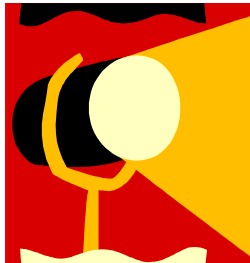


AIHA Internet Resources Digest

Supporting Access to High Quality Online Resources

November 2015



Spotlight on: MEDECAL DEVICES

Medical device is an instrument, apparatus, implant, *in vitro* reagent, or similar or related article that is used to diagnose, prevent, or treat disease or other conditions, and does not achieve its purposes through chemical action within or on the body, but acts by other means like physical, mechanical, or thermal. Medical devices vary greatly in complexity and application. There are over 100,000 medical devices currently on the market. How can any healthcare professional make sense of all this information and decide which advice is worth following and which new device is worth using? The following resources can help to make the informed and evidence-based decision.

Journals

Expert Review of Medical Devices



Expert Review of Medical Devices provides commentary, analysis and debate for all professionals involved in research, development, testing and clinical use of devices. The journal provides high-quality information from leading experts, all subject to rigorous peer review. The Expert Review format is specially structured to optimize the value of the information to reader.


The journal includes the following sections:

- Expert commentary - a personal view on the most effective or promising strategies
- Five-year view - a clear perspective of future prospects within a realistic timescale

- Key issues - an executive summary cutting to the author's most critical points.

In addition to the Review program, each issue also features Medical Device Profiles - objective assessments of specific devices in development or clinical use to help inform clinical practice. There are also Perspectives - overviews highlighting areas of current debate and controversy, together with reports from the conference scene and invited Editorials. Each issue contains selected free full-text articles. You can also get a **Sample recent content for your subject area of interest**: Access the two most recent volumes of content from all the journals for 14 days, allowing you to review publications in your subject area of interest in more detail. Look

out for the link to this sample content in the right hand column on each journal page and simply click on the image.



Sample our
Area Studies journals

You will be prompted to register on Taylor & Francis Online, if you don't already have an account, or sign in to enable your access to the content. Once you have activated your access you will be able to view the content whenever you return and sign in to your account within the next 14 days.

<http://www.tandfonline.com/loi/ierd20#.VIQpX02FPIV>

Journal of Medical Devices

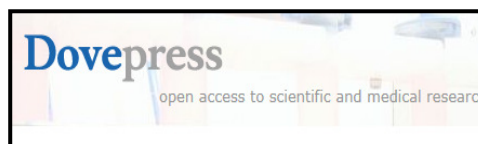


Founded in 1880 as the American Society of Mechanical Engineers, ASME is the premier professional membership organization for more than 127,000 mechanical engineers and associated members worldwide.

The journal presents papers on medical devices that improve diagnostic interventional and therapeutic treatments focusing on applied research and the development of new medical devices or instrumentation. It provides special coverage of novel devices that allow new surgical strategies, new methods of drug delivery, or possible reductions in the complexity, cost, or adverse results of health care. The Design Innovation category features papers focusing on novel devices, including some with limited clinical or engineering results. The Medical Device News

section provides coverage of advances, trends, and events. Free abstracts. <http://medicaldevices.asmedigitalcollection.asme.org/journal.aspx>

Medical Devices: Evidence and Research



An international, peer-reviewed, open access journal that focuses on the evidence, technology, research, and expert opinion supporting the use and application of medical devices in the diagnosis, monitoring, treatment and management of clinical conditions and physiological processes. The journal is characterized by the rapid reporting of reviews, original research and clinical studies across all disease areas and clinical situations. Some articles also include video content.

This journal aims to provide an evidence-based resource for the development and use of medical devices in such areas as surgery and anesthesia, instrumentation (diagnostics and analytics), active and non-active implantable technology, dental and ophthalmic applications, and drug delivery. The identification of novel devices and optimal use of existing devices which will lead to improved clinical outcomes and more effective patient management and safety is a key feature of the journal.

<https://www.dovepress.com/medical-devices-evidence-and-research-journal>

European Medical Device Technology



European Medical Device Technology (EMDT) combines in-depth technical articles focusing on materials issues, design breakthroughs, manufacturing processes and regulation with a marketplace section that highlights suppliers' products and services, outsourcing opportunities and case studies for a pan-European readership. The magazine is published six times a year in addition to the annual *Source Book*, the premier buyers' guide for Europe's med-tech professionals.

<http://www.emdt.co.uk/>

Data Bases and Guides

Which Medical Device



Which Medical Device is a review and information site about medical devices developed by clinicians for clinicians. It was launched with the aim of sharing information about medical devices to help us make better decisions and use devices well. Clinicians want to know what devices are really like from colleagues and the evidence.

Which Medical Device was launched in 2010 and has now in excess of 5,200 clinician members. The site receives over 17,000 visits per month. The editors are clinicians with an interest in medical devices, chosen from specialties featured on Which Medical Device. Devices on Which Medical Device are

suggested by users, manufacturers, and our editorial team. You are asked to register to be able to add comments, but only your user name (non-identifiable if you prefer) is displayed next to comments.

There is no charge for registration for clinicians, health care and medical industry professionals. In return you are offered full access to reviews, images and videos and an optional newsletter. The site welcomes contributions from the medical device community, including clinicians, device developers, manufacturers and distributors - for example why you use a device and how you get the most out of it. They also welcome in-depth user reviews, videos, news stories and editorial for peer review.

<http://www.whichmedicaldevice.com/>

Medical Device Safety Reports, ECRI



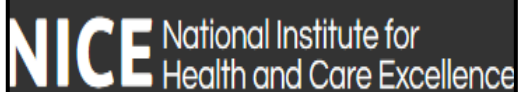
ECRI Institute's Medical Device Safety Reports (MDSR) database is a repository of medical device incident and hazard information independently investigated by ECRI Institute, a nonprofit health research agency.

