Strategies on Control of MDRO in Europe

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ECDC, Stockholm
Sweden



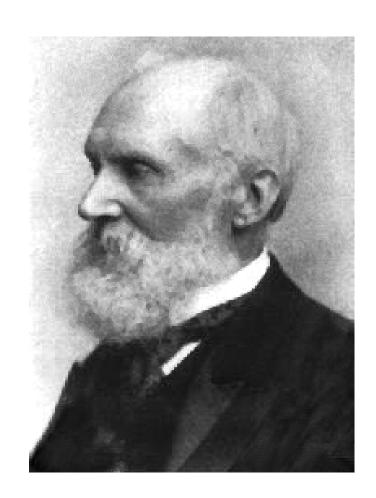
Outline



- Problems of antibiotic (ab)use and resistance in Europe
- Towards a European antibiotic policy
 - First steps
 - Member States initiatives
- National and European campaigns
 - On prudent antibiotic use
 - On hand hygiene in hospitals
- Towards a Global policy
 - Transatlantic Task Force for Antimicrobial Resistance (TATFAR)
 - World Health Day, April 7th 2011







"If you cannot measure it, you cannot improve it"

Lord Kelvin, 1824-1907



ESAC: European Surveillance of Antimicrobial Consumption



 Launched in November 2001 (Belgian EU Presidency)

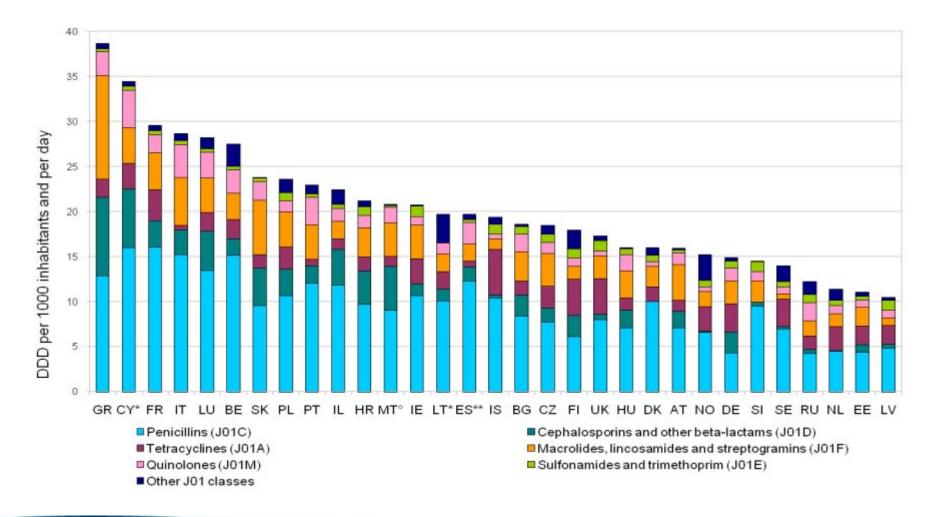


- ESAC is an international network of surveillance systems, aiming to maintain a continuous, comprehensive and comparable database on antimicrobial consumption for all Member States candidate countries and EFTA-EEA countries
- Coordinator: Herman Goossens (UA)
- Funding organisation: DG SANCO of EC (2001-2007) and ECDC (2007-2011)
- Transfer to ECDC (Stockholm) in July 2011



Total outpatient antibiotic use in DID in 31 European countries in 2009

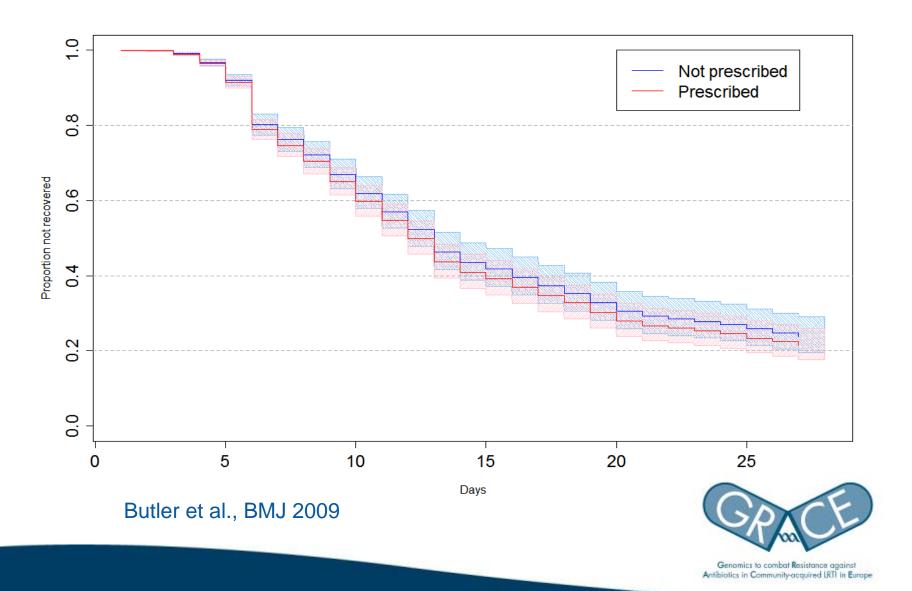




Total care: LT, CY MT: 2008 data Source: ESAC

No statistical Differences in Recovery between those Prescribed Antibiotics and Those Not Prescribed Antibiotics CA-LRTI (survival analysis)

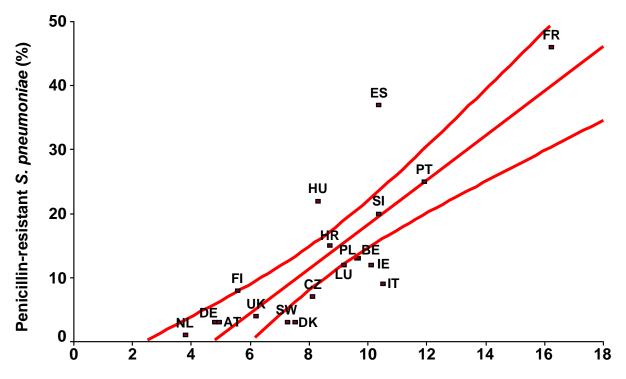






Correlation Between Penicillin Use and Prevalence of Penicillin-resistant *S. pneumoniae*





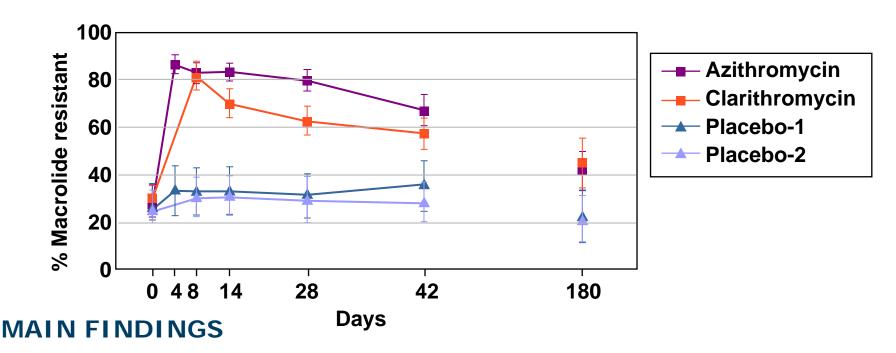
Consumption of Penicillin (J01C) in DID, AC 2000

Organism year of isolation [source of information]	Antibiotic resistance	Antibiotic use - ATC group (year of data)	No. of countrie	Spearman correlation (r) (confidence interval)	<i>P</i> -value
S. pneumoniae 2001 [7]	Penicillin	Penicillin – J01C (2000)	19	0.84 (0.62-0.94)	<0.001



