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IMPACT OF MOBILE TECHNOLOGY ON LIBRARIES

Pratibha, Shivani Sharma, Anjuman Shahin, Chandan Kumar

INTRODUCTION:-

Mobile technology has made communication and information access very convenient and timely to users from the comfort of their own homes and offices, and from wherever they are while on the move with their cellular phone units or PDAs (personal digital assistants). The worldwide mobile telephone subscriptions are at 3.3 billion-equivalent to half the global population. These statistics are substantial evidence that people everywhere interact with information.

As today's cellular phones have more features and capabilities than ever before, including mp3 players, picture messaging, streaming video, and become more data-capable, fewer people need a computer to collect information. People use a cell phone as their primary interface for surfing the Web, listening to music, watching television,

reading books, and interacting with friends. So over the past ten years, the mobile phone has become one of the major interfaces people use to access and share information.

Libraries are social institutions, connecting people with people and people with information. They are increasingly no longer just physical places. As most library users own a mobile phone, and increasing numbers of these being smart phones, it is time for libraries to take advantage of mobile technology. Mobile Technology will help both novice and experienced librarians to stay relevant in an increasingly mobile society. They need to be aware of technological changes, peer forward, and prepare for the future of library mobile interaction. Librarians must be commensurate with this trend and integrate themselves into the mobile realm if they wish to deliver enhanced user services.

LIBRARY SERVICES THAT CAN BE PROVIDED TO PATRONS VIA MOBILE TECHNOLOGY ARE:-

SMS notification services:-

Libraries may provide the alerts on latest news, events and notices via SMS and MMS to users wherever they might be go. The users can get notified instantly with notice alerts such as- alerts on bringing new books to the notice of users for suggestion, intimation of

arrival of indented documents by users, informing availability of reserved documents for collection, appraising about overdue books, outstanding fines, reminders to return library items, renew books, library circulars, e-journals subscribed, change in timings, information about important events, loan request etc.

Formal Education, Distance Learning and E-learning:-

Students are very versatile in using their mobile phones and various mobile applications. Academic libraries can harness the advantage to lead implementation of library services through mobile devices to support distance learning, formal education, and

research activities in e-learning environment by making the information resources ubiquitous. Library services should also blend with teaching and research practice of colleges/universities, scientific community or other patrons whom they serve.

Database Browsing:-

Libraries provide access to a variety of its resources and databases. The users can just enter search terms and see results that are designed specifically for

mobile viewing. This service includes OPAC (online public access catalogue), integrated search, and original document search. OCLC's World Cat Mobile

application pilot allows users to search for and find books and other materials available in their

My Library:-

My library is a personal library space where users can find information and resources of their choosing. Users can read alerts, check records, renew resources, request items, track interlibrary

local libraries through a web application they can access from a PDA or a smart phone.

loans and document delivery requests, set up email notices of new books and journal articles, set up preferences for catalogue searching, etc.

E- resources with Mobile Interfaces:-

Some publishers are already delivering e-books (both text and audio) that are accessible via mobile phones. It offers access to a variety of databases and digital resources such as e-Books, e-Journals, Web databases, dissertations, audio books, streaming music, films, images and article databases which can be used on mobile. These

collections can either be downloaded from the library websites on user's own mobile devices or libraries lend mobile devices with the collections already on them. A large collection of audio books both free-and subscription based services are available for download and also transferable to mobile devices.

Library guide:-

Libraries can give users the best of library guide information such as library use guide, question answering service, and library statistics delivering rich content in a way that works best for users. If

users have questions and want to contact the librarian for help, they can get a fast response from the library via the mobile device and find the appropriate information needed.

Mobile document supply:-

The mobile environment and technology present new opportunities for sending document requests and scanned images and monitoring the use of collections as well as the automation of administrative

operations. It can support electronic funds transfer, supply chain management, e-marketing, online marketing, online transaction processing, electronic data interchange, and automated inventory management systems.

Text reference service:-

If the library receives a high volume of enquiries that require brief responses, such as dictionary definitions, facts or service

information then Librarians can provide instant answers, and links to articles/references in real time.

