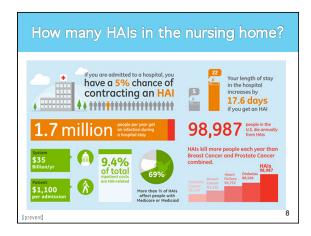




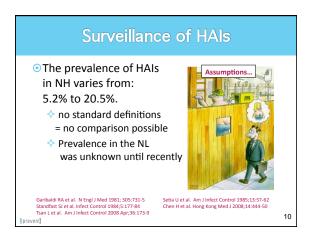


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HAIs in nursing homes Norwegian study on HAIs in NH-population: 2 x higher risk of general morbidity 9 x higher risk of being admitted to a hospital 6 x higher risk of mortality Dutch study among elderly with dementia: Patients cared for in nursing homes = higher risk of UTI, RTI & conjunctivitis Roch AM, et al. J Hosp Infect. 2009 Mar;71(3):269-74 Koopmans RT et al. Tijdschr Geront Geriatr 1994; 25: 231-6.

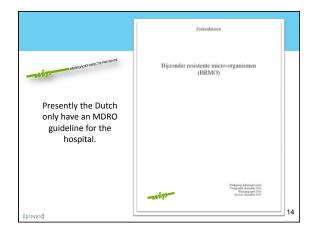






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Aim of the lecture • Explanation of a new Dutch guideline on MDRO control in nursing homes • MDR-GNR • MDR-Non-fermenters • Acinetobacter, Pseudomonas, Stenotrophomonas • PRP and VRE • Excluding MRSA (specific guideline) and other MDRO's • Not dealing with outbreak situations



More is needed to control MDROs

- In order to be able to effectively control MDROs we need:

 - → reliable diagnostics (www.NVMM.nl

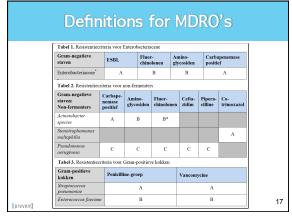
 - treatment guidelines (www.SWAB.nl)

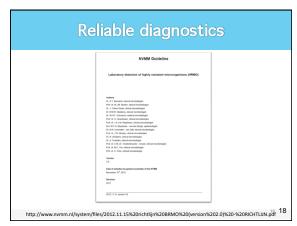
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Defining MDRO's

- MDRO's = pathogens that evade the most common antibiotcs used
 - phenotypic resistance or harbour the genes/ enzymes for broad-spectrum resistance
- While the antibiotics used in hospitals and nursing homes are very different (p.o. versus i.v. and p.o.) the Dutch expert group decided to use the exact same definitions in order to get uniformity and avoid confusion about what MDRO's are

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Indications for screening

- Voer gericht onderzoek naar BRMO dragerschap uit:
- On admission of a patient/client:
 - who had been carded for in a foreign hospital/nursing home within the last 2 months for longer than 24h;
 - who is admitted from a unit in another healthcare setting with an ongoing MDRO outbreak.
- Contact-screening after contact with an (unexpected) carrier of MDRO's

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Screening sites

Micro-organism	Routine sites	Extra sites on indication	
Enterobacteriaceae (incl. ESBL and CPE)	rectal swab or feces	wound, sputum, urine	
Acinetobacter species	rectal swab or feces and sputum	wound, urine	
Stenotrophomonas malto- philia	rectal swab or feces and sputum	wound, urine	
Pseudomonas aeruginosa	rectal swab or feces and sputum	wound, urine	
Streptococcus pneumoniae	sputum		
Enterococcus faecium	rectal swab or feces	wound, sputum, urine	

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Number of cultures

- A single set of specimens is considered sufficient for the targeted screening for carriage of HRE.
 - Although repeated sampling may decrease the sample error, scientific data on this issue are currently insufficient to justify a recommendation to perform duplicate or repeated cultures.

Isolation measures

- Instead of working with "universal precautions" and "specific isolation types" the experts decided to describe the specific measures per MDRO
 - the sector is not well known with isolation types or universal precautions



lsolation measures (1)

Micro-organism	PPE				
	Hand- hygiene	Gloves	Gowns	Mask	
Enterobacteriaeceae (incl. ESBL, excl. CPE)	Yes	Yes	Plastic apron	No	
CPE	Yes	Yes	Gown	Yes	
Acinetobacter species	Yes	Yes	Gown	Yes	
Pseudomonas aeruginosa	Yes	Yes	Plastic apron	No	
Stenotrophomonas maltophilia	Yes	Yes	Plastic apron	No	
Streptococcus pneumoniae	Yes	Yes	Plastic apron	Yes	
Enterococcus faecium	Yes	Yes	Plastic apron	No	

Gloves during care and contact with environment, not for scial contact

solation measures (2)

Micro-organism	Rooms	Wet-rooms		Use of shared
	Room	WC, bed- pan	Bathroom	rooms, contact with groups
Enterobacteriaeceae (incl. ESBL, excl. CPE)	Multiple bed possible	Client specific	Shared allowed	Yes
CPE	Single	Client specific	Client specific	Decide per client
Acinetobacter species	Single	Client specific	Client specific	Decide per client
Pseudomonas aeruginosa	Multiple bed possible	Client specific	Shared allowed ¹	Yes
Stenotrophomonas maltophilia	Multiple bed possible	Client specific	Shared allowed	Yes
Streptococcus pneumoniae	Single	No measures	Shared allowed	Yes, but
Enterococcus faecium	Multiple bed possible	Client specific	Shared allowed	Yes

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Cleaning Yes, all non-client specific materials (incl. ESBL, excl. CPE) Per patient Daly Yes Yes, all non-client specific materials CPE Per patient Dalv Acinetobacter Yes, all non-client Daly Per patient Yes specific materials Pseudomonas Yes, all non-client specific materials Per patient Daly Only wet-room Yes, all non-client specific materials Per patient PRP Dalv Yes Yes, all non-client specific materials VRE Per patient Daly 25

Some extra explanations ... Gloves during care and contact with environment, not for social contact Mask should be used in general when assuming splashes

- ⊙ In case of shared bathrooms client with MDRO at last→ cleaning
- Visits of common rooms: instruct patients about HH and cover wounds, ...
 - → Discuss need and measures with ICP

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Vistors

- Vistors should wash or disinfect their hands after contact with the patient/client
- If a vistor participates in the care of a patient/ client they should use the same precautions as the HCWs
 - → or any other person getting actively involved in hands-on-care

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Contact tracing

- Screen contacts (clients) of a patients who wasn't known to carry MDRO's
 - ♦ not if MDRO is ESBL in non-outbreak situation
- No need to include HCWs
 - no means of decolonization

Cultures at stop of isolation

- Once a patient has been identified as a carrier of HRE, it is not clear how many culture sets have to be taken to reliably identify loss of carriage of HRE.
 - no longer carrying MDRO if two culture sets, collected at least 24 hours apart, and at least 48 hours after discontinuation of antibiotic therapy are negative
 - ◆Excluding CPE and VRE

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