

Development of center of telemedicine

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Implementation of telemedicine provides high quality training of expert on pre-higher and post-higher educational period, fast exchange of medical information, progress of medical prevention, prophylactic medical examination of population, guaranteeing of consultational and diagnostical medical service no matter of patient's location.

Telemedicine center of medical institute North-Eastern federal university (Yakutsk) is a specialized department for education and health care. The aim of center's creation is rendering high-skilled assistance using modern information and telemedical technologies, their designing, approbation, implementation and development of telemedicine in republic.

Telemedicine is the delivery of healthcare services, where distance is a critical factor, by all healthcare professionals using information and communication technologies for the exchange of valid information for diagnosis, treatment and prevention of diseases and injuries, research and evaluation, and for the continuing education of healthcare providers, all in the interests of advancing the health of individuals and their communities.

There exists a major rural-urban disparity in healthcare delivery services of republic Sakha (Yakutia), as even though the population of republic is concentrated in the villages and small towns, the medical services in those areas are far from sufficient. The one possible solution to address this issue is the use of telemedicine. The implementation of telemedicine needs tools, connectivity and trained professionals. Tools and connectivity are available in republic, so trained health professionals being the only limiting factor for its implementation. The Telemedicine/e-health training center is established for capacity building addressing the issue of limited human resource in this field.

Telemedicine course is designed to train clinicians and nurses from different hospitals and ambulatory clinics in the field of telemedicine and thus enabling them to develop their own telemedicine projects at their existing hospital networks. The idea is to train doctor and nurse to main skills and abilities of work with modern computer and medical equipment.

The teaching staff has been trained locally and also at telemedicine centers of Russia. The collaborating institutes at Russia have participated in development of telemedicine training manual for the lab and experts from these centers are also involved in teaching sessions through videoconferencing and then at the end of training they will visit republic to interact with trainees.

This is specifically designed for telemedicine training and includes computer workstations, telemedicine peripherals equipment. It has the facility of high bandwidth connectivity and videoconferencing.