AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTH CARE



On the Radar

Issue 398 3 December 2018

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The Implant Files: Deadly devices

https://medicaldevices.icij.org/

This past week has seen the release of the work of the International Consortium of Investigative Journalists (ICIJ) and its network of journalists and partner organisations looking into the issue of medical devices, including the regulation and safety of the many devices. Devices range from minor objects such as pins and screws through to life-saving (and high risk when they fail) devices such as pacemakers, defibrillators, heart valves, joint prostheses and implantable infusion pumps. The project site is at https://www.icij.org/investigations/implant-files/ with the database available at https://medicaldevices.icij.org/

These issues have now been widely reported. A selection of the coverage includes:

ICIJ

Medical Devices Harm Patients Worldwide As Governments Fail On Safety https://www.icij.org/investigations/implant-files/medical-devices-harm-patients-worldwide-asgovernments-fail-on-safety/

Patients Fight For Answers As Broken Implants Cause Unseen Agony Woodman S

https://www.icij.org/investigations/implant-files/patients-fight-for-answers-as-broken-implants-causeunseen-agony/ **BMJ** Medical device industry: international investigation exposes lax regulation Lenzer J BMJ. 2018;363:k4997. https://doi.org/10.1136/bmj.k4997

Surgeons call for compulsory registers of all new medical devices Coombes R BMJ. 2018;363:k5010. https://doi.org/10.1136/bmj.k5010

FDA recommends "modernizing" review of devices in wake of global investigation Lenzer J BMJ. 2018;363:k5026. <u>https://doi.org/10.1136/bmj.k5026</u>

How lobbying blocked European safety checks for dangerous medical implants Bowers S, Cohen D BMJ. 2018;363(k4999). https://doi.org/10.1136/bmj.k4999

What happens when the world's biggest medical device maker becomes a "health services provider"? Lenzer J BMJ. 2018;363:k4917. https://doi.org/10.1136/bmj.k4917

ABC

The Implant Files: Deadly devices https://www.abc.net.au/news/2018-11-26/implant-files-shine-light-on-medical-deviceindustry/10521480

Radio National, Health Report, *How can we improve medical device safety in Australia?* <u>https://www.abc.net.au/radionational/programs/healthreport/mandatory-reporting-key-to-improving-medical-device-safety/10556022</u>

Radio National, Background Briefing *The Implant Files (Part 1)* <u>https://www.abc.net.au/radionational/programs/backgroundbriefing/global-investigation-revealsextent-of-harm-by-medical-devices/10552726</u> *The Implant Files (Part 2)* <u>https://www.abc.net.au/radionational/programs/backgroundbriefing/medical-device-manufacturersexploit-regulatory-loopholes/10567418</u>

ABC TV, 730 Report, Some medical implants putting patients at risk https://www.abc.net.au/news/2018-11-26/some-medical-implants-putting-patients-at-risk/10556478

The Implant Files reveal how breast implants linked to rare cancer set off alarm bells <u>https://www.abc.net.au/news/2018-11-27/implant-files-breast-implants-probe-exposes-tga-flaws/10496080</u> Fay Sherret died after being infected with deadly bacteria and global authorities knew the risks https://www.abc.net.au/news/2018-11-27/fay-sherret-died-after-being-infected-with-deadlybacteria/10558770

The Guardian

Revealed: faulty medical implants harm patients around world https://www.theguardian.com/society/2018/nov/25/revealed-faulty-medical-implants-harm-patientsaround-world

The Guardian view on medical implants: patients need protecting (editorial) https://www.theguardian.com/commentisfree/2018/nov/26/the-guardian-view-on-medical-implantspatients-need-protecting

Reports

Reducing opioid-related harm: a hospital pharmacy landscape paper The Society of Hospital Pharmacists of Australia Collingwood: SHPA; 2018. p. 52.

