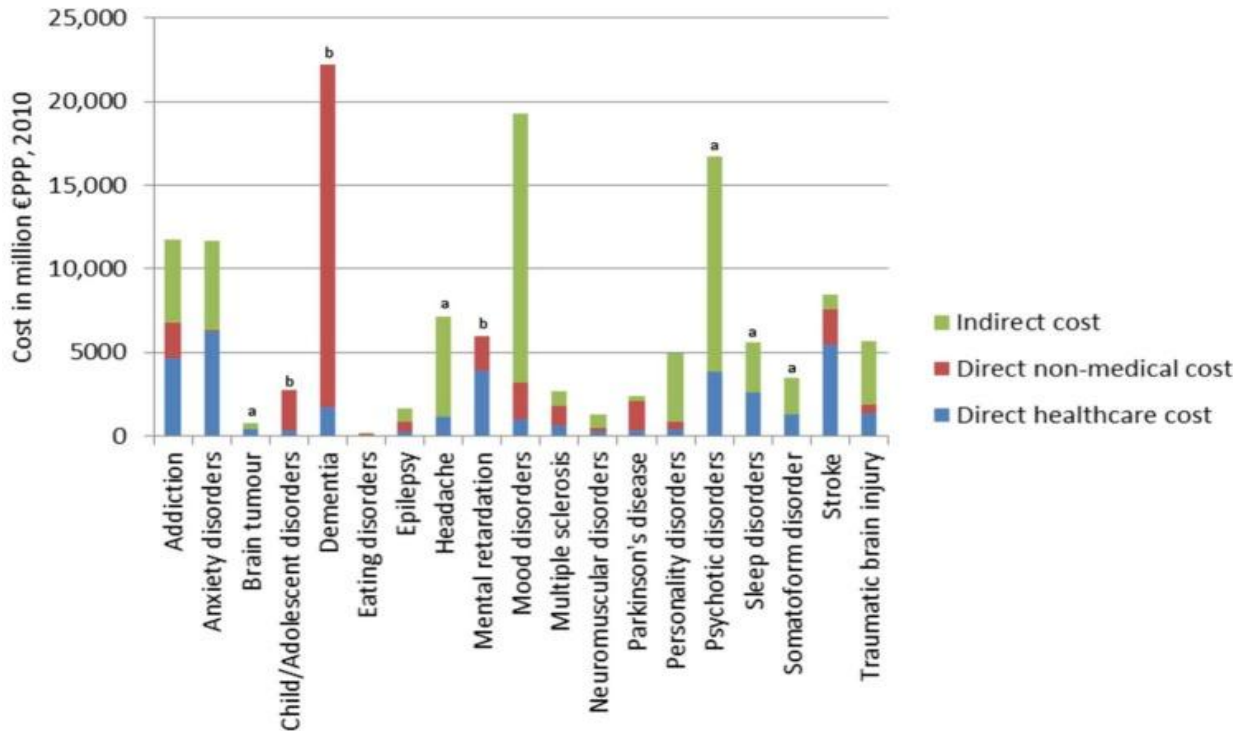


Health of the Nation: total cost of brain disorders excluding spine

Total Cost - United Kingdom



Fineberg et al 2013

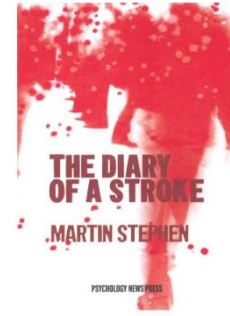
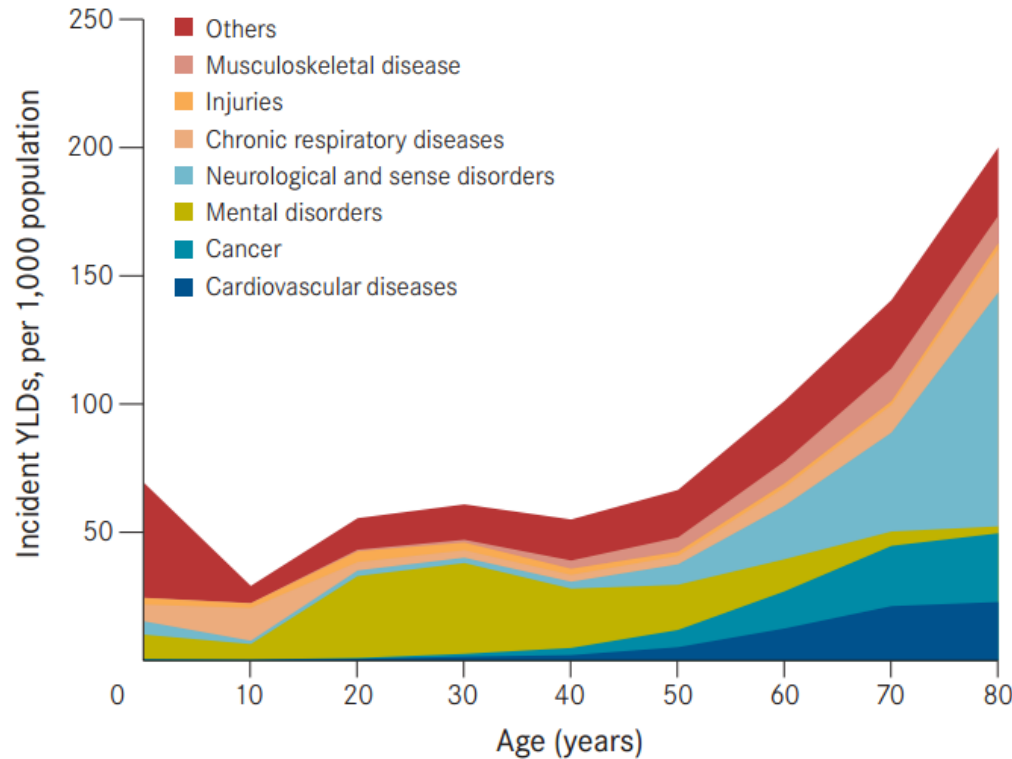
€135 billion

