The Mongolian Model of Telemedicine and Telepathology: Concept and Practice

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Overviews

1. Swiss Surgical Team (SST) - goal of telemedicine

2. Strategical organization

3. Operative organization

4. One possible solution: Concept of Mongolian Telemedicine
Telemedicine Network

- Neonatology
- Oncology
- OBGYN
- Medical Screenings
Hardware packages
Telehospital

Camera software connects camera to computer

Digital camera for capturing x-rays, larger objects

Local Computer

Magic arm for fixing the camera at the table

Internet connection

iPath Server*) in Basel, CH

Light table for X-rays

*) iPath is a collaborative platform for exchange of medical knowledge, distance consultations, group discussions and distance teaching in medicine.
Telepathology

Microscope camera for capturing images

Microscope for viewing histologic sections

Local computer

Internet connection

iPath Server*) in Basel, CH

*) iPath is a collaborative platform for exchange of medical knowledge, distance consultations, group discussions and distance teaching in medicine.

Klughammer Bio GmbH, www.klughammer.de, Germany
and Professor Dr. Martin Oberholzer, Institute of Pathology
University of Basel, Switzerland

04/2008
Teleteaching

Web Camera with microphone for communication between lecturer and students

Projector for viewing the live lecture

Laserprinter, color for printing lecture notes

Local Computer

Internet connection

iPath Server*) in Basel, CH

*) iPath is a collaborative platform for exchange of medical knowledge, distance consultations, group discussions and distance teaching in medicine.

Klughammer Bie GmbH, www.klughammer.de, Germany and Professor Dr. Martin Oberholzer, Institute of Pathology University of Basel, Switzerland 04/2008
Software packages
Results
Number of users and its acceleration

- MonTelNet Community
- UNFPA Mongolia Community
- Open community /Mongolian Pathology group/
# Case statistics

## Summary of teleconsultation

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<th>Specialities</th>
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<th>2011</th>
<th>2012</th>
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case_id link user_name user_id when comment
354 https://campusmedicus.com/cds/g=81&c=354 Dietmar Kunze 105 2009-10-30 14:43:32 Thats%27s a benign sweat gland tumor %27Mamiledena%27 with histological characteristics of a papillary adenoma of the nipple. There are signs of an eccrine and apocrine differentiation but no clearcut cytological or histological signs of malignancy.
254 https://campusmedicus.com/cds/g=81&c=254 Anna E. Schaus-Mod 64 2009-09-14 10:21:22 Hochmals ein Answer from the chat. I want to show how to send this to the iPhone (r>)
254 https://campusmedicus.com/cds/g=81&c=254 Vito Klughammer 76 2008-09-14 18:17:40 Hall1 Von meinem iPhone gesendet
254 https://campusmedicus.com/cds/g=81&c=254 Anna E. Schaus-Mod 64 2009-09-14 09:31:09 Here is an answer as Moderator 254 https://campusmedicus.com/cds/g=81&c=254 Anna E. Schaus-Admin 25 2009-09-13 13:08:39 This is an answer from the chat. I want to show how to send this to the iPhone (r>)
254 https://campusmedicus.com/cds/g=81&c=254 Vito Klughammer 76 2009-09-14 10:22:89 Test Test Von meinem iPhone gesendet
260 https://campusmedicus.com/cds/g=81&c=260 Luigi Tornillo 245 2011-08-04 08:25:52 Perfect. Thank you
313 https://campusmedicus.com/cds/g=81&c=313 Martin Oberholzer 98 2009-10-16 05:15:22 Dear DungubatX2C thank you very much for the additional pictures. (r>) There is a diffuse lymphocytic hyperplasia in the picture 5. (r>) AdditionallyX2C one can see a relatively fresh necrosis of the lymphatic tissue with fresh bleeding.
313 https://campusmedicus.com/cds/g=81&c=313 Martin Oberholzer 98 2009-10-14 18:53:14 Dear DungubatX2C thank you very much for the very interesting case. I can very well understand your differential diagnosis. (r>) HoweverX2C it is a little bit difficult to analyse the first four pictures because the black corners. (r>) I allowed me to give you the pictures of a Kikuchi diseaseX2C which I have diagnosed 5 years ago. You can compare your original pictures with the pictures from Basel. (r>) Please send more pictures in different magnifications with an optimal optic.
THANK YOU