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So what is the most effective strategy to reduce harm from amphetamine-type substances? Although the manufacture and misuse of synthetic stimulants contribute greatly to morbidity and mortality in substance users worldwide, the global disease burden of this class of substances is much lower than that of tobacco, alcohol, and marijuana. ^{6 9 10} Also, most people who use amphetamine-type substances take multiple substances. ¹¹

Even if the pattern of drug use is stable over time, drug markets are dynamic. Efforts to prevent the manufacture and use of amphetamine-type substances should, therefore, be integrated into a rational scheme to reduce overall substance use that is designed to tackle existing and emerging drug threats. Overinvesting resources in the control of one drug, or one precursor, carries with it the risk of failing to appreciate emerging threats. For instance, many people fear the "meth crisis," but fewer seem aware of the recent warnings issued by the UN Office of Drugs and Crime about the resurgence of cocaine in Western Europe. 12

Responses to this crisis should include limiting supply and distribution, ¹³ educating the public about harms, screening for early use, and aggressively treating addiction in an integrated approach that tackles addiction in its many forms.

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Clinical trial registration

Looking back and moving ahead

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See bmj.com for full details of the ICMJE working group

Competing interests: Employment: FG was previously editorial director of Current Controlled Trials, which owned the ISRCTN (International Standard Randomised Controlled Trial Number) trials register: SK is employed by the National Library of Medicine, which produces ClinicalTrials.gov, but he is not responsible for activities or policies regarding Clinical Trials.gov. Expert testimony: FG. Other: RH is co-chair and IMD and HCS are members of the WHO ICTRP scientific advisory group; MBVDW is a member of the government advisory committee for the Australian and New Zealand Clinical Trials Registry.

PS's affiliation as a representative and past president of the World Association of Medical Editors (WAME) does not imply endorsement by WAME member journals that are not part of the ICMJE.

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In 2005, the International Committee of Medical Journal Editors (ICMJE) initiated a policy requiring investigators to deposit information about trial design into an accepted clinical trials registry before the onset of patient enrolment.1 This policy aimed to ensure that information about the existence and design of clinically directive trials was publicly available, an ideal that leaders in evidence based medicine have advocated for decades.2 The policy precipitated much angst among research investigators and sponsors, who feared that registration would be burdensome and would stifle competition. Yet, the response to this policy has been overwhelming. The ICMJE promised to re-evaluate the policy two years after implementation. Here, we summarise that re-evaluation, specifically commenting on registries that meet the policy requirements, the types of studies that require registration, and the registration of trial results. As is always the case, the ICMJE establishes policy only for the 12 member journals (a detailed description of the ICMJE and its purpose is available at www.icmje. org), but many other journals have adopted our initial trial registration recommendations, and we hope that they will also adopt the modifications discussed in this update.

The research community has embraced trial registration. Before the ICMJE policy, ClinicalTrials.gov,

the largest trial registry at the time, contained 13153 trials; this number climbed to 22714 one month after the policy came into effect.3 In April 2007, the registry contained over 40 000 trials, with more than 200 new trial registrations occurring weekly (D Zarin, personal communication). The four other registries that meet the ICMIE criteria have also grown as scores of journals have adopted the ICMJE clinical trials registration policy. In response to burgeoning registration, many investigators, sponsors, and government agencies have asked the ICMJE to recognise their local registries as databases that meet the policy. Fortunately, the World Health Organization's (WHO) International Clinical Trials Registry Platform (ICTRP), which was nascent when the ICMJE began to require trial registration, has matured rapidly and provides options for those who desire a wider array of registries. The ICTRP has taken the first steps towards developing a network of primary and partner registers that meet WHO specified criteria.4 Primary registers are WHO selected registers managed by not-for-profit entities that will accept registrations for any interventional trials, delete duplicate entries from their own register, and provide data directly to WHO. Partner registers, which will be more numerous, will include registers that submit data to primary registers but limit their own register to trials

