The role of the clinical research nurse


Abstract
With increased emphasis on clinical research within the NHS, it is vital that training and educational opportunities are available to enable clinical research nurses to progress in their careers. This article describes the work of the clinical research nurse and examines the advantages and disadvantages of the role. It discusses the history of clinical research nursing and those aspects and guidelines that have shaped the way the role has developed. The lack of a career pathway for nurses who decide to pursue a career in nursing research and/or medical research is considered, and suggestions are made regarding the future of clinical research nursing and education.

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The synthesis of art and science is lived by the nurse in the nursing act

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CRNs may also manage observational studies in which inferences are drawn or hypotheses tested through non-interventional methods; here, events are often simply observed and described as they occur naturally. One example of an observational study involves the discreet but overt observation of contact between multidisciplinary staff and patients’ relatives in the critical care unit to understand current practice and uncover similarities and differences in multidisciplinary team members’ communication styles. In this way, helpful and unhelpful aspects of staff members’ interactions with family members can be identified and staff members’ awareness of these may be subsequently improved through education and training. In this type of study, the CRN’s role would be to observe and document discussions, make note of body language and identify salient themes through analysis of the data.

The CRN’s main responsibility is to co-ordinate day-to-day trial management and to ensure studies are conducted in line with relevant legislation, research protocols and guidelines. CRNs possess a high degree of autonomy and have a high level of patient contact, with their communication and practical skills being used constantly. The role of the CRN is vital, although the specific skills required can vary according to the type of study conducted. The most common skills and responsibilities include screening, recruitment and obtaining informed consent from patients and/or relatives; administration of the intervention being studied; monitoring participants and performing some laboratory work; collecting data and reporting any adverse events; and general management of the trial, including maintenance of study files and resolving data queries.

Essential aspects of an experienced CRN’s role include communicating with study sponsors and training and supervising nursing, medical and new research team members. These CRNs also work on regulatory procedures, such as obtaining approval for a study from an appropriate NHS research ethics committee and gaining insight into the internationally agreed guidelines that govern the way in which clinical trials are conducted. As they are in an ideal position to instigate change from the frontline, more experienced CRNs may develop their own research questions, devise study protocols and conduct their own studies.

**Recent history of clinical research nursing**

Over the past decade government and national research bodies, such as the Department of Health (DH) and National Institute for Health Research, have encouraged suitably qualified nurses to consider clinical research nursing. The DH published *Making a Difference* in 1999, which aimed to strengthen training and education for nurses and establish new career pathways, and *Towards a Strategy for Nursing Research* (DH 2000), which recognised that as a significant part of the NHS workforce nurses should be encouraged to become actively involved in research. At the time these documents were written, however, the number of nurses with research skills and qualifications was unknown and recommendations of how many should be working in this capacity were not made. Interestingly, the number of CRNs working in the NHS is still not known.

In 2004, the UKCRC was formed with the aim of re-establishing the clinical research environment in the UK. The UKCRC is a national partnership of health-related research funding bodies, academic organisations, the NHS, regulatory bodies, the bioscience, healthcare and pharmaceutical industries, and patients. An initial aim of the partnership was to address the fact that conducting research was much more difficult than it needed to be, despite the NHS recognising that as a significant part of the NHS workforce nurses should be encouraged to become actively involved in research. At the time these documents were written, however, nurses with research skills and qualifications was unknown and recommendations of how many should be working in this capacity were not made. Interestingly, the number of CRNs working in the NHS is still not known.

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In their research careers, which can affect their consideration to run multiple studies early in their CRN role after years of clinical experience. Challenges remain. Nurses may enter the clinical research field for patients, both now and in the future. The benefits of being a clinical research nurse are many rewards, such as the awareness that the research he or she is conducting is likely to have a positive benefit for patients both now and in the future. The role of a CRN is intellectually demanding, which encourages personal development and a desire for knowledge. CRNs possess many skills that are highly respected by fellow healthcare professionals (including medical staff) and develop skills associated with essential patient care. Performing laboratory techniques such as centrifugation (a process used to separate cells and plasma) alongside analytical skills such as quantitative and qualitative data analysis are additional competencies developed in the CRN role. CRNs work autonomously, take on managerial responsibilities — those in senior positions are often in charge of a financial budget — and collaborate closely with clinical and academic staff, as well as with study sponsors and pharmaceutical companies, all of which enhance the individual’s communication capabilities.

