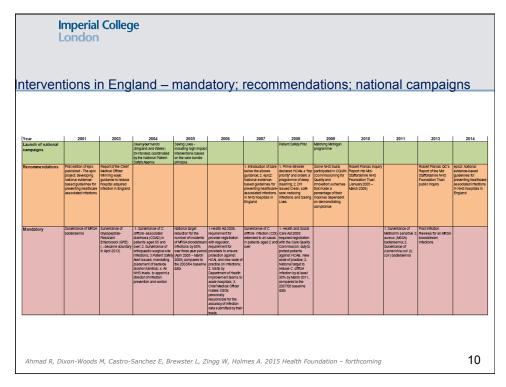
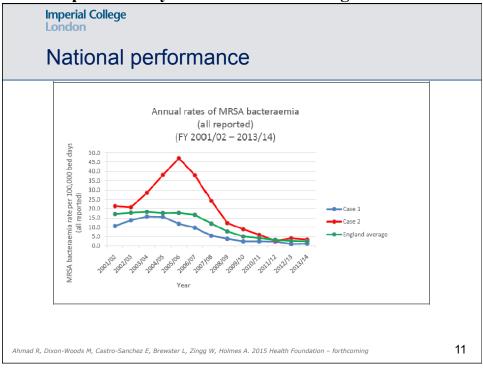
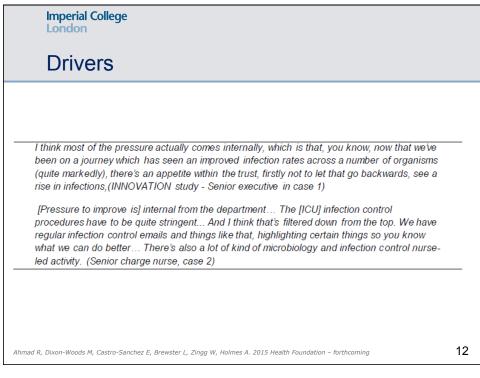


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| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| nternational d | eve | elop | me | nts | in t | ben | chn | nark | king | an | d p | ubli | c re | ероі | rting | g of | HC | Als | | |
| | | | | | | | | | | | | | | | | | | | | |
| | 1970 | 1980 | 1995 | 1996 | 1997 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 201 |
| Introduction of voluntary national surveillance systems for nosocomial | USA† | | Francett | 1 England 1 | Germany | 4 | | | | | | | | | | | | | | |
| infections Surveillance of MRSA first mandated | | - | | | - | Germany | England | - | USA‡‡ | | - | - | | - | | | | | | |
| Confidential reporting of HCAI indicators first mandated | | | | | | | | | | | USA### | Germany | | | | | | | | |
| Public reporting of HCAI indicators first mandated | | | | | | | England | | USA‡‡ | France | | | | | | | *Germany | | | |
| HCAI indicators first publically reported | | | | | | | | England | | | USATTTT; France | | | | | | | | | |
| National HCAI indicator target first set | | | | | | | | | | England | France | | | | **USA | | | | | |
| HCAI indicator first set for individual institutions | | | | | | | | | | England | | | | | | | | | | |
| Financial penalties first introduced | | | | | | | | *France | _ | | | | | *USA *England | | | _ | | | |
| | | | | | | | | | - | | | | | - England | | | | | | |
| Key: † National Nosocomial Infection †† Nosocomial Infection Natio ††† Inter-regional networks. ‡ Krankenhaus-Infektions-Sun ‡† Illinois and Pennsylvania. ‡†‡ Pennsylvania. | nalSurv | veillance | e Schem | | | | | | | | ie. | | | | | | | | | |
| Haustein T, Ga and public <i>Dis ,</i> . 2011 | rep | ortir | ng fo | or in | fect | | | | | | | | | | | | | | - | - |