joining "oou	. 5111 <i>A</i> , 2016. p. 52.
URL	https://www.shpa.org.au/news/landmark-report-reveals-urgent-collaboration-
	needed-stem-looming-opioid-epidemic
Notes	The Society of Hospital Pharmacists of Australia has produced this report examining current hospital pharmacy practices in Australia around opioids. The report looks at the link between the prescribing and supply of opioids to patients after surgery in public and private hospitals nationally and the heightened risk of long-term misuse and dependence. This analysis suggests an urgent need for a coordinated, multidisciplinary response. The report suggests that the inconsistencies in provision of pharmacy services that could reduce risk of opioid misuse, extremely high use of sustained release opioids and poor handover of discharge information for use by General Practitioners. The data used in the analysis has been collected from 135 metropolitan, regional and rural Australian facilities. The report includes 33 recommendations to scale up proven local strategies to improve patient care nationwide, as relevant to pharmacy, medical and nursing, consumer and government stakeholder groups.
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For information about the Commission's work on medication safety, see https://www.safetyandquality.gov.au/our-work/medication-safety/

Stemming the Superbug Tide: Just A Few Dollars More

Organisation for Economic Cooperation and Development

Paris: OECD Publishing; 2018. p. 224.

	, 1 ublishing, 2010. p. 224.
URL	http://www.oecd.org/health/stemming-the-superbug-tide-9789264307599-en.htm
DOI	https://doi.org/10.1787/9789264307599-en
Notes	This report from the OECD suggests that 'superbug' infections could cost the lives of around 2.4 million people in Europe, North America and Australia over the next 30 years unless more is done to stem antibiotic resistance. However, it also contends, three out of four deaths could be averted by spending just USD 2 per person a year on measures as simple as handwashing and more prudent prescription of antibiotics. The argument put forward is that short-term investment to stem the superbug tide would save lives and money in the long run. The authors call for a five-pronged assault on antimicrobial resistance by promoting better hygiene , ending the over- prescription of antibiotics, rapid testing for patients to determine whether they
	have viral or bacterial infections, delays in prescribing antibiotics and mass media
	campaigns.

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countr http://	with the report, a Policy Brief, Executive Summary, Key findings for selected ies, including Australia, Press release, and an interactive maps are available at <u>www.oecd.org/health/stemming-the-superbug-tide-9789264307599-en.htm</u> ey findings sheet for Australia notes that:
•	It is estimated that an average of 290 persons die each year in Australia due to infections from eight resistant bacteria. By 2050, an estimated total of 10 430 persons will die due to AMR (antimicrobial resistance). By 2050, health care costs in Australia could reach \$370 million.
•	Australia has a national AMR plan that reflects Global Action Plan objectives, with an operational plan and monitoring arrangements, in line with what most OECD countries are doing in this area.
•	An antimicrobial stewardship programme is implemented in most health care facilities nationwide, in line with what most OECD countries are doing in this area.
•	Australia has nationwide awareness-raising campaigns targeting the majority of stakeholders with no monitoring mechanisms, lagging behind what most OECD countries are doing in this area.
•	AMR is incorporated in curricula and continuing medical education for all relevant health cadres in Australia, in line with what most OECD countries are doing in this area.
•	A broad policy package combining stewardship programmes, enhanced environmental hygiene, mass media campaigns, and rapid diagnostic testing could avert 180 deaths and save 15 million dollars per year in Australia.

For information about the Commission's work on antimicrobial use and resistance in Australia, see https://www.safetyandquality.gov.au/antimicrobial-use-and-resistance-in-australia/

For information about the Commission's work on healthcare associated infection, see https://www.safetyandquality.gov.au/our-work/healthcare-associated-infection/

