



School of Pharmacy PhD Projects 2014

Project Title The Design and Manufacture of Fixed Dose Combination Products

Supervisors Dr. Gavin Andrews & Prof. David Jones

Description Global life expectancy has increased significantly over the last half century. Recent estimates suggest that on average, life expectancy reaches 80 years, a gain of more than 10 years since 1960 [1]. It is well accepted that placing greater emphasis on public health and disease prevention, and improving the quality and performance of health care systems, can achieve further progress in life expectancy. Chronic (non-communicable) diseases including cancer, cardiovascular diseases, chronic respiratory conditions and diabetes, are now the main causes of disability and death in developed countries. The treatment of such disease often requires patients to take multiple medications, which can cause a reduction in patient compliance. Consequently, there is definite need for drug platforms capable of delivering multiple compounds in a single administration. In providing such, patient compliance, clinical outcomes and management of chronic diseases may be improved. Through the use of advanced engineering technologies that have been developed at Queen's University Belfast, fixed dose oral dosage forms will be manufactured and characterized during this PhD project. This project is positioned at the rapidly developing interface between pharmaceutical and chemical engineering technologies and is applied to manufacture innovative delivery platforms tackling a major health problem.

Start Date October 2014

Keywords Fixed Dose Combinations, Oral Dosage Forms, Cardiovascular disease

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How to Apply

Postgraduate applications should be made using Queen's Online:

<http://go.qub.ac.uk/pgapply>

Please note that there are two application processes: one for admission to the university and another for postgraduate awards.

Further Information

Additional information for prospective postgraduate students can be found on the School of Pharmacy website:

<http://www.qub.ac.uk/pha>

and the Queen's Postgraduate website:

<http://www.qub.ac.uk/home/ProspectiveStudents/PostgraduateStudents/>