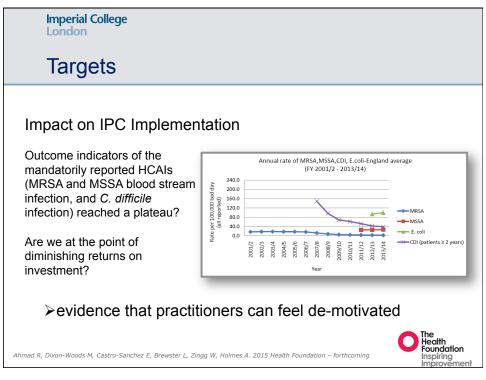
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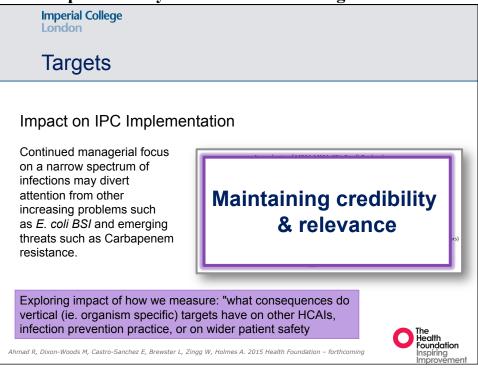


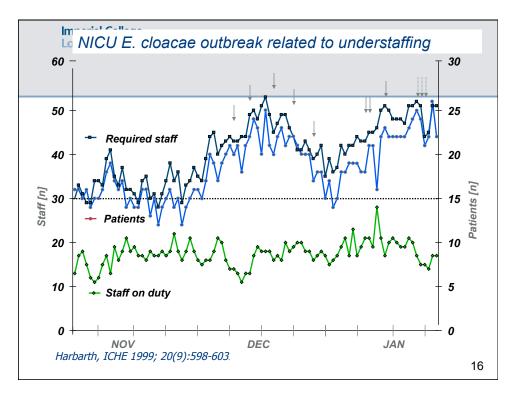




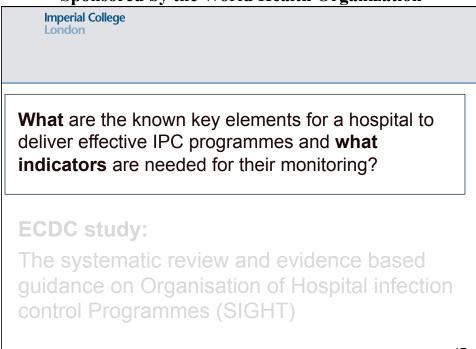
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| Constraints – inconsistency/sustainability? | |
| Sometimes there is no continuity so someone will say we need to [implement this IPG intervention] and then two days later someone else will say something different. I think frustrating for the staff because obviously they can't keep swapping and changing all th time. If you are going to be telling me to do something then I need to know that is what are going to be doing. (Ward manager, site 1) | that is e |
| 'I do think its priority level shifts according to what other pressures the trust is facing.' (IP nurse 7) | с |
| Ahmad R, Dixon-Woods M, Castro-Sanchez E, Brewster L, Zingg W, Holmes A. 2015 Health Foundation – forthcoming | 13 |







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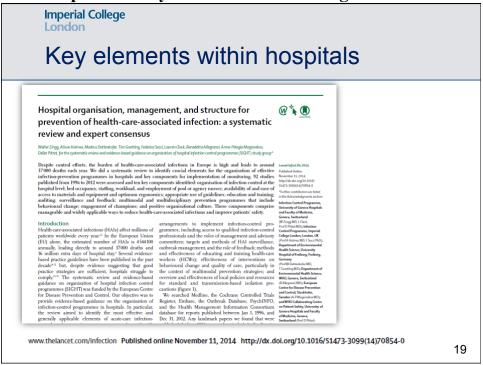
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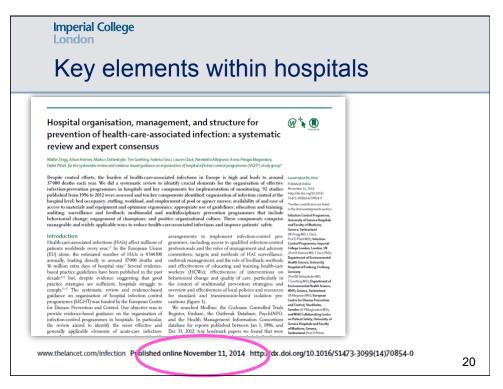
What are the known key elements for a hospital to deliver effective IPC programmes and what indicators are needed for their monitoring?