Temporal Changes in Proportion of Macrolide-resistant Oral Streptococci



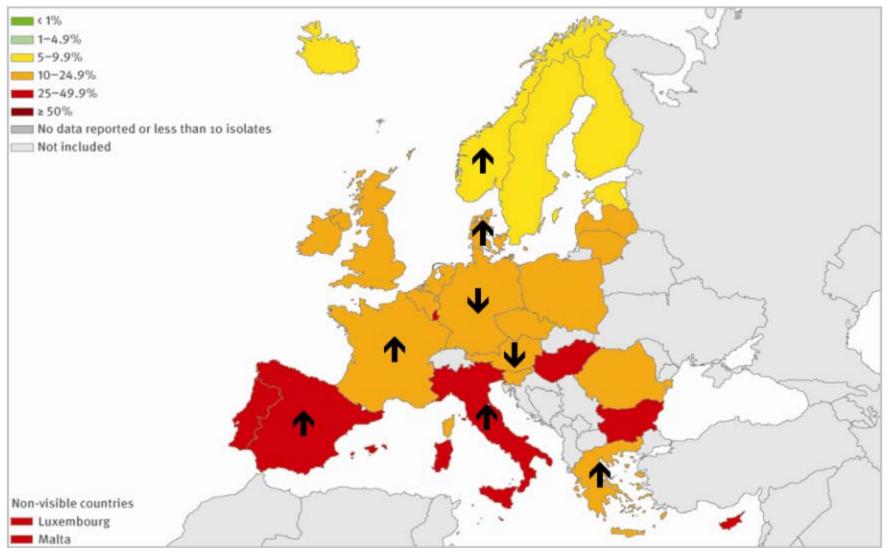


- Mean pre-antibiotic (Day 0) carriage of macrolide-resistant streptococci was 28%
- Use of both macrolides resulted in a huge increase in resistant streptococci, which persisted for at least 6 months (*P*≤0.01)
- In the azithromycin group, resistance remained at a higher level than in the clarithromycin group during mid-time points ($P \le 0.001$)



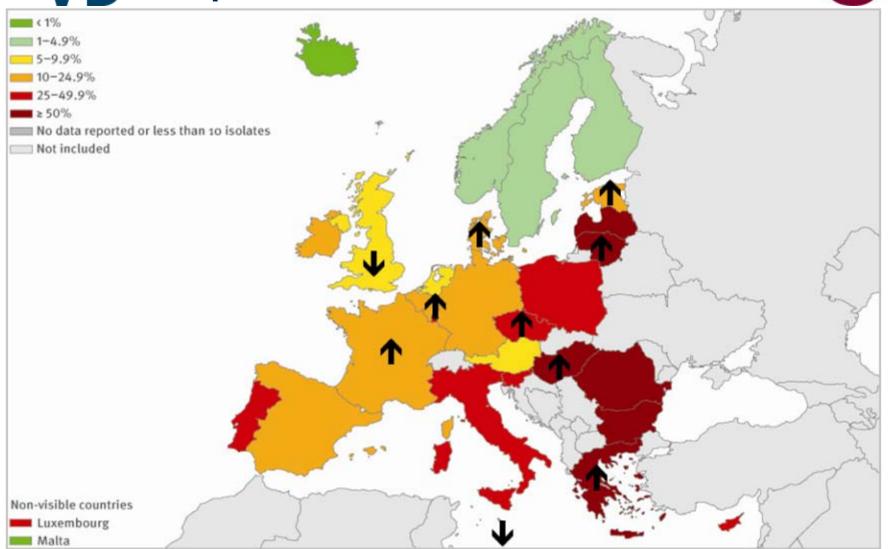
E. coli: Proportion of Invasive FQ Resistant Isolates, 2009





The symbols \uparrow and \checkmark indicate a significant increasing or decreasing trend for the period 2006-2009

K.pneumoniae: Proportion of Invasive Cephalo-3 Resistant Isolates, 2009



The symbols \uparrow and \checkmark indicate a significant increasing or decreasing trend for the period 2006-2009

K.pneumoniae: Proportion of Invasive Carbapenem Resistant Isolates, 2009





Emergence of NDM-1 Producing Enterobacteriaceae in Europe



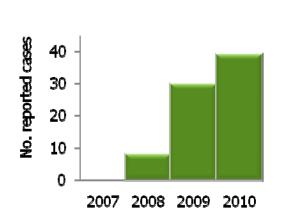
- ECDC conducted a questionnaire survey in all EU Member States, Iceland and Norway
- By 4 October 2010, a total of 77 cases were reported from 13 countries in 2008-2010

NDM-1-producing Enterobacteriaceae cases reported (as of 4 October 2010):







