PACS Intra and Inter

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Abstract

Picture Archiving and Communication Systems (PACS) are being installed in hospitals (Intra) and as wide area networks (Inter or Teleradiology). These systems acquire images (such as CT, MRI, Ultrasound, Digital Fluor, CR, Digital Chest, digital mammography, and digitized analog screen – films), transmit them, display, archive, and generate hardcopy recordings. Intra network transmission rates exceed throughputs of 100 Mbits per second. Inter data rates require high image compression ratios (30 to 1) and DS-1 services (1.544 Mbits per second). Archiving requirements exceed 1 Tbyte per year with the use of compression algorithms. Grayscale displays are used for imaging displays. These and other elements will be presented and the evaluation parameters described.