

Cutting the homicide rate, p 129



Non-communicable diseases, p 130



Systolic blood pressure, p 138



South Africa's public health system, p 136

EDITORIALS

QRISK or Framingham for predicting cardiovascular risk?

QRISK is better on every performance measure, and should be recommended in the UK, say Rod lackson and colleagues >> Research, p 144

Reducing pregnancy and health risk behaviours in teenagers

Intensive, multicomponent programmes are not always effective, says Douglas Kirby » Research, p 148

Treatment of chronic gastro-oesophageal reflux disease

Early results of laparoscopic fundoplication show promise, but confirmation is needed, say Alexander C Ford and Paul Moayyedi » Research, p 152

Heat waves and dehydration in the elderly 119 Recognising the early warning signs can save lives, say Marcel G M Olde Rikkert and colleagues

LETTERS

- 121 TYM and Alzheimer's disease
- Interrogation of detainees
- Ovarian cancer: Institutional safety problem 123
- Incidental lymphocytosis; Summary care records

NEWS

- GPs will lead UK's vaccination campaign against swine flu which should start in early autumn Healthcare workers should get top priority for vaccination, WHO says
- US National Institutes of Health advise on stem cell research
 - NHS "takes too long to diagnose and treat rheumatoid arthritis"
 - Girl is healthy three and a half years after her donor heart was removed
- No protection will be given to relatives of those seeking suicide
- 128 Auditors guestion the value of EU public health programmes
 - Legal loophole helps hundreds of Dutch cafes to escape smoking ban
 - Study says child pornography may not raise risk of abuse
- 129 Schemes to collect and destroy handguns help to cut homicide rate in crime ridden countries
- Médecins Sans Frontières campaigns to increase treatment of Chagas' disease worldwide EC berates drug industry for delays in access to generics
 - Non-communicable diseases must be given greater priority, says WHO
- Elsevier says offering \$25 gift cards for positive reviews of psychology textbook was a mistake

SHORT CUTS

What's new in the other general journals

FEATURES

134 The fight goes on

Calls for those who accompany people abroad for assisted suicide to be immune from prosecution were defeated in the House of Lords this month. Clare Dyer talks to Lord Falconer, who proposed the change in the law

Searching for Lazarus

South Africa's public health system is in disarray. Can the new government revive it? Caroline Lambert reports

HEAD TO HEAD

Is systolic blood pressure all that matters?

Peter Sever argues that abandoning diastolic measurements will improve control of blood pressure, but Eoin O'Brien thinks that we should change the method of measurement instead

OBSERVATIONS

OUT OF HOURS

140 Don't just blame the media Christopher Martyn

ANALYSIS

Russia's healthcare system: in need of modernisation

Russia's health system is both inefficient and inequitable. Sergev Shishkin and Vasiliv Vlassov describe the challenges it faces and the government's plans for reform

RESEARCH, CLINICAL REVIEW, **AND PRACTICE** See next page

OBITUARIES

Ian Gregg: Roger Beniamin Bowes Bishton: Stanislaw Ganczakowski; Thomas Garrett; Robin Trevor Andrew Ross; Philip Henry Sutton; Henry Maxwell White; Philip Henry Nicholls Wood

VIEWS AND REVIEWS

PERSONAL VIEW

- An extremely interesting time to die Ann McPherson **REVIEW OF THE WEEK**
- **Getting hot and bothered** Stephen Gillam

BETWEEN THE LINES

Doing the books Theodore Dalrymple

MEDICAL CLASSICS

Baby and Child Care Elizabeth Loder COLUMNISTS

The errr-portfolio Des Spence

Where the heart is lke lheanacho

ENDGAMES

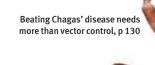
179 Quiz page for doctors in training

MINERVA

180 The "weekend effect" and other stories

FILLERS

- From our archive: Fever in the Zambesi (1861)
- What would you ask Margaret Chan?
- Anyone for an algorithm?
- First day jitters



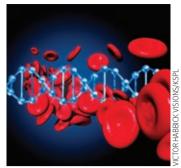




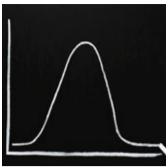
Youth development programme, p 148



Public perceptions of swine flu, p 156



DNA and RNA in maternal blood, p 161



Data analysis, p 169

RESEARCH

44 An independent external validation and evaluation of QRISK cardiovascular risk prediction: a prospective open cohort study

When compared to the Framingham equations, every performance measure in QRISK more accurately predicted 10 year cardiovascular disease risk in UK patients

Gary S Collins, Douglas G Altman

» Editorial, p 115

148 Health outcomes of youth development programme in England: prospective matched comparison study

Compared with other teenagers, those who entered this one year programme showed no reduction in health risk behaviours and significantly more of the girls became pregnant

