Safety brings with it a further dimension, one that many clinical teams have long struggled with. Safety is a systems issue. As knowledge advances and new technologies are deployed in the workplace, many undesired and unanticipated risks and consequences result. Although, disappointingly, some of the literature still refers to “medical error” and “human error”, deep questioning related to adverse events will usually identify underlying systemic causes.17 Healthcare organisations are complex and the almost always under pressure, so the chance of failing to provide an element of care, or providing the wrong one, is almost always if human activity is left unsupported by systems which can take up routine tasks, provide information, support decisions, and force safer functions.

Do support systems work? Evidence on guideline implementation suggests that there are no easy fixes when it comes to effecting change in clinical behaviour.7 But case studies on safety and system re-engineering from the Institute of Healthcare Improvement in the United States8 and from the National Health Service modernisation programme9 have demonstrated real gains by engaging managers and by using systems approaches to quality and safety. Additionally, much of the research on improving the quality and safety of prescribing suggests that systematising the process can lead to substantial improvements.10

Quality used to be considered the preserve of clinical teams. Sometimes this was because of defensiveness and a wish to remain separate from management, sometimes because management was uninterested, more often because each side did not recognise each other’s role. However, moving towards a culture of safety is at the heart of the ethical imperative of changing health care. This places new requirements on healthcare organisations for even the introduction of clinical governance meant that healthcare organisations were more concerned with risk management than the more positive and encompassing concept of safety. Furthermore, every healthcare organisation faces significant safety and quality challenges that cannot all be fixed at once. Clinical and managerial partnership is required to set priorities and to support a culture of effective practice.

The concept of safety as part of quality improvement enlarges the “quality envelope”. Engaging senior management, funding agencies, and healthcare professionals with the safety agenda through a growing recognition of reciprocal responsibility and a focus on systems as well as people is the new dimension. It just might work.
Aviation safety: a model for health care?

W Rutherford

It is time to rethink the institutions and processes through which health care is delivered if a "culture of safety" is to be achieved.

"Patient safety" has become a prominent topic in the medical lexicon since the Institute of Medicine in 1999 released its landmark report "To Err Is Human." Much of the ensuing discussion surrounding an individual patient's well being treats "safety" as though it were a palpable, concrete entity which somehow can be created by command, manufacture, or spontaneous generation. Alas, it is not so simple nor so tangible, nor is it accomplished by "doing what we always do, but doing it better". We must rethink the institutions and processes through which health care is offered.

If danger can be defined as the probability of incurring injury or death as a result of participating in, or being subjected to, a given activity or behavior, safety is the inverse—that is, the likelihood of emerging unharmed from the same behavior. In the first instance it is a relative term since life itself is a high risk phenomenon of finite duration. Life permits no absolute safety. By definition, patients are confronting some highly elevated element of life's background risk when they enter themselves into the healthcare web. Those who seek care do so with the hope that they can find relief, all the while assuming that, in so doing, they do not expose themselves to new danger. Creating the environment where this assumption is justified is the challenge for patient safety activists.

In many potentially hazardous industries specific attitudes, processes, and procedures have been deployed actively to prevent induced harm, often quite aside and in addition to the purpose of the enterprise. We in health care give lip service to this moral imperative with the familiar admonition "first do no harm". How well do we respect it in our attitudes, processes and procedures? Do we know what we are doing?

Another contemporary industry exists which shares with health care some important attributes—high stakes; potentially lethal technology; primary care. Over the last 30 years three trends can be identified: (1) increasing trend in medical malpractice litigation; (2) increasing standardization of procedures (the autonomy of the operator has been curtailed while preserving his authority); and (3) increasing system elements—human, information and hardware—thoughts embodied in crew resource management (CRM). The result is a "culture of safety". It is generally acknowledged that our health care does regularly violate this dictum. Resulting corrective efforts are often focused at the "sharp edge" of the health care process—the level of patient interface with the provider. This is understandable in our medical culture which subliminally suffuses students in their earliest days of medical school with the notion that "if I know enough, am smart enough, work hard enough, I will not make mistakes". However, profound adverse effects result from this misunderstanding of human behavior and human performance. They include strong psychological incentives—to add to legal ones in our "system"—for concealment, denial, and transfer of "blame" for the inevitable errors which do occur. Efforts focused at this sharp edge do not, and cannot, accomplish the command to do no harm; neither can a single soldier win a war nor an individual star constitute a basketball team. There are too many other forces and players involved. It is imperative that we look to the overall systems of delivering health care.

When we do, we find that there is no "system". Health care is delivered by a vast cottage industry which is populated by dispirited providers serving an increasingly disrespectful consumer, financed by reluctant governmental and private "third parties" and preyed upon by a politically well connected parade of plaintiffs' attorneys. A condition has been created wherein an "industry" supported by the most elegant new science and technology—and consuming great wealth—has grasped defeat from the jaws of victory. It seems to have lost its sense of purpose.

"Health care is delivered by a vast cottage industry populated by dispirited providers . . ."

It is impossible to hear physicians' discussions of similar cases and not be
astounded (and appalled) by the practice they describe. The efficacy of so many therapeutic regimes is so doubtful as to cause many therapeutic choices to be made by ill supported opinion. There is a literature so confused and confusing that some common symptom constellations appear likely to receive about as many therapeutic interventions as there are practitioners consulted. Do all of them work? Do any of them work?

Very well defined evidence-based guidelines exist for treating several conditions—for example, asthma and hypertension. Yet surveys indicate that in fewer than 20% of patients is the treatment for these diseases meeting the standards of the guidelines.

Well designed, carefully conducted clinical studies separate effective from ineffective regimens. Web based data collection could convert the existing diffuse practice into a powerful clinical study. Acceptable competing treatment protocols for common clinical conditions would be identified. Individual practitioners in this new practice environment could select one (as they often say they do) and apply it consistently. Providers could report results of their real-world interventions simultaneously with the medical record keeping and billing inputs in a well designed practice software suite. This could provide a good start towards identifying effective best practices. This has been the norm in treating pediatric leukemia patients for the last 20 years. Their results would enter the database along with others using the same and competing regimens. The large volume of data from an appropriately managed study would quickly offer guidance as to the most effective practices. We want evidence-based practice; let’s generate good evidence.

The process of organizing and implementing such an initiative would eventually involve medical administration, education and practice at all levels, thus potentially restoring a sense of common purpose among diffuse and competing elements of the industry. Importantly, such a program could help bridge the expanding gap between the expertise in medical center ivory towers and the far distal branches of the healthcare apparatus.

There is no single notion—simple or grand—that will create a culture of safety for health care. No proclamations can fix the ills or grow a mature effective provider system. We want evidence-based practice; confront the problems patients bring to us, and the ones we bring to them.


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doi: 10.1136/qhc.12.3.161

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