Construction of Simple Mobile PACS system Using Wireless Internet

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Background

Wireless mobile internet has advanced and been widely applied to a variety of social systems. We constructed a simple mobile PACS system, using this wireless mobile internet to improve the medical imaging service.

Method

The mobile PACS system consisted of intranet wired main PACS system, mobile PACS server (connected to main PACS system) and mobile notebook. KT Netspot system was used for wireless internet system. Medical images were compressed and downloaded to the mobile PACS server and displayed on the reader's mobile notebook via KT Netspot. Approach to the mobile PACS was limited to the readers with ID and password.

Results

The mobile PACS system was effectively operated and the quality of the transferred images was acceptable after file compression. However, the mobile PACS was available only in areas of wireless internet zone.

Conclusion

The simple mobile PACS system was constructed using wireless internet system and may improve the quality and speed of medical service. Further studies using more high speed wireless system and more compact mobile notebook are needed.