

# Centre for Global ehealth Innovations

See evt.: <http://ehealthinnovation.org/>

The brainchild of Dr. Alex Jadad, the Centre was borne from the collaboration of a diverse group of researchers and scientists from the University Health Network (UHN) and the University of Toronto and established through the support of a \$2.2 million dollar grant from the Canada Foundation for Innovation.

A 15,000 square foot space at UHN was renovated and designated as the Centre's new home. When the doors first opened, the Centre's mandate was to 'innovate, not just for us, but for the world', and housed but twenty scientists, researchers, consultants and collaborators. The Centre started with four initiatives that primarily focused on how the Internet could be used by patients and clinicians to improve arthritis management and cancer care.

Today, the Centre has grown to accommodate over 70 researchers who focus on a broad range of subjects including healthcare safety, healthcare human factors, personal health information, health equity and innovation, medical informatics and telehealth across the continuum of care and across health industries.

In-depth investigations into healthcare technologies could not be completed at the Centre without appropriate tools and resources, primarily the usability labs. The usability labs, the only one of its kind dedicated to the realm of healthcare, allow investigators to mimic real-life healthcare scenarios in the safety of a laboratory. Technologies and innovations are tried, tested, and refined here before being introduced into real-world healthcare settings.

## Projects

- **Mitigating Risks Associated with Multiple IV Infusions**
- **breathe: A mobile asthma self-management application for consumers**
- **Health eConcierge**
- **Personal Computer Video Conference (PCVC) Project**
- **Role Optimization in Chronic Pain Management**

- **Education on Human Factors Principles**
- **eHealth Ontario: Improving Access to Clinical Applications**
- **Development of an Electronic Medication Information Transfer Tool (EMITT)**
- **Usability Testing of Insulin Pens and Cartridges**
- **Physiological monitors evaluation for procurement**
- **Usability evaluation of bar-coded medication administration systems**
- **Computed Tomography Radiation Safety**
- **Comparative usability evaluation of computerized physician order entry systems**
- **ACT4HEALTH**
- **Mobile C-arms Procurement**
- **Canadian Experience Un-conference (Canadian Experience: By Immigrants, With Immigrants, For Immigrants)**
- **Improving the Safety of Ambulatory Intravenous Chemotherapy in Canada**
- **Real Time Clinical Alerting with Decision Support**
- **Clinical Trial Module**
- **Toronto Central CCAC: Improving Community Care Access**
- **MD Sign-Out Tool**
- **Interprofessional Communication Tool**
- **Improving Clinical Communication with BlackBerry Smartphones**
- **Creating High-Quality Discharge Summaries**
- **Pan-Canadian data model & synoptic reporting solution**
- **Chemo Leaks**
- **Comparative Evaluation of IV PCA Infusion Pumps**
- **Bariatrics Program**
- **Patient-Centered Perspectives of Hospital Communication and Handover**
- **Failure modes and effects analysis of blood work checking in a chemotherapy environment: A capacity-building project**

- **bant – A diabetes app for the ePatient**
- **Chemotherapy daycare pharmacy workflow and workspace assessment**
- **Anesthesia Information Management System Procurement**
- **Human Factors Analysis of the Juravinski Chemotherapy Daycare Centre: An Observational Study**
- **Barriers to Adoption of Nocturnal Home Hemodialysis**
- **MedCIRCLE**
- **Internet-Based Support Services**
- **Impact of Internet Instructions on Men with Prostate Cancer Trial (I3MPACT)**
- **Mitigating Interruption Effects on High-Risk Procedures**
- **eRheum**
- **Magnetic Resonance Imaging Environment Safety**
- **eGUIDES: Electronic Guideline Usability and Information Design Evaluation Study**
- **Bullying Media Study**
- **Decision-making in Breast Cancer Patients: Information sources and credibility**
- **Mobile Point-of-Care Carts Procurement**
- **WebCite(R)**
- **Public eHealth Innovation & Equity in Latin America & the Caribbean (eSAC)**
- **Reducing surgical instrument count errors through the redesign of Instrument Count Sheets**
- **Chemotherapy daycare pharmacy workflow and workspace assessment**
- **Role of Open Access on Knowledge Translation**
- **The Safety of Admixture Work Processes for Parenteral Chemotherapy: A Pilot Study**
- **Smart Medication Delivery Systems**
- **Smartphones for Nurses**
- **Pan-Canadian Home Care Study**
- **O.R. Procedure Notes for Surgical Documentation and Synoptic Reporting**

- **Medicine 2.0**
- **Journal of Medical Internet Research (JMIR)**
- **Mixing safety and workload assessment: Implementing “one mix at a time” in oncology pharmacies**
- **A Database of Appraised Evidence in Augmentative and Alternative Communication (EVIDAAC)**
- **Medication Management and Safety in the Home**
- **Design Guidelines for Clinical Coding**
- **Image Capture System**
- **Enhancement of Critical Care Response Teams**
- **Hand Hygiene**
- **Comparative usability evaluation of systemic therapy computerized prescriber order entry systems**
- **In-Room HEPA Cleaners in Ontario Hospitals**
- **Baxa InFuse T10**
- **Mitigating interruptions during medication ordering and transcription**
- **Tablet Evaluation**
- **Remote Patient Monitoring System**
- **Bluetooth/USB Adapter for Medical Devices**
- **Telehealth Technology Applications**
- **Telehealth Education Series**
- **Wellocities**
- **Reducing Surgical Instrument Count Errors**
- **Mobile tele-monitoring system for chronic disease management**
- **Order Sets**
- **External Automatic Defibrillators: Evaluation and Comparison**
- **To Your Good Health**

- **CT scanner implementation at UHN**
- **The OPIMEC Project**
- **Evaluation of Mobile Technologies**
- **eDrugs: Evaluating the availability and impact of medications in cyberspace**
- **The Patient Safety Education Program (PSEP)**
- **Nocturnal Home Hemodialysis**
- **Independent Double-Checking of High-Risk Clinical Procedures**
- **Journey to Your Good Health: Youth Leadership**