**Back pain:
1-2% of GDP**

^aMissing data for direct non-medical costs;

^bMissing data for indirect costs

Years lost to disability by age and diagnosis

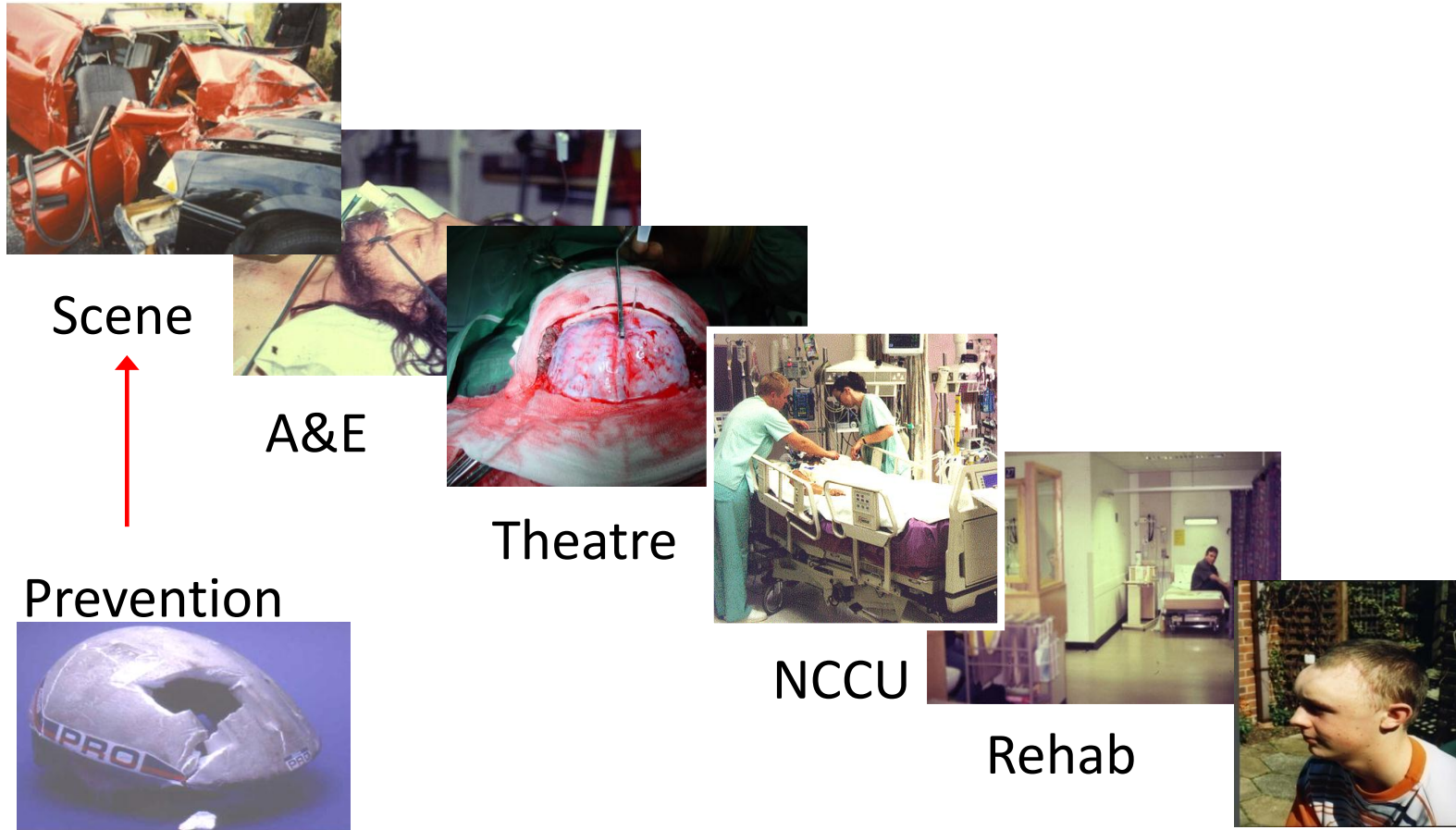


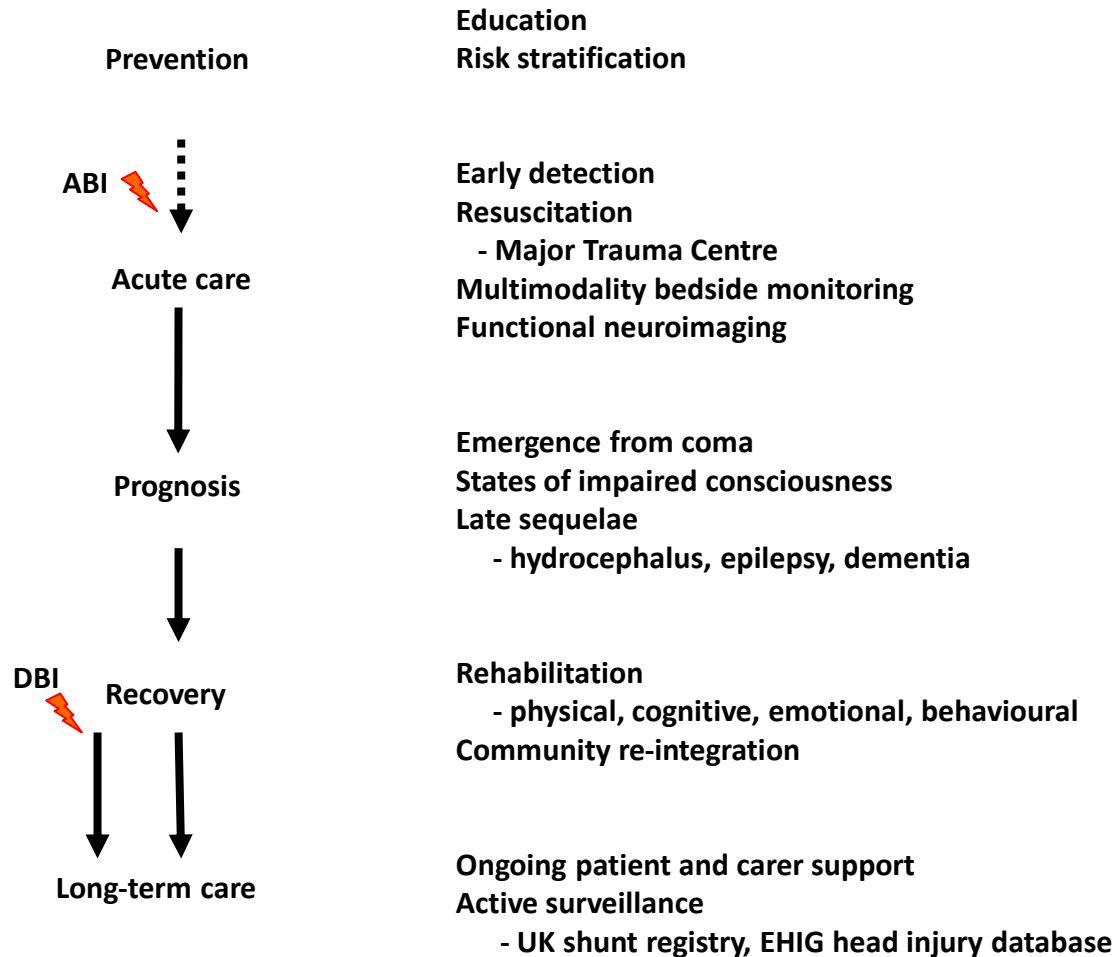
'I had to cure myself

***I am powerless –
This makes me angry.
I scream,
But to whom?***

Albert D Anderson

The patient's journey...





Areas of Unmet Need

Prevention	Risk Stratification	Neurodevelopmental Disorders
Acute Care	Multi-modality bedside monitoring	Intracranial pressure monitoring
Functional neuroimaging	Cognition	Neuro-oncology
Neuro-rehabilitation	Stem Cells and Spinal Cord Injury	Medical Device Development
Clinical Informatics	Patient and Public Involvement	

SBRI Challenge – Primary Prevention

The development and introduction of technologies and devices that could reduce the risk of sustaining a traumatic brain injury or modify behaviours that lead to brain injury.

SBRI Challenge – Acute Monitoring and Treatment

Pre-hospital – Brain function preservation, early diagnosis.

Early phase – Rapid triage and identification of prognostic indicators.

Intensive phase – Improved monitoring of brain function and response to therapy.

SBRI Challenge – Co-ordinated Care

Long term patient/carer support through the delivery of tools which support the rehabilitation process and support professionals in the delivery of effective and timely care.

Integrated management and services.

SBRI Challenge – Technology for Independent Living

Technologies to support long term rehabilitation in the home setting including assessment, monitoring and compliance promotion.

Prevention of emotional and cognitive deficits.

www.brain.htc.nihr.ac.uk

Questions

Contact: mb994@cam.ac.uk