Helix Centre

Imperial College London

Principle Investigator:
Professor Ian Maconochie

Coordinating centre:
Helix Centre, Imperial College London

We are an interdisciplinary team of clinicians, designers, technology developers and researchers. We use human-centred design to rapidly evolve clinically-evaluated digital solutions for healthcare.

helixcentre.com

TouchDose Team
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If you would like to know more about TouchDose you can talk to the doctors and nurses caring for your child, or speak to the local research nurse on XXXXXXXX

You can also visit our website, scan the QR code on a smartphone or visit: http://stmarys.touchdose.uk

Contact the coordinating centre:

touchdose@helixcentre.com

020 3312 5525

IRAS number XXXXXXX

Study by:

Helix Centre

Imperial College London

Imperial College Healthcare **NHS**

Funded by:

Funded by
NIHR
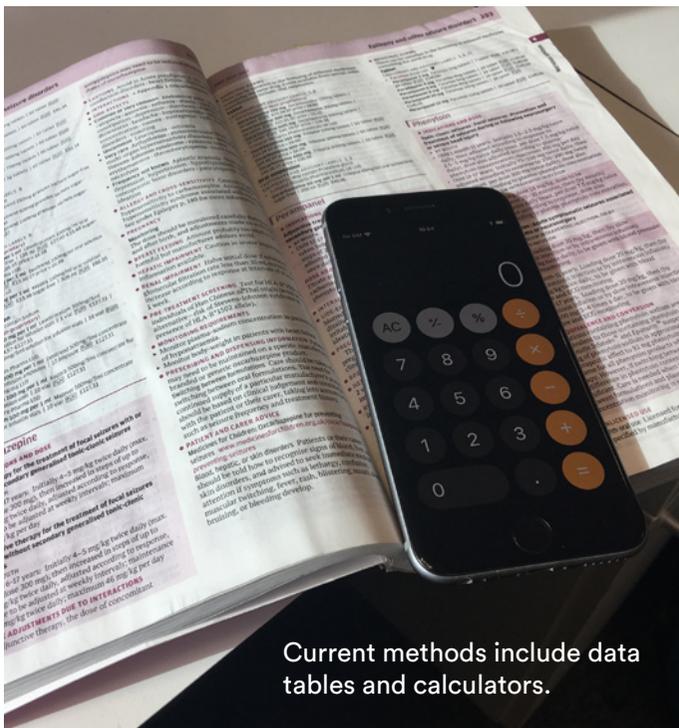
In partnership with:

BNF for Children

ROYAL PHARMACEUTICAL SOCIETY

TouchDose study

Study information leaflet for families and carers of children admitted to the children's inpatient Great Western and Short Stay ward.
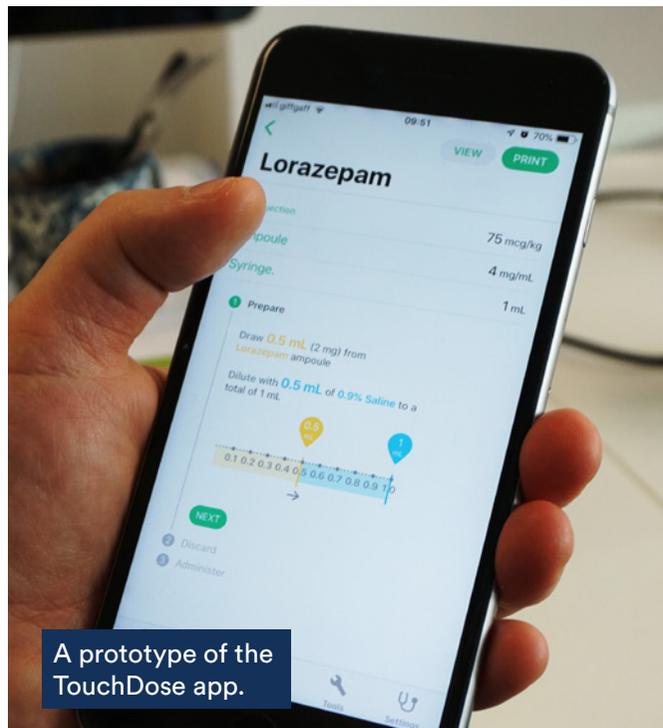
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Current methods include data tables and calculators.

A prototype of the TouchDose app.

The TouchDose app prints customised syringe labels.

The TouchDose Study

In paediatrics, intravenous (IV) medications need to be prepared on-demand according to the age and weight of the child. This is a complex and time-consuming process and we know that no matter how good the doctors and nurses are and how carefully they do this, mistakes are made.

TouchDose is a smartphone and tablet app that aims to make delivering IV medication safer and faster. Preliminary results from a pilot study showed evidence for this. Importantly, TouchDose does not change what medication the child will be given, it simply aims to improve the giving of the medications by providing clear guidance to the doctors and nurses.

The aim of the TouchDose study is to investigate the use of the app to determine whether it improves safety and performance.

What will happen?

Research nurses from the study will observe doctors and nurses on the ward as they prepare and give IV medication and collect data for the study. Initially, clinical staff will be monitored as they use current methods and then as they use the TouchDose app, once they have been adequately trained. Data from the two periods will be compared. If the app is found to reduce medication error and preparation times, we will continue developing the app and promote it to other wards.

What information is collected?

We will record the medication given and details on how it was given so you may see the research nurse at the bedside. Information on the child including, age, weight, name and hospital ID number will also be captured. See http://stmarys.touchdose.uk for a full list.

How will the information be managed?

The information will be securely transferred and stored. Any analysis and public reporting will only use anonymized information. The name, hospital ID number or other personal details of the child will only be available to NHS medical staff who should have access and will be kept strictly confidential. Personal details are needed for the app to function and create personalised medication guidance.

Does my child need to be included?

No. If you do not want us to collect your child's information for the study, you can inform your nurse or doctor at any time and this will be recorded in your child's medical notes. If the study information has already been collected, it will be identified, stored separately and securely and will not be used for research purposes. It will only be accessed by the research nurse.