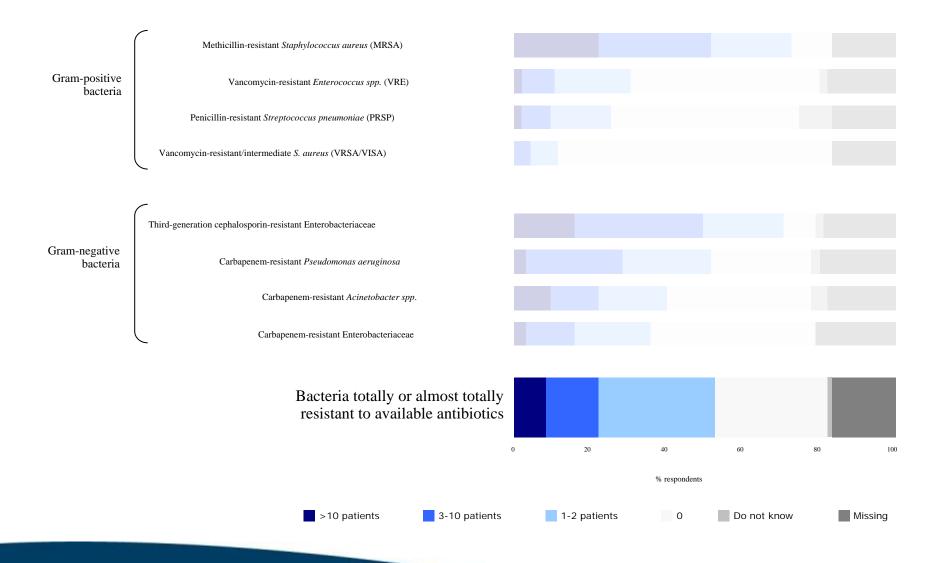






Survey Results on ICU Patients Infected with Resistant Bacteria

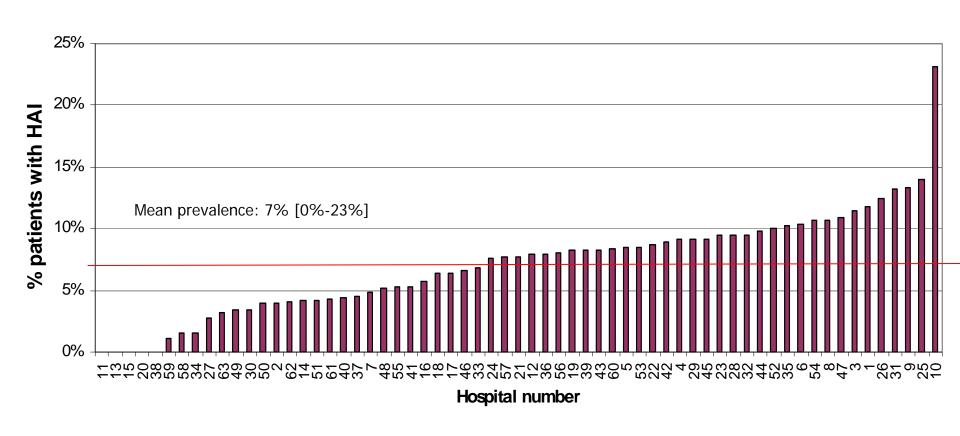






Prevalence of HAI by Hospital

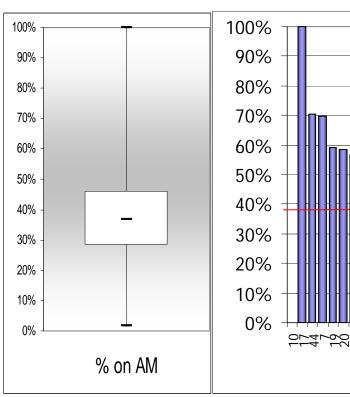


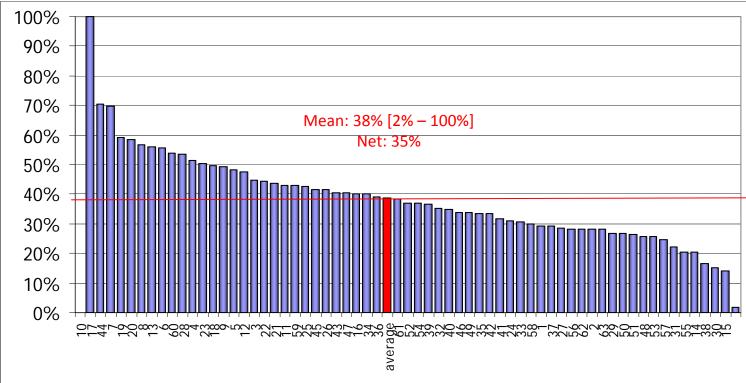




Prevalence of AM Use by Hospital









Society's Failure



- Antibiotic sales in the community represent > 90 %
 of all antibiotic use and is, therefore, an important
 component in the selection pressure
- The largest use of these antibiotics is towards minor respiratory tract infections which are often selflimiting and self-healing and for which AB real usefulness is dubious
 - pharyngitis
 - bronchitis
 - flu-like syndrome, ...
- Antibiotic use will select for antibiotic resistance



Outline



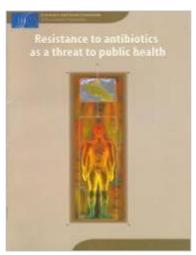
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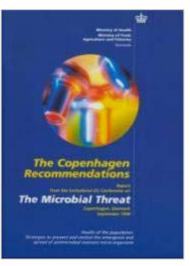


First Steps Towards a European Antibiotic Policy



- July 1998: "Opinion of the Economic & Social Committee on Resistance to Antibiotics as a Threat to Public Health"
- September 1998: EU
 Conference on the Microbial
 Threat, Copenhagen &
 "Copenhagen
 Recommendations"
 http://www.im.dk/publikationer/micro98/index.htm
- May 1999: "Opinion of the Scientific Steering Committee on Antimicrobial Resistance"





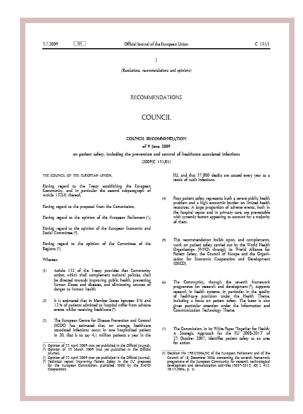


Council Recommendations on the prudent use of antimicrobial agents (2001), and on healthcare associated infections (2009)





Council Recommendation of 15 November 2001 on the prudent use of antimicrobial agents in human medicine (2002/77/EC)

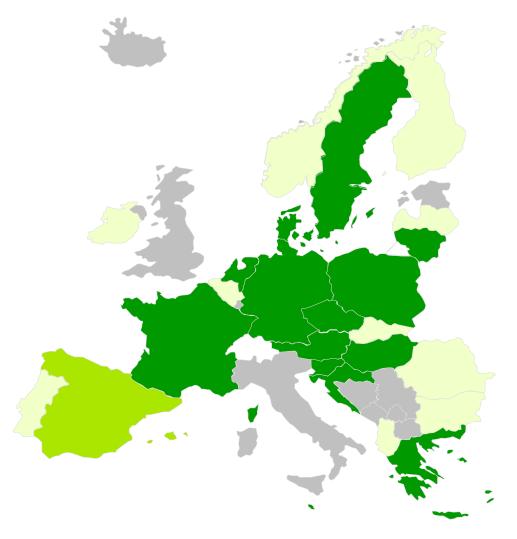


Council Recommendation of 9 June 2009 on patient safety, including the prevention and control of healthcare associated infections (2009/C 151/01)



Country Visits Organised by ECDC to Discuss Implementation of Council Recommendations, 2006-2011







Country visits to discuss AMR issues (as of February 2011)

Based on Council Recommendation of 15 November 2001 on the prudent use of antimicrobial agents in human medicine (2002/77/EC)

Reports (observations, conclusions, suggestions, examples of best practice

14 initial visits (see map)

5 follow-up visits (Czech Rep., Greece x 2 and Hungary x 2)

5 visits budgeted for 2011



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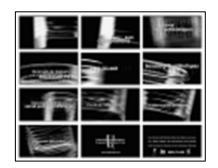
Belgian National Public Campaigns

- When: since November 2000, annually during winter season
- Organised by: BAPCOC (Belgian Antibiotic Policy Coordination Committee)
- Budget:
 - 400,000 EUR/annual campaign
- Interventions targeting the public:
 - Ads on TV, radio and newspaper
 - Information booklets
 - Folders
 - Posters
 - Internet campaigns: www.antibiotics-info.be



BAPCOC Organised Three Different Awareness Campaigns

2000 – 2003 (3 winters)



2004 – 2008 (4 winters)



2008 - ... (launched 18.11.08)



OPGELET VOOR DE NEVENWERKINGEN

Als je antibiotica gebruikt, kunnen er ook bijwerkingen optreden. Antibiotica vallen namelijk niet alleen de schadelijke bacteriën aan. Ook de nuttige moeten eraan geloven. Raadpleeg je arts indien je klachten blijven duren.

Allergische reacties

Een allergische reactie op antibiotica kan jeuk of huiduitslag veroorzaken. Gelukkig komen einstige gevallen zelden voor.

Diarree

Antibiotica kunnen het normale evenwicht verstoren in je darmen. Met diarree als gevolg.

Maaglas

Tijdens de behandeling met antibiotica kan je last hebben van een zwaar gevoel in de maag. Mogelijk verlies je ook je eetlust of is je smaakzin verstoord.

Schimmelinfectie

Een behandeling met antibiotica verhoogt ook de kans op schimmelinfecties van huid en slijmvliezen. Met witverlies bij vrouwen of wit beslag in de mond als gevolg.

Risicogroepen

Sommige mensen moeten extra voorzichtig zijn wanneer ze antibiotisc anneen. Den kmar aan zwangere vouwen of vrouwen die borstvoeding geven. Ook mensen met een nierziekte of een leverziekte moeten extra opletten. Behoor je tot deze ristioopropene, meld het dan besikst aan je arts.

PRAAT EROVER MET IE ARTS OF A POTHEKER.

Als je ziek bent, vraag je advies aan je arts of apotheker. Niet meer dan correct. Maar in deze folder lees je dat antibiotica niet altijd de correcte oplossing zijn bij winterkwalen. Stel je daarom beslist deze vragen bij je doldersbezoek

- Wat schrijft mijn arts voor? Zijn het antibiotica?
 Gaan antibiotica effect hebben op mijn Machten?
- Welke dosissen en tijdstippen moet ik respecteren?

Coördinatie en wetenschappelijk ondersteuning: Belgische Commissie voor de Coördinatie van het

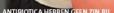
Beigische Commissie voor de Coordinatie van he Antibioticabeleid | bapcoc@health.fgow.be

Een initiatief van de Federale Overheidsdienst Volksgezondheid, Veiligheid van de Voedselketen en Leefmilieu. Met de steun van het RIZIV.









OPGELET:

INDIEN NODIG.

ALLEEN GEBRUIKEN

OPGELET: ALLEEN GEBRUIKEN INDIEN NODIG.