Summary

- In addition to accepting registration in any of the five existing registries, the International Committee of Medical Journal Editors (ICMJE) will accept registration of clinical trials in any of the primary registers that participate in WHO's International Clinical Trials Registry Platform (ICTRP). Registration in a partner register only is insufficient
- The ICMJE will begin to implement the WHO definition
 of clinical trials for all trials that begin enrollment on or
 after 1 July 2008. This definition states that a clinical trial
 is "any research study that prospectively assigns human
 participants or groups of humans to one or more healthrelated interventions to evaluate the effects on health
 outcomes"
- The ICMJE will not consider results posted in the same clinical trials registry in which the primary registration resides to be a previous publication if the results are presented in the form of a brief, structured (<500 words) abstract or table.

in a restricted area (such as a specific disease, company, academic institution, or geographic region).

The ICMIE strongly supports WHO's efforts, through the ICTRP, to develop a coordinated process for identifying, gathering, deduplicating, and searching trials from registries around the world, thus eventually providing a one stop search portal for those seeking information about clinical trials. In addition to the five existing registries, the ICMJE will now also accept registration in any of the primary registers that participate in WHO ICTRP. Because it is crucial that trial registries are independent of for-profit interests, the ICMJE policy requires registration in a WHO primary register rather than solely in a partner register, since for-profit entities manage some partner registers. As previously, trial registration with missing or uninformative fields for the minimum data elements is inadequate.1

Initially, the ICMJE required registration of all clinically directive trials, which it defined as "any research project that prospectively assigns human subjects to intervention or comparison groups to study the cause and effect relationship between a medical intervention and a health outcome." In May 2005, the ICMJE clarified this definition to exclude preliminary trials designed to study pharmacokinetics or major unknown toxicity (phase I trials).5 However, the ICMJE recognises the potential benefit of having information about preliminary trials in the public domain, because these studies can guide future research or signal safety concerns. Consequently, the ICMJE is expanding the definition of the types of trials that must be registered to include these preliminary trials and adopts WHO's definition of a clinical trial, "any research study that prospectively assigns human participants or groups of humans to one or more health-related interventions to evaluate the effects on health outcomes."4 Health related interventions include any intervention used to modify a biomedical or health related outcome (for example, drugs, surgical procedures, devices, behavioural treatments, dietary interventions, and

process of care changes). Health outcomes include any biomedical or health related measures obtained in patients or participants, including pharmacokinetic measures and adverse events. As previously, purely observational studies (those in which the assignment of the medical intervention is not at the discretion of the investigator) will not require registration. The ICMJE member journals will start to implement the expanded definition of clinically directive trials for all trials that begin enrollment on or after 1 July 2008. Those who are uncertain whether their trial meets the expanded ICMJE definition should err on the side of registration if they wish to seek publication in an ICMJE journal.

Over the time during which registration of trial methods has become common practice, several forces have begun advocating for registration of trial results. We recognise that the climate for results registration will probably change dramatically and unpredictably over coming years. For the present, the ICMJE will not consider results posted in the same primary clinical trials register in which the initial registration resides as previous publications if the results are presented in the form of a brief, structured (< 500 words) abstract or table. The ICMJE favours a standard abstract format for results reporting, and the CONSORT (Consolidated Standards for the Reporting of Trials) group's forthcoming guidelines for abstracts related to trials may be one such option. The ICMJE believes that parties interested in results registration should consider requiring the deposition of such an abstract in the registry 24 months after closure of data collection if results are not published in a peer reviewed venue by that time. The registered abstract should either cite any related full, peer reviewed publications or include a statement that indicates that the report has not yet been published in a peer reviewed journal. Researchers should be aware that editors may consider more detailed deposition of trial results in publicly available registries to be prior publication. When submitting a paper, authors should fully disclose to editors all posting in registries of results of the same or closely related work.

Three years ago, trial registration was the exception; now it is the rule. Registration facilitates the dissemination of information among clinicians, researchers, and patients, and it helps to assure trial participants that the information that accrues as a result of their altruism will become part of the public record. WHO's global efforts towards comprehensive trial registration and the ICMJE's requirements for registration aim to increase public trust in medical science.

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