

# Assessing effectiveness of an e-learning tool to aid junior doctor management of febrile children

<b>Submission date</b> 08/08/2012	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 09/08/2012	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
<b>Last Edited</b> 04/04/2016	<b>Condition category</b> Other	<input type="checkbox"/> Individual participant data

## Plain English summary of protocol

### Background and study aims

There are many educational programmes aimed at improving the clinical practice of health care professionals. A number of these programmes are delivered using an online platform (eLearning). Determining how beneficial they are is difficult as measuring how well someone is learning is often based on opinion. In this study, a group of junior doctors will undertake an online learning package focusing on dealing with young children with fever. They will all have various aspects of their practice assessed by questionnaire, knowledge testing and direct observation of their consultations. These methods will be analysed to decide which is most suitable for deciding whether the learning package is useful. The aim of this study is to create a system to test the effectiveness of e-learning packages for health care professionals.

### Who can participate?

Junior doctors in their first or second year.

### What does the study involve?

Participants are asked to complete an online questionnaire and a knowledge test based on video clips of potentially unwell children in the next week. They are then be given access to an e-learning package which will take approximately 45 minutes to complete. This can be undertaken at work or at home. On completion they will be asked to repeat the questionnaire and knowledge test.

### What are the possible benefits and risks of participating?

Participants benefit from receiving individual feedback about their results and given the opportunity to discuss their experiences. There are no risks involves with taking part in this study.

### Where is the study run from?

University of Leicester (UK)

When is the study starting and how long is it expected to run for?  
August 2012 to February 2013

Who is funding the study?  
National Institute for Health Research (UK)

Who is the main contact?  
Dr Damian Roland

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Damian Roland

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LE1 5WW

## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

**Secondary identifying numbers**  
11696

## Study information

**Scientific Title**  
REfining evaluation Methodologies for InTerventions that change practice (REMIT): A model to assess the effectiveness of an e-learning tool in improving the management of febrile children by junior doctors

**Acronym**  
REMIT

## **Study objectives**

There are many educational programmes aimed at improving the clinical practice of health care professionals. A number of these programmes are delivered via information technology systems and described as e-Learning. Determining how beneficial they are is difficult as educational outcomes are not always objective or easily measurable.

This study will create a system to test the effectiveness of e-learning packages for health care professionals. A group of junior doctors will undertake an online learning package on dealing with young children with fever. They will all have various aspects of their practice assessed by questionnaire, knowledge testing and direct observation of their consultations.

These methods will be analysed to decide which is most suitable for deciding whether the learning package is useful.

More details can be found at <http://public.ukcrn.org.uk/Search/StudyDetail.aspx?StudyID=11696>

## **Ethics approval required**

Old ethics approval format

## **Ethics approval(s)**

NRES Committee East Midlands 1, 02 June 2011 ref: 11/EM/0186

## **Study design**

Non-randomised interventional trial

## **Primary study design**

Interventional

## **Secondary study design**

Non randomised study

## **Study setting(s)**

Hospital

## **Study type(s)**

Quality of life

## **Participant information sheet**

Not available in web format, please use the contact details below to request a patient information sheet

## **Health condition(s) or problem(s) studied**

Injuries and Emergencies, Paediatrics, Critical Care

## **Interventions**

There are many educational programmes aimed at improving the clinical practice of health care professionals. A number of these programmes are delivered via information technology systems and described as e-Learning. Determining how beneficial they are is difficult as educational outcomes are not always objective or easily measurable. This study will create a system to test the effectiveness of e-learning packages for health care professionals. A group of junior doctors will undertake an online learning package on dealing with young children with fever. They will all

have various aspects of their practice assessed by questionnaire, knowledge testing and direct observation of their consultations. These methods will be analysed to decide which is most suitable for deciding whether the learning package is useful.

The e-learning package involves viewing a selection of short video clips which describe the components of the NICE Feverish illness in Children Traffic Light Table. They undertake this exercise (lasts no more than hour) following the pre-questionnaire and test within 2 weeks of starting their new attachment in the Emergency Department. Following completion of the e-learning package they undertake a post-intervention questionnaire and assessment. The e-learning package and questionnaire can be completed at home or at work.

**Intervention Type**

Other

**Phase**

Not Applicable

**Primary outcome measure**

Participant satisfaction is measured using a validated online questionnaire at baseline and following completion of the e-learning package

**Secondary outcome measures**

1. Participant behaviour measured using a guideline adherence matrix at baseline and following completion of the e-learning package
2. Participant knowledge measured using an online test at baseline and following completion of the e-learning package

**Overall study start date**

01/08/2012

**Completion date**

01/02/2013

**Eligibility****Key inclusion criteria**

For Focus Group:

Junior Doctor ST2 or below

For observation pilot testing and main study:

Although the children are not being studied directly themselves the observation of a doctors performance will be on children less than 5 years old who present with a fever or parent reported history of a fever.; Male and female participants

Aged 18 - 60 years

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

18 Years

**Sex**

Both

**Target number of participants**

UK Sample Size: 100

**Key exclusion criteria**

Junior doctor in possession of any part of the MRCPCH

**Date of first enrolment**

02/08/2012

**Date of final enrolment**

03/03/2013

## **Locations**

**Countries of recruitment**

England

United Kingdom

**Study participating centre**

**University of Leicester**

Leicester

United Kingdom

LE1 5WW

## **Sponsor information**

**Organisation**

University of Leicester

**Sponsor details**

Department of Cardiovascular Sciences

Leicester Royal Infirmary

Infirmary Square

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United Kingdom

LE1 5WW

**Sponsor type**

University/education

**Website**

<http://www.le.ac.uk/>

**ROR**

<https://ror.org/04h699437>

## Funder(s)

**Funder type**

Government

**Funder Name**

NIHR Doctoral Research Fellowship (UK)

## Results and Publications

**Publication and dissemination plan**

Not provided at time of registration

**Intention to publish date****Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Not provided at time of registration

**Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>	results	04/11/2015		Yes	No