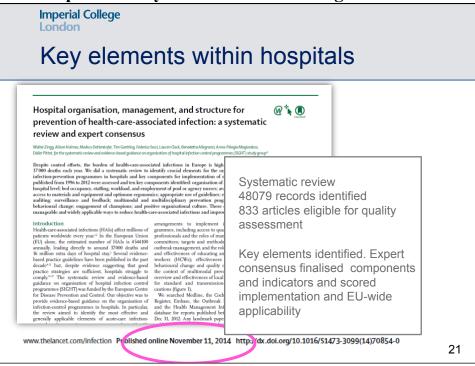
ECDC study:

The systematic review and evidence based guidance on Organisation of Hospital infection control Programmes (SIGHT)

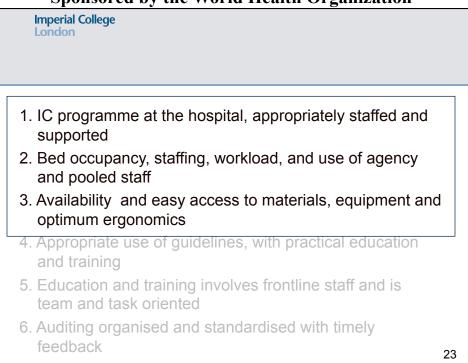
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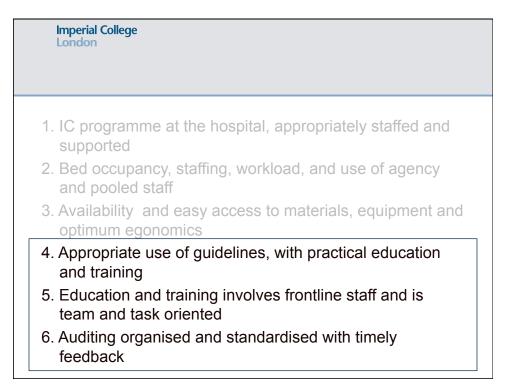