MDSR is not an alerting service, but a periodically updated review of the types of problems that have occurred with medical devices and lessons learned over the past three decades. It focuses on the steps that medical device users can take to prevent or reduce medical device risks to patient care and healthcare worker safety.

You can search through MDSR by using either the criteria provided in the picklists or by using the free text search box. For current alerts and a historical database see the Health Devices Alerts database.

<http://www.mdsr.ecri.org/>

NICE Guidance



The National Institute for Health and Care Excellence (NICE) provides national guidance and advice to improve health and social care in the UK. **NICE guidelines** make evidence-based recommendations on a wide range of topics. **Technology appraisals guidance** assess the clinical and cost effectiveness of health technologies, such as new pharmaceutical and biopharmaceutical products, but also include procedures, devices and diagnostic agents. Medical technologies and diagnostics guidance help to ensure that the NHS is able to adopt clinically and cost effective technologies rapidly and consistently.

NICE technology appraisal guidance <https://www.nice.org.uk/About/What-we-do/Our-Programmes/NICE-guidance/NICE-technology-appraisal-guidance>

NICE medical technologies guidance <https://www.nice.org.uk/About/What-we-do/Our-Programmes/NICE-guidance/NICE-medical-technologies-guidance>

Medtech Innovation Briefings <http://www.nice.org.uk/advice?type=mib>

Horizon Scanning Research & Intelligence Centre



Horizon scanning reports for awareness raising about medical devices, this data base can be searched by the name of device, drug or disease, and further filtered by year and by medical specialty. The NIHR Horizon Scanning Research & Intelligence Centre

(NIHR HSRIC) was established as an independent research team at the University of Birmingham in 1998, and incorporated as a research programme within the National Institute for Health Research (NIHR) in 2006.

The NIHR HSRIC aims to supply timely information to key policy- and decision-makers and research funders within the English National Health Service (NHS) about emerging health technologies that may have a significant impact on patients or the provision of health services in the near future.

<http://www.hsric.nihr.ac.uk/search/?drugs=35#devices>

Scottish Health Technologies Group



The Scottish Health Technologies Group (SHTG) is an advisory group set up to provide assistance to NHS Scotland boards when considering selected health technologies. The remit of the SHTG is to provide advice on the evidence about the clinical and cost effectiveness of existing and new technologies likely to have significant implications for patient care in Scotland.

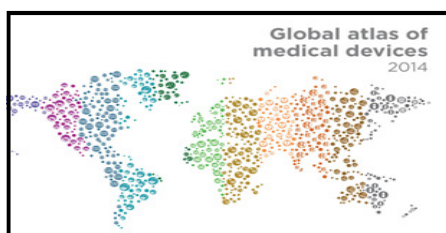
The SHTG aims to present a balanced and impartial critical appraisal and summary of the research evidence about new technologies, and/or new evidence about existing technologies. The SHTG sets out to act as an 'honest broker' when interpreting the evidence and provide independent and unbiased advice. This advice should support the planning and decision making processes in NHS boards. This includes a horizon

scanning function to provide early intelligence on health technologies in development.

[http://](http://www.healthcareimprovementscotland.org/our_work/technologies_and_medicines/shtg.aspx)

www.healthcareimprovementscotland.org/our_work/technologies_and_medicines/shtg.aspx

WHO Medical Devices



Assisting member states through regulatory guidance, training, coordination and promotion of international best practices is a priority for the Diagnostic Imaging and Medical Devices (DIM) team. WHO is an official observer in the management committee of the "International Medical Devices Regulatory Forum" (IMDRF). WHO recognizes the importance of medical device management in contributing to the provision of quality health care and thus, under the Global Initiative on Health Technologies began developing tools and resources for Member States in this critical area.

Among its recent publications is a Compendium of innovative technologies. WHO has also developed a guidance document whose purpose it is to raise the awareness of the importance of developing and implementing health technology policies – comprised of regulatory, health technology management, and health technology assessment components – within the context of a national health plan.

The web-site also provides Country data - Global atlas of medical devices 2014 update. The baseline country survey provides a global reference on health technologies, particularly on the availability of specific medical

devices, policies, guidelines, standards and services.

http://www.who.int/medical_devices/en/

Medical Devices. Temple University Library Research Guide



Medical Devices: Information Reviews and Evaluations: A Technology, Engineering, Government, Legal and Health Related: Books, Web Resources, and Database Search Results. This guide provides a selection of books about medical devices with a link to a search of the book title in Google Scholar. Some websites and journal article citations with links. Database search result links for medical devices from a group of web based databases. Listing of databases with the number of sources found in them for medical devices.

<http://guides.temple.edu/c.php?g=400171>

AIHA Related Resources

Biomedical Engineering. Internet Resources Digest, August 2014

http://www.healthconnect-intl.org/IRD_aug14.html

Laboratory Medicine. Internet Resources Digest, June 2013

http://www.healthconnect-intl.org/IRD_jun13.html

Health Technology Assessment. Internet Resources Digest, May 2012

http://www.healthconnect-intl.org/IRD_may12.html

About the AIHA Internet Resources Digest

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The *Internet Resources Digest* is compiled by Irina Ibraghimova, PhD, Library and Information Management Specialist HealthConnect International (www.healthconnect-intl.org). The contents are the responsibility of AIHA and do not necessarily reflect the views of PEPFAR, HRSA, or the United States Government.

If you have a suggestion for a Digest topic, or would like to contribute information about Internet resources, please contact [ibra\[at\]zadar.net](mailto:ibra[at]zadar.net).

Back issues of the *Internet Resources Digest* for 2011-2015 are archived at <http://www.healthconnect-intl.org/resources.html>

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