

## Interactive Medical Devices Worksop - 10th June - UCL, London

- 0915 - 0930:** *Coffee*
- 1000 - 1030:** First Session – Progress towards safer medical device design  
Devices don't detect errors: what if they could?  
**Harold Thimbleby** (FIT Lab)  
"Out by ten" errors (e.g., infusing 50mg rather than 5mg) are notorious for causing adverse events. We show that a proportion of them can be blocked.
- 0930 - 1000:** Introduction  
**Ann Blandford** (UCLIC)  
...in which everyone is welcomed to UCL and introduces themselves and their interests in the topic of human error and medical devices.
- 1030 - 1045:** Goal-based safety cases for medical devices  
**Mark-Alexander Sujan** (Warwick)  
I will outline the concept of safety cases as known from high-risk industries and propose to explore their use as a communication and safety assurance tool for medical devices.
- 1045 - 1115:** *Coffee*
- 1115 - 1200:** **Elevator pitch activity**  
Second Session – Risks and supporting users
- 1200 - 1215:** Interactive control panels in medical devices  
**Chitra Acharya** (FIT Lab)  
An analysis of potential hazards and risks in the design of interactive control panels in medical devices.
- 1215 - 1230:** Design of infusion rate calculator tools for intravenous therapy  
**Paul Lee** (Singleton Hospital)  
Nurses often lack confidence in carrying out basic infusion rate calculations. I describe some of the tools developed to help reduce the chances of accidental error.
- 1230 - 1345:** *Lunch*  
A buffet lunch will be provided.  
Third Session – Reducing the opportunities for error
- 1345 - 1415:** Design for Patient Safety at the Helen Hamlyn Centre  
**Jonathan West, Grace Davey, and Ed Matthews** (HHC)  
Presenting an overview of design work and current initiatives to reduce medical error in the hospital and in emergency care.
- 1415 - 1430:** How can we make routine procedural tasks safer?  
**Jonathan Back** (UCLIC)  
Changes to the interaction design of devices can often reduce or even remove the likelihood of slip errors, whereas training often has little effect.
- 1430 - 1500:** *Coffee*  
Fourth Session – Barriers to improvement
- 1500 - 1600:** **Further discussion and case study**  
...in which we draw out key themes and contrasts from the talks of the day.
- 1600 - 1630:** The MATCH and RIGHT programmes  
**Terry Young** (Brunel)  
Poor coupling: Healthcare finds itself caught between two innovation cycles – service improvement and device invention.
- 1630 - 1645:** Wrap-up  
**Ann Blandford** (UCLIC)  
...in which we discuss the next steps and recruit volunteers for the next meeting.
- 1645 -** *Social outing*

## Interactive Medical Devices Workshop

### List of participants:

Chitra Acharya (Swansea)	chitra.ramnath@gmail.com
Maartje Ament (UCLIC)	ucjtmga@ucl.ac.uk
Jonathan Back (UCLIC)	j.back@ucl.ac.uk
Ann Blandford (UCLIC)	a.blandford@ucl.ac.uk
Duncan Brumby (UCLIC)	brumby@cs.ucl.ac.uk
Paul Curzon (QMUL)	pc@dcs.qmul.ac.uk
Grace Davey (HHC)	grace.davey@network.rca.ac.uk
Mark Davies ()	
Parisa Eslambolchilar (Swansea)	p.eslambolchilar@swansea.ac.uk
Sarah Faisal (UCLIC)	s.faisal@cs.ucl.ac.uk
Dom Furniss (UCLIC)	d.furniss@ucl.ac.uk
Steve Gill ()	
Robin Green (Swansea)	r.green@swansea.ac.uk
Chris Janssen (UCLIC)	c.janssen@ucl.ac.uk
Paul Lee (Singleton Hospital)	paul.lee@swansea-tr.wales.nhs.uk
Ed Matthews (HHC)	ed.matthews@rca.ac.uk
Astrid Mayer (Royal Free Hospital)	a.mayer@ucl.ac.uk
Patrick Oladimeji (Swansea)	p.oladimeji@swansea.ac.uk
Tom Owen (Swansea)	itrtowen@googlemail.com
Rimvydas Ruksenas (QMUL)	rimvydas@dcs.qmul.ac.uk
Mark-Alexander Sujan (Warwick)	m-a.sujan@warwick.ac.uk
Harold Thimbleby (Swansea)	harold.thimbleby@googlemail.com
Jonathan West (HHC)	jonathan.west@network.rca.ac.uk
Max Wilson (Swansea)	m.l.wilson@swansea.ac.uk
Terry Young (Brunel)	terry.young@brunel.ac.uk