

**Title:** Application of Telehealth and Telecare to Support Home Care of Cancer Patients

**Interdisciplinary research project in the School of Computing and Information Systems, School of Pharmacy and Chemistry and the and Faculty of Health, Social Care and Education, Kingston University.**

**Proposal outline:**

Improving the quality of cancer care in the UK is a key health policy objective. One of the aims is to improve patient experience and optimise the safe delivery of cancer related treatment by reducing the need for patients to travel long distances to receive treatment. This can be achieved through a patient focused strategy whereby high quality cancer treatment can be safely delivered close to where patients live and through service improvement and development to optimise use of oncology related medicines. The aims of the project are to improve remote monitoring and' quality of life of cancer patients and hence reduce healthcare costs. In this research, the use of telehealth and telecare will be examined in order to design and develop a hub system that provides support for patients receiving chemotherapy at home. The patient hub services will include teleconsultation via secure real time video conferencing, real time counselling and dealing with side effects of received treatment, real time remote monitoring of the patient's condition, provision of social support and assessment of treatment infusion pump condition. The study will also consider the feasibility of integrating this service into the conventional care pathway of cancer patients receiving home chemotherapy. The performance of the proposed service will be evaluated in a healthcare setting. This interdisciplinary project is suitable for a graduate in Life Sciences, Pharmacy, Computer Science, Engineering, Mathematics or equivalent degree.

**Director of Studies:** Nada Philip.

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