Meg Wiggins, Chris Bonell, Mary Sawtell, Helen Austerberry, Helen Burchett, Elizabeth Allen, Vicki Strange

» Editorial, p 116

152 Laparoscopic fundoplication compared with medical management for gastro-oesophageal reflux disease: cost-effectiveness study

This companion study to the REFLUX trial published last year in *BMJ* shows that surgery can be more cost effective than long term use of proton pump inhibitors

David Epstein, Laura Bojke, Mark J Sculpher, The REFLUX trial group >>> Editorial. p 118

Public perceptions, anxiety, and behaviour change in relation to the swine flu outbreak: cross sectional telephone survey

In the early stages of the swine flu outbreak in the UK, public anxiety was low and self reported behaviour changes were limited despite widespread media coverage and government campaigns G James Rubin, Richard Amlôt, Lisa Page, Simon Wessely

RESEARCH METHODS AND REPORTING

157 Multiple imputation for missing data in epidemiological and clinical research: potential and pitfalls

Most studies have some missing data. Jonathan Sterne and colleagues describe the appropriate use and reporting of the multiple imputation approach to dealing with them Jonathan A C Sterne, Ian R White, John B Carlin, Michael Spratt, Patrick Royston, Michael G Kenward, Angela M Wood, James R Carpenter

CLINICAL REVIEW

161 Science, medicine, and the future: Cell-free fetal DNA and RNA in maternal blood: implications for safer antenatal testing Caroline F Wright, Lyn S Chitty

Commentary: No risk, no objections? Ethical pitfalls of cell-free fetal DNA and RNA testing

Dagmar Schmitz, Wolfram Henn, Christian Netzer

PRACTICE

166 Practice pointer:

Lithium and chronic kidney disease

Lithium use is associated with renal disorder and renal failure; this article offers guidance on monitoring, drug interactions, and when to consider stopping the drug
Mukesh Kripalani, James Shawcross, Joe Reilly, John Main

170 Statistics notes:

Parametric v non-parametric methods for data analysis Douglas G Altman, J Martin Bland

171 Lesson of the week: Diabetic muscle infarction Malvinder S Parmar

£1000 REWARD

To mark the online availability of every *BMJ* article published since the first issue in October 1840 we're offering a prize for the most interesting use of the journal's archive. The use should be actual, not hypothetical.











To enter please describe in an article of up to 1700 words your use of the *BMJ* archive.

Send it via submit.bmj.com, choosing "Competition" as the article type.

The deadline is 30 September 2009 and the winning article will be published in this year's Christmas *BMJ*.

BMJ

18 July 2009 Vol 339

The Editor, BMJ BMA House, Tavistock Square, London WC1H 9JR

Email: editor@bmj.com Tel: +44 (0)20 7387 4410 Fax: +44 (0)20 7383 6418

BMA MEMBERS' INQUIRIES Email: membership@bma.org.uk Tel: +44 (0)20 7383 6642

BMJ CAREERS ADVERTISING

Email: sales@bmjcareers.com Tel: +44 (0)20 7383 6531

DISPLAY ADVERTISING
Email: sales@bmjgroup.com

Tel: +44 (0)20 7383 6386 **REPRINTS**

UK/Rest of world Email: ngurneyrandall@bmjgroup.com Tel: +44 (0)20 8445 5825

Email: mfogler@medicalreprints.com Tel: +1 (856) 489 4446

SUBSCRIPTIONS BMA Members

Email: membership@bma.org.uk Tel: +44 (0)20 7383 6642

Non-BMA Members Email: subscriptions@bmjgroup.com Tel: +44 (0)20 7383 6270

OTHER RESOURCES

For all other contacts: resources.bmj.com/bmj/contact-us For advice to authors: resources.bmj.com/bmj/authors To submit an article: submit.bmj.com

BMIGroup

The BMJ is published by BMJ Publishing Group Ltd, a wholly owned subsidiary of the British Medical Association.

The BMA grants editorial freedom to the Editor of the BMJ. The views expressed in the journal are those of the authors and may not necessarily comply with BMA policy. The BMJ follows guidelines on editorial independence produced by the World Association of Medical Editors (www.wame.org/wamestmt. htm#independence) and the code on good publication practice produced by the Committee on Publication Ethics (www.publicationethics. org.uk/guidelines/).

The BMJ is intended for medical professionals and is provided without warranty, express or implied. Statements in the journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group, or the BMA unless otherwise specified or determined by law. Acceptance of advertising does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group shall not be liable for any loss, injury, or damage resulting from the use of the BMJ or any information in it whether based on contract, tort, or otherwise. Readers are advised to verify any information they choose to rely on.

