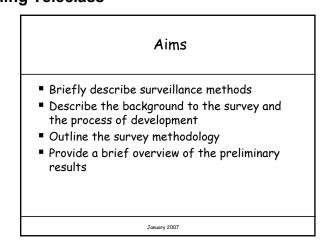
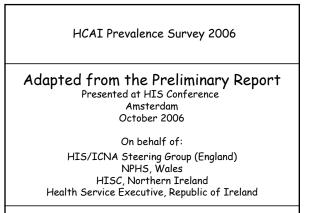
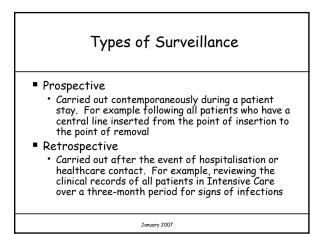
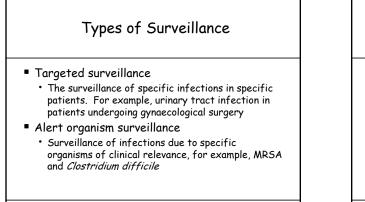
| Department of Health NHS CYMRU WALES | | e ^{internation} in the second |
|--|---|--|
| | UK Prevalence Survey | |
| | Christine Perry Nurse Consultant Infection Control Steering Group ICNA representative | |
| | Hosted by Maria Bennallick maria@webbertraining.com | |
| HISCON | January 2007 | |



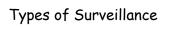


January 2007





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Incidence survey

 The number of cases of infection that occur in a cohort of patients usually over an extended period of time

- Prevalence survey
 - The number of infections present when surveyed over a defined period in time a 'snapshot'

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Background and Process (1) UK and Ireland

- In 2004 HIS was approached by the DH (England) to conduct a HCAI Prevalence Survey in England
- Steering Group convened in collaboration with ICNA
- HIS in conjunction with the ICNA issued invitations to DHs in Wales, Scotland, Northern Ireland and the ROI to participate

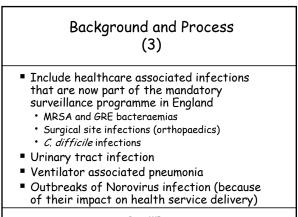
All agreed

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Background and Process (2)

- To provide Department of Health with baseline information on the total prevalence of HCAI in acute hospitals
- Information to be made available to guide priority setting in the development of strategy and policy
- To develop a consistent methodology for repeated prevalence surveys will allow the impact of measures taken nationally to reduce the burden of HCAI to be evaluated through an analysis of trends over time

January 2007



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Background and Process (4)

- Use identical methodologies (CDC Definitions of Infection)- these will allow aggregation of data from each country
- To include data from Scotland, Wales, Northern Ireland and the Republic of Ireland to enable a UK and Ireland analysis to be undertaken

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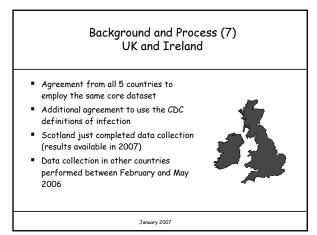
Background and Process (5)

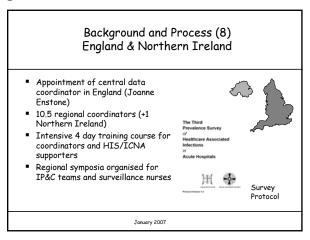
- Identify the priority areas for targeted surveillance of incidence
- Identify the priority areas for interventions to prevent and control HCAI
- Determine the acceptability, feasibility and cost of undertaking prevalence surveys
- Production of a suitable methodology for repeated prevalence surveys which give comparable information

