



Developing Clinical Academic Careers through National Institute of Healthcare Research (NIHR) Fellowships and Funding.

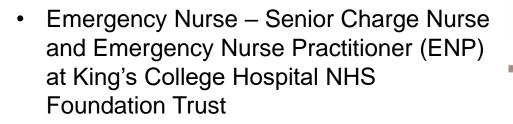


Edward Baker

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Florence Nightingale Faculty of Nursing and Midwifery

ME!



- Lecturer Practitioner Advanced Physical Assessment at King's College London
- NIHR Integrated Clinical Academic Research Fellow – King's College London
- PhD student at King's College London





Why is there a clinical need and Government commitment to developing healthcare research in the NHS?

- Improved health outcomes through advances in research and development of the evidence base
- Improved quality of care by NHS participation in the research process
- Strengthen the UK's competitive position in the international scientific market
- Drive economic growth through the investment in life science industries.



What are the challenges?

On average it takes 17 years for research to get into every day practice (Morris et al. 2011)

Only about half of Evidence Based Practice ever reach wide spread clinical usage (Balas & Boren 2000)



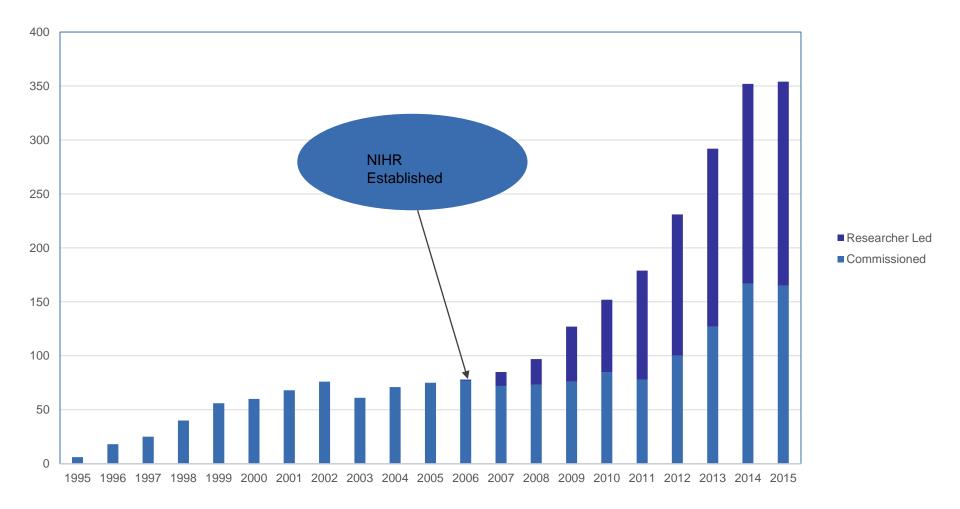
- The NIHR was established in 2006 as part of the UK government research strategy ' Best Research for Best Health'.
- Funding comes directly from the Department of Health
- The NIHR has five objectives:
 - \checkmark To fund high quality research to improve health
 - \checkmark To train and support health researchers
 - \checkmark To provide world-class research facilities
 - ✓ Work with life sciences industry and charities to benefit all
 - \checkmark To involve patients and the public at every step



- The NIHR is the largest funder of clinical research in the country
 - Wellcome = £746m
 - MRC = £767m
 - NIHR = c. \pounds 1bn
- It supports clinical and applied health & social care research to improve health, well-being and prosperity
- It is internationally recognised as the model for organising a health research system

