



# Information Management in Next-Generation Hospitals: A Scoping Review

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## ABSTRACT

**Introduction:** Next-generation hospitals employ modern information systems to enhance the quality of healthcare services and increase the efficiency of healthcare systems. This scoping review examined the advantages, limitations, infrastructures, and applications of information management in next-generation hospitals.

**Methods and Materials:** This research was conducted using a scoping review method. All studies related to information management in next-generation hospitals were comprehensively searched in databases such as Web of Science, Embase, ProQuest, Science Direct, PubMed, Irandoc, and Magiran, using appropriate keywords: "information management", "hospitals", and "next generation" in both English and Persian. In total, 3,670 studies were screened, and 92 met the inclusion criteria. The studies were analyzed using framework analysis and MAXQDA software.

**Results:** The findings of this study were categorized into three levels: macro (national and Ministry of Health), meso (hospitals and healthcare centers), and micro (staff and patients), and three main categories: advantages, limitations, and management applications in next-generation hospitals.

**Discussion and Conclusion:** By investing in the above-mentioned levels and infrastructures, organizations can significantly enhance their information management efforts, ensuring strategic alignment and operational excellence.

**Keywords:** Information system management, Hospitals, Patients