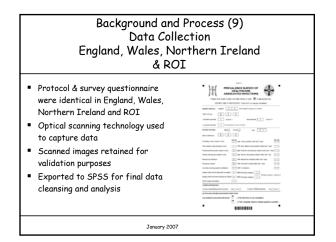
January 2007

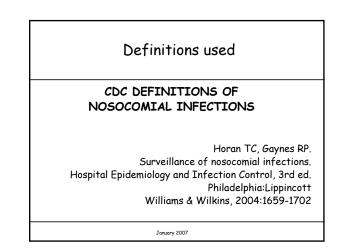
Background and Process (6) UK and Ireland Scotland, however, were already planning a prevalence survey which included an economic analysis of the burden of HCAI DH (England) funded the HIS/ICNA survey in England and HISC asked to take the lead DHs in Wales, Scotland, Northern Ireland and the ROI also funded their respective surveillance centres to undertake the survey

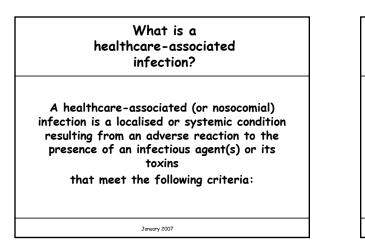
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| Criteria for healthcare-associated infection |
|--|
| na in the aunum percentation |

Occurs in the survey population

and

 There is no evidence that it was present or incubating at the time of admission to this hospital unless the infection was related to a previous admission to this hospital (i.e. the hospital under surveillance)

and

- It meets the criteria for a specific infection site
- "For most bacterial nosocomial infection, this means that the infection usually becomes evident 48 hours (i.e. typical incubation period) or more after admission."

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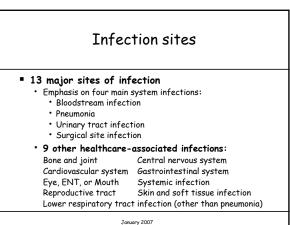
What infections were collected?

All active healthcare associated infections active at the time of the survey

includes

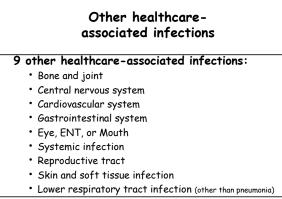
healthcare associated infections for which the patient is undergoing antimicrobial treatment on the day of the survey

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Related questionsOth
assoc• Only the four main infections will be
identified to specific site level9 other healthcar
• Bone and joint
• Central nervous
• Cardiovascular s
• Gastrointestinal
• the infection was device or procedure
related
• the patient developed a secondary
bloodstream infection9 other healthcar
• Bone and joint
• Central nervous
• Cardiovascular s
• Gastrointestinal
• Systemic infecti
• Skin and soft tis
• Lower respirator

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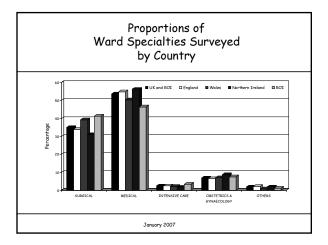
| Department of Health | Billion, Norbida Simila ages Vabilitationan Ind and Palle Mary |
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| NHS CYMRU WALES | Repairing the second se |
| | Survey Preliminary sults |
| provided for th Teleclass o | slides have been ne purpose of this only. Further n is prohibited |
| 10mm | y 2007 |

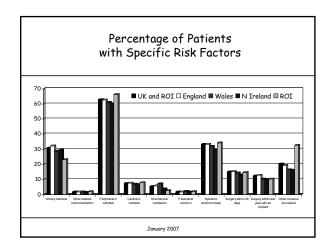
| | Flosp | | d Patient | 3 | |
|--------------------------------|------------------------|---------------------|-------------------------|-----------------------|------------------|
| | Number of hospitals | Number of Trusts | % of eligible Trusts | Number of patients | % of patients |
| UK and Republic of Ireland* | 273 | - | - | 75,763 | 100% |
| England | 190 | 130 | 77% ¹ | 58,795 | 77.6% |
| Wales | 23 | 13 | 100% | 5,825 | 7.7% |
| Northern Ireland | 15 | 12 | 100% | 3,625 | 4.8% |
| Republic of Ireland | 45 | - | - | 7,518 | 9.9% |
| Jersey | 1 | - | - | 162 | - |
| *Excludes Scotland a | and Jersev | | 1130/169 | | |