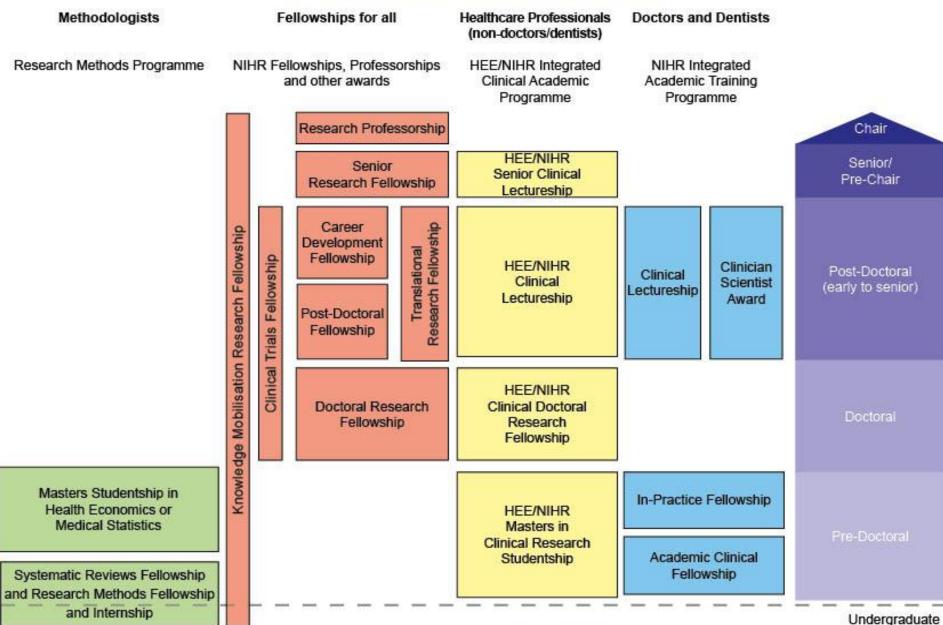


Impact of Clinical trials funded by the NIHR HTA Programmes





NIHR RESEARCH CAREER PATHWAYS



The NIHR Career Pathway:



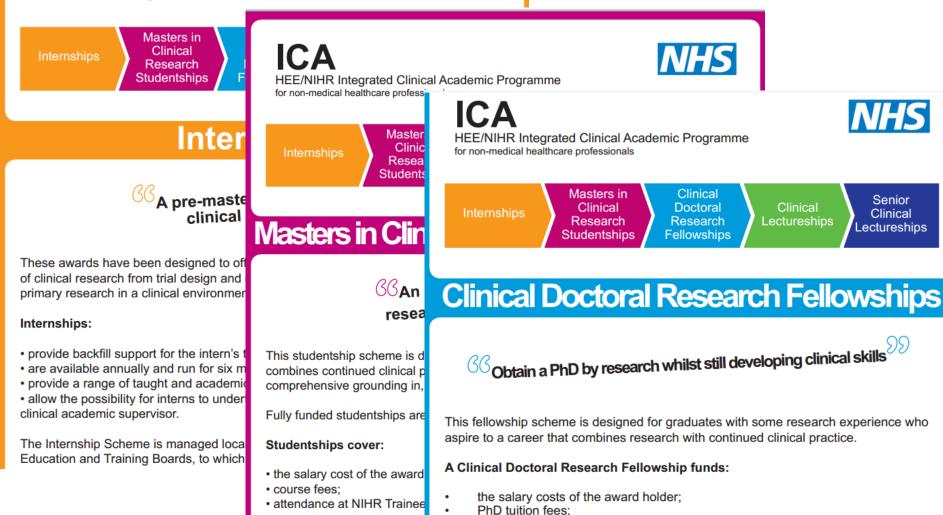
Undergraduate

NIHR RESEARCH CAREER PATHWAYS

Methodologists	Fellowships for all	Healthcare Professionals (non-doctors/dentists) HEE/NIHR Integrated Clinical Academic Programme	Doctors and Dentists	
				Chair
		HEE/NIHR Senior Clinical Lectureship		Senior/ Pre-Chair
		HEE/NIHR Clinical Lectureship		Post-Doctoral (early to senior)
		HEE/NIHR Clinical Doctoral Research Fellowship		Doctoral
		HEE/NIHR Masters in Clinical Research Studentship		Pre-Doctoral

HEE/NIHR Integrated Clinical Academic Programme for non-medical healthcare professionals





- Studentships can be undertal
- an appropriate research project;
 - an overseas research visit;
 - conference attendance;
 - a tailored training and development programme.

Fellowships can be undertaken full time over three years, or part time over either four or five years. Applicants must have at least one year's experience of practice since graduating and hold current registration with the relevant professional council at the point of award.



Is a 'Blunt Thoracic Trauma **Integrated Care Pathway' for the** management of blunt thoracic injury feasible and acceptable compared to standard UK **Practice**?



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Major Trauma – UK Perspective:





- Major Trauma is the 4th leading cause of death in developed world.
- Leading cause of death in people under the age of 40 years.
- Associated with physical, psychological and social complications.

