

Infection prevention and control: lessons from acute care in England

Studies included in the literature review

The learning report, *Infection prevention and control: lessons from acute care in England* was based on a large research study that identified and consolidated published evidence from the UK about national infection prevention and control initiatives and interventions. The researchers synthesised this with findings from qualitative case studies in two large NHS hospitals, including the perspectives of service users recorded during consultation events.

This document gives details of all the papers included in the literature review. The full report is available at www.health.org.uk/hcai

	Title	Author	Year	Focus	IPC Area	Study design	Country
1	Patient narratives of surgical site infection: Implications for practice	Tanner JP ¹	2013	Patient experiences	SSI	Qualitative - Interviews / Focus group / Ethnography	England
2	What counts? An ethnographic study of infection data reported to a patient safety program	Dixon-Woods M et al. ²	2012	Data collection methods / indicators	CLABSI	Qualitative - Interviews / Focus group / Ethnography	England
3	The effect of care bundle development on surgical site infection after hemiarthroplasty: an 8-year review	Johnson B et al. ³	2012	Care bundle	SSI	Non-controlled interrupted time series	England
4	Evaluation of the national Cleanyourhands campaign to reduce <i>Staphylococcus aureus</i> bacteraemia and <i>Clostridium difficile</i> infection in hospitals in England and Wales by improved hand hygiene: four year, prospective, ecological, interrupted time series study	Stone SP et al. ⁴	2012	Campaign	Hand Hygiene	Non-controlled interrupted time series	England and Wales

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5 Trends in <i>Staphylococcus aureus</i> bacteraemia and impacts of infection control practices including universal MRSA admission screening in a hospital in Scotland, 2006-2010: Retrospective cohort study and time-series intervention analysis	Lawes TE; ⁵	2012	Diagnostic testing / screening	MRSA	Controlled interrupted time series	Scotland
6 Universal screening for meticillin-resistant <i>Staphylococcus aureus</i> in acute care: Risk factors and outcome from a multicentre study	Reilly JSS; ⁶	2012	Diagnostic testing / screening	MRSA	Controlled interrupted time series	Scotland
7 Multiple component patient safety intervention in English hospitals: controlled evaluation of second phase	Benning A et al. ⁷	2011	Organisational intervention	General/ multimodal	Controlled before-and-after	England
8 Improving reliability of clinical care practices for ventilated patients in the context of a patient safety improvement initiative	Pinto A et al. ⁸	2011	Care bundle	VAP	Qualitative - Interviews / Focus groups / Ethnography	UK
9 The effect of computer-assisted learning versus conventional teaching methods on the acquisition and retention of handwashing theory and skills in pre-qualification nursing students: A randomised controlled trial.	Bloomfield et al. ⁹	2010	Educational intervention	Hand Hygiene	Randomised controlled trial	England
10 Effects of 'bare below the elbows' policy on hand contamination of 92 hospital doctors in a district general hospital	Willis-Owen CA et al. ¹⁰	2010	Campaign	Hand Hygiene	Case-control	England

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11	Healthcare-associated infection and the patient experience: a qualitative study using patient interviews	Burnett E et al. ¹¹	2010	Patient experiences	MRSA	Qualitative - Interviews / Focus groups / Ethnography	NA
12	Reduction of ventilator-associated pneumonia: active versus passive guideline implementation	Hawe CS et al. ¹²	2009	Care bundle implementation	VAP	Non-controlled before-and-after	Scotland
13	The dynamics of professions and development of new roles in public services organisations: The case of modern matrons in the English NHS	Currie GK ¹³	2009	Organisational intervention	General/multimodal	Qualitative- Interviews / Focus groups / Ethnography	England
14	Results of a multicentre randomised controlled trial of statistical process control charts and structured diagnostic tools to reduce ward-acquired methicillin-resistant <i>Staphylococcus aureus</i> : the CHART Project	Curran E et al. ¹⁴	2008	Surveillance	MRSA	Randomised controlled trial	UK
15	Soft authority: ecologies of infection management in the working lives of modern matrons and infection control staff	Crawford P et al. ¹⁵	2008	Organisational intervention	General/multimodal	Qualitative - Interviews / Focus groups / Ethnography	England
16	Diagnosis, management and prevention of ventilator-associated pneumonia in the UK	Hunter et al. ¹⁶	2007	Surveillance	VAP	Qualitative - Survey	UK
17	Bed occupancy and incidence of Methicillin-resistant <i>Staphylococcus aureus</i> infection in an intensive care unit	Howie AJ & Ridley SA ¹⁷	2008	Organisational factors	MRSA	Retrospective cohort	Wales

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18	Clinician-led surgical site infection surveillance of orthopaedic procedures: a UK multi-centre pilot study	Morgan M et al. ¹⁸	2005	Surveillance	SSI	Retrospective cohort	England Wales
19	Significant reduction of endemic MRSA acquisition and infection in cardiothoracic patients by means of an enhanced targeted infection control programme	Schelenz S ¹⁹	2005	Guideline implementation	MRSA	Retrospective cohort	England
20	Performance feedback of hand hygiene, using alcohol gel as the skin decontaminant, reduces the number of inpatients newly affected by MRSA and antibiotic costs	MacDonald A et al. ²⁰	2004	Audit and feedback	Hand Hygiene	Non-controlled before-and-after	England
21	The funding and organisation of infection control in NHS hospital trusts: a study of infection control professionals' views	Croxson B et al. ²¹	2003	Organisational factors	General/ multimodal	Qualitative - Survey	England
22	A user evaluation of the Nosocomial Infection National Surveillance System: surgical site infection module	Wilson JA et al. ²²	2002	Surveillance	SSI	Qualitative- Survey	England
23	Controlling methicillin-resistant <i>Staphylococcus aureus</i> : a feedback approach using annotated statistical process control charts	Curran ET et al. ²³	2002	Data collection methods / indicators	MRSA	Non-controlled before-and-after	Scotland
24	When the user is not the chooser: learning from stakeholder involvement in technology adoption decisions in infection control	Ahmad R et al. ²⁴	2012	Organisational factors	General/ multimodal	Qualitative -interviews	England