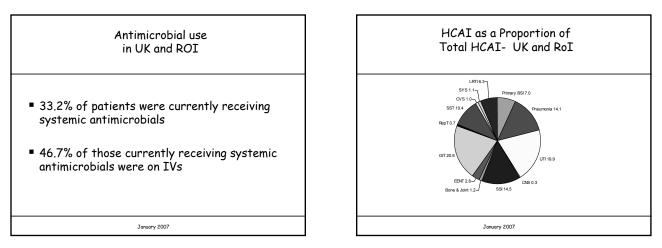
| | Year | Location | Number of hospitals | Number of patients | Increase in patients | Prevalence Rate |
|---|---------|--------------------|------------------------|-----------------------|-------------------------|--------------------|
| First National Prevalence Survey ¹ | 1980 | England & Wales | 43 | 18,186 | surveyed | 9.2% |
| Second National Prevalence Survey ² | 1993 94 | UK & Ireland | 157 | 37,111 | 104% | 9.0% |
| Third National Prevalence Survey | 2006 | UK & Ireland* | 273 | 75,763 | 317% | 7.6% |

| | Prevalence Rate | 95% <i>C</i> I |
|------------------------------------|-----------------|----------------|
| 1993/94 Prevalence Study | 9.0% | 8.8 - 9.3 |
| UK and ROI (excluding Scotland) | 7.6% | 7.4 - 7.8 |
| England | 8.2% | 8.0 - 8.4 |
| Wales | 6.3% | 5.7 - 7.0 |
| Northern Ireland | 5.5% | 4.8 - 6.3 |
| Republic of Ireland | 4.9% | 4.4 - 5.4 |

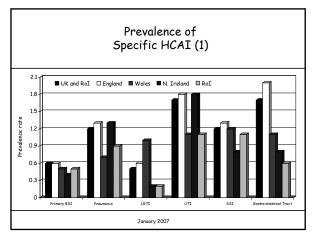
HCAI Prevalence Rate

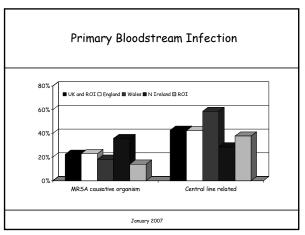


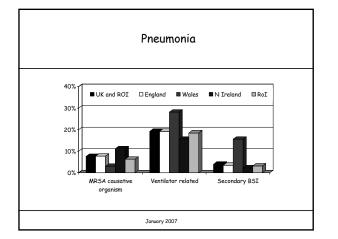


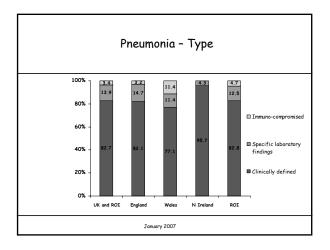


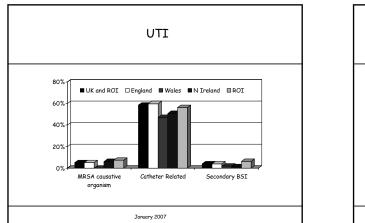
Hosted by Maria Bennallick maria@webbertraining.com www.webbertraining.com

