# AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE



# On the Radar

Issue 75 26 March 2012

On the Radar is a summary of some of the recent publications in the areas of safety and quality in health care. Inclusion in this document is not an endorsement or recommendation of any publication or provider.

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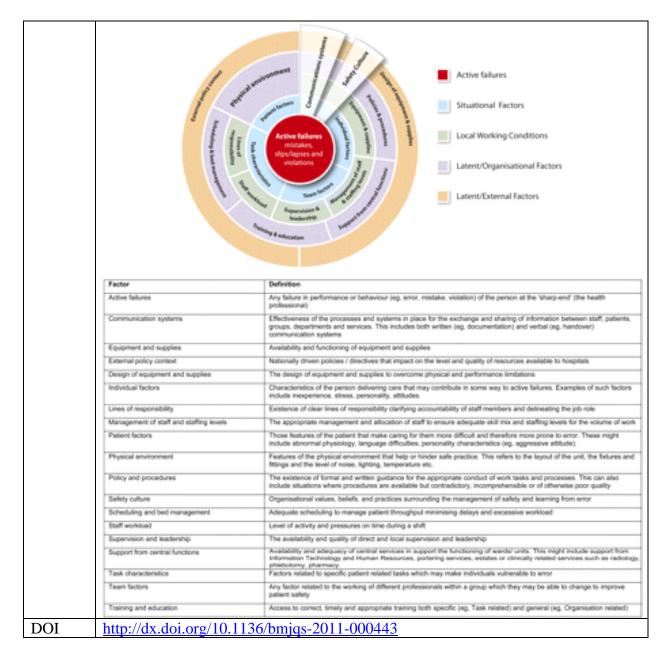
### This week's content

#### Journal articles

Development of an evidence-based framework of factors contributing to patient safety incidents in hospital settings: a systematic review

Lawton R, McEachan RRC, Giles SJ, Sirriyeh R, Watt IS, Wright j BMJ Quality & Safety 2012 [epub].

Notes	of factors that sought to develop a 'contributory factors framework' in the hope that such a framework could aid in identifying and preventing factors that contribute to harm.  From 1,502 potential articles, 95 were included and 1,676 contributory factors extracted. These factors were collated into 20 domains.  The authors found that the five contributory factors identified most frequently were active failures (slips, lapses, mistakes, deviations from policy) (18.2%), individual factors (11%), communication (7.9%), equipment and supplies (6.6%) and management of staff and staffing levels (5.8%).  The authors developed a diagrammatic summary 'of the findings of the review which represents the speculated hierarchical nature of the identified domains. The diagram entitled "the Yorkshire contributory factors framework" depicts the



Development and evaluation of a 3-day patient safety curriculum to advance knowledge, self-efficacy and system thinking among medical students

Aboumatar HJ, Thompson D, Wu A, Dawson P, Colbert J, Marsteller J, et al BMJ Quality & Safety 2012 [epub].

Notes	Paper describing the development of a 3-day training on patient safety for medical students. The course, developed at Johns Hopkins School of Medicine (in Baltimore) was taken by 120 second-year students who were assessed before and after on their safety knowledge, self-efficacy in safety skills, system-based thinking and student satisfaction.  From their work the authors conclude that the 'patient safety intersession resulted in increased knowledge, system-based thinking, and self-efficacy scores among students. Similar intersessions can be implemented at medical, nursing, pharmacy and other allied health schools separately or jointly as part of required school curricula'
DOI	http://dx.doi.org/10.1136/bmjqs-2011-000463

Exploring the role of salient distracting clinical features in the emergence of diagnostic errors and the mechanisms through which reflection counteracts mistakes

Mamede S, Splinter TAW, van Gog T, Rikers RMJP, Schmidt HG

BMJ Quality & Safety 2012;21(4):295-300.

Notes	Paper discussing how reflection can aid in preventing clinicians from being overly
	influenced by salient clinical features that may misdirect diagnostic reasoning. The
	authors advocate for deliberate reflection as a tool to prevent diagnostic errors.
	They argue that 'reflection helps by enabling physicians to overcome the influence
	of distracting features'. However, they also caution that reflection is of value where
	it is supported by knowledge (and experience?).
DOI	http://dx.doi.org/10.1136/bmjqs-2011-000518

Using FDA reports to inform a classification for health information technology safety problems Magrabi F, Ong M-S, Runciman W, Coiera E

Journal of the American Medical Informatics Association 2012;19(1):45-53.

The Triangle Model for evaluating the effect of health information technology on healthcare quality and safety

Ancker JS, Kern LM, Abramson E, Kaushal R

Journal of the American Medical Informatics Association 2012;19(1):61-65.

