Letter

Guidance in sepsis management: navigating uncharted waters?

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A platypus is a duck designed by a committee.

(Australian aphorism)

Practice guidelines should be enormously helpful to our patients. We offer another view, however, to that expressed by authors of the Surviving Sepsis Campaign (SSC) [1]. Traditionally, clinical decisions have been informed by peers, but committees such as the SSC seek to drive, rather than reflect, consensus. Is criticism of this new approach justified?

Guidelines can influence physicians to act against their better judgement. For example, while only 47% of surveyed intensivists believed that central venous pressure should guide resuscitation, 86% used it because of the SSC recommendation [2]. Protocols may improve care, but what should one do when audited patient outcomes are already better than those achieved by guideline interventions—such as early goal-directed therapy for severe sepsis [3]?

Guidelines for high-income countries may be inappropriate elsewhere, where assigning resources to guideline compliance might preclude other interventions. Such prioritisation is better determined by clinicians in response to local circumstances than by international expert panels. When guidelines become a standard of care, equipoise for confirmatory trials can be lost. Enrolment in the Corticosteroid Therapy of Septic Shock (CORTICUS) trial [4], for example, may have been unsustainably low because corticosteroids had the SSC imprimatur. Guidelines are increasingly used in malpractice litigation despite contrary recommendations. Finally, without the assent of clinicians, inappropriately formulated guidelines risk being ignored.

CORTICUS = Corticosteroid Therapy of Septic Shock; NICE-SUGAR = Normoglycaemia in Intensive care Evaluation and Survival Using Glucose Algorithm; SSC = Surviving Sepsis Campaign; VISEP = Efficacy of Volume Substitution and Insulin therapy in Severe Sepsis.
been performed and advise that, pending further evidence, a reasonable strategy might be to control glucose to a degree, but not so intensively as to cause hypoglycaemia. Furthermore, as patrician democracy has given way to universal suffrage, we envisage polls to gain the assent of practising intensivists, such that guidelines reflect true consensus rather than expert opinion. Quality assurance standards – the broadly agreed minimum – should be specifically distinguished from such guidelines.

We sense unease, inside and outside the profession [5], at the list of directions presented by the ‘cartographer’ experts of the SSC – made more contentious because the geographic features are incompletely known. Our suggestion is analogous to replacing a recommended course with the entire map, marked with areas of certainty and uncertainty (Figure 1). Experience, local conditions, and resources should determine the course of competent practitioners.

Authors’ response – A guide to the guide to the guidelines: staying afloat in turbulent seas

John C Marshall and Jean-Louis Vincent

*A platypus is a strange-looking animal found only in Australia.*

We appreciate the comments of Reade and colleagues. They underline important points we made: ‘Guidelines are not rules and do not preclude the clinician’s prerogative to make specific decisions … that may be inconsistent with general recommendations’ and ‘… the purpose of this guidelines process has never been to constrain those who provide exemplary care’ [1]. Moreover, we agree with the importance of garnering the collective diverse views of clinicians; the SSC guidelines involved 55 representatives of 16 different endorsing organisations, and quantified the extent of consensus on the recommendations [6].

We are therefore surprised at the authors’ discomfort with the process and the product. Surely Australian intensivists are not so meek they would apply a guideline to the detriment of their patient, and do so because they fear litigation. Nor do guidelines preclude further research. Since the 2004 publication that recommended tight glucose control in sepsis [7], both the Efficacy of Volume Substitution and Insulin therapy in Severe Sepsis (VISEP) trial and the Normoglycaemia in Intensive care Evaluation and Survival Using Glucose Algorithm (NICE-SUGAR) trial have been completed, readdressing that very question. New trials on the efficacy of goal-directed therapy and of activated protein C are underway. It seems more plausible that guidelines promote high-quality research, by better framing the contemporary question.

Platypuses notwithstanding, there is nothing inexorably unique about the Australian experience. Australian patients could benefit from the collective, often conflicting, and unquestionably imperfect international interpretation of the sepsis literature that informs the SSC guidelines; patients and clinicians around the world would gain more from their engagement in the process of democratic debate than from their sniping from the sidelines. Join us in this initiative, and help to map the future.

Competing interests

Professor Bellomo is the Principal Investigator in the Australian Government National Health and Medical Research Council funded trial of Early Goal Directed Therapy for patients with severe sepsis, which is soon to commence patient enrolment. In that our article is critical of the guidelines that incorporate this therapy, this could be perceived as an academic conflict of interest.

Jean-Louis Vincent has consulted for Eli Lilly and received honoraria and grant support from the company. John Marshall receives honoraria as a paid member of the Eli Lilly-sponsored PROWESS Shock study, and has served as a paid consultant to other companies with a commercial interest in the development of diagnostics and therapies for severe sepsis and septic shock, including Eisai, Becton-Dickinson, Hutchinson Technologies, and Spectral Diagnostics, and currently serves on data monitoring committees for Leo Pharma and Artisan.

John Marshall is a member of the steering committee of the SSC.

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