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• more intensive antibiotic use  
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• obvious opportunities for clonal spread.
We compared prevalence of resistance in isolates from patients hospitalised for more than 48 hours (representing HAI) with that in isolates from all other known sources (taken to represent CAI).

Methods: 29 UK and Irish laboratories contributed blood isolates (excluding duplicates within one week) to the BSAC Bacteremia Resistance Surveillance Programme in 2001 and 2002. MICs were determined centrally by the BSAC agar dilution method.  
Abbreviations: AMC amoxicillin/ clavulanate, AMX amoxicillin, CAZ ceftazidime, CIP ciprofloxacin, ERY erythromycin, ESL extended spectrum β-lactamase, GEN gentamycin, IPM imipenem, LZD linezolid, OXA oxacillin, PEN penicillin, TET tetracycline, TZP piperacillin/ tazobactam, CNS coagulase-negative staphylococci, * p<0.05 (exact test).

Results: Charts show % resistance, breakpoints in mg/L, and risk ratios for HAI vs. CAI.
• Resistance rates were higher in HAI than CAI for most antimicrobials; statistically significant differences are highlighted.  
• Other significant differences could not be ruled out, as even 200 isolates per group are too few to reliably detect moderate differences where baseline resistance rates are low.  
• True differences are likely to be greater than shown here as patients in the CAI group may have been hospitalised previously.

Conclusion: Antimicrobial resistance was more prevalent in hospital-acquired infection than in infections acquired elsewhere. ESBLs were much more prevalent in, but not exclusive to, isolates from patients hospitalised >48 hours.

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Organism ID and Susceptibility Testing: M. Colman6, A. Williams6.
Collecting Laboratories: Ashford HPA; Bangor HPA; Belfast City; City Birmingham; Bristol HPA; West Suffolk Hospital, Bury St Edmunds; Cambridge HPA; Cardiff HPA; Chalmsford HPA; Chester HPA; Cork University; Coventry HPA; Ninewells Dundee; Beaumont Dublin; Glasgow Royal; Victoria Kirkaldy; Altrahven; Londonderry; Manchester HPA; Middlesbrough HPA; Freeman Newcastle; Norwich HPA; Nottingham HPA; Sheffield HPA; Shrewsbury HPA; Southampton HPA; St Mary’s London; Sunderland Royal; Truro HPA; UCH, London.
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