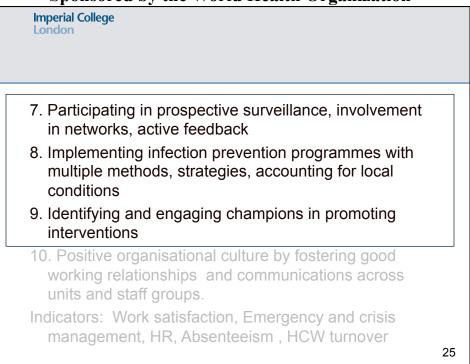


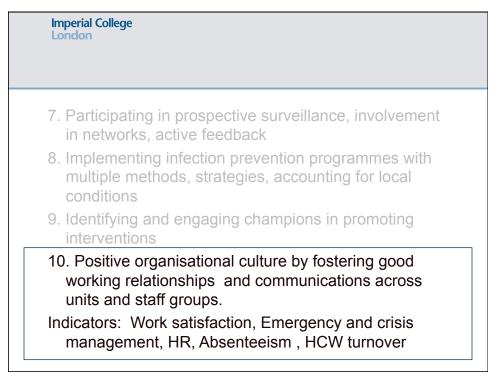


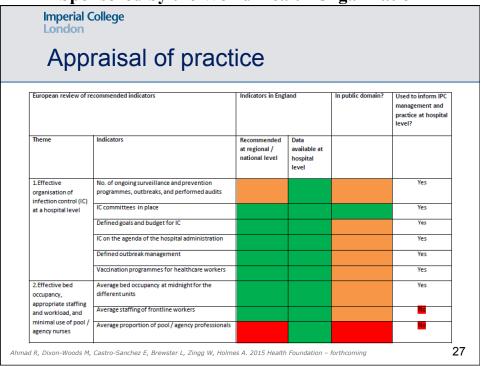
| | Key component | Indicators | Quality of evidence* | Ease of imple- mentation | EU-wide applicability | |
|----|---|--|-------------------------|--------------------------------|--------------------------|--|
| 1 | An effective infection-control programme in an acute- care hospital must include as a minimum standard at least one full-time specifically trained infection-control nurse per up to 250 beds, a dedicated physician trained in infection control, microbiological support, and data management support? | Continuous review of surveillance and prevention programmes, outbreaks, and audits; infection- control committee in place, inclusion of infection control on the hospital administration agenda, and defined goals (eg. HAI rates); and appropriate staffing and budget for infection control | 2 | 3 | 3 | |
| 2 | Ward occupancy must not exceed the capacity for which it is designed and staffed; staffing and workload of frontline HCWs must be adapted to acuity of care, and the number of pool or agency nurses and physicians used kept to a minimium ^{131223/37-8429012133} | Average bed occupancy at midnight, average numbers of frontline workers, and the average proportion of pool or agency professionals | 2 | 2 | 2 | |
| 3 | Sufficient availability of and easy access to materials and equipment, and optimisation of ergonomics ^{24,453,253,564,64,0200} | Availability of alcohol-based hand rub at the point of care and sinks stocked with soap and single-use towels | 2 | 2 | 2 | |
| 4 | Use of guidelines in combination with practical education and training ^{EXEMPLICENCENCENCENCENCENCENCENCENCENCENCENCENC} | Adaptation of guidelines to local situation, number of new staff trained with the local guidelines, teaching programmes are based on local guidelines | 2 | 3 | 3 | |
| 5 | Education and training involves frontline staff and is team and task oriented #2266265981001095-00111 | Education and training programmes should be audited and combined with knowledge and competency assessments | 3 | 2 | 3 | |
| 6 | Organising audits as a standardised (scored) and systematic review of practice with timely feedback ²³ *3346449 | Measurement of the number of audits (overall, and stratified by departments/units and topics) for specified time periods | 2 | 2 | 3 | |
| 7 | Participating in prospective surveillance and offering active feedback, preferably as part of a network ¹⁰⁶¹⁰⁴⁴⁴⁵³⁵¹⁶⁴⁶⁴⁶¹⁰⁰ | Participation in nationals and international surveillance initiatives, number and type of wards with a surveillance, regular review of the feedback strategy | 2 | 2 | 2 | |
| 8 | Implementing infection-control programmes following a multimodal strategy, including tools such as bundles and checklists developed by multidisciplinary teams, and taking into account local conditions ^{516,56,78,18,466,05,18,56,96,00,70,56,78,96,96,90,70,56} | Verification that programmes are multimodal; measurement of process indicators (eg, hand hygiene, care procedures); measurement of outcome indicators (eg, HAI rates, MDRO infections and transmission) | 2 | 3 | 3 | |
| 9 | Identifying and engaging champions in the promotion of intervention strategies $^{\pi_{0.919,294110}}$ | Interviews with frontline staff and infection-control professionals | 3 | 2 | 2 | |
| 10 | A positive organisational culture by fostering working relationships and communication across units and staff groups ^{22,31/8,57,85,60,109,104} | Questionnaires about work satisfaction, crisis management, and human resource assessments of absenteeism and HCW turnover | 3 | 2 | 3 | |

