

Telemedicine - Status and Future

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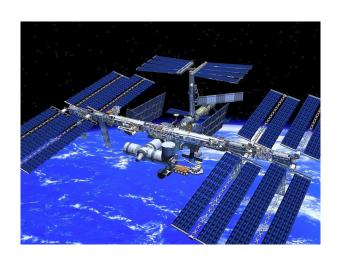
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Institute of Aerospace Medicine

Our task: Health and efficiency of humans in the mobile society

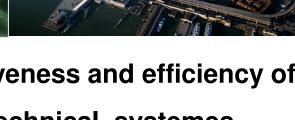


Long duration stay **Outside the earth**









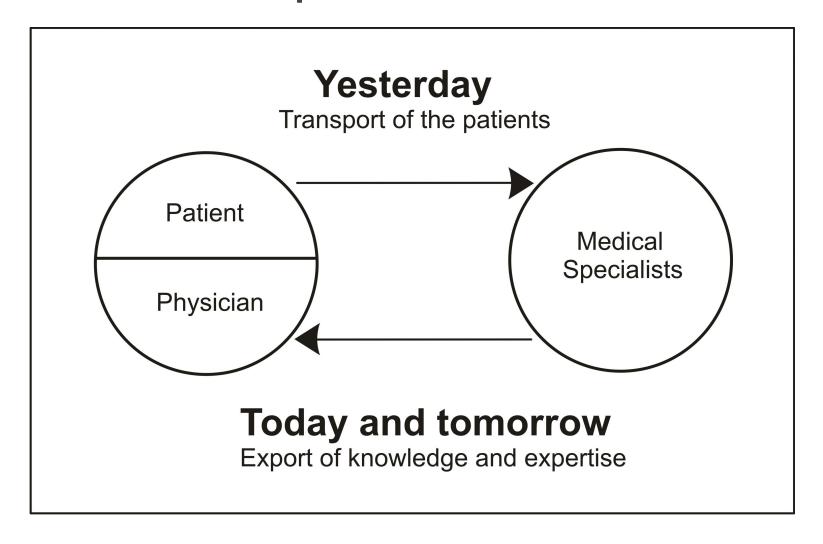
Definition of Telemedicine

Telemedicine is practice of health care using interactive audio, visual and data communication (WHO)

Telemedicine is the capacity to practise medicine at a distance through the utilisation of telecommunication (H.C.Holoway, NASA)

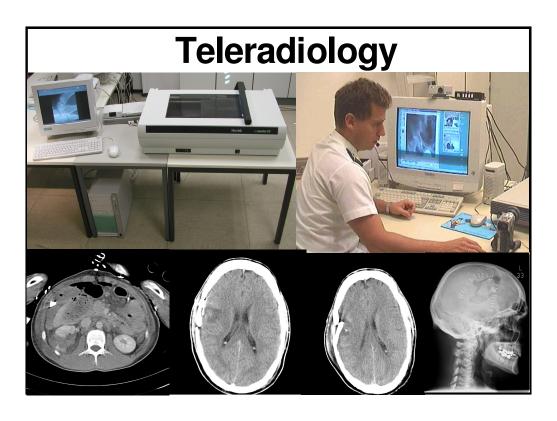


Relations of patient and information

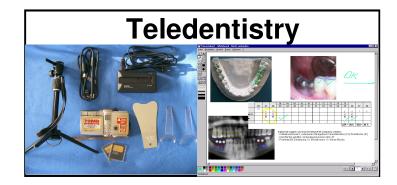


Status

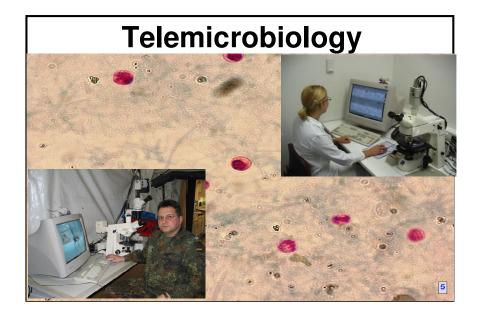
Realized applications inside the Telemedizin Network for medical services

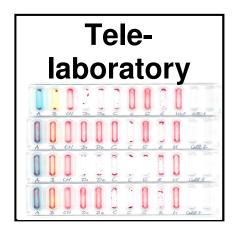






.... further realized applications







Status of the Telemedicine Network

- More than 100 systems operating
- Medical and technical 24/7 combined hotline is available
- First and second opinion service is everyday life

Efficiency and costs

- More than 2 € saved per 1 € spent in direct costs
- Decrease of repatriations
- Increase of treatment quality by expert teleconsultations
- Cost reductions of secondary care/rehabilitation



Future

New Applications in the Telemedicine Network

Development of

- Tele Surgery
- Tele Neurosurgery
- Tele Gynaecology
- Tele Otorhinolaryngology (ear, nose, throat medicine)

for

- improvement of acute care in accident surgery and disaster medicine
- intraoperative Tele Tutoring
- Tele Education and Tele Training



Tele - Surgery - Emergency Situations

- Surgical and radiological online expertise
- Improvement of acute care in accident surgery







Tele - Neurosurgery - Intraoperative Tele - Tutoring

- Neurosurgical expertise throughout the world
- Supporting general surgeons performing cranial surgery

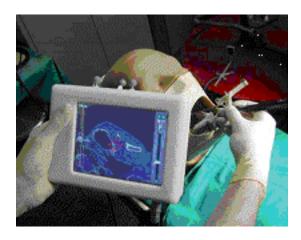




Tele – Education and Tele - Training

- Ultrasound Diagnosis
- Dentistry and Internal Medicine







Conclusions

Telemedicine abilities and advantages

- Support diagnosis and therapies in emergencies and disasters
- Triage help after accidents and attacks
- Common education and training
- Contributions to the reconstruction of the health care systems
- World wide available



Thanks for your attention.



Telemedicine support in the padiatric surgery

After the operation

7 days later

Today



Football