Library Virtual/ Audio Tours:-

Library Virtual/ Audio tours, instruction/induction/orientation programs have been quite

Significant in bringing the nonusers to libraries and also help the remotely located or users located in different geographical locations. Library users, who don't have time or inclination to attend an on-site workshop, can get access to library tours on their

mobile devices. Audio/ virtual library tours can be produced fairly quickly, inexpensively, and could reduce the amount of staff time spent helping new users to orient themselves in the library and explaining the facilities available. It can easily be provided both as downloads from the library website and on mobile devices

QR Codes on Mobiles:-

QR code stands for 'quick response', and basically two-dimensional bar codes that can contain any alphanumeric text and often used to store urls, text, etc., known as 'mobile tagging'. Data can be translated into a QR code by any QR generator, many of which are available as free download. Users simply enter the

data to be translated, and the generator produces the code, which can then be displayed electronically or in printed format. Decoding the information can be done with any mobile camera phone that has a QR reader, which is freely available online for most devices.

MOBILE DEVICES USED IN LIBRARIES:-

- PDAs (Personal Digital Assistant)
- Smart Phones
- Cell Phones
- iPods and MP3 players
- Tablets

COMPONENTS:-

- The users,
- The devices,
- The operating systems,
- The services,
- The content,
- The research tracking (how users currently engage with information on the World Wide Web via their mobile devices.)

PREREQUISITES FOR IMPLEMENTING MOBILE-BASED LIBRARY SERVICES:-

Mobile technology is unlikely to be able to supply the necessary service on its own, but needs to

- Digitized information base
- Information products designed for an e-platform

be integrated with digital technology. The following prerequisites were identified:

- Electronic information service delivery
- Design of electronic access systems.

MOBILE SITE DEVELOPMENT TOOLS:-

While libraries can make their own mobile sites, there are also different services that translate the website into a mobile friendly interface .via the use of CSS (Cascading Style Sheets) or ADR (Auto-Detect and Reformat Software) which allows a website to rearrange its control and navigation to suit the size of the screen it is being viewed on. That way websites will look good on all sizes of screens including the popular netbooks and libraries will

be well positioned to meet future demand. The Library websites (with or without OPACS) which are especially designed for viewing on mobile devices are as-

American University Library,
Boston University Medical Center
Mobile Library, Cambridge

University Library, Cornell
University Library, Duke
University, Florida International

University Libraries, London
School of Economics (LSE) Library

ADVANTAGES OF IMPLEMENTATION OF MOBILE TECHNOLOGY IN LIBRARIES:-

- **User-friendly Aid:-**

Familiarity with their own devices and technology helps the users in accessing information quickly and does not require orientation and training. Mobile users are using the facilities on mobile phones like

SMS, instant messaging, web browsing, e-mail effortlessly to communicate. Most of these features are pre-installed on mobile devices or option for data plan packages.

- **Personalised Service:-**

Personalized service helps users to interact with library staff to seek

specific information or reference away from library.

- **Ability to Access Information:-**

Information access from anywhere at any time will be of great help for users who cannot visit library

in person and provides a constant link to required information resources.

- **Time Saving:-**

Users need not record information about resources while browsing and searching library resources or

wait at library transaction counter to renew/reserve books and hence the time of the user is saved.

- **User Participation:-**

Libraries can enrich OPAC by allowing users to incorporate user

created content like notes or images uploaded by users.

- **Location Awareness:-**

Mobile communication enables libraries to offer location-based services/content through global positioning system (GPS) capabilities. Libraries can guide

the users to the location of specific document or service through maps and navigational tools.

- **Limitless Access:-**

All online resources accessible on their desktop also become accessible through mobiles.

- **Access to Print-disabled Users:-**

Mobiles communications help providing services orally to vision-disabled and physically handicapped users.