OPGELET: ALLEEN GEBRUIKEN INDIEN NODIG.

ANTIBIOTICA HEBBEN GEEN ZIN BU GRIEP, BRONCHITIS OF EEN VERKOUDHEID.

BAAT HET NIET, DAN SCHAADT HET WEL

Tijd geneest

Antibiotics zijn een mooie uikvinding Temmisste zit se concept pebruik worden. Do halpan an mite bij grieg, nevloucheid, acute bronchitis en de meeste vormen van keel- en oorontstaking. Dieze inflicties worden veroorzaak door vitussen en/ of we geneen er sportaan van en antiele dagen. Hervoor antibiotics gebruiken, heeft overweel zin als de hele dag met zwembanglis erondlopen.

Wanneer zijn antibiotica dan wel nodig?

Antibiotica zijn arkeil notig alt we annitg zijkk zijn door backnih. Bacterikh zijn minusouli skine levende weezen die zich zeer snel kunnen vermenigvuldigen. Niet alte bacterikh zijn schadelijk voor de mater, sommige zijn zelfs nutrig. Bacterikh zijn kunnen eichter ook onder andere longonstraking, bacterikh contrakting, wondinfacties en ankeis ernstigsvormen van kealen ooronstraking veroorzaken. Dan is een behandeling mit antibiotics nodig om ons zifweersysteem te helpen deze schadelijke bacterikh te vermietigen.



Infecties zoals griep, bronchitis of een verkoudheid genezen spontaan.

Hebben kinderen vaker antibiotica nodig dan volwassenen?

Ja en neen Kindenen zijn valer ziek, dus ook wat vaker ernstig ziek. Maar ook bij kinderen helpen antbibloton niet bij griep, verkoudheid, oute bronchitis en de meeste vermen van keelen oerontstaking. Sovendien ontheem je kindenen de kans om hun eigen afweersysteem op te bouwen en aan te scherpen door onnodig antbiblotos te geven.

ANTIBIOTICA OF NIET? EN WAT DAN WEL?

Je arts is de geschikte persoon om de juiste behandeling in te stellen. Soms moet eerst een bloedstaal of uitstrijkje van de keel onderzocht worden.

Antibiotica doen niets aan virale infecties en hebben nauwelijks effect op gewone backeriële infecties. Deze genezen sportaan. De symptomen kunnen wel bestreden worden zodat de ziele sich beter voelt. Bij emstige infecties wevoorzaakt door backeriën is een behandeling met artibiotic awel noodzabelijk.

ziekte	GENEESMIDDELEN	AANBEVELINGEN	
Griep	Pijnstillen,koarts- werende midden	Bust, vaccinatio for preventie	
Sinustis	Alpistillers, koorts- werende middelen	Stomen met werm water	
Diames	Some antidiarres- middelen	Valdzende drinken, goede fygikine	
Verkoudheid	Piprotilen	Tabak vermijden	
Azute broaditte	Ayutlan	Tabat verrejden	
Keelontsteking	Piputillers	Tabat vermijden	
Corontrisking	Ajnstillen, koorts- werende meldelen	Bust	
Longpatztelling	Antibiotica	Ernstig, good op te volgen door arts, some opname in zielkenhuis	
Barteriële hemenvlies- metriceling	Antibiotica	Ernetig, good op te vol- gen door arts, opname in siekerhuit	

BELANGRIJK: GEBRUIK ANTIBIOTICA ALTIJD CORRECT

Ais je arts antibiotica voorschrijft, is het belangrijk dat je de voorgeschreven behandeling nauwkeung volgt. Alsen zo ben je zeker dat alle bacteriën vermietigd zullen worden en vermiet je de selectie van resistente bacteriën (de resistente).

Vuistregels

- 1 Respecteer de dosissen en de tijdstippen.
- Sla nooit een inname over en gebruik de voorgeschreven hoeveelheden.
- 2 Stop niet woeger dan woorgeschreven. Maak je antibioticakuur volledig af. Ook als je je na een paar dagen al beter voelt. Oat is nodig omdat de bacteriën stechts geleidselijk worden vemietigd.
- Bewaar ze niet.

Hou nooit restjes antibiotica bij voor een volgende keer. Breng ze naar je apotheker.

WAT IS RESISTENTIE?

Door hat niet correct gebruik van artiktinkie, neem het aandeel toe van bateriin die weerstand kunnen beiden tegen artibioties. Deze bestellen zijn met andere woorden resistent of ongewoordig voor artibioties. Zokumen emstige zielsten niet meer veren volk en doels. Zokumen emstige zielsten niet meer veren volk niede. Erreffend behandeld worden als voorbean. Ook heelkundige ingrepen van wonderig tot transplantstales worden riskoord als artibioties niet meer werken.

BEN GEEN ZIN BIJ GRIEP, BRONCHITIS OF EEN VERKOUDHEID

PRAAT EROVER MET JE ARTS OF APOTHEKER

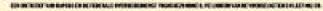
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OPGELET: ALLEEN GEBRUIKEN INDIEN NODIG

Gebruik antibiotica ook alleen als het nodig is

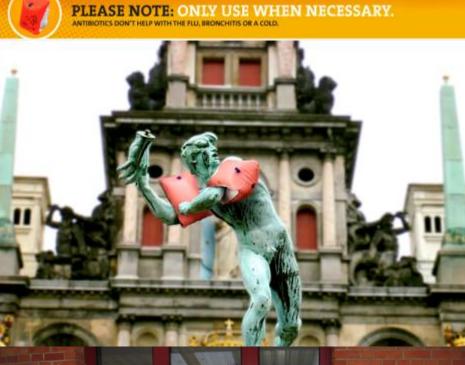
www.gebruikantibioticacorrect.be



18 November Europese Antibioticadag

Een Europees gezondheidsinitiatief







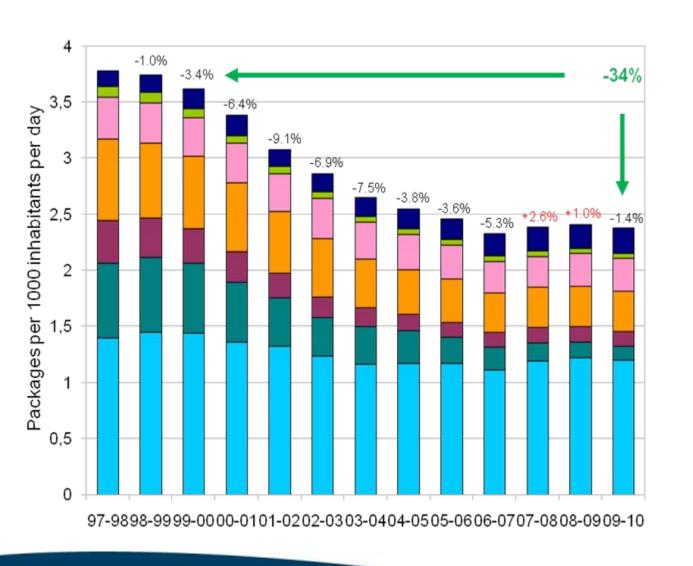




Belgian Campaigns 2002-2010







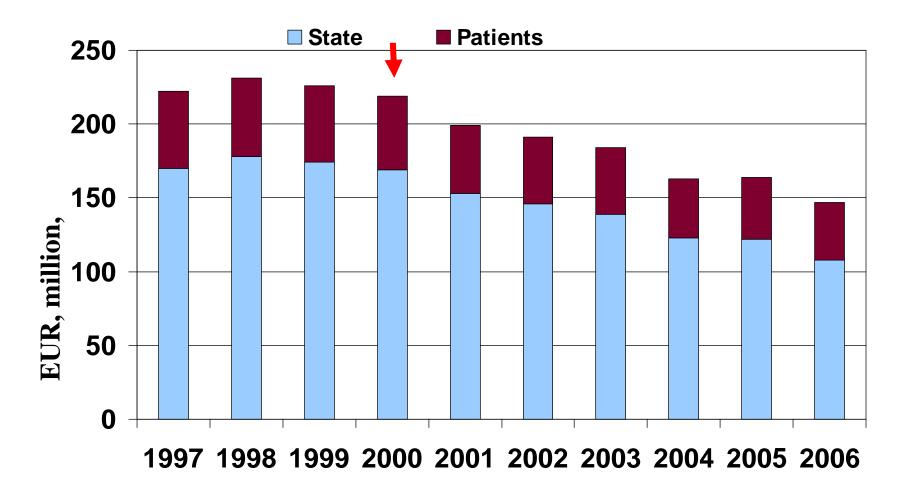
- Other J01 classes
- Sulfonamides and trimethoprim (J01E)
- Quinolones (J01M)
- Macrolides, lincosamides and streptogramins (J01F)
- Tetracyclines (J01A)
- Cephalosporins and other betalactams (J01D)
- Penicillins (J01C)



