• European CME-Forum, London
• November 13-14th, 2014

• e-learning innovations and potential
• Medical Simulation
The basic concept

**Didactics**
- Target-based Scenarios
- Problem-oriented Learning
- Decision driven
- Serious Gaming
- Interactive

**Content**
- Up-to-date
- Multimedia
- Problem oriented
- Online administration

**Technology**
- web-based LMS
- All operating systems
- Graphical Simulation
- Online-Management
- Multi-lingual
Inmedea – virtual clinic with virtual patients

INMEDEA Simulator

Virtual Clinics
- 28 specialties
- Transmission / Referrals
- Consultation

Virtual Patients
- Reality
- Multimedia reports
- Diagnosis and Therapy

Multimedia Library
- Background knowledge
- Learning Moduls
- Promotion
- Web-Links

Online Administration
- Patient Cases
- Users
- Virtual classroom
- Documents

Internet Café
- Forum
- Chat
- Interactive Discussion
Inmedea - The “perfect patient” for everyone

Personality | Diagnosis
---|---
Pathway | Reports

Medical History | Information
---|---
Diagnostic tools | Diagnosis
Therapy | Reports
Findings and Patient record | 
Expert comments

Audio | Photo | Video
---|---|---
Advantages of virtual simulation

- Patients and clinics can be created and adapted based on customer needs, medical processes and training of medical decisions can be tailored
- Adaptation of medical pathways for selected diseases
- Individual composition of diseases and patients
- Interactive Learning-Approach
- Measurement of quality and costs of medical treatment
- Online accreditation of CME-credits
- No borders – training thru the Internet, multi-lingual (German, English, Spanish, Italian, French Russian, Serbian,……)
Example: CME Workshop-Concept

- Workshops with limited or unlimited no. of users
- Duration max. 1 day
- Sponsoring by a pharmaceutical company (Sanofi in Serbia)
- Target Group: Specialists, e.g. Neurology
- 7 - 10 CME credits p. event
- Teaching users how to work with e-learning/Serious Gaming
Online CME conception

Adapted Portals

Sanofi-Genzyme

German Army (Bundeswehr)
Online Education Portals
Project

Project with LÄK Baden-Württemberg 2012/13
(local physician association in the South-west of Germany representing 58,000 physicians)

- 15 virtual post-mortem examinations
- PR activities from LÄK to address physicians
- Up to 45 CME credits

Approx. 2,000 physicians from the South-west successfully participated in the virtual course
Users experiences

• 21 Berufsjahre hinter Gittern, 6 Jahre Notarzwagen und Rettungshubschrauber, 9 Jahre Praxisvertretung und dennoch kann man in der realistischen und auch fordernden Inmedea "Virtuellen Leichenschau" dazulernen. Weitere ähnliche Themata waren toll. Danke.
  - Dr. Hermann Geißler, Facharzt für Innere- und Allgemeinmedizin / Psychotherapie / Notfallmedizin
  - MediClin Klinik am Vogelsang, Donaueschingen


  - Dr. Daniel Hermann, Facharzt für Anästhesiologie und Notfallmedizin, Diakonie-Klinikum, Schwäbisch Hall

Inmedea CME-Präsentation
Project Online CME in Serbia
gynaecologists in Tajikistan
Difficulties

- No defined standards set for medical e-learning yet, no Quality Control measurements
- E-learning in German “Fortbildungsverordnung” has become an own category but is still not widely accepted by the institutions
- Experience shows that users need to be guided. If they encounter difficulties with e-learning they mostly stop immediately
- Blended learning events seem to be the best option to establish e-learning
- So far no or few cooperations between CME organizations and medical simulation organizations
- Funding
Reference sides with Pharmaceuticals

SANOFI

genzyme

PharmaSwiss

Almirall
Reference Sites