Journal articles

Overdiagnosis of Penicillin Allergy Leads to Costly, Inappropriate Treatment

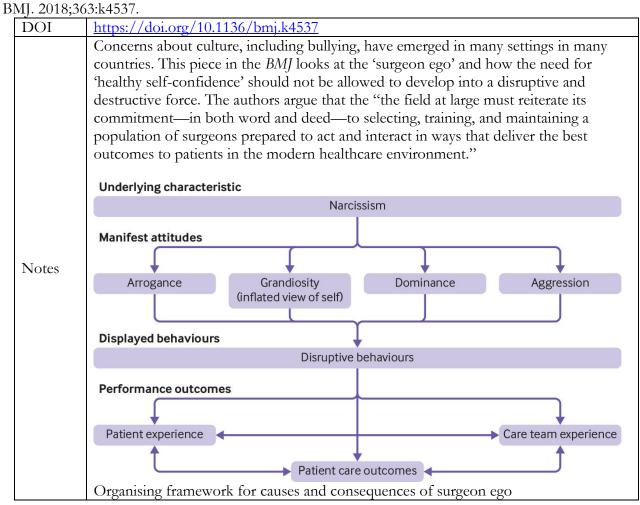
Rubin R Journal of the American Medical Association. 2018;320(18):1846-8. DOI https://doi.org/10.1001/jama.2018.14358 This commentary looks at an issue that has been attracting some interest in this era when antimicrobial resistance and scarcity of antimicrobial development have generated some concern about a reduced repertoire of antimicrobials. Penicillin allergy is apparently quite widespread; but the question is to how much of this is known, presumed and even challenged. The author notes that "penicillin is ... the most commonly implicated medication when patients report a drug allergy. Approximately Notes 10% of US residents have been labeled as allergic to penicillin, often since childhood." But the issue is that "a growing body of evidence suggests that as few as 10% of people who report they're allergic to the antibiotic really are." But once someone is labelled as such, "it's rarely questioned, and the label sticks, increasing the patient's risk of receiving suboptimal antibiotic therapy." The piece looks at how these beliefs can be safely challenged and more appropriate antimicrobials used.

Factors influencing early and late readmissions in Australian hospitalised patients and investigating role of admission nutrition status as a predictor of hospital readmissions: a cohort study

BMJ Open. 2018;8(6).	Sharma Y, Miller M, Kaambwa B, Shahi R, Hakendorf P, Horwood C, et al	
	BMJ Open. 2018;8(6).	

DOI	https://doi.org/10.1136/bmjopen-2018-022246
	This Australian study sought to identify possible predictors of early and late
	readmissions to hospital, particularly whether nutrition status during the initial (or
	index) hospitalisation can be used as a "modifiable predictor of unplanned hospital
	readmissions". Using data from two tertiary-level hospitals on all medical admissions if
	adult over the course of 1 year, the researchers found:
	• Malnourished patients had a higher risk of both early and late readmissions
	• Weekend discharges were less likely to be associated with both early and
Notes	late readmissions
	• Indigenous Australians had a higher risk of early readmissions
	• Patients living alone had a higher risk of late readmissions
	• Patients ≥80 years had a lower risk of early readmissions
	• Admission to intensive care unit was associated with a lower risk of late
	readmissions.
	The authors suggest that "Targeted nutrition intervention may prevent unplanned
	hospital readmissions."

Excising the "surgeon ego" to accelerate progress in the culture of surgery Myers CG, Lu-Myers Y, Ghaferi AA



Looking beyond Mortality in Transplantation Outcomes

Lamas DJ, Lakin JR, Trindade AJ, Courtwright A, Goldberg H New England Journal of Medicine. 2018;379(20):1889-91.

New England Journal of Medicine. 2018;379(20):1889-91.		
DOI <u>https://doi.org/10.1056/NEJMp1806950</u>		https://doi.org/10.1056/NEJMp1806950
		The latter part of the 20 th century and the first decades of the 21 st have seen
		transplantation surgery move from pioneering with often heartbreaking failure to
	Notes	almost routine with survival expected. In light of this is this Perspective piece that
		suggests that there is a need to look beyond survival and look at other aspects of
		outcomes, such as quality of life.

Not all organ dysfunctions are created equal – Prevalence and mortality in sepsis Capan M, Hoover S, Ivy JS, Miller KE, Arnold R

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ournal	of Critical	Care.	2018;48:257-0	52.

