Safety in healthcare is a moving target

Charles Vincent,1 Rene Amalberti2

Safety in healthcare is a constantly moving target. As standards improve and concern for safety grows, we come to regard an increasing number of events as patient safety issues. In this respect, healthcare differs from almost all other safety-critical industries. What we regard as harm in, for instance, civil aviation remains the same whatever advances may occur in aviation technology or practice. In contrast, innovation and improving standards in healthcare alter our conceptions of both harm and preventability.1

In the 1950s, many complications of healthcare were recognised, at least by some, but largely viewed as the inevitable consequences of medical intervention.1 Over time, certain types of incidents come to be seen as both unacceptable and potentially preventable. The clearest example in recent times is healthcare-associated infections, which in the 1980s were still regarded as unfortunate, but inevitable. With increased understanding of underlying processes, mechanisms of transmission and methods of prevention, coupled with major public and regulatory pressure, such infections are now seen as patient safety issues.2 The list of ‘never events’ put forward in various countries, such as wrong-site surgery, is similarly an assertion that certain types of failure cannot be tolerated.3

In the last 10 years, as more types of harm have come to be regarded as preventable, the perimeter of patient safety has expanded. We could now include pressure ulcers, falls, venous thromboembolism and catheters with associated urinary tract infections, which, if not entirely preventable, can at least be substantially reduced.4 5 In the UK, the Francis Report into Mid Staffordshire Hospitals NHS Trust highlighted additional risks to patients, such as malnutrition, dehydration and delirium, all of which are now being viewed as safety issues.6 7 We might also consider adverse drug events in the community that cause admission to hospital, polypharmacy and general harm from overtreatment.8 All these, in the past, might have been regretted, but now receive greater attention by being viewed under the safety umbrella.

The perimeter of safety is, therefore, expanding. This is welcome for patients as it reflects rising standards and aspirations. However, the shifting perimeter does present problems, both conceptual and practical. The definition of harm seems increasingly difficult to pin down as more and more events are badges as safety issues. This raises the questions of whether we need to reconsider the measurement of adverse events.

An adverse event is defined as an unintended injury caused by healthcare management rather than the patient’s disease, and which results in a longer hospital stay, temporary or permanent disability or death. This concept was ‘good enough’ for the purposes of the major record reviews in that these studies showed that the risks of healthcare to patients were considerably larger than it had previously been realised.9 10 Tracking changes in adverse events over time, however, has been considerably more difficult, with many studies showing little or no change over many years.11 12

The impressive study by Baines et al13 has demonstrated reductions in adverse events concurrent with major patient safety programmes in the Netherlands. The paper reports what amounts to three major national adverse-event studies over time. The authors previously reported the comparison between the first two periods, showing an increase in overall adverse events from 4.1% in 2004 to 6.2% in 2008, possibly due to better documentation.14 Reassuringly, the rate of preventable adverse events did not change significantly (1.8% in 2004 vs 1.6% in 2008). In contrast, the most recent report shows no change in the rate
the field of patient safety. Asking this was essentially the approach of the major rough assessment of the overall scale of the problem; initial survey of disease generally, and make some classification systems. It would make sense to do an that disease was prevalent, but did not yet have good the term ‘overall level of adverse events’. This will never be a tracking both of specific types of harm and of the adverse events, which should enable more precise advance at least a large proportion of specific types of large-scale studies should attempt to specify in separate out specific types of adverse events. Future which would imply that we also need to begin to sep- tice, one would define and track specific diseases, healthcare, first at the level of populations and then, more ambitiously, for individual patients. Ultimately, the aspiration should be to mirror our experience as patients and be able to reflect for any one individual the overall balance of benefits and harms of healthcare and the accompanying experience for patients and families.

**Funding** Health Foundation.

**Competing interests** None declared.

**Provenance and peer review** Not commissioned; internally peer reviewed.

**REFERENCES**

Safety in healthcare is a moving target

Charles Vincent and Rene Amalberti

BMJ Qual Saf published online July 6, 2015

Updated information and services can be found at:
http://qualitysafety.bmj.com/content/early/2015/07/06/bmjqs-2015-004403

These include:

References
This article cites 13 articles, 6 of which you can access for free at:
http://qualitysafety.bmj.com/content/early/2015/07/06/bmjqs-2015-004403#BIBL

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Topic Collections
Articles on similar topics can be found in the following collections
Open access (265)

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/