©BM) Publishing Group Ltd 2009
All Rights Reserved. No part of this publication
may be reproduced, stored in a retrieval system,
or transmitted in any form or by any other
means, electronic, mechanical, photocopying,
recording, or otherwise, without prior
permission, in writing, of the BM)

Published weekly. US periodicals class postage paid at Rahway, NJ. Postmaster: send address changes to BMJ, c/o Mercury Airfreight International Ltd Inc, 365 Blair Road, Avenel, NJ 07001, USA. \$796. Weekly Printed by Precision Colour Printing Limited



PICTURE OF THE WEEK

British conductor Sir Edward Downes, CBE, who died this week at an assisted suicide clinic in Switzerland. Sir Edward, who was almost blind and increasingly deaf, and his wife, who had become his full time carer, travelled to a clinic run by the Swiss specialist euthanasia service Dignitas. Sir Edward conducted the first performance at Sydney Opera House and worked with the BBC Symphony Orchestra and the Royal Opera House during his long career. See News, p 127, Feature, p 134, and Personal View, p 175.

THE WEEK IN NUMBERS

\$25 Value of gift cards offered by Elsevier for positive reviews of a psychology textbook (News, p 131)

1000 Number of South Africans killed each day by AIDS (Feature, p 136)

63 years Approximate average length of life in Russia (Analysis, p 141)

37.8% Proportion of people who reported performing any recommended behaviour change because of swine flu (Research, p 156)

25 200 Number of pregnant women who undergo invasive prenatal testing each year in the UK (Clinical Review, p 161)

THE WEEK IN QUOTES

"Bringing together teenage girls at high risk of pregnancy might actually increase pregnancy rates" (Editorial, p 116)

"Viewing child pornography does not seem to be a major risk factor for committing physical sexual abuse of children in the future" (News, p 128)

"QRISK offers an improvement over the Anderson Framingham equation in identifying a high risk population for cardiovascular disease" (Research, p 144)

"Diabetic muscle infarction is underrecognised and often misdiagnosed" (Practice, p 171)

"Medicine has always been 'politics and economics as well as knowledge and craft" (Review of the Week, p 176)

EDITOR'S CHOICE

Let's talk about assisted dying



News, p 127 Features, p 134 Personal view, p 175

Two more people—the conductor Sir Edward Downes and his wife—travelled from the UK to Switzerland this week to die at a time (though surely not a place) of their own choosing. Their final journey to the Dignitas facility came just days after the House of Lords said no to providing immunity from prosecution for people who help relatives or friends travel abroad for an assisted suicide (p 127). The Lords' decision followed a similar vote at the BMA's Annual Representative Meeting last month (BMJ 2009;339:b2699).

In an interview with the *BMJ* (p 134), Lord Falconer, the architect of the defeated legislation, told Clare Dyer that he was motivated by the thought that people would rather die alone in a strange place than expose their loved ones to the risk of up to 14 years in prison. "The idea of dying alone struck me as horrific," he says. He decided to tackle what he saw as "an anomaly."

Assisted suicide has been legal in Switzerland since 1940, and unlike in Oregon, the Netherlands, and Belgium, where it is also legal, there is no requirement to be a resident or to have a physician in attendance. So far about 115 Britons have died in assisted suicides in Switzerland, and no one has yet been charged for helping them die abroad. In the BMA's recent debate llora Finlay argued that the current law works well. "It has a stern face and a kind heart," she said (*BMJ* 2009;339:b2699).

As reported by Dyer, the debate in the Lords shows the extent to which any softening of the legislation is seen as a slippery slope

towards allowing assisted suicide in the UK. Supporters of Falconer's amendment say that immunity for helping people travel abroad can be kept separate from the law on assisted dying. Falconer is considering fighting on with a private member's bill in October or November. Meanwhile, why do we fear the slippery slope? The latest YouGov poll suggests that the public is more in favour of assisted dying than are politicians and doctors.

According to Ann McPherson, more than 800 people in the UK have signed up with Dignitas. McPherson, an Oxford based GP, is herself dving of cancer. In her personal view (p 175). she writes about how hard it has become, post-Shipman, for doctors to respect the wishes of terminally ill patients. Surely, she says, fear of overstepping guidelines must be tempered with the need to listen to the patient's own wishes. McPherson is unusually attuned to patients' views, as co-founder of DIPEx, a groundbreaking video database that systematically records patients' experiences (www.healthtalkonline. org). She makes a moving plea for a rational discussion about assisted dying. Part of the problem, she says, is that those deciding on the question of assisted dying are not facing immediate death themselves, an expertise she now bravely claims. She writes: "Surely now we are a culture that has developed enough humanity to provide the choice and still protect the vulnerable."