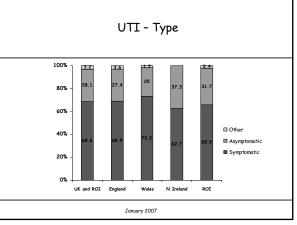




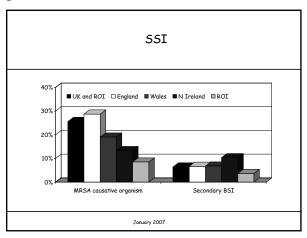


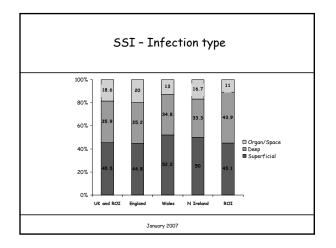


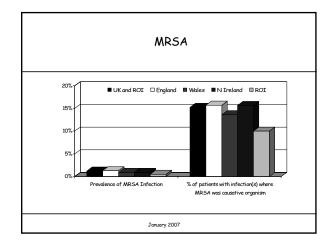




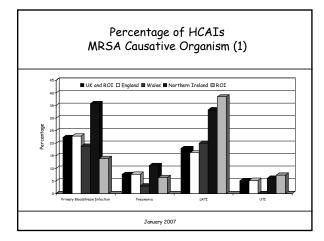
| SSI | | | | | |
|---|---------------|---------|-------|-----------|-------|
| | UK and ROI | England | Wales | N Ireland | ROI |
| Prevalence rate, i.e. SSI per 100 patients surveyed | 1.2 % | 1.3 % | 1.2 % | 0.8 % | 1,1 % |
| SSI rate, i.e. patients who had surgery and developed an SSI | 4.2% | 4.2% | 5.0% | 3.1% | 4.3% |

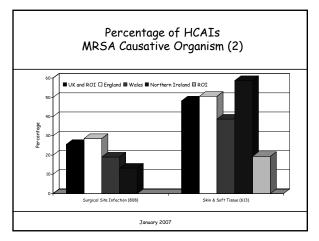


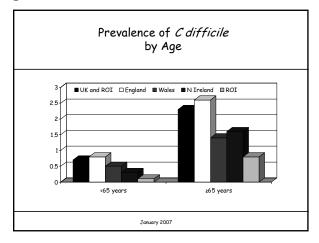


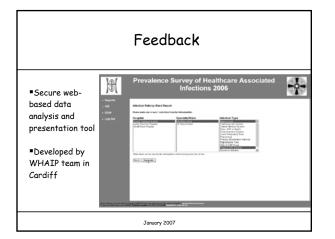


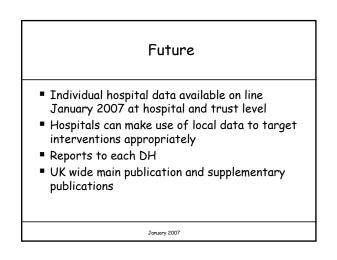
| | | entage o ausative | | | |
|-------------------------------------|--------------------|----------------------|-------------------|------------------|------------------|
| HCAI Site (Number) | UK and ROI | England | Wales | N Ireland | ROI |
| Primary Bloodstream Infection | 22.3 % (96/430) | 22.9 % (82/358) | 18.2 % (4/22) | 35.7% (5/14) | 13.9 % (5/36) |
| Pneumonia | 7.6 % (65/853) | 7.7 % (55/711) | 3.0 % (1/33) | 11.1 % (5/45) | 6.3 % (4/64) |
| LRTI | 17.9 % (69/385) | 16.2 % (50/308) | 20.0 % (11/55) | 33.3 % (3/9) | 38.5 % (5/13) |
| UTI | 5.1 % (60/1167) | 5.2 % (50/969) | 0.0 % (0/50) | 6.1 % (4/66) | 7.3 % (6/82) |
| | | January 2007 | | | |











| January 18 | Personal Hygiene Measures to Prevent Influenza Transmission with Dr. Elaine Larson, Columbia University | | | | |
|-------------|---|--|--|--|--|
| | Sponsored by Deb Canada www.debcanada.com | | | | |
| January 25 | Twenty First Century Plagues with Prof. Robert Pratt, Thames Valley University | | | | |
| February 8 | Influenza – Of Poultry, Pets and People with Dr. Corrie Brown, University of Georgia | | | | |
| February 15 | Fresh Produce and Human Pathogenicity with Prof. Keith Warriner, Guelph University | | | | |

