Telemedicine in Mongolia

MonTelNet Telemedicine Project

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CEO
Klughammer GmbH, Germany
Web-based Telemedicine Platform

MonTelNet Telemedicine Project

Telemedicine Software

CampusMedicus

Hardware Packages

TelePathology
TeleHospital
TeleTeaching
Web-based Telemedicine Platform

Communication platform for

expert doctors and non-doctors

www.campusmedicus.com/more
Web-based Telemedicine Platform

Patient Case

Title: Mesenteric cyst
Diagnosis: Mesenteric tuberculosis
Organ: Bowel
Differential diagnosis: Congenital cyst
Type of consultation: Primary diagnosis
Case status: New and not reviewed
Sender: Philip Alexander
Case ID: 38260
Created at: 27.03.2012 09:41
Updated at: 27.03.2012 09:47
Permanent Link to case: https://campusmedicus.cc

Text
Images
Forms
Chat
Live Video
<table>
<thead>
<tr>
<th>Area of Interest</th>
<th>CampusMedicus</th>
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| **Clinical Decision Support** | virtual hospitals  
diagnoses  
tumor boards and monitoring |
| **Teaching** | store lectures  
present live lectures |
| **Documentation** | epidemiology |
With CampusMedicus

**Hospitals** can build up a virtual hospital

**Doctors** can organise their own medical network
  - Create patient cases
  - Exchange first and second opinion
  - Teach doctors and students
  - Collect data for epidemiology
Why does telemedicine make sense in Mongolia?

- Large country
- Not many inhabitants
- Nomads
- Shortage of expert doctors
Concept

CampusMedicus

Virtual Hospitals

MoH

Aimag Hospital Doctors

International Expert Doctors

National Expert Doctors

www.klughammer.com
Telemedicine in Mongolia

Number of Doctors using CampusMedicus in Mongolia *)

1) Doctors from Ulaanbaatar = 60
Total doctors from Mongolia = 135

*) 04/2012
Telemedicine in Mongolia

Clinical Decision Support

Pathology
Telemedicine in Mongolia

In Mongolia from 01/2009 until 04/2012

on CampusMedicus

total of

19,200 patient cases

Open Pathology Group

820 patient cases
Clinical Decision Support

Hip Dysplasia
From 2010 until 2011 newborn babies were screened according to Graf’s method which identifies the exact anatomic structure of the hip and serves as a basis for treatment of Developmental Dysplasia of the Hip DDH.

Mother & Child Hospital in Ulaanbaatar
Experience of Applying Telemedicine in Mongolia
Experience of Applying Telemedicine in Mongolia

Total of 8939 babies

4374 female babies
4565 male babies

Hip types according to Graf

1 normal
2a immature
2c + D minor dysplasia
3 + 4 major dysplasia
Experience of Applying Telemedicine in Mongolia
Experience of Applying Telemedicine in Mongolia

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Experience of Applying Telemedicine in Mongolia

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Experience of Applying Telemedicine in Mongolia

Teaching

live video conference and stored lectures
Teacher’s view
Student’s view

Fibrozyten und Fibroblasten

Lymphozyten und Plasmazellen

Makrophagen, Epitheloidzellen und Riesenzellen
Mongolian doctors of UNFPA and Luxembourg cervical cancer telemedicine project
Experience of Applying Telemedicine in Mongolia

Cross Border Health Care
Telemedicine and Medical Treatment
Pre-operative and post-operative care

Hospitals in Mongolia

Hospitals in Switzerland

Pre-operative diagnosis

Post-operative care

CampusMedicus
Future

Sustainability

Swiss MonTelNet project will be handed over to the Mongolian government in 2013.
Thank you very much for your attention