

#### IPC nursing home versus hospital

Structure

- $\diamond\,$  e.g. Presence of single- and isolation-rooms, bed-pan washers, PPE, ...  $\odot\,$  Basic IPC practices not (fully) implemented
- basic IPC practices not (runy) implemented
   e.g. handhygiene, PPE-use, isolation not fitting with "home image"
- Surveillance
- ho (inter-)national definitions, routinely done?
- Guidelines
- Who has a full set of IPC nursing home guidelines including MDRO, ...
  Tractice (Education)
- Training/Education
  - $\diamond$  basic training nurses/helpers, elderly-care MDs\*, IPC-contact-nurses

prevent

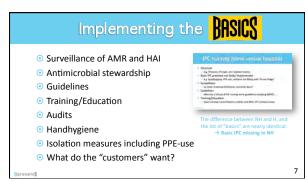


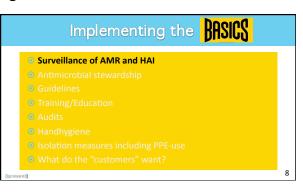




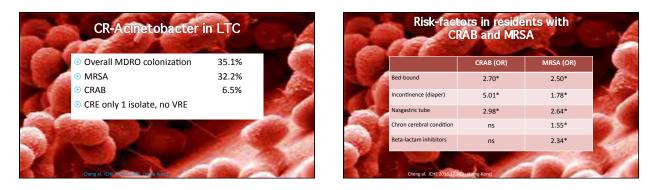


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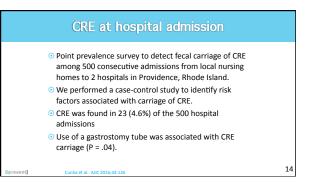


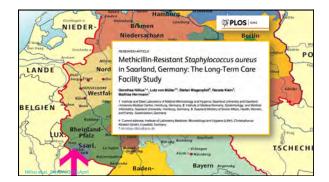


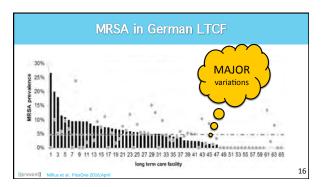


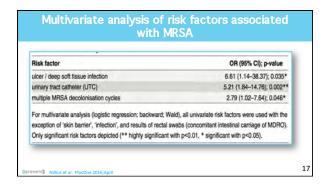


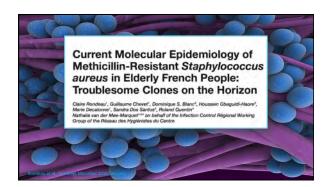










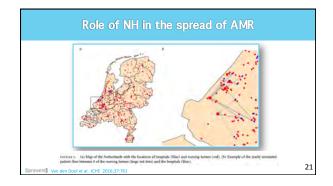


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# Epidemiology of MRSA in Elderly French

- Worryingly high prevalence of the *qacA/B* gene in MRSA isolates.
  - Antisepsis measures being crucial to prevent healthcare-associated infections, our findings raise questions about the potential risk associated with chlorhexidine use in qacA/B+ MRSA carriers
- NHs are a weak link in MRSA control.
- NHs to serve as reservoirs of USA300 clone for local HCFs





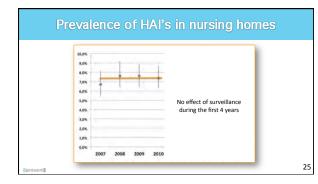
#### Role of NH in the spread of AMR

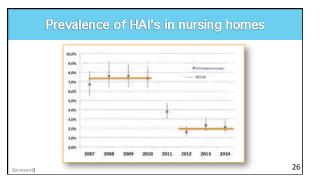
- Nursing homes are sufficiently connected to the hospital network to drive national epidemics
- Emerging pathogens can, in the absence of control measures, sustain or initiate nationwide outbreaks
- Negative surveillance data, which are often based on clinical infections and usually do not cover the entire healthcare system, should be interpreted with care and should <u>not</u> lead us to conclude prematurely that the healthcare network is well protected against outbreaks !

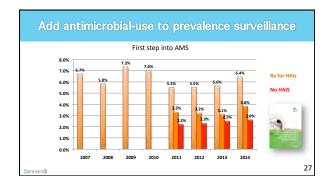




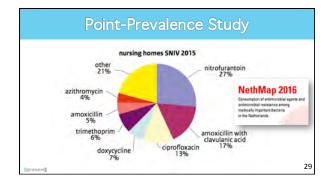
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	Implementing the <b>BASICS</b>	
	Surveillance of AMR and HAI	
	Antimicrobial stewardship	
preve	nd	28



