

## The Official PART Newsletter

### Donate your smartphones!

Please consider donating your old smartphones (iPhone, iPodTouch, Android) to the PART. Instead of sitting in your cupboards at home collecting dust, we can use these devices for our research projects. Donation receipts available.

### September 2012

#### LGTmedical

With the success of the Phone Oximeter, the PART and ECEM are working with Race Rocks Management Inc and formed a spin-off company; LionsGate Technology Inc (LGTmedical - <http://lgtmedical.com/>). LGTmedical will work on the commercialization aspects of bringing low cost mobile health (mHealth) products to market for consumer and clinical use.



*PART models for LGTmedical ©*

#### ED published

We are pleased to announce the acceptance for publication of "Emergence delirium in children: A randomized trial to compare total intravenous anesthesia with propofol and remifentanyl to inhalational sevoflurane anesthesia" (aka ED) in the journal *Pediatric Anesthesia*. This study required the collaboration of many people; as such, we wanted to extend our thanks to the staff of the Surgical Day Care Unit, OR, Anesthesia, and the Post Anesthetic Care Unit! Congratulations to everyone!

### The Big Move

After many years of the team being separated all throughout the hospital building and on UBC campus, we have brought everyone together into the brand new Clinical Support Building (CSB) (948 W. 28<sup>th</sup> Avenue), adjacent to the main CFRI buildings. The ECEM members from UBC campus have also joined us on site allowing for even more close collaborations and teamwork to take place. We're looking forward to settling in our new home! Come visit us on the 3<sup>rd</sup> (upper) floor!



*Our new home in the CSB*

### August 2012

#### Thanks Eleanor!

The PART would like to extend a warm thanks to Eleanor Reimer for her continued and extended support of all research activities as the Head of the Department of Anesthesia. As Eleanor steps down, we welcome Norbert Froese as the new Department Head at BCCH!

#### Engineering in Medicine & Biology Conference

Members of PART and ECEM travelled to San Diego, USA to participate in and present at the annual IEEE Engineering in Medicine and Biology Society (EMBS) conference. This international gathering brings together the latest innovators in biomedical engineering. It was also a chance to visit with our South African collaborators, Cornie Scheffer and Garth Cloete.

## July 2012

### Going Global!

Studies with the Phone Oximeter and accompanying mobile applications are debuting around the world: Bangladesh, India, South Africa, and Uganda. Clinical data collection has begun at multiple sites throughout the world. The data from these studies will help in our research and development of algorithms and applications for helping children in these resource-poor parts of the world.



South African kids at a daycare on a farm

### CFRI Trainee Social

Congratulations to our team (Parastoo Dekhordi, Ainara Garde, Heng Gan, Matthias Gorges, Walter Karlen, Klaske van Heusden) for coming in 2<sup>nd</sup> place at the CFRI Trainee Social dart competition 😊 Who knew we had such fine athletes amongst us!

### Feature Study

NOSA

Gillian Lauder, Nick West, and co-investigators continue with their study entitled “Naloxone for the Treatment of Opioid-Induced Pruritus: A Double-Blind, Prospective, Randomized, Controlled Study” (aka NOSA). The range of patients eligible to participate in the NOSA study has been extended, following the hospital-wide implementation of standard opioid concentrations this summer. The study, which examines the effect on pruritus (itching) of adding a low-dose of naloxone to post-operative intravenous morphine infusions, was previously limited to patients receiving patient controlled analgesia (PCA). We are now also recruiting children receiving continuous opioid infusions (COI) of morphine and our first COI patient has already participated. This change will speed up recruitment to the study, which we are now hoping to finish by the end of this year. Contact Nick West ([nicholas.west@cw.bc.ca](mailto:nicholas.west@cw.bc.ca)) for more information.

## Meet a Team Member

*Peter Chen (Junior Software Developer)*

Peter joined the PART in July 2012 as a software developer. As many of our projects require some “app” development, we needed another team member to help out in this area. Peter recently graduated from UBC and we have greatly benefited since he has joined the team.



Peter Chen – PART Software Developer

## Current Studies

*Actively recruiting clinical studies*

Please check out our website [www.part.cfri.ca](http://www.part.cfri.ca) for an updated list of our current clinical and biomedical engineering studies.

## Websites of Interest

*Phone Oximeter*

<http://phoneoximeter.org> for the latest information on the Phone Oximeter project.

*Electrical and Computer Engineering in Medicine*

<http://ecem.ece.ubc.ca> for information on our engineering projects.

## Upcoming @ PART

*What's happening October – December 2012?*

### Research Meetings

*First and third Tuesday of every month at 1pm in the CSB room V3-302*

October 2 & 16, November 6 & 20, December 4 & 18

### 7am Research Rounds

October 24, November 21, December 19

### Upcoming Deadlines

UBC C&W Research Ethics Board (REB) submission deadlines are October 10, November 14, November 29.