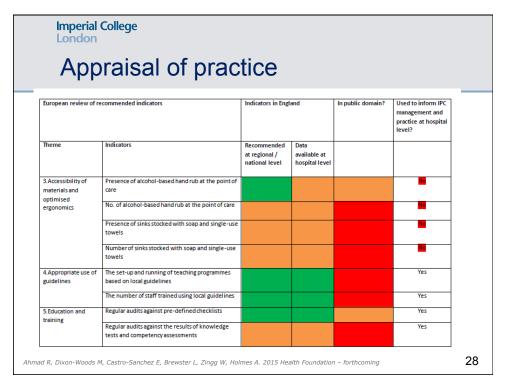


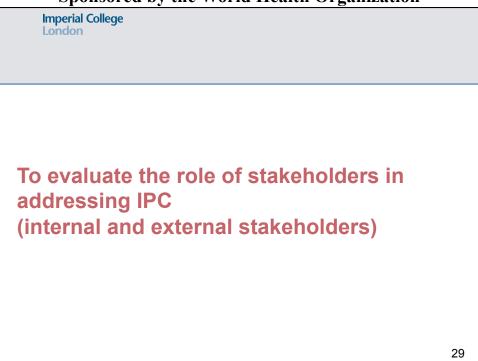


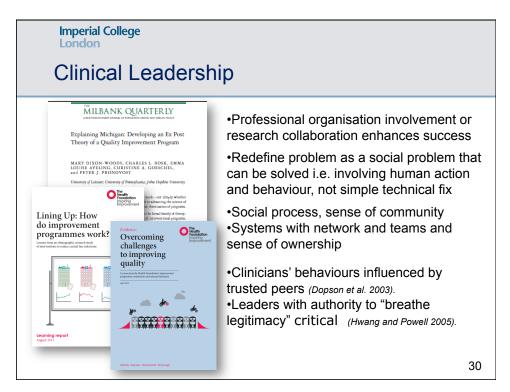


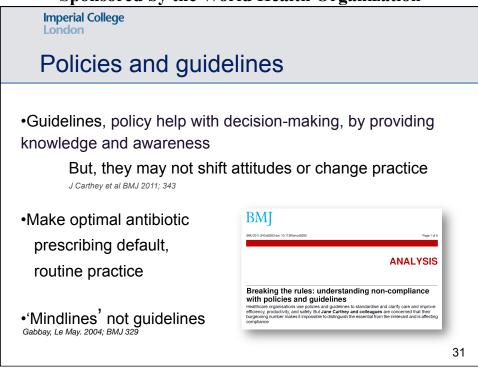


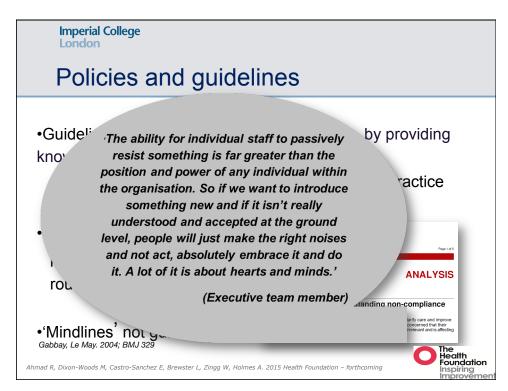




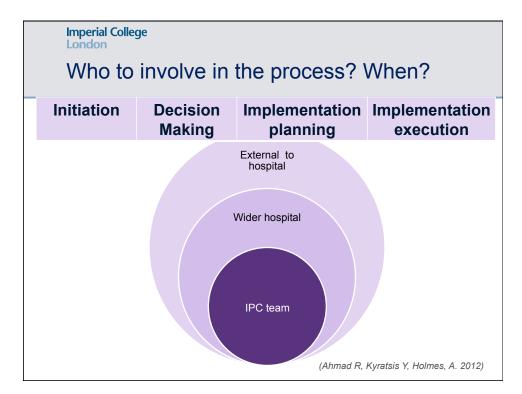


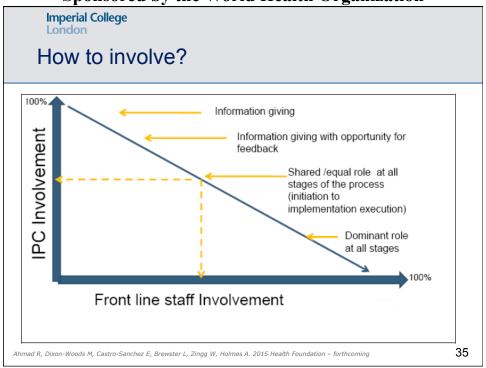


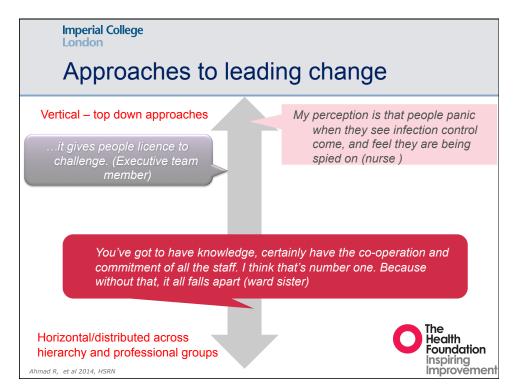




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| Evidence – paralyser or motivator? | |
| More effort expended in seeking evidence to resist change (Kyratsis Y, Ahmad R, Hatzaras K, Iwami M, Holmes A. 2014) | |
| Greater emphasis on 'principles' than 'how-to' knowledge (Kyratsis Y , Ahmad R , Holmes, A.2012) | |
| Be aware that different professional groups view evidence differently (Kyratsis Y, Ahmad R, Hatzaras K, Iwami M, Holmes A. 2014) | |
| → means that not everyone has bought into the evidence base of the guidelines. | |
| 33 | 5 |