DRAWBACKS OF MOBILE TECHNOLOGY:-

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Compared to wired Internet service, has relatively slow transmission speed
•limited computational power

•inconvenient input and output interface
•insufficient contents
•high price

LIMITATIONS / BARRIERS:-

Although mobile Technology holds great promise for library services, there are some limitations or

- ❖ Content ownership and licensing,
- ❖ Usually expensive and resource intensive
- ❖ Limited memory of mobile devices
- ❖ Digital rights management,
- ❖ Access to information in the digital age.
- ❖ Reach of an external vendor into the digital collections and technologies – sustained access will be an extremely important issue for libraries if they adopt mobile Library technology and services that offer content from providers outside of the library.
- ❖ Another pressing concern about mobile technology in the library is privacy - because of the risk that patron usage information can be used and exploited by law enforcement official and those who commit identity theft. Mobile technology is changing the

barriers in providing library services such as

- relationship between libraries and their users--by expanding services and posing new challenges to reader's privacy.
- ❖ Issues related to trust and security - Libraries should be wary of entrusting user information to locations in the cloud that may offer a different level of protection from that provided by in-house library infrastructure
- ❖ Some of digital content can only be accessed on certain devices, and this can have a "chilling effect" on learning and library service because it locks some people out.
- ❖ Lack of appropriate mobile-friendly academic content to meet learners' needs.
- ❖ Difficulty in supplying content to an increasingly mobile student body
- ❖ Problems in finding and accessing the content

needed for mobile learners

from the Library perspective

SOLUTIONS:-

Libraries should conduct analyses and make smart decisions, such as –

- ❖ Support staff education.
- ❖ Explore partnerships.
- ❖ New funding models.
- ❖ Ready to compromise when it comes to their traditional information delivery models.
- ❖ Protect themselves from deceptive content agreements with third party providers.
- ❖ Need the expert knowledge of mobile devices to flow through the profession and not just lie in the hands of recent library school graduates.
- ❖ Tell users about the thousands of free mobile-ready books available from such initiatives as Project Gutenberg.
- ❖ Create opportunities to educate staff, build local expertise, and promote discussion by offering training sessions and professional development options.
- ❖ Build a solid foundation of knowledge about mobile services within the organization.
- ❖ Host lectures or discussion groups or include such information in their websites, blogs, or newsletters.

CONCLUSION:-

There is a growing influence of mobile technology in Libraries, especially as network access becomes more affordable and reliable, and mobile applications have seen mainstream acceptance in teaching, learning, and research. This trend will likely continue, and one way libraries can respond to this emerging trend is to make the library's

website easily accessible via web-enabled mobile devices. Libraries should make conscious choices about what they want to offer in this arena and act accordingly, and only time will tell if a completely mobile-accessible library, interims of its services and collections, will become common place.

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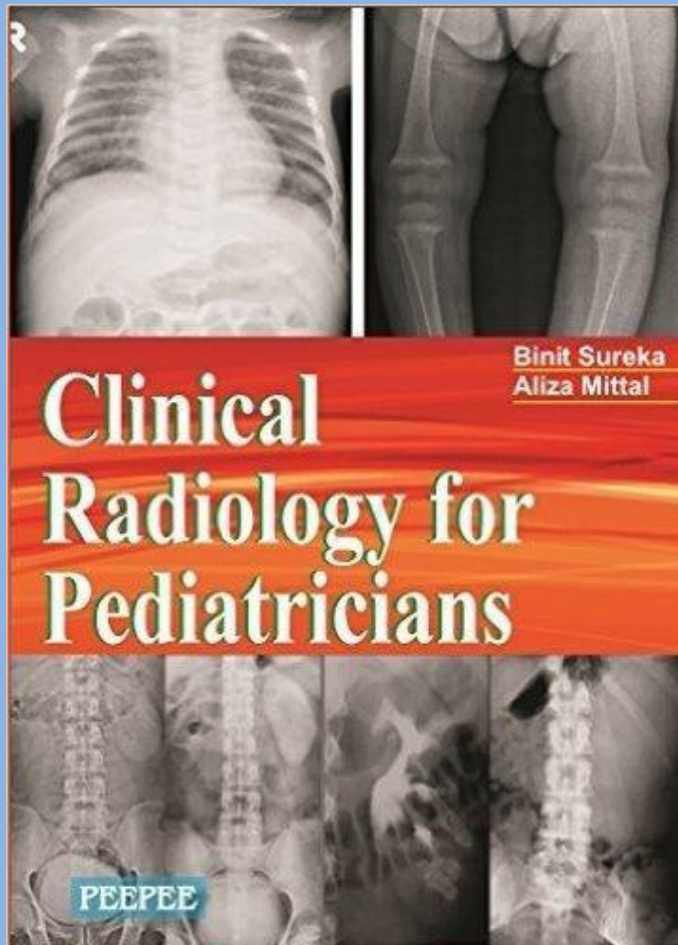
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NEW ARRIVALS