DOI <u>https://doi.org/10.1016/j.jcrc.2018.08.021</u>	
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American Journal of Medical Quality

Volume: 33, Number: 6 (November/December)

URL http://journals.sagepub.com/toc/ajmb/33/6 A new issue of the American Journal of Medical Quality has been published. Articles in this issue of American Journal of Medical Quality include: • Interprofessional Rounds Improve Timing of Appropriate Palliative Care Consultation on a Hospitalist Service (Rafina Khateeb, Margaret R Puelle, Janice Firn, D'Anna Saul, Robert Chang, and Lillian Min) • Improved Outcomes With Integrated Intensivist Consultation for Cardiac Surgery Patients (Omer W Sultan, Lori L Boland, Tyler G Kinzy, Roman R Melamed, Susan C Seatter, Robert S Farivar, Lisa L Kirkland, and M Mulder) • Effect of Ambulatory Transitional Care Management on 30-Day Readmission Rates (Jonathan Ballard, Wade Rankin, Karen L Roper, Sarah Weatherford, and Roberto Cardarelli) • Evaluation of a Distance Learning Curriculum for Interprofessional Quality Improvement Leaders (Megan E Gregory, Jennifer L Bryan, Sylvia J Hysong, Isabelle S Kusters, Rebecca S Miltner, Diana E Stewart, Natalie Polacek, LeChauncy D Woodard, J Anderson, A D Naik, and K M Godwin)
 this issue of American Journal of Medical Quality include: Interprofessional Rounds Improve Timing of Appropriate Palliative Care Consultation on a Hospitalist Service (Rafina Khateeb, Margaret R Puelle, Janice Firn, D'Anna Saul, Robert Chang, and Lillian Min) Improved Outcomes With Integrated Intensivist Consultation for Cardiac Surgery Patients (Omer W Sultan, Lori L Boland, Tyler G Kinzy, Roman R Melamed, Susan C Seatter, Robert S Farivar, Lisa L Kirkland, and M Mulder) Effect of Ambulatory Transitional Care Management on 30-Day Readmission Rates (Jonathan Ballard, Wade Rankin, Karen L Roper, Sarah Weatherford, and Roberto Cardarelli) Evaluation of a Distance Learning Curriculum for Interprofessional Quality Improvement Leaders (Megan E Gregory, Jennifer L Bryan, Sylvia J Hysong, Isabelle S Kusters, Rebecca S Miltner, Diana E Stewart, Natalie Polacek, LeChauncy D Woodard, J Anderson, A D Naik, and K M Godwin)
• Assessing the Impact of an Order Panel Utilizing Weight-Based Insulin and

	Herbst, R C Musser, S Freeman, T Shaikewitz, J Greenlee, and N P Setji)
•	Measuring Value in Internal Medicine Residency Training Hospitals Using
	Publicly Reported Measures (Adam Schickedanz, Reshma Gupta, Vineet M
	Arora, and Clarence H Braddock, III)
•	Using HFACS-Healthcare to Identify Systemic Vulnerabilities During
	Surgery (Tara N Cohen, Sarah E Francis, Douglas A Wiegmann, Scott A
	Shappell, and Bruce L Gewertz)
•	Descriptive Analysis of Associated Factors for Urgent Versus Nonurgent
	Inpatient Spine Transfers to a Tertiary Care Hospital (Gregory D Schroeder,
	James C McKenzie, David S Casper, Seth Stake, Joseph Buchholz, Chris
	Kepler, Jeffery A Rihn, Barret I Woods, K E Radcliff, I D Kaye, K Nicholson,
	D G Anderson, A S Hilibrand, A R Vaccaro, S Khan, and M F Kurd)
•	Handoff Tool Enabling Standardized Transitions Between the Emergency
	Department and the Hospitalist Inpatient Service at a Major Cancer Center
	(Carmen E Gonzalez, Norman Brito-Dellan, Srinivas R Banala, David Rubio,
	Mohamed Ait Aiss, T W Rice, K Chen, D C Bodurka, and C P Escalante)
•	Patterns of Narcotic Prescribing by Orthopedic Surgeons for Medicare
	Patients (Matthew R Boylan, Kelly I Suchman, J D Slover, and J A Bosco)
•	Delivery of Standardized Patient Instructions in the After-Visit Summary
	Reduces Telephone Calls Between Clinic Visits (Stefanie Deeds, Stephanie
	Carr, Michelle Garrison, and Tyra Fainstad)
•	Patient Adoption and Utilization of a Web-Based and Mobile-Based Portal for
	Collecting Outcomes After Elective Orthopedic Surgery (Kerri Bell, Eugene
	Warnick, K Nicholson, S Ulcoq, S J Kim, G D Schroeder, and A Vaccaro)
•	A Health Plan's Journey to Identifying Meaningful Quality Measures
	(Misty Roberts, Faith Green, and Worthe Holt)
•	Are We Confident of Across-Hospital Mortality Comparisons? (Richard L
	Fuller, John S Hughes, Norbert I Goldfield, and Graham Atkinson)
•	A Patient-Centered Measure Reduction Strategy: Three Lenses of Value
	(Umbereen S Nehal, Jack Maypole, and Matthew Sadof)
	Effect of a Resident-Led ICD-10 Code-Focused Review of Inpatient
	Documentation on Length of Stay (Rachel E Elam, Monique Bethel, P C
	Brown, G Collins, R L Perry, L Merchen, D J Fallaw, and N S Nahman, Jr)

