

Development of Teleradiology in Military Medical Academy (MMA) Belgrade

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Development of teleradiology in the Institute of Radiology MMA has started in the late nineties. Leading aims of this project were the reduction in working expenses and improvement of educational system. Radiological information system (RIS) has been based on our software and much more sophisticated network than previous one of Hospital information system (HIS). The quality of this network has enabled original solution of the problem of image acquisition. This process is performed with frame grabber card which is made for the use on both high-resolution radiological machines and real-time image machines (cine mod). In this way we connected five machines in the network with two of them in dynamical code. It is very important to emphasize that whole system works without server application which means in Windows frames. This provides simple approach to the database by PC work station. Acquisitive image is then postprocessed by our software. The combination of hardware and software that we use fulfills all accepted standards in this area. Images that are standardized in this way, can be stored and analysed in data base or can be manipulated by the means of digital communications such as e-mail, internet, intranet and telemedicine. What we always have to bear in mind is the protection of data base, especially when we know that PC workstations are used in intranet as well as in internet.

KEY WORDS: Telemedicine; Teleradiology; Intranet; PACS

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