Perspective: Informed consent in emergency care research: An oxymoron?


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Contribution: All authors assisted with the conception of the article, as well as drafting and editing of the manuscript.

Word Count: 1555

This is the author manuscript accepted for publication and has undergone full peer review but has not been through the copyediting, typesetting, pagination and proofreading process, which may lead to differences between this version and the Version of Record. Please cite this article as doi: 10.1111/1742-6723.12642

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Abstract:

Emergency care needs to be underpinned by the highest quality evidence. However, research involving critically ill patients in the emergency setting, has unique ethical, logistical and regulatory issues. Informed consent is a well-established principle in conventional research. In this article, we discuss informed consent as it pertains to the difficulties of research in the emergency setting. Alternatives to informed consent are discussed. Human research ethics committees require a greater understanding of consent issues in emergency care research for Australia to remain competitive internationally.

Key Words:

Emergency medicine, informed consent, ethics, research
Introduction:

Emergency care research differs from conventional models. Every day thousands of patients in Australasia present to pre-hospital services or emergency departments (ED) and expect care underpinned by the highest quality evidence. Regrettably, many emergency therapies lack a solid evidentiary base. Many well-intentioned interventions have been found to be harmful after proper scientific study, a phenomenon termed medical reversal \(^1\) \(^2\). Clinical trials are thus needed to delineate truly "best practice".

Informed consent is a well-established principle in conventional research\(^3\). However, its role in the emergency setting deserves discussion contextually within the complex ethical, logistic and regulatory issues unique to research in critically ill patients. While many factors make research difficult in the emergency setting, there is confusion around the requirement for informed consent and the ethical implications for research when informed consent is impossible.

What is informed consent?
Informed consent is the exercise of a voluntary choice to participate in research based on the provision and subsequent comprehension of information about the purpose, methods, demands, risks, inconveniences, discomforts and possible outcomes of the research. Importantly, a signature on a consent form does not equate to informed consent, and obtaining informed consent does not guarantee intrinsically ethical research.

In Australia valid consent requires three elements: the capacity for decision making; a free and voluntary process; and adequate disclosure regarding the act performed. The absence of any element may ‘transform the treatment into a potential assault’.

Valid informed consent can often be obtained prior to enrolment in emergency care research. However, ED staff need to be trained in the principles of Good Clinical Practice, provide comprehensive information, allow sufficient time for consideration without coercion, and not prejudice clinical care after refusal.

Is informed consent possible in emergency care research?

Many important, unresolved clinical questions involve time-critical interventions in critically ill or injured patients who lack mental capacity because of their illness.
these circumstances, informed consent may not be feasible. Even if the patient retains some degree of capacity, the informed consent process may perceptually or materially impede the ability to treat the patient expeditiously. Further, the potential for coercion exists with all ED patients. Many present to the ED at a time of crisis and may be anxious, sick, in pain, disoriented or otherwise more vulnerable. Care must be taken to ensure that the consent process does not equate to exploitation.

Thus, where possible, informed consent should be sought but appropriate consideration should be given to the unique emergency setting so that consent can represent what is intended. Given both the issues unique to emergency medicine research and the complexity of consent arrangements which may need to be considered, it may be that special training or accreditation is warranted for HRECs considering emergency care research proposals.

**Alternatives to Informed consent.**

Alternatives to prospective informed consent include proxy consent, a waiver from individual participant consent, and retrospective or deferred consent. In Australia, decisions about persons who lack capacity to make decisions for themselves (either
temporarily or permanently) are facilitated by jurisdictional guardianship legislation (State and Territory). Each jurisdiction has enacted its own legislation with the common law playing a limited role. Confusion among emergency physicians, ethicists, legal advisors and Human Research Ethics Committees (HREC) around differences between the guardianship requirements of each jurisdiction and terminology in documents suggests the special circumstances of emergency, pre-hospital and critical care research were not adequately considered when the legislation was drafted.

The NHRMC specifies conditions for patients who cannot consent for themselves but these are subject to higher regulatory authority in all Australian jurisdictions. Accordingly, large multi-national clinical trials have frequently been conducted with varying consent procedures in differing jurisdictions. This may itself be unethical and has the potential to bias the results.

**Proxy Consent**

Seeking a surrogate decision maker (proxy consent) is an option when the participant is incapable of providing informed consent. Indeed, this is the usual procedure for invasive medical therapy when a patient otherwise lacks capacity.
However, there is evidence that the proxy may demonstrate poor agreement with the wishes of the participant 8. Also, proxy consent may not be available in the timely manner necessary for interventions with a narrow therapeutic window 3. In the CRASH trial of corticosteroids for severe head injuries, proxy consent was associated with a delay to treatment of 1.2 hours 9. Also, proxies may be too distressed to provide truly informed consent.

