AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE



On the Radar

Issue 76 2 April 2012

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This week's content

Journal articles

Medical emergency team calls in the radiology department: patient characteristics and outcomes Ott LK, Pinsky MR, Hoffman LA, Clarke SP, Clark S, Ren D, et al.

BMI Quality & Safety 2012 [epub]

BMJ Quality & Safety 2012 [epub].	
	The use and efficacy of medical emergency teams (MET) and other recognition and
	response systems for clinical deterioration is another area of much activity. The
	BMJ Quality and Safety has published a paper and related editorial on MET calls
	within a medical imaging department. The editorial by Staples and Redelmeier
	starts by noting that sending patients for imaging is 'tantamount to discharging
	them from hospital for hours'. They go on to discuss the paper by Ott et al. and
	how it 'highlights how medical emergencies in medical imaging departments are
Notes	neither rare nor benign The researchers examined life-threatening changes in
	patient status occurring in the medical imaging department of one large American
	hospital over a 2-year period. The overall frequency averaged about one event per
	week. Forty per cent of patients originated from critical care wards and about half
	of the events occurred on the patient's first day of admission.'
	There are a range of possible interpretations or explanations. It is likely that various
	factors are involved in any given case. However, it is suggested that patients could
	– and should – be better monitored will they undergo diagnostic testing.
DOI	Ott et al.: http://dx.doi.org/10.1136/bmjqs-2011-000423
DOI	Related editorial: http://dx.doi.org/10.1136/bmjqs-2012-000817

For information on the Commission's work on recognising and responding to clinical deterioration, see http://www.safetyandquality.gov.au/internet/safety/publishing.nsf/Content/prog-patientsrisk-lp

The ins and outs of change of shift handoffs between nurses: a communication challenge Carroll JS, Williams M, Gallivan TM BMJ Quality & Safety 2012 [epub].

1115 Quality	& Salety 2012 [epub].
	Another area in which the BMJ Quality and Safety has published a paper and a
	related editorial is that of handover (or handoff). Carroll et al. conducted a multi-
	method study of change of shift handovers between nurses, including interviews,
	survey, audio taping and direct observation of handovers, post-handover
	questionnaires, and archival coding of clinical records. They found considerable
	variability across units, nurses and roles. Apparently, 'incoming and outgoing
	nurses had different expectations for a good handoff: incoming nurses wanted a
	conversation with questions and eye contact, whereas outgoing nurses wanted to
	tell their story without interruptions'. They consider that the results 'suggest that
	variability across roles as information provider versus receiver and experience level
	(as well as across individual and organisational contexts) are reasons why
	improvement efforts directed at standardising and improving handoffs have been
	challenging in nursing and in other healthcare professions as well.'
Notes	Wears' editorial adds a further layer of nuance in observing that handover is not
	just data exchange. As he notes, 'data does not equal information, much less
	understandingaccurate data transfer alone cannot ensure adequate
	understanding. He also notes that 'the idea of 'completeness'is a will-of-the
	wisp. It is impossible to articulate, much less transfer, all that has been learnt about
	even a single patient over the past shift. The value of a model is precisely that it is
	not complete, because completeness is overwhelming.' Further, there is the
	problem of a belief that 'more items are always better than fewer' and the problem
	of solutions involving a list of standard data elements that should always be
	covered as this can be 'a kind of 'scope creep' where things can be progressively
	added, but nothing is ever taken away'. He concludes with the remark:
	'Let us not do to the handoff what the electronic medical record (EMR) has done to
	the chart—sacrifice salience for 'completeness' and lose the important in a sea of
	the marginally relevant and questionably trustworthy.'
DOI	Carroll et al: http://dx.doi.org/10.1136/bmjqs-2011-000614 Which is the first of the firs
	Wear's editorial: http://dx.doi.org/10.1136/bmjqs-2012-000916

For information on the Commission's work on clinical handover, see http://www.safetyandquality.gov.au/internet/safety/publishing.nsf/Content/PriorityProgram-05

Refocusing quality measurement to best support quality improvement: local ownership of quality measurement by clinicians

Mountford J, Shojania KG

BMJ Quality & Safety 2012 [epub].