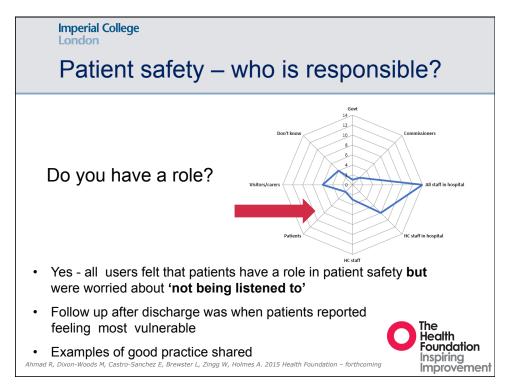


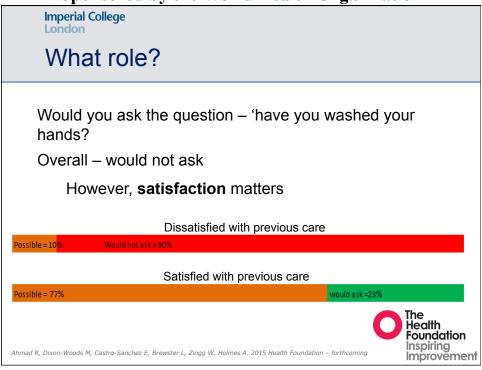


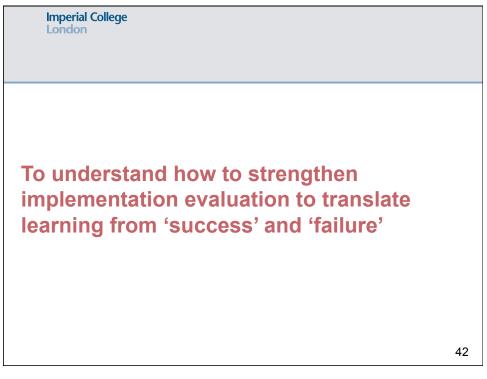


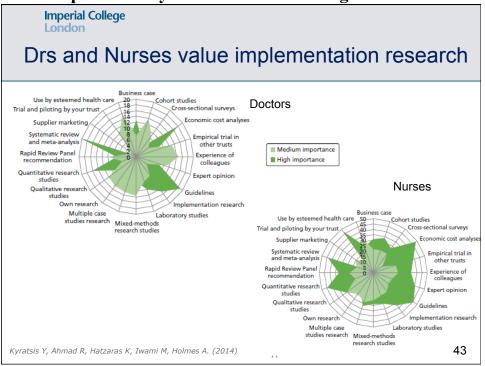
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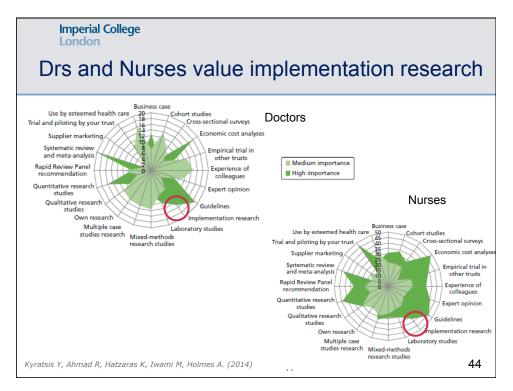