As teaching is fundamental to the smooth running of research studies, public speaking and general teaching skills are developed and consolidated. CRNs help to develop cohesion between nursing, medicine and science. Specialist knowledge of research methodologies, and the provision of support and education for multidisciplinary staff, assist in closing the historical hierarchical gap between nursing and medicine. The ultimate reward for the CRN is the awareness that the research he or she is conducting is likely to have a positive benefit for patients both now and in the future.

Benefits of being a clinical research nurse

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Challenges associated with clinical research nursing

Although the CRN’s role brings many rewards, some challenges remain. Nurses may enter the CRN role after years of clinical experience to find themselves running multiple studies early in their research careers, which can affect their self-confidence and lead them to question their decision to leave clinical care. Lack of job descriptions and inappropriate line management have also been described as issues for CRNs (Pitt 2011). Occasionally clinical colleagues from other disciplines appear not to understand the nature of the research. They may perceive the CRN’s role as attempting to direct medical treatment and so undermine the treating physician’s authority. This can lead to role conflict; for example, in wanting to alter a patient’s planned care, the treating physician may go against an agreed research protocol (Hill and MacArthur 2006). In these situations, the CRN needs to be clear about his or her role and retain the essence of why the research is being undertaken, which is to enable better treatment for patients.

NHS trusts are beginning to recognise the need to structure research nursing careers to improve the safety and quality of research, but they also admit that provision of and access to training, education, management, support, supervision and career progression is not readily available (UKCRC 2007). Many CRNs are employed on fixed term contracts, leading to concerns about job security. Some trusts may not fund nurses’ further study if they have little continuous service, therefore applications for funding and study time can be rejected.

The future

It is debateable whether more than a decade of reports and proposals that advocate the importance of clinical research nursing and training to support this career structure has led to improved access to opportunities and education for CRNs. Organisations in the UK are beginning to enable nurses’ to obtain postgraduate qualifications such as a master’s degree in research, which is one positive step towards the provision of education for CRNs with significant research nursing experience. However, a challenge for less experienced CRNs is developing a basic understanding of the different approaches, principles and methodologies of research studies. Obtaining this knowledge while running studies in full-time employment is challenging and the decision of where to start can be daunting.

Although CRNs need to take personal responsibility to search for funding for courses, changes and developments are gradually making access to education easier. Of the minimal number of qualifications available, few have been relevant for nurses new to the CRN role. With increased emphasis on clinical research in the NHS, it is
vital that training and educational opportunities are available to enable CRNs to progress in their careers. However, there are few courses in the UK that provide research methods training and academic recognition for research nurses who are new to the CRN role. It is hoped that in time more courses will be developed to enable more CRNs to take advantage of training while they work. As postgraduate qualifications are becoming more commonplace through postgraduate certificate, diploma and master’s programmes, they should be considered as an integral aspect of the CRN career pathway.

One of the authors, Claire Louise Gibbs, was keen to embark on a postgraduate research methods course to improve her knowledge, skills and understanding of conducting health-related research and was able to undertake a Postgraduate Certificate in Research Methods for Social Science and Health at King’s College London after securing a fully funded research scholarship from the Florence Nightingale Foundation.

Conclusion
The role of the CRN is diverse, rewarding and challenging. Managerial tasks and communication with participants, colleagues and study funders must be undertaken alongside the more familiar tasks of patient care and data collection. Assertiveness, determination and commitment are required to maintain high standards of clinical research, patient care and job satisfaction. Government and NHS trusts are beginning to realise the importance of such nursing roles; however, access to education, training and funding remains limited. Typical research contracts last for 12 months and a lack of continuous service with an NHS trust can lead to rejections for funding and study requests. The availability of funding and high-quality postgraduate education are two vital steps in increasing the competence of CRNs, new and experienced alike.

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Further information on the Postgraduate Certificate in Research Methods for Social Science and Health at King’s College London is available from http://tinyurl.com/7rcbbpf

References