Belgian Campaigns 2002-2007 Outpatient antibiotic Use in Belgium in EUR,



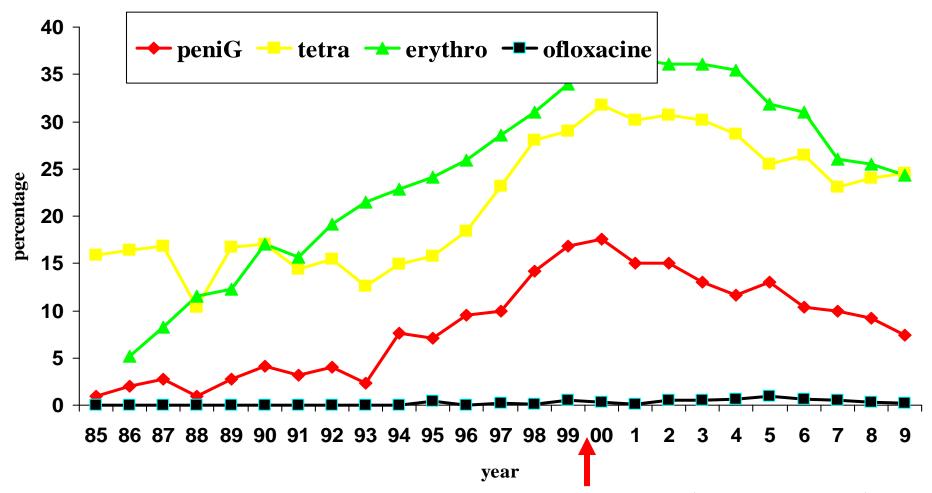






Antibiotic Resistance of S. pneumoniae in Belgium 1985 - 2009





National Reference Centre S. pneumoniae (University Leuven)



French Awareness Campaigns

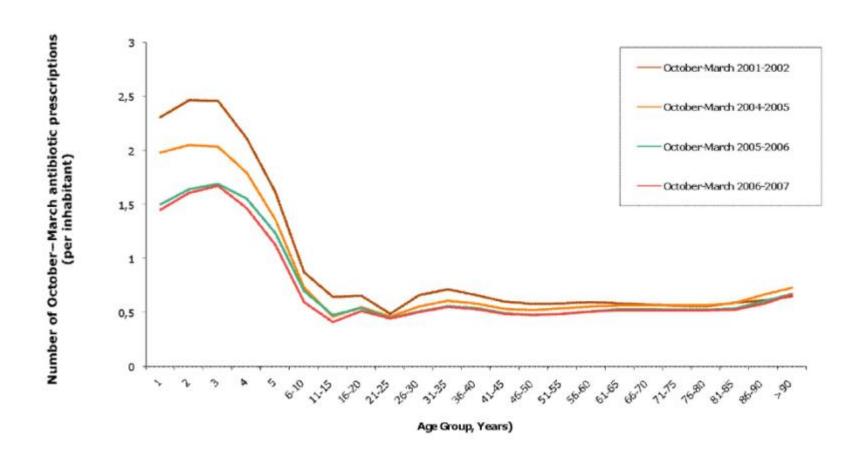
- When: since November 2002, annually during winter season
- Organised by: French Social Insurance System
- Budget:
 - 4 million EUR/annual campaign
- Interventions targeting the public:
 - Ads on TV, radio and newspaper
 - Information leaflets
 - Folders
 - Travelling exhibition around France
 - Internet campaigns: www.antibiotiquespasautomatiques.com



French Campaigns 2002-2007



Outpatient antibiotic use in France in prescriptions per inhabitant – October to March

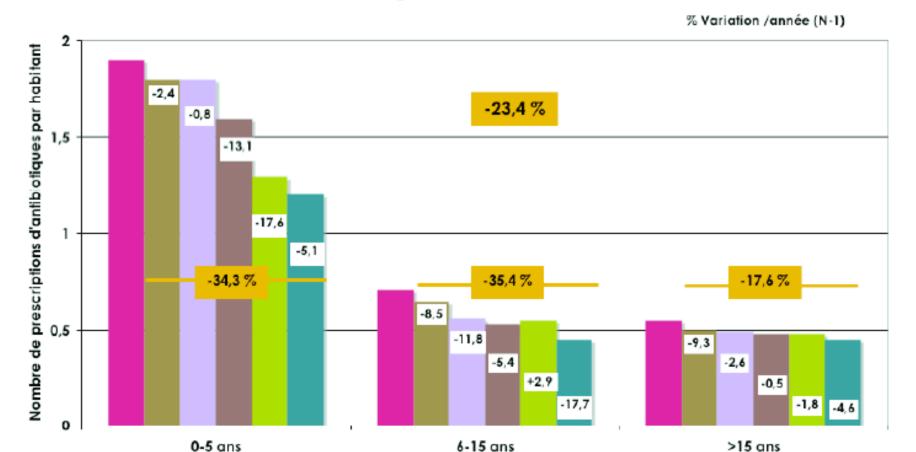




Hiver 2001-2002

Antibiotic Use by Age Group in France





http://www.ameli.fr/fileadmin/user_upload/documents/DP_Antibiotiques_10-01-2008.pdf



Conclusions



- National public campaigns have been very successful to reduce antibiotic use and resistance in Belgium and France
- Huge cost savings: for 1 € invested, about 8 were saved
 - Belgium: 250 million EUR 2000-2010
 - France: 845 million EUR 2002-2010
- Decrease of antibiotic use amplified by the effect of the 7 valent conjugated pneumococcal vaccine
- In both countries actions were also directed towards the prescribers:
 - academic detailing
 - distribution of guidelines
 - individual feed-back of antibiotic prescriptions
 - promotion of streptococcal antigen tests (only France)

The burden of antibiotic resistance warrants a multifaceted approach

18 November 2008

EUROPEAN ANTIBIOTIC **AWARENESS DAY**

A European Health Initiative





European Antibiotic Awareness Day, 18 November 2008



- Establishment of Technical Advisory Committee (national experts, Commission, WHO EURO, CPME, ESCMID)
- Focus on awareness raising amongst general public about not using antibiotics when not necessary, e.g. for colds and flu
- Based on successful national campaigns (Belgium and France)



Slogans & logos





A European Health Initiative







A European Health Initiative





A European Health Initiative



Een Europees gezondheidsinitiatief



Una iniciativa europea para la salud





Et europæisk sundhedsinitiativ



Europejski Dzień Wiedzy o Antybiotykach

Europejska inicjatywa zdrowotna



Ett folkhälsolnitlativ från EU



Európal egészségügyi kezdeményezés



Evropski dan antibiotikov

Evropska pobuda na področju zdravja

Ziua Europeană a Informării despre Antibiotice

O inițiativă europeană în domeniul sănătății

Journée Européenne d'Information sur les Antibiotiques

Une initiative européenne en metière de santé



Jum Ewropew għall-Għarfien dwar l-Antibijotići

Inizjattiva Ewropea ghas-Sahha



Μια πρωτοβουλία της Ευρωπαϊκής Ένωσης για την υγεία





Images from National Campaigns on **Prudent Use of Antibiotics**





Images from National Campaigns: Belgium, Cyprus, Poland, England, Luxembourg, Greece





Europejski



ANTIBIOTICS WON'T HELP YOUR DEFENCES AGAINST A COLD.