Notes	Many suggested quality measures are contested and extensively debated. In this piece Mountford and Shojania provide some background/history before focussing on the centrality of the clinician to developing, implementing, using and responding to quality measures. It would seem plausible that some may view such a focus as privileging the clinician perspective above all others and that a more shared approach may be preferable. However, the clinicians have a key role in ensuring care is safe and of high quality and one aspect is that of using and understanding information about their practise to reflect on the care being provided.
DOI	http://dx.doi.org/10.1136/bmjqs-2012-000859

For information on the Commission's work on indicators and information strategy, see http://www.safetyandquality.gov.au/internet/safety/publishing.nsf/Content/PriorityProgram-08

Eliminating Waste in US Health Care

Berwick DM, Hackbarth AD

JAMA: The Journal of the American Medical Association 2012 [epub].

Nature and timing of incidents intercepted by the SURPASS checklist in surgical patients de Vries EN, Prins HA, Bennink MC, Neijenhuis P, van Stijn I, van Helden SH, et al BMJ Quality & Safety 2012 [epub].

	Perhaps one of the most popular topics in patient safety in recent years has been
	that of checklists. The BMJ Quality and Safety has added another paper and it was a
	topic at the recent American College of Cardiology's (ACC) annual scientific
	session. A presentation at the ACC claimed that a one-page checklist of 27
	questions used before discharge saw 30-day readmissions decrease from 20 per
	cent to 2 per cent. The checklist focuses on medications and dosage modification,
	counselling and monitoring intervention, and follow-up instructions.
	The paper in the BMJ Quality and Safety was not so much a discipline or area-
	specific checklist as a patient-specific checklist, the 'Surgical Patient Safety System
	(SURPASS) checklist, a patient-specific multidisciplinary checklist that covers the
	entire surgical patient pathway.'
Notes	This checklist was implemented in two academic hospitals and four teaching
11000	hospitals in the Netherlands. In each hospital, the first 1000 completed checklists
	were entered into an online central database. From the six participating hospitals,
	6313 checklists were collected. One or more incidents were intercepted in 2562
	checklists (40.6%). In total, 6312 incidents were intercepted. After correction for
	the number of items and the extent of adherence in each part of the checklist, the
	number of intercepted incidents was highest in the preoperative and postoperative
	stages.
	The authors conclude that this SURPASS checklist 'intercepts many potentially
	harmful incidents across all stages of the surgical patient pathway'. The degree to
	which these incidents may have been intercepted by a single checklist in the
	operating room only, compared with a checklist for the entire surgical pathway, in
	not within scope.
URL /	ACC press release: http://www.cardiosource.org/News-Media/Media-Center/News-
DOI	Releases/2012/03/HF-Checklist.aspx
	de Vries et al. http://dx.doi.org/10.1136/bmjqs-2011-000347

Medicare's Readmissions-Reduction Program — A Positive Alternative Berenson RA, Paulus RA, Kalman NS New England Journal of Medicine 2012 [epub]

Thirty-Day Readmissions — *Truth and Consequences* Joynt KE, Jha AK

New England Journal of Medicine 2012 [epub]

Notes

DOI

ınc	Journal of Medicine 2012 [epub]
	One contested measure is readmission. A pair of paper's from the NEJM discuss
	30-day readmission from contrasting perspectives, but both arguing the that US
	Medicare's approach of imposing financial penalties for 'excessive' readmission is
	not the best.
	Berenson et al. note that 'readmissions are receiving increasing attention as a
	largely correctable source of poor quality of care and excessive spending' and
	cite a 2009 study stating that nearly 20% of Medicare beneficiaries are
	rehospitalised within 30 days after discharge, at an annual cost of \$17 billion. They
	list some causes of avoidable readmissions as 'hospital-acquired infections and
	other complications; premature discharge; failure to coordinate and reconcile
	medications; inadequate communication among hospital personnel, patients,
	caregivers, and community-based clinicians; and poor planning for care
	transitions'. The approach they suggest as an alternative to penalising 'excessive'
	readmissions is to use the Geisinger Health System's ProvenCare program method
	that 'created a single-episode price for all services associated with a surgical
	procedureand all related services for 90 days, including any rehospitalizations —
	in essence, a warranty'.
	Joynt and Jha's critique is far more fundamental as they argue that 30-day
	readmission is not the most important thing that could be measured and payment be
	adjusted upon. Their concluding paragraph notes:
	'The metrics that policymakers choose to use in rewarding and penalizing hospitals
	have a profound effect not just on what hospitals do but on what they choose
	not to do . The financial penalties for high readmission rates dwarf the penalties for
	poorer care, including those for high mortality rates and unsafe care. The current
	policy sends a clear signal about where hospitals should focus their efforts. We are
	asking U.S. hospitals to spend their limited resources on ensuring that patients are
	not readmitted as many as 4 weeks after discharge — events that are largely outside
	the hospitals' control. But the most important consequence of this policy is the
	improvements in quality and safety that hospitals will forgo, and those will be far
	more difficult to measure.'