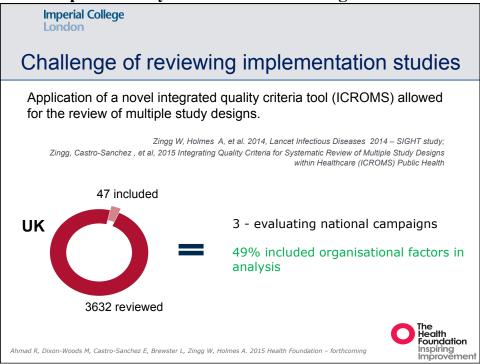






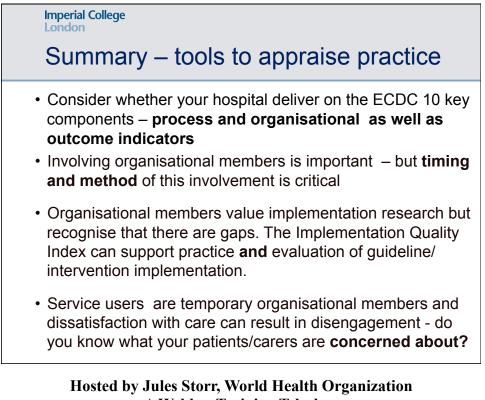






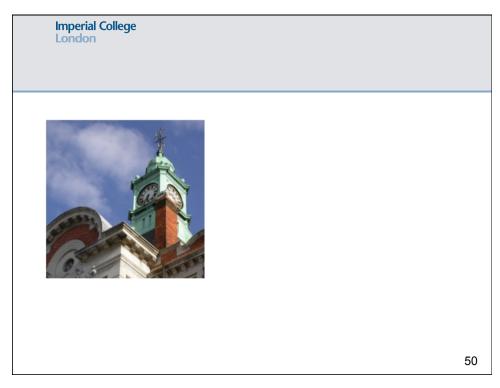
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| Implementation Quality Index | | | | | | | | | |
| 1. Identify which stakeholders the intervention is aimed at <i>(who?)</i> | Healthcare professionals (which ones)PatientsPublic | | | | | | | | |
| 2. Clearly define the intervention and components (what?) | eg. Technology , guideline, protocol | | | | | | | | |
| 3. Specify the organisational level of implementation <i>(where?)</i> | Professional group Department Ward Hospital | | | | | | | | |
| 4. Most interventions are based on an assumption of human behaviour – be explicit <i>(how?)</i> | eg. feedback-based models - internal and external factors interact to shape how we behave. (IC Link nurses wearing different uniforms to ward nurses) | | | | | | | | |
| Ahmad R, Dixon-Woods M, Castro-Sanchez E, Brewster L, Zingg W, Holmes | A. 2015 Health Foundation - forthcoming | | | | | | | | |

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|---|--|--|--|--|--|--|--|
| Implementation Quality Index | | | | | | | |
| Specify the unit of analysis? – quantitative and qualitative (where?) | Professional group, department, ward, hospital | | | | | | |
| 6. Employ a theoretical framework for evaluation ie. theory of change. <i>(how?)</i> | Should be consistent with underlying assumptions of behaviours on which the intervention is based; but also look at different levels (individual, organisational) e.g. diffusion theory, double loop learning (Greenhalgh et al, 2004; Argyris & Schon, 1996) | | | | | | |
| 7. Systematically consider barriers/ facilitators to implementation <i>(why?)</i> | Structural/cultural/individual/ organisational/ macro | | | | | | |
| 8. Quantify the duration of exposure (ie. adequate dose?) | Length of time (and which components if stepwise). | | | | | | |
| Ahmad R, Dixon-Woods M, Castro-Sanchez E, Brewster L, Zingg W, Holmes | A. 2015 Health Foundation - forthcoming | | | | | | |



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| Future Research must | |
| | |
| Provide a robust evidence base of the <i>why</i> , <i>how</i> and <i>why not</i> ? | |
| Understand, the 'soft periphery' of an intervention - the organisational structure, systems and people to fully implement a guideline/intervention. (Denis JL, Hébert Y, Langley A, et al. 2002) | |
| | 49 |



The next WHO teleclass

February 11, 2015

WHO GUIDELINE AND SYSTEMATIC REVIEW ON HAND HYGIENE AND THE USE OF CHLORINE IN THE CONTEXT OF EBOLA

Dr. Joost Hopman, Radboud University Medical Center Nijmegen, The Netherlands

Objectives

- Reflect on the updated WHO guideline on hand hygiene in the context of Ebola Virus Disease
- Discuss the evidence about microbiological efficacy of chlorine in health care settings, concentrations and minimum time required for achieving the desired antimicrobial effect
- Discuss the evidence about tolerability and possibly side effects of chlorine in health care settings

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