

The Learning Health System in Europe

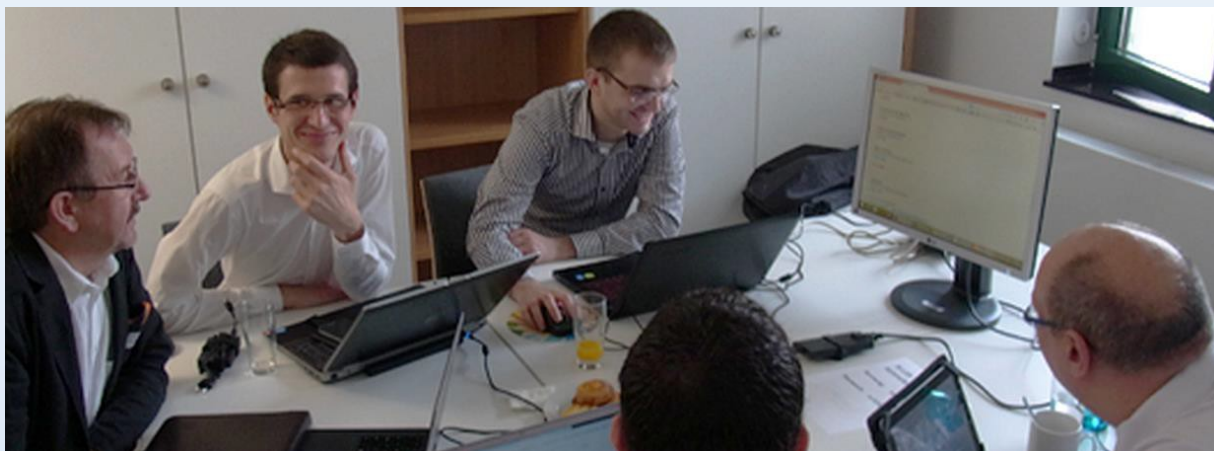


International conference

SEPTEMBER 24th & 25th 2015

Brussels, Belgium

TRANSFoRm



What is the Learning Health System?

The concept of a Learning Health System (LHS) was first created by the US Institute of Medicine in 2007. It is now being increasingly adopted in the US and around the world. The LHS is based on cycles that include data collection, analytics to generate clinical knowledge, and feedback of that knowledge in the form of decision support at the point of care. Based on a highly collaborative approach to share data and knowledge crossing boundaries of care and research as well as linking EHR and medical databases, the LHS drives medicine to better, more evidence based and safer patient care. At the centre of the LHS lays the capacity of continuous learning at all levels, with each stakeholder operating as a data provider, data consumer and in the end as a learner. In this way, the possibility for the continuously improvement of diagnosis and treatment as well as the whole cyclic system is provided.

Implementing the LHS in Europe: TRANSFoRm project

The underlying concept of TRANSFoRm is to develop a “rapid learning healthcare system” driven by an advanced IT infrastructure that can improve both patient safety and the conduct and volume of clinical research in Europe. FP7 TRANSFoRm is an EU funded large scale project, which aims to develop and evaluate a LHS for European Primary Care, with three areas of application: facilitation of multiple site genotype-phenotype studies, enabling multi-site, practice-based randomised clinical trials by embedding trial data management functionalities into EHR systems, and improvement of diagnosis by provision of a diagnostic decision support system linked to Electronic Health Records (EHR).

Links:

<http://www.transformproject.eu/>

Agenda Day 1

Thursday, 24 September 2015

09:00 – 10:20 Registration and Coffee

10:20 – 10:30 **Welcome**

Brendan Delaney, TRANSFoRm Project Coordinator
Dipak Kalra, EuroRec

1. Sustainability & Business Development in the LHS

10:30-10:45 **Business models and advanced simulation of sustainable outcomes** Danielle Dupont, Data Mining International; Dipak Kalra, EuroRec

10:45-11:00 **Sustainability obstacles and opportunities when operationalising the EHR4CR services in Europe** Georges De Moor

11:00-11:15 **A new Institute to support the sustainability of European R&D**
Dipak Kalra, EuroRec

11:15-11:30 Pascal Coorevits

11:30-11:45 **Moving Europe into interoperable eHealth Cross-Border Services**
Henrique Martins

11:45-12:00 **eHealth Strategies and Roadmaps supporting planned care and rare disease policies** Zoi Kolitsi

12:00-12:15 **The potential role of patient summaries in the LHS: reflections from the Trillium Bridge project** Catherine Chronaki

12:15 – 13:15 Lunch Break

Keynotes | International Perspectives

13:15-13:45 **The LHS: perspective from the US** Prof Charles Friedman, University of Michigan

13:45-14:15 **The LHS: perspective from Europe** Federico Paoli, EU DG SANTE

14:15-14:45 Coffee break

2. Knowledge Management & Data Standards in the LHS

14:45-15:00 **Ontologies and the LHS** Mark Musen, Stanford University

15:00-15:15 **Developing and promoting interoperability assets for continuity and shared care - for heart failure example** Veli Stroetmann

15:15-15:30 **Semantic Data Platform in Healthcare – the SEMCARE project**
Philipp Daumke

15.30-15:45 **TRANSFoRm approach to integrating EHR systems and data :**
Mark McGilchrist, University of Dundee