The best way to treat most colds, coughs or sore throats is plenty of





EAAD, 2008-2011

2008

Materials for general public 32 countries participated

2009

- Article in Eurosurveillance
- Materials for primary care prescribers
- Website translated in all EU languages, three TV spots developed
- 34 countries participated

2010

- 36 countries participated
- Materials for hospital prescribers
- Matched Get Smart week in the United States and the campaign in Canada

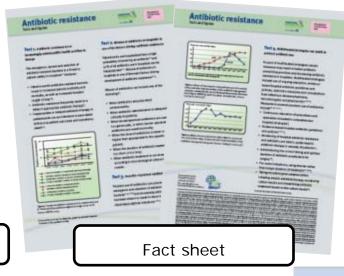




Toolkit for Hospital Prescribers





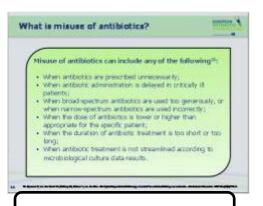




Advertorial



Check list



PPT Presentation





EAAD 2010 Media coverage



Key Figures

Number of clippings

476

Reach (print)

51,334,208

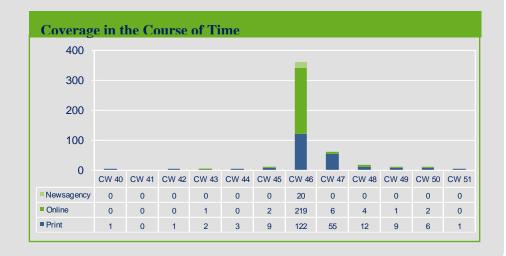
Circulation (print)
Visits (online)

17,152,770 54,241,600





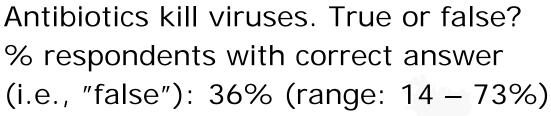


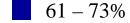




Eurobarometer Opinion Poll, November-December 2009





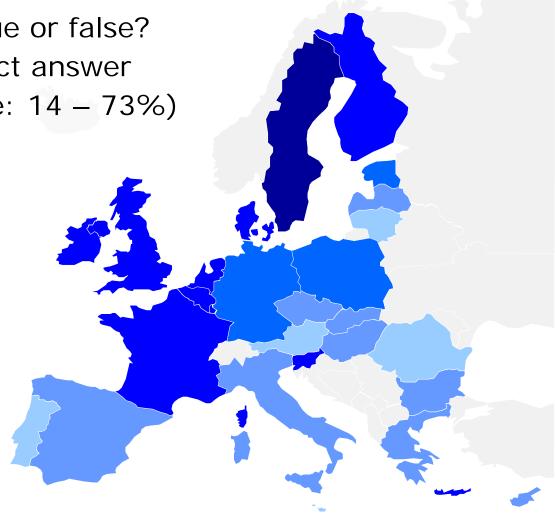


$$41 - 60\%$$

$$31 - 40\%$$

$$21 - 30\%$$

$$14 - 20\%$$





Why is the EAAD so successful?



- Strong upfront political support and commitment at European and national level;
- Planning well ahead;
- Building on existing success stories of countries;
- Early establishment of a Technical Advisory Committee with dedicated experts;
- Briefing of national communications contact points prior to the campaign and sharing contact information;
- Initiation of a broad stakeholder contact programme to inform interest groups and invite contributions;
- Good support from professional organisations,
- Development of campaign key messages and visuals with the support of experts in social marketing.







FIRST GLOBAL PATIENT SAFETY CHALLENGE





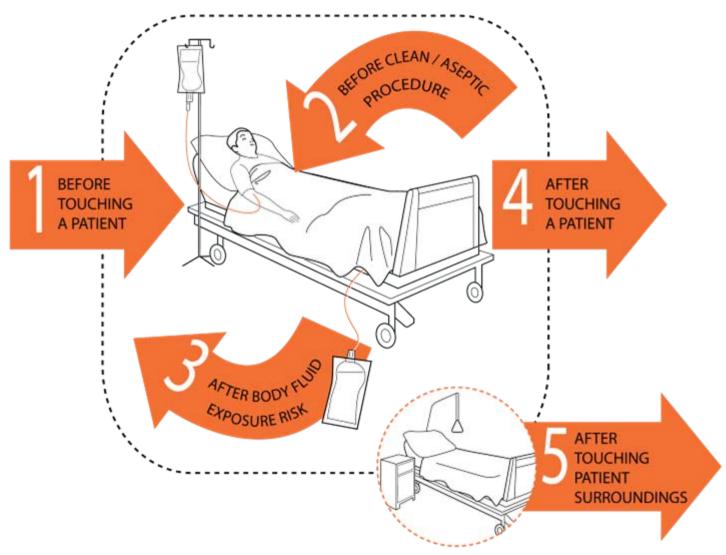


To reduce
health care-associated infections
Hand hygiene as the cornerstone



"The 5 Moments of Hand Hygiene"





Sax et al, J Hosp Infect 2007;67:9-21





Hygiène des mains

Quand?

Les 5 indications



2008-2009 / Campagne nationale
"Vous êtes en de bonnes mains"



AVANT contact patient

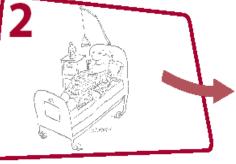
Avant tout contact direct avec un patient Un contact social court (par ex. serrer la main) est probablement associé à un risque de transmission moindre

APRES exposition aux liquides biologiques



Après un acte comportant un risque d'exposition à des liquides biologiques qui normalement s'anticipe par le port de gants

En cas d'exposition accidentelle à des liquides biologiques ou des muqueuses, lavage des mains suivi d'une friction à la solution hydro-alcoolique APRES contact patient



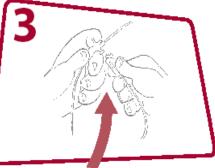
En quittant un patient après un ou des contacts directs

APRES contact avec l'environnement du patient



Après avoir touché des objets ou des surfaces à proximité immédiate du patient

L'environnement peut avoir été contaminé par le patient ou lors d'un soin précédent AVANT acte propre/invasif



Immédiatement avant un soin propre Immédiatement avant un geste invasif

Port de gants si risque d'exposition à des liquides biologiques ou des muqueuses

En cas de souillures visibles, se laver les mains, les sécher puis les désinfecter avec la solution hydro-alcoolique





Methodology



Nation-wide campaign:

- **2004:** preparation of first campaign by working group of federal platform of hospital hygiene with the financial support of the ministry of Health
- Objective: Raising awareness on good hand hygiene practices and promote use of alcohol handrubs
- Target population:
 - **HCW** having contact with patients in hospitals
 - And hospitalised patients
 - In acute, chronic and psychiatric hospitals



