



The research commercialisation office of the University of Oxford, previously called **Isis Innovation**, has been renamed **Oxford University Innovation**

All documents and other materials will be updated accordingly.
In the meantime the remaining content of this Isis Innovation document is still valid.

URLs beginning www.isis-innovation.com/... are automatically redirected to our new domain, www.innovation.ox.ac.uk/...

Phone numbers and email addresses for individual members of staff are unchanged

Email : enquiries@innovation.ox.ac.uk

Adoption of Telehealth in Gestational Diabetes Care

Improved management of diabetes during pregnancy with reduced risks to mother and baby and its roll out and adoption through the Oxford AHSN.

Up to 18 in every 100 pregnant women develop diabetes; untreated, this can lead to complications for mother and baby before and after birth. Careful monitoring of mother's blood sugar levels is vital and standard practice is for the mother to record her levels up to six times a day with fortnightly visits to hospital.



Professor Lionel Tarassenko and his team at the University of Oxford have developed a Bluetooth-enabled blood glucose meter and smart phone app (GDm-health) enabling patients to pass on readings in real-time via a secure internet link. Data are reviewed by diabetes specialists who can swiftly connect the patient to treatment if needed. The result is better management and fewer tiring, time consuming and expensive hospital appointments

Benefits to both patient and provider

GDm-health was used in an initial trial with 52 pregnancies led by Dr Lucy MacKillop, Consultant Obstetric Physician at the Oxford University Hospitals NHS Trust.



- Participants rated the technology as reliable, convenient and suited to their life styles.
- A patient commented "it was handy to know that I was in constant touch with somebody, and that I would get a message if there was something to worry about.
- App usage increased efficiency, freeing up 25% more specialist clinical capacity.
- If rolled out nationally, App use could generate cost savings of up to £14m each year.

Roll out and adoption through the Oxford AHSN

Oxford AHSN helped the award-winning project, a collaboration between the University of Oxford and Oxford University Hospitals, extend to hospitals in Reading and Milton Keynes. The work was led through the Clinical Innovation Adoption Programme of the AHSN. Others are following suit.

A randomized controlled pilot trial involving 200 patients is underway with funding from the NIHR funded Oxford Biomedical Research Centre.



Ms Tracey Marriott

Director of Clinical Innovation Adoption,
Oxford Academic Health Science Network
tracey.marriott@oxfordahsn.org