Waiver of informed consent

Waiver of informed consent is permissible in certain circumstances unless prohibited by law 3. While this raises concerns about unethical practice and contravention of the individual’s autonomy, it provides patients the opportunity to participate in research and fulfils the ethical principle of justice 5. To qualify for waiver of consent, the NHMRC National Statement (section 2.3.6 (a)) requires that the research “carries no more than low risk” 3 and that the “only foreseeable risk is one of discomfort”. This is of little relevance to patients who are critically unwell and is unsuited to the unique nature of emergency research, which often, by its nature, is “high risk”. It might be more useful to apply a concept of appropriate “incremental risk” 10, 11.
When emergency care research requires the waiver of informed consent, the responsibility to protect participants falls with the rigorous human research ethics approval process. The HREC must balance waiving the patient’s right to consent, the importance of undertaking the research and societal benefit, and the potential lost opportunity for the patient to participate. Committees familiar with the “conventional” model of medical research consent may not be cognisant of the specific issues of emergency research, again suggesting that emergency care research should be considered by HRECs with a comprehensive understanding of these issues. Not infrequently, the same trial is conducted with differing consent requirements among the participating institutions, even if operating under the same ethical guiding principles and legal framework.

**Deferred consent**

Deferred consent is used when it is not possible to obtain prospective informed consent from the participant or proxy. However, its undertaking requires strict adherence to the relevant legislative requirements. Consent is obtained from the participant (or proxy) as soon as is feasible after the intervention. It allows the participant to remain in the trial for use of collected data and follow up.
The advantages of waiver and deferred consent include avoidance of selection bias by maximising recruitment and the inclusion of sicker patients. It allows the study intervention to be delivered rapidly in the emergency setting. Deferred consent may also reduce staff anxiety about implementing a trial protocol and allows less deviation from routine clinical care.12

Other approaches

Barren et al13 suggested an adaptation of informed consent procedures for the emergency setting by “eliminating some of the less essential elements”. In this model, time pressures and patient vulnerability exist but patients may still have capacity to consent or refuse. Clarification of which elements of consent should be included or excluded is required.

The controversial Zelen trial design14 has been proposed when comparisons are made to an accepted standard of care. Randomisation occurs before consent is obtained and generally consent is only sought in the intervention arm. Arguably, this reduces unnecessary anxiety among those allocated to standard treatments and improves recruitment rates.
Research into alternatives to informed consent

Research into alternatives to informed consent is lacking. In a hypothetical trial of trauma management, the majority of patients were found not able to consent\textsuperscript{15}. Experience in large trials using different consent procedures has demonstrated that these factors do influence both recruitment rates and times to intervention delivery.\textsuperscript{9} This has implications for trial success, patient outcomes and therefore the ethical acceptability of the research. Reassuringly though, the available evidence suggests that approximately 70\% of patients support the idea of research without informed consent in some circumstances \textsuperscript{16, 17}. The perceived risk of the intervention seems to be related to support for research without consent. For researchers, it is difficult to understand a patient’s willingness to accept an unproven clinical care intervention recommended by their doctor, compared with some reluctance when the patient is told that their data will be collected as part of a study or that they are to be randomised \textsuperscript{11, 16}. Concerns about the process of randomisation are common, with perhaps little understanding of its scientific importance \textsuperscript{18}. In reality, more rigorous protections are in place as part of clinical trial protocols rather than the various whims of individual practitioners during routine care.

Conclusion
Informed consent in its truest form is difficult to obtain in the emergency setting and there is a need for greater clarity regarding appropriate alternatives, particularly for delineation of an acceptable standard. It is important to understand the factors that influence patient and public trust in medical research. Human research ethics committees are encouraged to consider the ethical acceptability of differing consent procedures as a way of expediting and standardising ethical review and protecting trial participants, while satisfying the community expectation that emergency care is evidence-based. Specific accreditation of HRECs with expertise in emergency care research is recommended in order to standardise consent procedures across jurisdictions. HRECs require a greater understanding of consent issues in emergency care research for Australia to remain competitive internationally. Australia needs consistency in its approach to informed consent in emergency research in order to facilitate participation in large, well-conducted trials designed to improve patient care.

Acknowledgements: The authors are grateful to Dr Nikola Stepanov for advice on early drafts of the manuscript

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Title:
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Date:
2017-02

Citation:

Persistent Link:
http://hdl.handle.net/11343/291557