Methodology: Two components

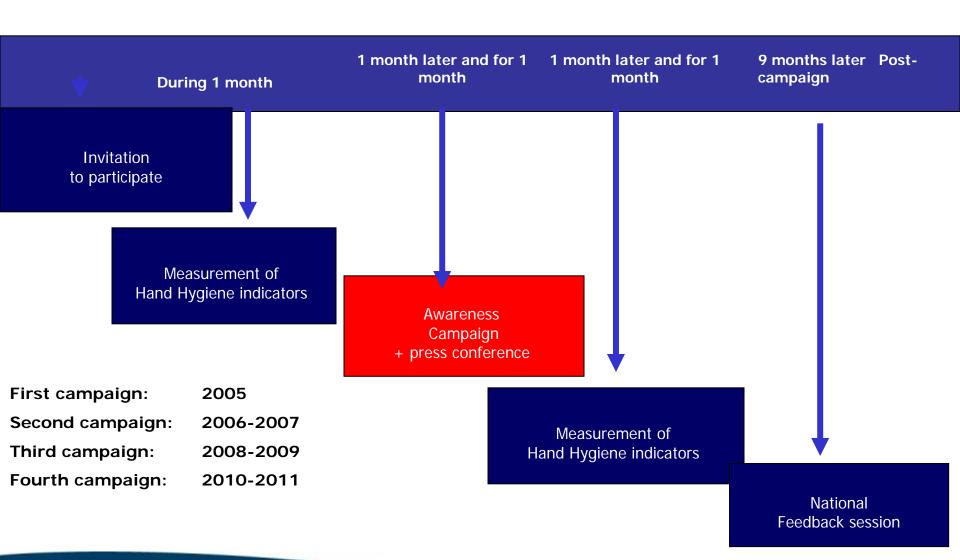


- Awareness campaign with standardised material to improve Hand Hygiene compliance distributed to participating institutions
- 2. Measuring impact of the campaign
 - Hand Hygiene compliance (soap and/or alcohol / Hand Hygiene opportunities)
 - Alcohol rub consumption (liters alcohol rub / 10,000 patient days)
 - Respect of basic hygiene conditions (optional, only 3rd campaign)



Vi Planning of Campaigns





Awareness Campaigns: Multi Modal



- Reminders (posters) in accordance with the WHO guidelines
- Education of Healthcare workers
 - Standardised powerpoint presentation
 - Interactive quiz
- Distribution of gadgets for Healthcare workers or patients
- Promotion of hand rub (posters, black light)
- Implication of patients (leaflets, gadget)
- Feedback of measurement results before and after campaign



Campaign Messages and Targets Varied!

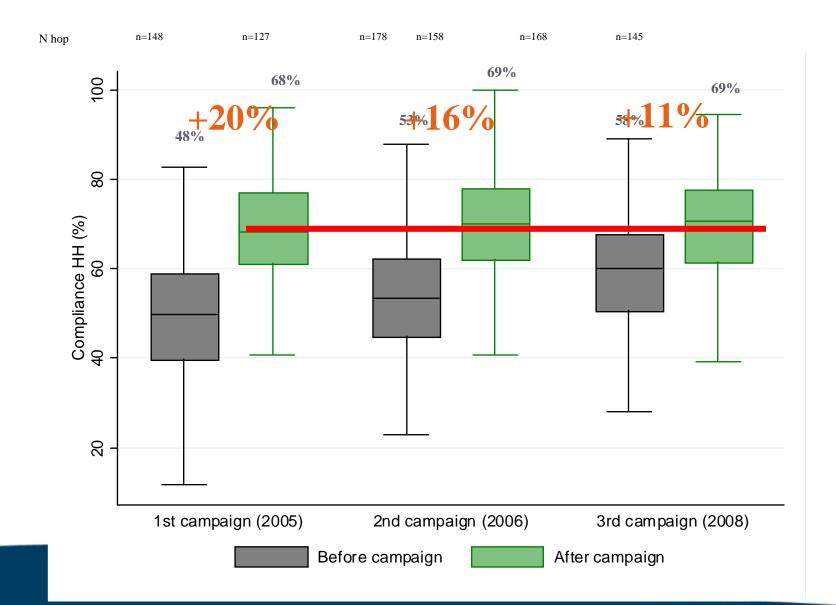


- First campaign:
 - ➤ Hand hygiene, just do it ... and with alcohol rubs
- Second campaign:
 - ➤ Hand hygiene, do it correctly
- Third campaign:
 - ➤ Do not wear jewellery or artificial nails and keep your nails clean
 - ➤ Use gloves correctly
- Fourth campaign:
 - ➤ Patient empowerment: "Did you disinfect your hands" to increase the compliance before patient contact and to try to exceed the 70% compliance after campaign



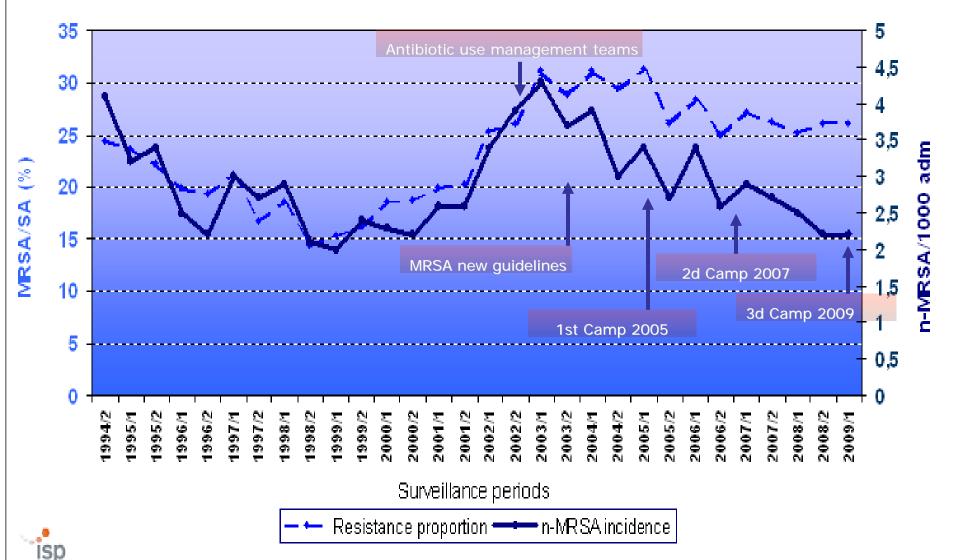
Distribution of Average Hand Hygiene Compliance





MRSA in Belgian acute care hospitals: proportion of *S.aureu*s clinical isolates and incidence of nosocomial acquisition

1994 - 2009



Source: National surveillance, B. Jans

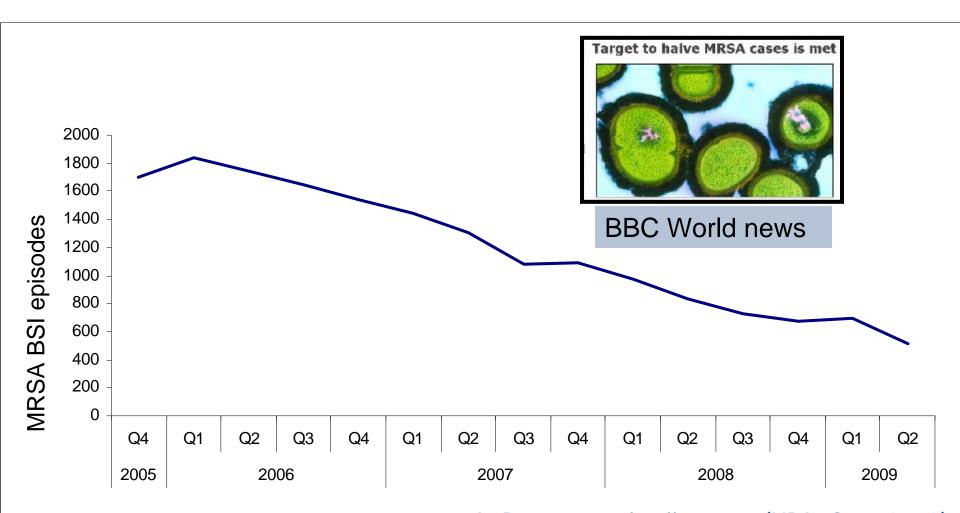
Variable Conclusion: Campaigns Were Successful