	Two pieces from the a recent issue of the <i>Journal of the American Medical</i>
	Informatics Association (JAMIA) looking at health information technology.
	Magrabi et al. describe how a method for classifying health information technology
	safety issues was refined by using reports in the US Food and Drug Administration
	Manufacturer and User Facility Device Experience (MAUDE) database. From
	nearly 900,000 records 678 reports of 436 events revealed 712 problems. The
	existing classification of issues had 32 categories and this work led to the addition
	of 4 new categories: software functionality, system configuration, interface with
Notes	devices, and network configuration.
	Ancker et al. propose a model for assessing its impact on healthcare quality and
	safety. The 'Triangle Model' apparently 'identifies structure-level predictors,
	including characteristics of:
	(1) the technology itself;
	(2) the provider using the technology;
	(3) the organizational setting; and
	(4) the patient population.
	In addition, the model outlines process predictors, including:
	(1) usage of the technology;
	(2) organizational support for and customization of the technology; and
	(3) organizational policies and procedures about quality and safety.
	Magrabi et al: http://dx.doi.org/10.1136/amiajnl-2011-000369
DOI	Ancker et al: http://dx.doi.org/10.1136/amiajnl-2011-000385
	Allekei et al. http://dx.doi.org/10.1130/allifajiii-2011-000363

# BMJ Quality and Safety online first articles

BMJ Quality and Safety has published a number of 'online first' articles, including:
• Do some trusts deliver a consistently better experience for patients? An
analysis of patient experience across acute care surveys in English NHS
trusts (Veena S Raleigh, Francesca Frosini, Steve Sizmur, Chris Graham)
Editorial: The science of interruption (Enrico Coiera)
http://qualitysafety.bmj.com/onlinefirst.dtl

<u>aprii 2012, v</u>	701 21, Issue 4
Notes	A new issue of <i>BMJ Quality and Safety</i> has been published. Many of the papers in this issue have been referred to in previous editions of <i>On the Radar</i> (when they were released online). Articles in this issue of <i>BMJ Quality and Safety</i> include:  • Medical error, incident investigation and the second victim: doing better but feeling worse? (Albert W Wu and Rachel C Steckelberg)  • Factors associated with disclosure of medical errors by housestaff (Andrea
	<ul> <li>C Kronman, Michael Paasche-Orlow, and Jay D Orlander)</li> <li>Medical errors reported by French general practitioners in training: results of a survey and individual interviews (Emily Venus, Eric Galam, Jean-Pierre Aubert, and Michel Nougairede)</li> <li>Learning from near misses: from quick fixes to closing off the Swiss-cheese holes (Lianne Jeffs, Whitney Berta, Lorelei Lingard, and G Ross Baker)</li> <li>Attitudes towards infection prevention and control: an interview study with nursing students and nurse mentors (Deborah Jane Ward)</li> <li>Assessment of adverse events in medical care: lack of consistency between experienced teams using the global trigger tool (Kristina Schildmeijer, Lena Nilsson, Kristofer Årestedt, and Joep Perk)</li> </ul>
	<ul> <li>Using quality improvement to accelerate highly active antiretroviral treatment coverage in South Africa (Patty D Webster, Maria Sibanyoni, Dinah Malekutu, Kedar S Mate, W D F Venter, P M Barker, and W Moleko</li> <li>Association of National Hospital Quality Measure adherence with long-term mortality and readmissions (David M Shahian, Gregg S Meyer, E Mort, S Atamian, Xiu Liu, A S Karson, L D Ramunno, and H Zheng)</li> <li>Benefits and risks of structuring and/or coding the presenting patient history in the electronic health record: systematic review (Bernard Fernando, Dipak Kalra, Zoe Morrison, Emma Byrne, and Aziz Sheikh)</li> <li>Time to accelerate integration of human factors and ergonomics in patient safety (Ayse P Gurses, A Ant Ozok, and Peter J Pronovost)</li> <li>Using health status to measure NHS performance: another step into the dark for the health reform in England (J M Valderas, R Fitzpatrick, and M Roland)</li> </ul>
	<ul> <li>Using health status to measure NHS performance: casting light in dark places (David Parkin and Nancy J Devlin)</li> </ul>
URL	http://qualitysafety.bmj.com/content/vol21/issue4/

#### **Online resources**

[US] American Society for Healthcare Risk Management ASHRM Patient Safety Portal.

http://www.ashrm.org/ashrm/education/programs/patient\_safety/index.shtml

A site with educational resources for risk managers including articles, quizzes, and webinars covering a variety of patient safety topics.

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