Fiona Godlee, editor, BMJ fgodlee@bmj.com

Cite this as: BMJ 2009;339:b2883

100% recycled

The *BMJ* is printed on 100% recycled paper (except the cover)

Articles appearing in this print journal have already been published on bmj.com, and the version in print may have been shortened.

bmj.com also contains material that is supplementary to articles: this will be indicated in the text (references are given as w1, w2, etc) and be labelled as extra on bmj.com

Please cite all articles by year, volume, and elocator (rather than page number), eg *BMJ* 2009;338:b145. A note on how to cite each article appears at the end of each article, and this is the form the reference will take in PubMed and other indexes.

WHAT'S NEW AT THE BMJ GROUP

Best Practice—NEW from the BMJ Evidence Centre

Best Practice is a new decision-support tool that combines the latest research evidence with expert opinion and guidelines. Sign up for your free trial today bestpractice.bmj.com

Annals of the Rheumatic Diseases

Now ranked as the premier rheumatology journal in the world, with an impact factor of 7.188 ard.bmj.com

BMJ Masterclass for GPs: Cardiology, Diabetes and CKD

Tuesday 22 September, Glasgow. Register by 27 July and save up to £30! masterclasses.bmj.com/GPs

Seminar booking now open—BMJ Careers Fairs

Attend over 25 seminars, including MMC Update, Making the most of the Foundation Programme, CV and Interview Skills, plus much more. 2-3 October London, 9-10 October Birmingham. Register now careersfair.bmi.com

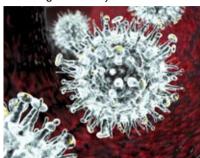


PLUS Career Focus, jobs, and courses appear after p 178

WHAT'S NEW ON BMJ.COM

LATEST RESEARCH

Assessing the severity of the novel influenza A/H1N1 pandemic



Accurate estimates of the severity of the new H1N1 virus, and in particular how many deaths might arise over the course of the pandemic, are central to healthcare planning over the coming months. Simple interpretations of crude figures at the beginning of a pandemic may be misleading both in terms of assessing severity and in making comparisons between countries. This paper discusses some of the important mechanisms resulting in biases, proposes study designs and associated statistical methods to estimate the case fatality ratio given these limitations, and shows their strengths using simulated data.

Coronary heart disease mortality among young adults in Scotland in relation to social inequalities

This time trend study found that premature death from coronary heart disease remains a major contributor to social inequalities. Furthermore, the flattening of the decline in mortality for coronary heart disease among younger adults may represent an early warning sign. The accompanying editorial says that social inequalities must be tackled, as well as risk factors, to reverse this trend.



Read these and other research articles at http://www.bmj.com/channels/research.dtl

LATEST PODCASTS

In advance of their appearance at the Edinburgh Fringe festival next month we caught up with rising stars the medicocomedy duo Amateur Transplants to ask them about balancing comedy and medicine. Rebecca Coombes chats to veteran of the stage Phil Hammond about his career, and Tom Nolan talks about the latest on swine flu.

We hope you have enjoyed listening to our podcasts. We are currently planning future topics. Please click on the link on the BMJ Podcasts webpage to take part in our short survey to let us know what you think about BMJ Podcasts and what you would like to hear in the future. As an additional incentive to take part, we are offering the chance to take part in a free prize draw for £100 worth of Amazon gift certificates. I hope you will have time to visit the survey on the BMJ Podcasts webpage.

Find out more at http://podcasts.bmj.com/bmj/

Last week's poll asked:

"Have you changed your behaviour as a result of swine flu?" You voted:

Yes: 149 (25%) No: 457 (75%)

This week's poll asks:

"Is systolic blood pressure all that matters?"

Submit your vote on bmj.com

LATEST BLOGS

Junior doctor Helen Carnaghan is shocked at the costs involved in becoming a surgeon. She estimates the total for core surgical training of £4760 all in but remains largely positive about her choice of career path: "For me surgery is my chosen route, and unfortunately this involves financial costs that I had never expected, but I am viewing it as an investment for my future. Though I can't help feel frustrated that I can barely pay for my rent in the process!"



Elsewhere, doc2doc's Tom Nolan continues with his daily swine flu blog. Ohad and Michal Oren have a vision of a cordon sanitaire hospital, and Vidhya Alakeson writes about the introduction in the US of the CLASS act, a new national insurance programme that is based on employee's contributions.

Find out more at http://blogs.bmj.com/bmj/

Meet the experts.

BMJ Masterclasses

masterclasses.bmj.com