Major Trauma – UK Perspective:





www.alamy.com - E97BE2



Observational Study

OPEN

A Retrospective Observational Study Examining the Effect of Thoracic Epidural and Patient Controlled Analgesia on Short-term Outcomes in Blunt Thoracic Trauma Injuries

Edward James Baker, MSc BSc (Hons) and Geraldine Ann Lee, PhD

Abstract: Effective analgesia in the early stages after any major traumatic event remains pivotal to optimal trauma management. For patients with significant thoracic injuries, this is paramount to ensure ongoing efficient respiratory function. The aim of this study was to investigate the use of analgesic modes in the management of patients with a primary thoracic injury and blunt mechanism of injury. By understanding variables that influence the use of varying analgesic modes and influence the development of pulmonary complications, there should be more uniform evidence-based prescription in the future.

This retrospective study considered analgesic use in patients admitted after blunt thoracic injuries at one major trauma center over a 2-year period. Pulmonary complications measured included both infective and ventilator-associated failure. Univariate and multivariate analyses were used to identify patient and injury severity characteristics and their association with respiratory complications.

A total of 401 cases were reviewed and analyzed: 159 received Patient Controlled Analgesia (PCA), 32 received PCA and epidural high-risk groups for the development of pneumonia were identified. Further work is warranted to consider the long-term benefits of analgesia in patients post-blunt thoracic injuries.

(*Medicine* 95(2):e2374)

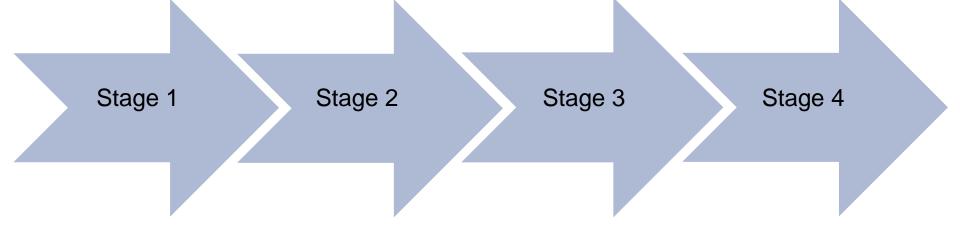
Abbreviations: EA = epidural analgesia, ICD = intercostal drain, ICU = intensive care unit, ISS = injury severity score, PCA = patient controlled analgesia, TARN = Trauma Audit and Research Network, UK = United Kingdom.

INTRODUCTION

T rauma remains the leading cause of death for both men and women under the age of 44 years in high-income countries and is a unique process in that it continues to have increasing morbidity and mortality rates with significant financial cost.^{1–3} It is also a major contributor to death and disability in low- and

Study Plan & Trajectory:





Systematic Review of the Literature. Prospective mixed methods observational study. Develop the 'Blunt Thoracic Trauma Integrated Care Pathway'.









Researcher Support Team:

Dr Andreas Xyrichis 'PhD Supervisor'







Dr Phil Hopkins 'PhD Supervisor'



Professor Christine Norton 'PhD Supervisor'

Dr Suzanne Bench 'CRIF at FNFNM'





Dr Jeff Keep 'Clinical Supervision'

Professor Valerie Lattimer NIHR Mentorship Scheme





 Miss S (Pseudonym) involved in a high speed accident motorcycle vs. car 5 years ago. Her partner died in the accident. She still has no recollection of the accident. Contact from 'AfterTrauma' patient group.

"I would say some people wouldn't want to help as they don't want to relive their experience and need to move of and forget that part of their life."



"I had a lot of help from friends and strangers I feel the need to help other now if I can."

"You can't push anyone unless they are ready and willing."

"We all understood that this will happen to others, accidents always happen but if we can help other sufferers or their families then it makes you feel better!"



2ND GLOBAL CONFERENCE ON EMERGENCY NURSING & TRAUMA CARE

22 - 24 September 2016 | Sitges (nr Barcelona), Spain



Dr. Elaine Cole Blizzard Institute (QMUL) UK



Professor Kate Curtis University of Sydney St George Hospital Australia Opportunity to network and meet like minded researchers.

Present concepts and receive feedback.

Consider the international Perspective of my research.

Make links that my lead to future collaborative relationships

NIHR – Clinical Doctoral Fellowship:





So... why is this project important:

- Direct clinical Benefits for patients with Blunt Thoracic Trauma.
- Cost benefits.
- Operational, safety and educational benefits for practitioners and clinicians.



• If you would like to read my latest publication:

http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4718238/pdf/ medi-95-e2374.pdf

- Please remember to follow @edbaker_ed for Trauma/Emergency Care/Advanced Practice Tweets and Updates.
- If you are interested and/or involved in Blunt Trauma Research please get in-touch: edward.e.baker@kcl.ac.uk