BMJ Quality and Safety online first articles

URL	https://qualitysafety.bmj.com/content/early/recent	
	BMJ Quality and Safety has published a number of 'online first' articles, including:	
	• Reducing hospital admissions for adverse drug events through	
	coordinated pharmacist care: learning from Hawai'i without a field trip	
Notes	(Michael A Steinman)	
110103	• Physician characteristics associated with patient experience scores:	
	implications for adjusting public reporting of individual physician scores	
	(Kathryn Elizabeth Engelhardt, Richard S Matulewicz, John O DeLancey,	
	Ryan P Merkow, Christopher M Quinn, Lindsey Kreutzer, Karl Y Bilimoria)	

International Journal for Quality in Health Care online first articles

URL <u>https://academic.oup.com/intqhc/advance-access</u>	
Notes	International Journal for Quality in Health Care has published a number of 'online first' articles, including:

٠	Coping with more people with more illness. Part 2: new generation of
	standards for enabling healthcare system transformation and
	sustainability (Jeffrey Braithwaite; Charles Vincent; W Nicklin; R Amalberti)

Online resources

[UK] National Institute for Health Research

https://discover.dc.nihr.ac.uk/portal/search/signals

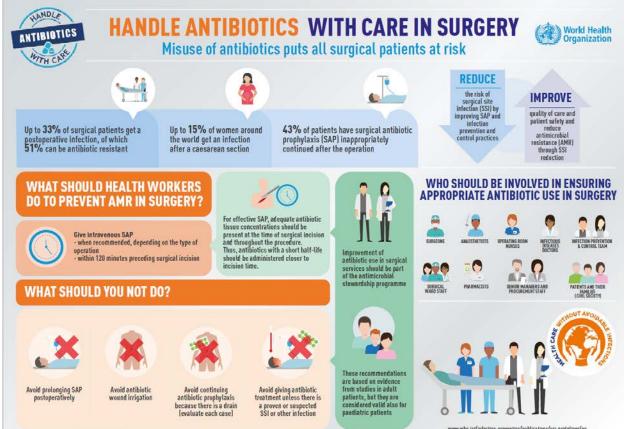
The UK's National Institute for Health Research (NIHR) Dissemination Centre has released the latest 'Signals' research summaries. This latest release includes:

- Partial knee replacements may save costs compared with total knee replacements
- Intravenous oxytocin reduces severe bleeding after vaginal delivery
- Steroids rapidly reduce children's **croup** symptoms and shorten hospital stays
- Routine use of a mechanical compression device is no better than manual chest compression in cardiac arrest
- Insulin pumps offer little value over multiple injections for children at the onset of diabetes
- Telemedicine programme can prolong life for heart failure patients
- Delirium is common among adults receiving palliative care and could be better recognised
- Cognitive behavioural therapy may not work for people with **schizophrenia** who haven't completely responded to drug treatment
- Joint infection after hip replacement is linked to some risk factors that could be modified
- Abdominal aortic aneurysm screening for women is unlikely to be a fair use of resources.

[WHO] Handle antibiotics with care in surgery

https://www.who.int/infection-prevention/tools/surgical/infographic_SSI.pdf?ua=1

The World Health Organization has produced this infographic on the use of antibiotics in surgery.



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