	Point-Prevalence St	NethMap 2016 Groundlin of retrictolite agents and antisocitized response meny metrically importent factories in the Statisticals			
ATC Group*	Therapeutic group	2011	2012	2013	2014
JOIAA	Tetracyclines	5.4	6.8	7.2	4.7
JOICA	Penicillins with extended spectrum	4.9	6.6	5.0	5.0
JOICE	Beta-lactamase sensitive penicillins	0.3	0.2	0.4	0.4
JOICE	Beta-lactamase resistant penicillins	2.5	3.7	1.6	1.3
JOICR	Combinations of penicillins. incl. beta-lactamase-inhibitors	18.6	18.1	18.9	17.7
JOIDB -DE	Cephalosporins	0.7	1.3	1.1	0.7
JOIDF	Monobactams	0.0	0.0	0.0	0.0
J01DH	Carbapenems	0.1	0.0	0.0	0.0
JOIEA	Trimethoprim and derivatives	2.3	2.0	2.7	2.2
JOIEC	Intermediate-acting sulfonamides	0.1	0.1	0.0	0.0
JOIEE	Combinations of sulfonamides and trimethoprim. including derivatives	3.5	2.7	1.3	1.5









AMS in Lo	ong-Tern	n Care
Formal AMS pro	ograms:	28%
<ul> <li>Budget support</li> </ul>	for AMS:	15%
<ul> <li>FTE for infection</li> </ul>	n control:	74%
• FTE for AMS:		26%
	Facility-wide	AMS-specific
Infection preventionist	0.35	0.15
ID physician	0.03	0.02
Pharmacist	0.26	0.06
ID pharmacist	0.01	0.01
[prevent] Morrill al. ICHE 2016;37:979 (Rh	ode-Island, USA)	



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#### Antibiotic prescribing in Dutcl nursing homes

 Investigate the appropriateness of decisions to prescribe or withhold antibiotics for nursing home residents with infections of the urinary tract, respiratory tract, and skin.

Prospective study in 10 NH's.

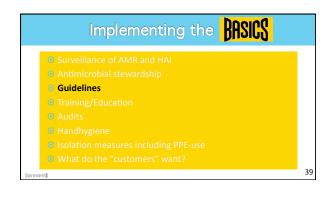
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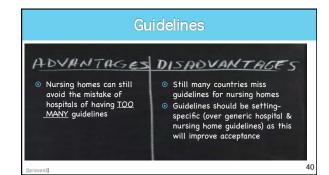
- Physicians completed a registration form for any suspected infection over an 8-month period, including patient characteristics, signs and symptoms, and treatment decisions.
- An algorithm, developed by an expert panel and based on national and international guidelines, was used to evaluate treatment decisions for appropriateness of initiating or withholding antibiotics.

#### Antibiotic prescribing in Dutch nursing homes

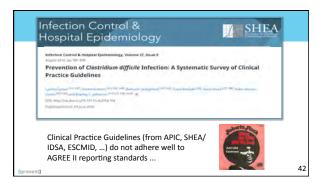
- Of 598 treatment decisions <u>76% were appropriate</u>,
   74% with cases that were prescribed antibiotics
   90% with cases in which antibiotics were withheld (p = .003).
   Decisions around UTI were least often appropriate (68%).
   The most common situations in which antibiotic prescribing was
- considered inappropriate were asymptomatic bacteriuria and viral RTI.
- Antibiotic consumption can be reduced by improving appropriateness of treatment decisions, especially for UTI.

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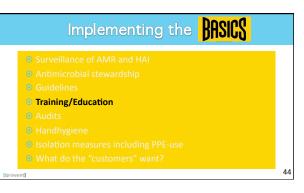


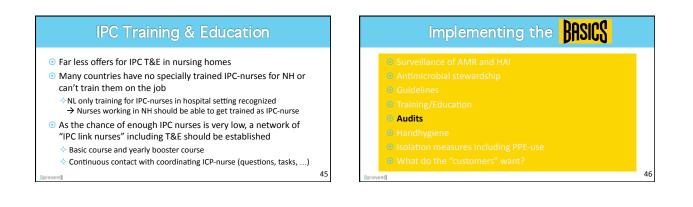


		Du	tcn r	ИDR	ugu	iidelin	)e		
Procession and the second seco									
abel 2 Infectiepreventiemaatrogolen <sup>1</sup> per BRMO bij incidentele cliënten met een BRMO									
Micro-organisme		Persoonlijke beschermingsmiddelen			1-persoons	Sanitair	Beroek san		
	-	Glovas	Gowa	Mark	kamer/ appartement	Tollet/po(stoel)	Badkamer	gemeenschappelijko verblijfsruimte	
Enterobacteriaeceae (incl. ESIN., excl. CPE)	$h^2$	241	24, halter <sup>3</sup>	Net	Nee	Cliëntgebonden	Delen mogelijk <sup>1</sup>	13 <sup>4</sup>	
DAE	192	H.	Ja, lange mouw <sup>1</sup>	Nee*	ia?	Cléntgebonden	Clientgebonden	Afhankelijk van individuele situati	
Acinetobacter species	441	24.5	18, lange mouw <sup>3</sup>	Net	14 <sup>7</sup>	Clientgebonden	Clientgebonden	Afhankelijk van Individuele situati	
Pseudomonas aeruginosa Stenotruphomonas maltophilia	·H <sup>2</sup>	24	Ja, haiter <sup>3</sup>	Nor	Nee	Cléntgebonden	Delen mogelijk <sup>4</sup>	a*	
Streptococcus pneumoniae (PRP)	$\mu^{2}$	345	Ja, halter <sup>1</sup>	Ja, FFP1 <sup>th</sup>	24.712	Delen mogelijk	Delen mogelijk <sup>3</sup>	Ja, mits <sup>4 (2</sup>	
Enterococcus faecium (VRE)	$\mu^2$	14 <sup>8</sup>	2a, halter <sup>1</sup>	Net	24, bij voorkeur	Clientgebanden	Clientgebonden	ш <sup>ь</sup> .	
Overname builten- landse sorginstelling	ja <sup>2</sup>	14 <sup>2</sup>	Ja, lange mouw <sup>1</sup>	Nee <sup>410</sup>	Ja <sup>2</sup>	Cliëntgebonden	Cliëntgebonden	Afhankelijk van Individuele situatie	

