Reviewer's report

Title: Why Technology Matters as Much as Science in Improving Care

Version: 1 Date: 4 June 2012

Reviewer: Kwan Hoong Ng

Reviewer's report:

Reviewer's report on
Why Technology Matters as Much as Science in Improving Care

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1. Minor Essential Revisions

Abstract

“accumulation of knowledge (i.e. science)” :
Science is also the generation and synthesis of knowledge
The full potential of technology

2nd para

“More generally, technology allows researchers and stakeholders to overcome the inherently complex, interacting and dynamic nature of healthcare systems.”

Would it not rather be the appropriate and effective application of technology that allows....?

3rd para

“To view this conceptually, consider a system’s performance as measured in vertical height above some rugged ‘performance landscape’.”

Explain this clearly.

4th para

“Mathematically, local optimization is straightforward and requires only the plausibly causal interpretation of a significant coefficient in a regression model.”

Explain this in simpler language. causal interpretation? significant coefficient? local optimization?

An illustrative example

1st para

“On the other hand, a holistic simulation approach, using real-time data, could allow for safe experiential learning and experimentation, and thus significant improvements in the quality of such intensive care.”
This is a good point. I would also argue for a multi- and trans-disciplinary approach to solving various global health issues.

2. Discretionary Revisions
The title: “Why Technology Matters as Much as Science in Improving Care”, suggest changing it to “Why Technology Matters as Much as Science in Improving Health Care”.

What next?
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- Accept after minor essential revisions (which the authors can be trusted to make)

Level of interest
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- An article of importance in its field

Quality of written English
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- Acceptable

Statistical review
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No, the manuscript does not need to be seen by a statistician.

**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

No conflict of interest