POSTER PRESENTATION



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Randomised Evaluations of Accepted Choices in Treatment (REACT) trials: large-scale pragmatic trials within databases of routinely collected electronic healthcare records

Tjeerd-Pieter van Staa^{1,2,3*}, Ben Goldacre³, Martin Gulliford⁴, Jackie Cassell⁵, Munir Pirmohamed⁶, Adel Taweel⁴, Brendan Delaney⁴, Liam Smeeth³

From Clinical Trials Methodology Conference 2011 Bristol, UK. 4-5 October 2011

Pragmatic trials determine the effects of an intervention under the usual conditions in which it will be applied. Databases of electronic health records (EHR), such as the General Practice Research Database (GPRD), provide a unique opportunity to conduct large scale pragmatic trials. This paper describes the infrastructure as being implemented for two feasibility pragmatic trials within GPRD. Clinicians willing to participate first need to complete a web-based training (covering both the study protocol and key aspects of good clinical practice). The EHR database will be searched for potentially eligible patients and a list including codes of potentially eligible patients and those of clinicians who completed the training will be compiled. This list will then be sent, using secure file transfer, to the desktop computer of the clinician. When a potentially eligible patient then visits the clinician for a consultation, a flag at the clinician's computer screen may then appear, notifying of the possibility to recruit. This flag provides a link to the study website, including the consent form and patient information sheet. After obtaining consent, the patient can then be randomised (using the website) and a prescription for the randomly allocated treatment can then be issued by the clinician. Daily downloads of the anonymous EHR records from the clinician's office to the central research site will allow the reporting of suspected side-effects. The trial database can be compared periodically to the full GPRD for purposes of fraud

¹General Practice Research Database, Medicines and Healthcare products Regulatory Agency, London, UK



Author details

¹General Practice Research Database, Medicines and Healthcare products Regulatory Agency, London, UK. ²Utrecht Institute for Pharmaceutical Sciences, Utrecht University, Utrecht, The Netherlands. ³London School of Hygiene & Tropical Medicine, London, UK. ⁴Primary Care and Public Health Sciences, King's College, London, UK. ⁵Division of Primary Care and Public Health, Brighton and Sussex Medical School, University of Brighton, Brighton, UK. ⁶The Wolfson Centre for Personalised Medicine, Institute of Translational Medicine, University of Liverpool, Liverpool, UK.

Published: 13 December 2011



Cite this article as: van Staa *et al.*: Randomised Evaluations of Accepted Choices in Treatment (REACT) trials: large-scale pragmatic trials within databases of routinely collected electronic healthcare records. *Trials* 2011 **12**(Suppl 1):A104.



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^{*} Correspondence: tjeerd.vanstaa@gprd.com

Full list of author information is available at the end of the article