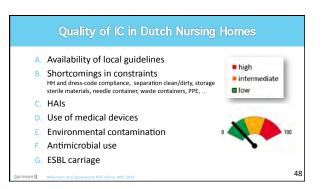








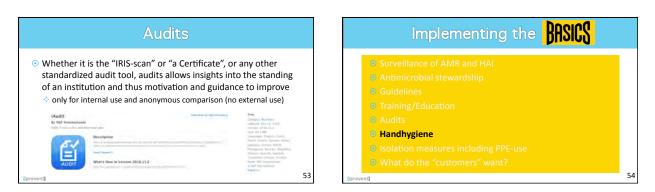














# massage

# Some examples may be:

- · shaking hands, stroking an arm helping a resident to move around, get washed, giving a
  - taking pulse, blood pressure, chest auscultation, abdominal
- palpation

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Some examples may be:

 oral/dental care, giving eye drops, secretion aspiration skin lesion care, wound dressing, subcutaneous injection catheter insertion, opening a vascular access system or a draining system

preparation of medication, dressing sets

#### Some examples may be:

- oral/dental care, giving eye drops, secretion aspiration
- skin lesion care, wound dressing, subcutaneous injection
- drawing and manipulating any fluid sample, opening a draining system, endotracheal tube insertion and removal

- clearing up urine, faeces, vomit, handling waste (bandages, napkin, incontinence pads), cleaning of contaminated and visibly soiled material or areas (bathroom, medical
- instruments)



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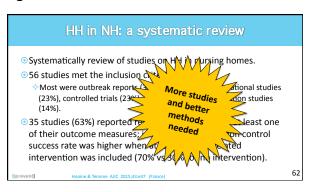
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#### HH in NH: a systematic review

Systematically review of studies on HH in nursing homes.
 56 studies met the inclusion criteria

 Most were outbreak reports (39%), followed by observational studies (23%), controlled trials (23%), and before-after intervention studies (14%).

 35 studies (63%) reported results in favor of HH on at least one of their outcome measures; in addition, the infection control success rate was higher when at least one HH-related intervention was included (70% vs 30% for no intervention).

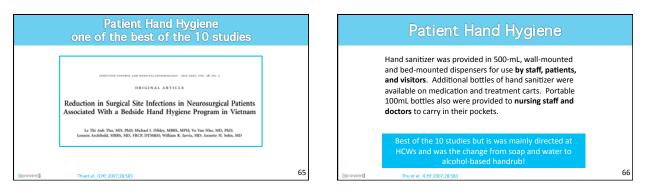




#### Patient Hand Hygiene

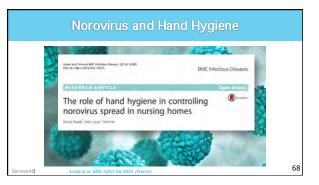
- Little emphasis on patient hand hygiene
- Systematic review
  - $\diamond$  10 studies, uncontrolled, before-after
  - $\diamond$  Multi-modal intervention many including HCWs
- Interventions to improve patient hand hygiene may reduce the incidence of HAIs and improve hand hygiene rate, but the quality of

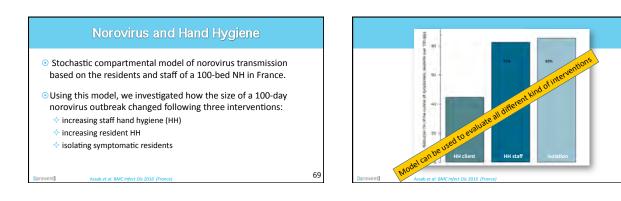
evidence is low.

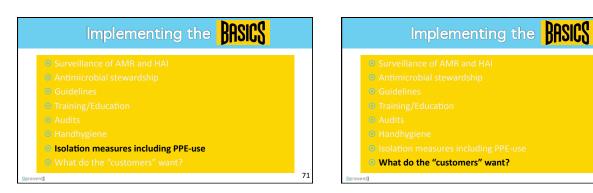


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