15:45-16:00 **Semantic interoperability in EHR4CR** Christel Daniel

16:00-16:15 EMIF

Agenda Day 2

Friday, 25 September 2015

08:45-09:00 Wake-up coffee + Welcome

3. Data Privacy & Security in the LHS

09:00-09:15 **EHR4CR solutions for privacy protection** Brecht Claerhout, Custodix

09:15-09:30 **HIPAA, US experiences with privacy protection** Kevin Peterson, University of Minnesota

09:30-09:45 **TRANSFoRm zone model** Wolfgang Kuchinke, Heinrich-Heine University Düsseldorf

09:45-10:00 **IMI code of practice for the secondary use of health data**
Anne Bahr

10:00-10:15 **EMIF Ethical Code of Practice** Janet Addison

10:15-10:30 **Patient attitude to privacy and research** Peter Singleton

10:30-11:00 Coffee break

4. Knowledge Translation & Decision Support in the LHS

11:00-11:15 **Decision support for interventions in the LHS**
Charles Friedman, University of Michigan

11:15-11:30 **TRANSFoRm Decision support for diagnosis**
Olga Kostopoulou, Imperial College London

11:30-11:45 **TRANSFoRm Extensible model for diagnostic evidence**
Derek Corrigan, Royal College of Surgeons in Ireland

11:45-12:00 **CareWell - A learning integrated care system**
Veli Stroetmann

12:00-12:15 **Health Research** Julie Moore

12:15-12:30 Christoph Ruprecht

12:30-13:30 Lunch Break

5. Facilitating Clinical Trials

13:30-13:45 **CDISC and clinical trial standards in the LHS**
Becky Kush, CDISC

13:45-14:00 **A pan-European platform for the re- use of EHRs: the EHR4CR Champion Programme** Mats Sundgren

14:00-14:15 **TRANSFoRm clinical trials**
Theodoros N. Arvanitis, University of Warwick

14:15-14:30 **Provenance and GCP for real world clinical trials**
Vasa Curcin, King's College London

14:30-14:45 **Using Health Data for Innovative Trial Designs**
Stuart Dollow

14:45-15:15 Coffee break

Agenda Day 2

Friday, 25 September 2015

6. Big Data and Clinical & Research Data Integration in the LHS

15:15-15:30

Big data Jeff Brown, Harvard Medical School

15:30-15:45

EMIF: The European Medical Informatics Framework

Bart Vanniewenhuyse

15:45-16:00

TRANSFoRm and genotype-phenotype studies using primary care data in Europe Hilde Bastiaens, University of Antwerp

16:00-16:30

Panel Discussion

16:30-16:45

European Institute for Innovation through Health Data

Dipak Kalra, EuroRec

16:45-17:00

Closing Remarks

The Learning Health System in Europe

Brendan Delaney, TRANSFoRm Project Coordinator

Information



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The Learning Health System in Europe

A conference organised by TRANSFoRm, EuroRec, ECRIN (HHU)

**Participation is free. Please register for the conference
here:**

<http://www.eurorec.org/LHS/register.cfm>

For questions contact:

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(Wolfgang.Kuchinke@uni-duesseldorf.de)

Conference website: <http://www.uniklinik-duesseldorf.de/startseite/institute/clinical-research-informatics/lhs-conference/>

Venue

The conference takes place at the:

Hotel Bloom, Brussels

Level 1, Forum

Address

Hotel Bloom

Rue Royale 250, 1210 Brussels,
Belgium

Time

10:00, 24. Sep.-17:00, 25. Sep. 2015

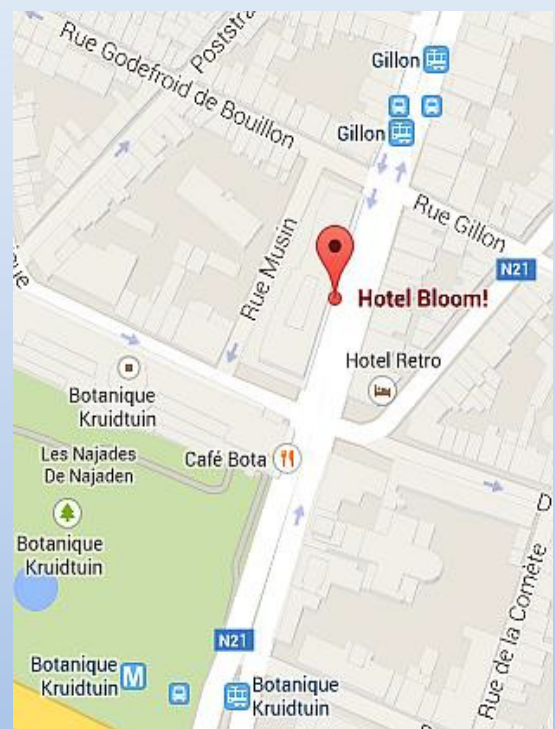
Hotel Bloom

www.hotelbloom.com/default-de.html

W-LAN available

Participants can get a special rate for accommodations at the Hotel Bloom:

Mention the LHS-TRANSFoRm meeting when booking



Nearest stations

Metro 2 and 6, stop: Botanique

Tram 92 and 93, stop: Botanique