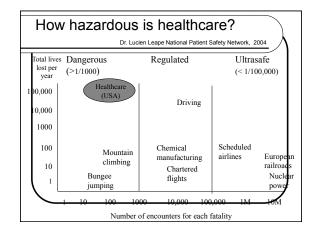




2008 Analysis

- Estimated annual number of infection cases triggered by healthcare: Australia 177,392
- Estimated bed days lost because of health care infections: Aust: 1,970,142
- Mortality: no reliable Aust. estimates; based on international estimates c.5,000 per annum

stralian Commission on Safety & Quality in Healthcare.
Reducing harm to patients: the role of surveillance



Risks to healthcare staff

- Blood borne virus infection following needlestick injury or mucosal splash
- Respiratory illness:
 - SARS- 1 in 5 reported cases were in staff with significant mortality
 - Influenza and respiratory syncytial virus
 - Tuberculosis
 - MRSA:
 - 127 investigations of hospital MRSA and involvement of healthcare staff indicated on average
 4.6% of healthcare staff were MRSA carriers
 1 in 20 experienced MRSA infection
 Community-type MRSA USA paediatric clinic; 16 of 45 staff experienced skin infections with one death
- Norovirus, Hepatitis A

Models of error

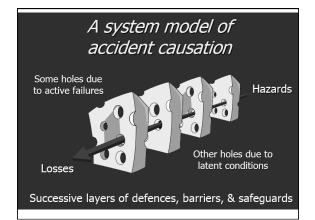
Human error: models and manageme

- Person model
 - Errors the product of wayward mental processes: distraction, carelessness etc
 - Remedial measures directed at the sharp-end errormaker: naming, shaming, retraining etc
- Legal (moral) model
 - Responsible professionals should not make errors (duty of care)
 - Such errors are rare but sufficient to cause adverse consequences
 - Bad (negligent) people make bad errors and deserve deterrent sanctions

System model

- Errors are commonplace: "to err is human"
- They only occasionally cause adverse events
- Sharp-enders are more likely to be inheritors than the instigators
- Adverse events are the product of many causal factors
- Direct remedial efforts at removing error traps and strengthening defences (systems)

ch System is perfectly designed to get the results it achieves" Don Berwig

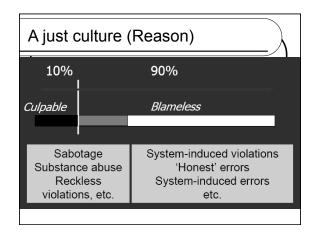


- Active failures: unsafe acts committed by people in direct contact with patient or system: slips, lapses, mistakes, procedural violations. Hard to foresee or prevent.
- Latent conditions: "resident pathogens" in the system. Arise from decisions made by designers, builders, procedure writers, top level management.
 - Can provoke conditions that increase error
 - Can create long-lasting holes/weaknesses in defences

...active failures are like mosquitoes.
 They can be swatted one by one, but they still keep coming. The best remedies are to create more effective defences and to drain the swamps (latent conditions) in which they breed."

 James Reason 2000

We cannot change the human condition, but we can change the conditions under which humans work



System approach to error management

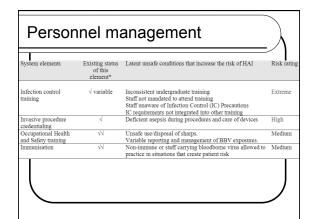
- Limit dangerous errors AND create systems that are better able to tolerate error and contain damaging effects
- Comprehensive approach aims at:
 - The person
 - The team
 - The task
 - The workplace
 - The institution as a whole

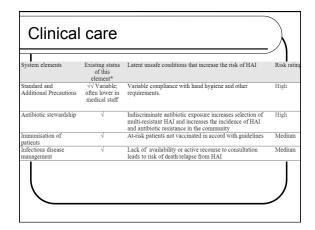
"It's not just about reporting, protocols, safe practices. It's about working together in multi-disciplinary teams with mutual respect" Lucien Leape

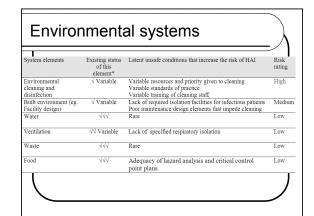
Scorecard of latent conditions in healthcare that affect HAI risk (Aust)

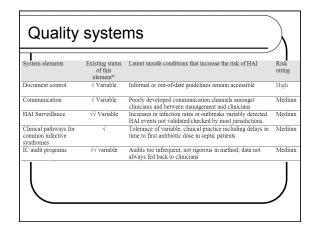
- Personnel
- Clinical care
- Environmental systems
- Quality systems
- · Support services

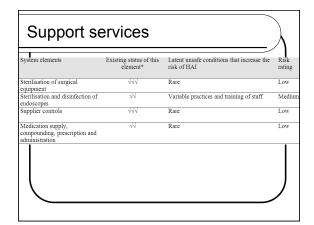
Risk assessment - subjective synthesis of the likelihood of an unsafe condition or event coupled to the potential severity of outcome











Five transforming concepts

- •Reform of Medical Education
- Joy and Meaning of Work
 - •Engaging Consumers
 - Transparency
 - Integration of Care

National Patient Safety Network, Lucien Leape Institute http://tinyurl.com/transcare

Reforming medical education

- As key lever to all of health professions education
- New emphasis on skills, behaviors and attitudes
- New content relevant to safety
- New focus on teachers

Finding joy and meaning in work

- Focus on workforce
- Culture that is a true learning environment
- Requires that everyone:
 - ☐ be treated with respect and dignity every day
 - given education, training, tools and encouragement needed so they can make a contribution that gives meaning to their lives
 - $\hfill \square$ Be recognized and appreciated for what they do

Engaging consumers

- Patient and family centered care
- Patients and families as members of team
- \blacksquare Respected partners in health care and solutions design
- Engaged at every level, all of the time

See also Atul Gawande, "Better" chapter on Cystic Fibrosis care

Transparency

- Among staff
- Between caregivers and patients/families
- Among institutions
- To the public at large

Integration of care

- Integrated care platforms built around families of conditions or illnesses that share common work
- Maximize efficiency, safety, quality and reliability
- Produce consistently superior outcomes at lower cost

AUSTRALIANCOMMISSIONON SAFETYANDQUALITYINHEALTHCARE

- National Safety and Quality Framework June 09 released for stakeholder review
- New set of S & Q accreditation standards that will replace relevant EQUIP standards
 - Governance for S & Q
 - Healthcare-associated infection
 - Medication safety
 - Patient identification and procedure matching

AUSTRALIANCOMMISSIONON SAFETYANDQUALITYINHEALTHCARE

Healthcare Standard on HAI specify:

- Systems and governance for IPC and surveillance
- Infection prevention policies and protocols
- Managing patients with infection
- Antimicrobial stewardship
- Cleaning, disinfection and sterilisation
- Consumer information (patient , public, other service providers)

References:

Human errors: models and management James Reason, BMJ 200:320:768

Reason 2007 Lecture at Cagliari Errore umano http://
http://">http://">http://
http:/

Aust Commission on Safety and Quality in Healthcare: National Safety and Quality framework www.safetyandquality.gov.au

Improving quality and safety of hospital care: a reappraisal and an agenda for clinically relevant reform

A. Scott, ¹ P. J. Poole² and S. Jayathissa³ Internal Medicine Jour