Associations between rationing of nursing care and inpatient mortality in Swiss hospitals Schubert M, Clarke SP, Aiken LH, de Geest S

Berenson et al.: http://dx.doi,org/10.1056/NEJMp1201268

Joynt and Jha: http://dx.doi.org/10.1056/NEJMp1201598

International Journal for Quality in Health Care 2012 [epub].

		Yet another contentious issue is that of staffing, staffing levels and their
		relationship to safety and quality of care. This Swiss study examined the
		relationship between inpatient mortality and implicit rationing of nursing care, the
N	Notes	quality of nurse work environments and the patient-to-nurse staffing ratio in Swiss
		acute care hospitals. The study covered 8 Swiss acute care hospitals involved in the
		RICH Nursing Study (the Rationing of Nursing Care in Switzerland Study) and 71
		Swiss acute care hospitals offering similar services and maintaining comparable

	patient volumes. The source data came from 165 862 discharge abstracts from
	patients treated in the 8 RICH Nursing Study hospitals and 760 608 discharge
	abstracts from patients treated in the other 71 acute care hospitals.
	The authors state that patients treated in the hospital with the highest rationing
	level were 51% more likely to die than those in peer institutions (adjusted OR:
	1.51, 95% CI: 1.34–1.70). Patients treated in the study hospitals with higher nurse
	work environment quality ratings had a significantly lower likelihood of death
	(adjusted OR: 0.80, 95% CI: 0.67–0.97) and those treated in the hospital with the
	highest measured patient-to-nurse ratio (10:1) had a 37% higher risk of death
	(adjusted OR: 1.37, 95% CI: 1.24–1.52) than those in comparison institutions.
DOI	http://dx.doi.org/10.1093/intqhc/mzs009

BMJ Quality and Safety online first articles

THE EUGHT	y contains green differ artificial
	BMJ Quality and Safety has published a number of 'online first' articles, including:
	 Self-reported violations during medication administration in two paediatric
	hospitals (Samuel J Alper, Richard J Holden, Matthew C Scanlon, Neal
	Patel, Rainu Kaushal, Kathleen Skibinski, R L Brown, Ben-Tzion Karsh)
	Building information for systematic improvement of the prevention of
Notes	hospital-acquired pressure ulcers with statistical process control charts and
Notes	regression (W V Padula, M K Mishra, C D Weaver, T Yilmaz, M Splaine)
	What gets published: the characteristics of quality improvement research
	articles from low- and middle-income countries (Zoë K Sifrim, Pierre M
	Barker, Kedar S Mate)
	• Failure mode and effects analysis: too little for too much? (Bryony Dean
	Franklin, Nada Atef Shebl, Nick Barber)
URL	http://qualitysafety.bmj.com/onlinefirst.dtl

International Journal for Quality in Health Care online first articles

	The <i>International Journal for Quality in Health Care</i> has published a number of 'online first' articles, including:
Notes	• Finding the right indicators for assessing quality midwifery care (M de
	Bruin-Kooistra, M P Amelink-Verburg, S E Buitendijk, and G P Westert)
	http://intqhc.oxfordjournals.org/cgi/content/abstract/mzs006v1?papetoc

Online resources

[UK] NHS NICE Guidance on smartphones

http://www.nice.org.uk/newsroom/news/GuidanceAtAGlanceOnYourSmartphone.jsp

The UK National Institute for Health and Clinical Excellence (NICE) has created a smartphone app for their recommendations and advice. The free app allows users to browse over 760 pieces of NICE guidance. The Guidance App is the first in a series of apps will eventually cover medicine and prescribing information as well as other NICE products.

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