

Science and Technology in Medicine



Research Project Proforma (School of Medicine)

Research Title:	Long-term Effects of Pregnancy Complications of Maternal and Fetal Health
Keywords (up to 5)	High risk pregnancy, Perinatal health
Supervisor:	Dr Pensee Wu
Job Title:	Honorary Consultant Obstetrician, Lecturer in Obstetrics and Gynaecology
Department:	Department of Obstetrics and Gynaecology
Email Address:	p.wu@keele.ac.uk
Telephone:	01782 674387
Webpage link:	https://www.keele.ac.uk/istm/staff/penseewu/
Type of projects offered (delete as appropriate)	Intercalation (1 year) / Studentship (4-8 weeks) /Both

(1) Outline the broad aims of your research and its medical relevance (150 words):

High risk pregnancies are becoming more common due to advances in medicine and women conceiving later in life. This leads to unique challenges in obstetrics. For example, essential hypertension and raised body mass index are more frequently observed in older women. It is known that pregnancy complications can predict a woman's health later in life, e.g. a woman who had gestational diabetes is more likely to develop type 2 diabetes in the future. Furthermore, the intrauterine environment affects the baby's long-term health, e.g. the offspring of a diabetic mother is more likely to also develop diabetes.

This research project aims to look at the link between pregnancy complications with the health of the mother and baby, through database linkages. By finding a causal link, we may be able to implement changes, such as lifestyle modifications or careful follow-ups, to improve the health of the mother and/or the baby.

(2) Indicate the skills/techniques the student will learn (100 words)

Literature appraisal, conducting systematic review, using databases and basic medical statistics.

Please submit this form electronically to Prof Divya Maitreyi Chari on d.chari@keele.ac.uk by 31 July 2015