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25	Evidence that hospital hygiene is important in the control of methicillin-resistant <i>Staphylococcus aureus</i>	Rampling A et al ²⁵	2001	Diagnostic testing / screening	MRSA	Non-controlled before-and-after	England
26	A district general hospital's method of post-operative infection surveillance including post-discharge follow-up, developed over a five-year period	Stockley et al. ²⁶	2001	Surveillance	SSI	Non-controlled before-and-after	England
27	The costs and benefits of hospital MRSA screening (Structured abstract)	Guleri A et al. ²⁷	2011	Diagnostic testing / screening	MRSA	Non-controlled interrupted time series	England
28	Attitudes towards infection prevention and control: an interview study with nursing students and nurse mentors	Ward DJ ²⁸	2012	Individual factors influencing implementation / effectiveness	General/multimodal	Qualitative - Interviews / Focus groups / Ethnography	England
29	The Feedback Intervention Trial (FIT) - Improving Hand-Hygiene Compliance in UK Healthcare Workers: A Stepped Wedge Cluster Randomised Controlled Trial	Fuller CM ²⁹	2012	Audit & feedback	Hand Hygiene	Randomised controlled trial	England and Wales
30	Involving the patient to ask about hospital hand hygiene: a National Patient Safety Agency feasibility study	Pittet D et al. ³⁰	2011	Patient involvement	Hand Hygiene	Qualitative - Survey and interview	England
31	Infection control nurses' perceptions of the Code of Hygiene	Randle J ³¹	2011	Guideline development / implementation	General/multimodal	Qualitative - Interviews / Focus groups / Ethnography	England

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32	Infection-free surgery: how to improve hand-hygiene compliance and eradicate methicillin-resistant <i>Staphylococcus aureus</i> from surgical wards	Davis CR ³²	2010	Behavioural intervention	Hand Hygiene	Non-controlled before-and-after	NA
33	Exploring the hand hygiene competence of student nurses: a case of flawed self assessment	Cole M ³³	2009	Individual factors influencing implementation / effectiveness	Hand Hygiene	Qualitative - mixed	England
34	A simple effective clean practice protocol significantly improves hand decontamination and infection control measures in the acute surgical setting	Howard DP et al. ³⁴	2009	Educational intervention	General/multimodal	Non-controlled before-and-after	NA
35	The matron's role in acute National Health Service trusts	Gould D ³⁵	2008	Organisational factors	General/multimodal	Qualitative - Interviews / Focus groups / Ethnography	England
36	Discourse of 'transformational leadership' in infection control	Koteyko et al ³⁶	2008	Organisational factors	General/multimodal	Qualitative - Interviews / Focus groups / Ethnography	England
37	The habitus of hygiene: discourses of cleanliness and infection control in nursing work	Brown B et al. ³⁷	2008	Social & organisational factors influencing implementation / effectiveness	General/multimodal	Qualitative - Interviews / Focus groups / Ethnography	England

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38	Hand hygiene practices: nursing students' perceptions	Barrett R ³⁸	2008	Organisational and Individual factors influencing implementation / effectiveness	Hand Hygiene	Qualitative - Interviews / Focus groups / Ethnography	NA
39	Hand hygiene	Lusardi G ³⁹	2007	Social, organisational and Individual factors influencing implementation / effectiveness	Hand Hygiene	Qualitative - Interviews / Focus groups / Ethnography	Wales
40	Hand-hygiene behaviour, attitudes and beliefs in first year clinical medical students	Hunt DC et al. ⁴⁰	2005	Educational intervention	Hand Hygiene	Qualitative - Survey	England
41	Using indicator development to revise infection control activities in an acute NHS trust	Watterson L ⁴¹	2004	Organisational intervention	General/multimodal	Non-controlled before-and-after	England
42	A survey of doctors' and nurses' knowledge, attitudes and compliance with infection control guidelines in Birmingham teaching hospitals	Stein AD et al. ⁴²	2003	Organisational & individual factors influencing implementation / effectiveness	General/multimodal	Qualitative - Survey	England
43	Large variation in MRSA policies, procedures and prevalence in English intensive care units: a questionnaire analysis	Hails J et al. ⁴³	2003	Organisational factors	MRSA	Qualitative - Survey	England Wales
44	Technology adoption and implementation in organisations: comparative case studies of 12 English NHS Trusts	Kyratsis et al. ⁴⁴	2012	Organisational factors	General/multimodal	Qualitative -interviews	England

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45	Marketing hand hygiene in hospitals - A case study	Gopal GJ ⁴⁵	2002	Campaign	Hand Hygiene	Non-controlled before-and-after	England
46	Evaluation of a patient-empowering hand hygiene programme in the UK	McGuckin M et al. ⁴⁶	2001	Patient involvement	Hand Hygiene	Non-controlled before-and-after	England
47	Activity of a dry mist hydrogen peroxide system against environmental <i>Clostridium difficile</i> contamination in elderly care wards	Shapey S et al. ⁴⁷	2008	Organisational intervention	<i>C. difficile</i>	Controlled before-and-after	England

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