



Role of the research nurse in Critical Care





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• Insight into the critical care research nurse role

Research nurse role development – experiences from ACET research team





- 1. The research nurse role opportunities and challenges
- 2. The challenges of research delivery in the critical care setting
- **3.** ACET team experience of delivering critical care research and developing the research nurse role



- Historical evolution of role good practice guidelines
- Link between patient and study sponsors

Fig 5: Domains of clinical research nursing



Skills

- Project management
- Service development
- Proficient novel therapies
- Advanced patient assessment
- Excellent communication
- Laboratory techniques
- Managerial e.g. budget management
- Teaching
- Consent

Knowledge

- Research Legislation
- UK policy framework for health and social care research
- Expert clinical
- Organisational
- Research methodology and practice

"I helped a gentleman, who was enrolled in a research study, to have a shave. He was on the ward by this time and hadn't had a shave since discharged from ICU. He was very please to be back to his normal self"

"I put a family in touch with a support charity for peer support following encephalitis diagnosis"

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"A pt feeling depressed because of his recovery progress (things are not going as fast as he thought) and nurses are always busy so we've spent 45 mins chatting about that and he said he felt much better after" "I arranged follow-up appointment for someone worried about what happened in ICU after discharge"

"Patients and relatives being more aware of research and why projects are being undertaken. Makes them feel more involved in both their care and passing on new knowledge to look after patients that come after them"



- Disparity with models of working, support systems and level of responsibility.
- Role set-up and line management
 - Fixed term contracts
 - Inappropriate line manager
- Role isolation
- Role not understood by clinical colleagues seen as "non-clinical"
- Lack of training, support and career development opportunity H Jones 2017, C Whitehouse 2018

The challenges of delivering research in critical care

- Consent challenges with incapacitated patients
- Complex course of illness
- Urgency of interventions
- Collaborative models of care
- Unpredictability

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- Continuous interventions
- Funding models



- Collaboration based on common challenges and patient care pathways – supported by clinical leads
 - Skill mix
 - Flexibility
 - Improved communication and integration
 - Patient experience



Hopkins P, Kunst G, Keep J



- Embedding research (operational)-
 - Research on agenda of senior departmental meetings
 - Unit inductions
 - ACET medical
 - Safety huddle
 - Unit education and audit days
 - Large network of GCP trained staff enrolling patients on shift
 - Research awareness weeks
 - International clinical trials day
 - website
 - Link nurses

#WhyWeDoResearch Campaign



King's

- Embedding research (strategic)-
 - Clear governance structure and process
 - Choosing the right research balancing our portfolio





- Developing the research nurse role
 - permanent contracts (majority not yet 100%)
 - formal remuneration for OOH
 - progression structure
 - Management structure
 - Supervision





- Role clarification
- Practice standards
- Induction
- Competencies
- Specific training relating to Critical care research nursing for network role out
- Back to the floor days
- Mixed model roles full-time, part-time, 50:50 (both clinical or academic)





- Meaningful oversight
- Significant interest in our posts
- Progression for team members clinical, research and academic
- PhD and academic fellowships
- Year on year improvement in performance metrics
- 8am to 8pm weekday service with 24/7 on-call



- Defend role of critical care experienced nurses in research delivery
- Critical Care nurses involved in protocol design
- Routine collaborator status for research nurses
- More creative, mixed posts to promote professional development
- Critical care research nurses taking PI role
- National networking















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The impact and challenges of research in the critical care setting

THE LANCET	THE LANCET
Volume 261, Issue 6749, 3 January 1953, Pages 37-41	"The arms exclude the trans- parallel are not an exclude consequence of the second second second second consequences of the second second second second consequences are second second second second second consequences are second
	Der Ber Ber Ber Ber

Special Articles

A PRELIMINARY REPORT ON THE 1952 EPIDEMIC OF POLIOMYELITIS IN COPENHAGEN WITH SPECIAL REFERENCE TO THE TREATMENT OF ACUTE RESPIRATORY INSUFFICIENCY

H.C.A. Lassen M.D. Copenhagen (PROFESSOR OF EPIDEMIOLOGY IN THE UNIVERSITY OF COPENHAGEN ; CHIEF PHYSICIAN, DEPARTMENT FOR COMMUNICABLE DISEASES, BLEGDAM HOSPITAL, COPENHAGEN)





AND THE ACUTE RESPIRATORY DISTRESS SYNDROME

THE ACUTE RESPIRATORY DISTRESS SYNDROME NETWORK*

 Table 3
 The Ventilator Bundle—introduced by Patient Safety First,

 a national campaign launched in June 2008

Elevation of the head of the bed to between 30° and 45° Daily 'sedative interruption' and assessment of readiness to extubate Peptic ulcer disease prophylaxis Venous thromboembolism prophylaxis



CRASH trial collaborators

Effect of intravenous corticosteroids on death within 14 days in 10 008 adults with clinically significant head injury (MRC CRASH trial): randomised placebo-controlled trial.

Lancet. 2004; 364: 1321-1328

Curr Opin Crit Care. 2002 Dec;8(6):594-9.

Critical care without walls.

<u>Hillman K</u>¹.

ORIGINAL ARTICLE FREE PREVIEW

A Randomized Trial of Epinephrine in Out-of-Hospital Cardiac Arrest

Gavin D. Perkins, M.D., Chen Ji, Ph.D., Charles D. Deakin, M.D., Tom Quinn, M.Phil., Jerry P. Nolan, M.B., Ch.B., Charlotte Scomparin, M.Sc., Scott Regan, B.A., John Long, Anne Slowther, Ph.D., Helen Pocock, M.Sc., John J.M. Black, M.B., B.S., Fionna Moore, M.B., B.S., <u>et al.</u>, for the PARAMEDIC2 Collaborators^{*}

Ozdemir BA, et al (2015). Research activity and the association with mortality. PLoS One; 10: e0118253. DOI: 10.1371/journal.pone.0118253.