
| Clostr. difficile      | Clostr. difficile                 |
| Other (please specify) | ...................................... |
### Are patients screened for MDROs prior to their discharge?

| General rehabilitation | Early neurological rehabilitation |
|-------------------------|----------------------------------|
| Yes                     | O                                |
| No                      | O                                |
| Don't know              | O                                |
| Sometimes in certain circumstances | O |

(Please explain briefly below)

### Approximately what percentage of your rehabilitation in-patients are colonized/infected with an MDRO?

| General rehabilitation | Early neurological rehabilitation |
|------------------------|----------------------------------|
| MRSA                   | ......%                           |
| VRE                    | ......%                           |
| 3MRGN                  | ......%                           |
| 4MRGN/CRE              | ......%                           |
| Don't know             | O                                |

### Do patients with MDROs have to wait longer for admission to your rehabilitation hospital?

|                          | Yes | No | Don't know |
|--------------------------|-----|----|------------|
| MRSA                     | O   |    |            |
| VRE                      | O   |    |            |
| 3MRGN                    | O   |    |            |
| 4MRGN/CRE                | O   |    |            |
| ESBL                     | O   |    |            |

Other (please specify) .................................................................

### Which MDROs were responsible for delaying admission?

|                          | MRSA | VRE | 3MRGN | 4MRGN/CRE | ESBL |
|--------------------------|------|-----|-------|-----------|------|
| MRSA                     | O    |     |       |           |      |
| VRE                      | O    |     |       |           |      |
| 3MRGN                    | O    |     |       |           |      |
| 4MRGN/CRE                | O    |     |       |           |      |
| ESBL                     | O    |     |       |           |      |

Other (please specify) .................................................................

### Have patients been refused entry to your rehabilitation facility on the basis of their MDRO status?

|                          | Yes | No | Don't know |
|--------------------------|-----|----|------------|
| MRSA                     | O   |    |            |
| VRE                      | O   |    |            |
| 3MRGN                    | O   |    |            |
| 4MRGN/CRE                | O   |    |            |

Other (please specify) .................................................................

### Are patients with MDROs grouped in separate wards or ward areas?

|                          | Yes | No | Don't know |
|--------------------------|-----|----|------------|
| MRSA                     | O   |    |            |
| VRE                      | O   |    |            |
| 3MRGN                    | O   |    |            |
| 4MRGN/CRE                | O   |    |            |

Other (please specify) .................................................................

### If the previous question was answered with yes: How are the patients grouped?

|                          | Create new single rooms | Create separate areas on the ward for MDRO patients only | Create separate section for MDRO patients in therapy areas | Dedicate equipment for MDRO patients | Dedicate equipment for individual MDRO patients | Schedule MDRO patients at the end of therapy hours | Don't know | Other (please specify) |
|--------------------------|-------------------------|--------------------------------------------------------|--------------------------------------------------------|----------------------------------|---------------------------------|---------------------------------|------------|-----------------------|
| MRSA                     | O                       | O                                                      | O                                                      | O                                | O                               | O                                | O          | O                     |
| VRE                      | O                       | O                                                      | O                                                      | O                                | O                               | O                                | O          | O                     |
| 3MRGN                    | O                       | O                                                      | O                                                      | O                                | O                               | O                                | O          | O                     |
| 4MRGN/CRE                | O                       | O                                                      | O                                                      | O                                | O                               | O                                | O          | O                     |

Other (please specify) ..............................................................................
Have you altered your rehabilitation facilities in any way to accommodate MDRO patients?

Yes  O  No  O  Don’t know O

Are the activities of patients with MDROs limited in any of the following ways to prevent the spread of these organisms?

Therapy in patient’s room only  O
Therapy in a gym dedicated to MDRO patients  O
Meals in patient’s room only  O
Not allowed to attend physiotherapy gym  O
Not allowed to attend occupational therapy gym  O
Not allowed to attend hydrotherapy  O
Not allowed to participate in group therapy  O
Not allowed to attend social gatherings  O
Don’t know  O
Other (please specify)……………………………………………………………………………………………….

Are patients with MDROs allowed to participate in a full rehabilitation program?

Yes  O  No  O

What impact do you feel isolating patients with MDROs has on their outcome?

Severely limits outcome  O
Moderately limits outcome  O
Slightly limits outcome  O
Does not limit outcome  O
Other (please specify)……………………………………………………………………………………………….

To which of the following groups, if any, does your institution offer education or training in relation to MDROs? (Please select all that apply)

Nurses  O
Doctors  O
Allied Health Professionals  O
Other Ward Staff  O
Patients  O
Family members or visitors  O
Others  O
No education or training relating to MDROs is provided  O
Don’t know  O

Thank you very much!

The questionnaire was adopted from Doherty A, McNicholas S, Burger H, Boldrini P, Delargy M. European survey of management of patients with multidrug-resistant organisms in rehabilitation facilities. Eur J Phys Rehabil Med. 2019 Aug;55(4):418-423. DOI: 10.23736/S1973-9087.19.05570-9