- High participation rate
- Increase of Hand Hygiene compliance at short and long term
- Alcohol rub widely used
- → Key factors for success:
 - Multi modal awareness campaign
 - Repetition of campaign
 - National implication
 - Political and financial support



Counts of MRSA Bacteraemia Oct 2005 to June 2009



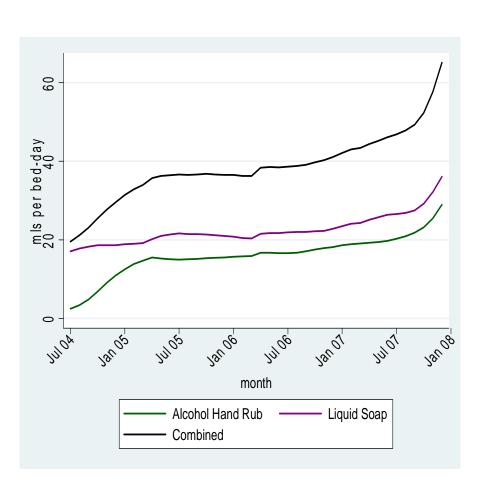


A. Pearson and colleagues (HPA, Sept 2009)



Estimated average procurement of Alcohol Hand Rub and Liquid Soap in mls per bed-day July 2004-December 2007 in 148 acute NHS Trusts





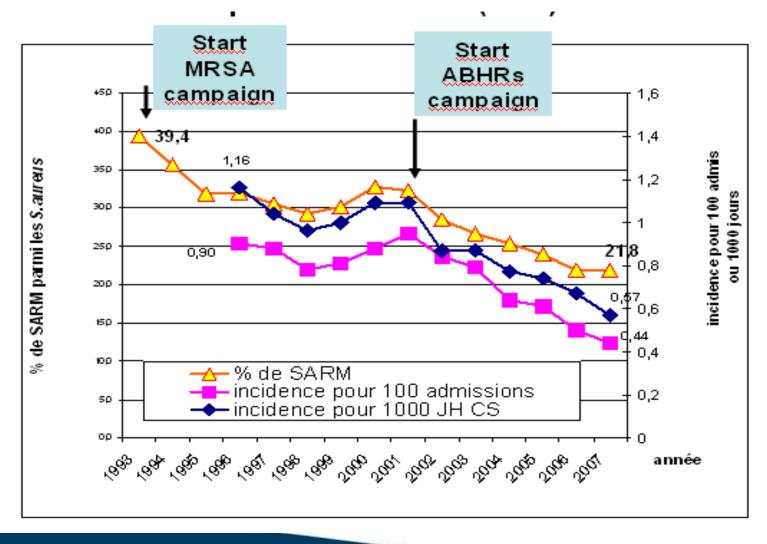
- 3-fold increase in combined use to 60 mls per pt-day
- Analysis shows highly significant association between each ml of AHR used and 1% drop fall in MRSA BSI

Stone S et al. ECCMID 2009 (abstract O140)



% MRSA and incidence per 100 admissions or 1000 days of hospitalisation. Univ. hospitals of Paris (n=39) 1993-2007



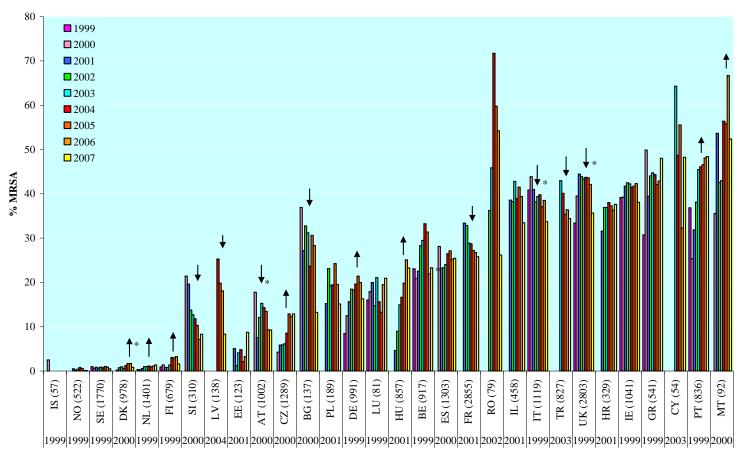




Many Success Stories in Europe:



MRSA Bacteraemia Trends in Europe, 2007



Country code (average number of isolates reported per year) & year of start surveillance#



Expert-Proposed European Strategies to Monitor and control Infection, Antibiotic Use and Resistance in Health-care Facilities



- Initiate or continue hand hygiene campaigns and use hand hygiene as a quality indicator
- Collection and monitoring of structure-of-care quality indicators and indicators of good practice (e.g. consumption of alcohol solution)
- ECDC Point Prevalence Surveys on HAI and AB Use (completed in all Member States by November 2012; repeated at least once every 5 years)
- National LTCF resident safety programmes, external audits of LTCF and monitoring

Goossens, Lancet Infect Dis 2011, April 7th



Outline



- Problems of antibiotic (ab)use and resistance in Europe
- Towards a European antibiotic policy
 - First steps
 - Member States initiatives
- National and European campaigns
 - On prudent antibiotic use
 - On hand hygiene in hospitals
- Towards a Global policy
 - Transatlantic Task Force for Antimicrobial Resistance (TATFAR)
 - World Health Day, April 7th 2011



Trans Atlantic Task Force on Antimicrobial Resistance - TATFAR



EU-US Summit Declaration – Washington 3 November 2009



The EU-US Summit Declaration called for the establishment of "...a transatlantic task force on urgent antimicrobial resistance issues focused on appropriate therapeutic use of antimicrobial drugs in the medical and veterinary communities, prevention of both healthcare- and communityassociated drug-resistant infections, and strategies for improving the pipeline of new antimicrobial drugs, which could be better addressed by intensified cooperation between us".



Organisations - US





United States Department of Health and Human Services:



Office of Global Health Affairs (OGHA)



Centers for Disease Control and Prevention (CDC)



Food and Drug Administration (FDA)



National Institutes of Health, National Institute of Allergy and Infectious Diseases (NIAID/NIH)



Organisations - EU





European Commission:

EC-Directorate General for Health and Consumers

EC-Directorate General for Research

European Centre for Disease Prevention and Control (ECD

European Medicines Agency (EMA)

European Food Safety Authority (EFSA)

Council of the European Union:

Represented by the TRIO Presidency (Spain, Belgium, Hungary)









TATFAR Outcome and Timeline



The expected outcome of the TATFAR is a review of ongoing and planned activities and a proposal with suggestions for areas of future collaboration between the EU and the US.

September

Launch of EU interaction with third parties based on Commission website

Consultation

December 1915

December

Interim draft reports from working groups (including input from public consultations)

31 March Final report

2010

2011

<u>June</u> TATFAR face to face meeting, US October November
U.S. stakeholder
meeting

January
Final draft
reports from
working groups

March

Face to face meeting, EU

Vi) And Now.... Use World Health Day, 7 April, 2011





Conclusion



"We have watched too passively as the treasury of drugs that has served us well has been stripped of its value. We urge our colleagues worldwide to take responsibility for the protection of this precious resource. There is no longer time for silence and complacency".

Carlet J, Collignon P, Goldman D, Goossens H, Gyssens I, Harbarth S, Jarlier V, Levy S, N'Doye B, Pittet D, Richtmann R, Seto W, van der Meer J and Voss A. Lancet, 2011; April 7th



Acknowledgement



Anne Simon and many other colleagues of the Belgian Antibiotic Policy Coordination Committee (BAPCOC)

Belgian Chief Medical Officer, Christiaan Decoster

Belgian Ministers of Public Health (Frank Vandenbroucke, Magda Aelvoet, Rudy Demotte and Laurette Onkelinx

Dominique Monnet and Sarah Earnshaw of ECDC, Stockholm