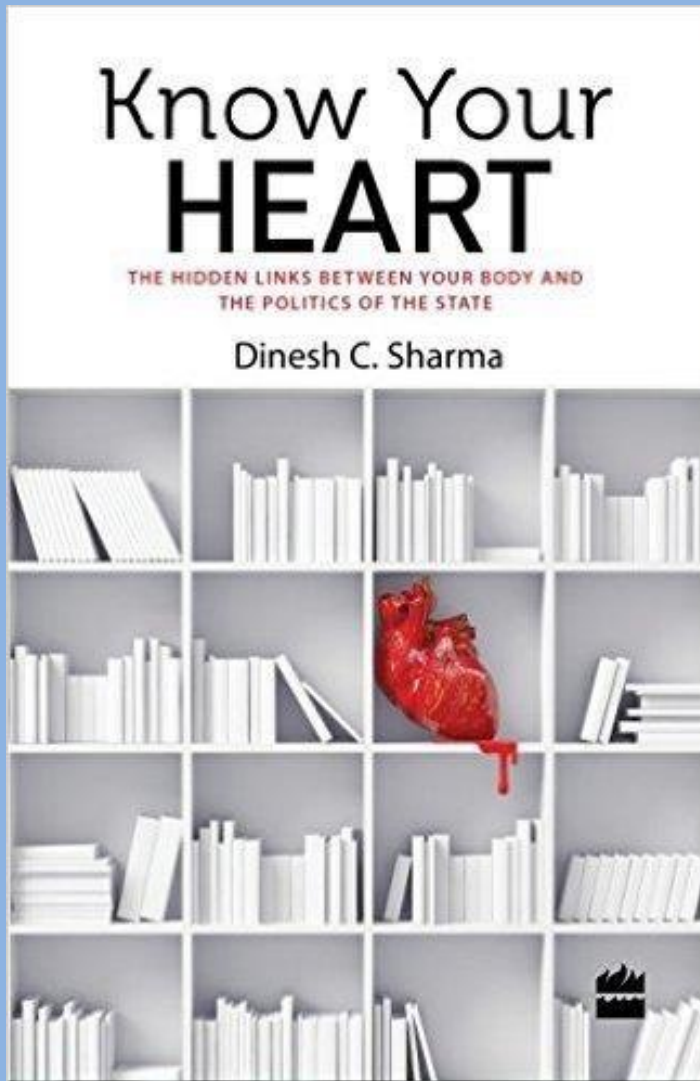
CLINICAL RADIOLOGY FOR PEDIATRICIANS



This pocket-sized book is a joint effort of a young Radiologist and a Pediatrician, and provides a synopsis of the commonly encountered clinical conditions and their imaging appearance in the children. It presents the relevant information in an attractive manner, easily comprehensible to the readers. Pertinent imaging findings are well covered for quick reference for the students along with the important differentials of the imaging diagnosis. The most attractive aspect of the book is the brainstorming part which quizzes the readers with the classical imaging appearances. This book is a good attempt to familiarize the pediatricians with the 'blacks and whites' of Radiology to add color to the clinical perspective in providing a better diagnosis. This short book

illustrates common entities encountered in day-to-day Pediatric practice. This work is done keeping in mind needs of Pediatricians - residents, students, consultants and teachers in medical colleges. It would come handy for students appearing in various exams such as DNB-OSCE, MRCPCH and MD exams. This book contains basics like sequential interpretation of chest and abdominal radiographs. Images of common entities, differential diagnosis and various signs in Radiology are briefly discussed in this handbook.

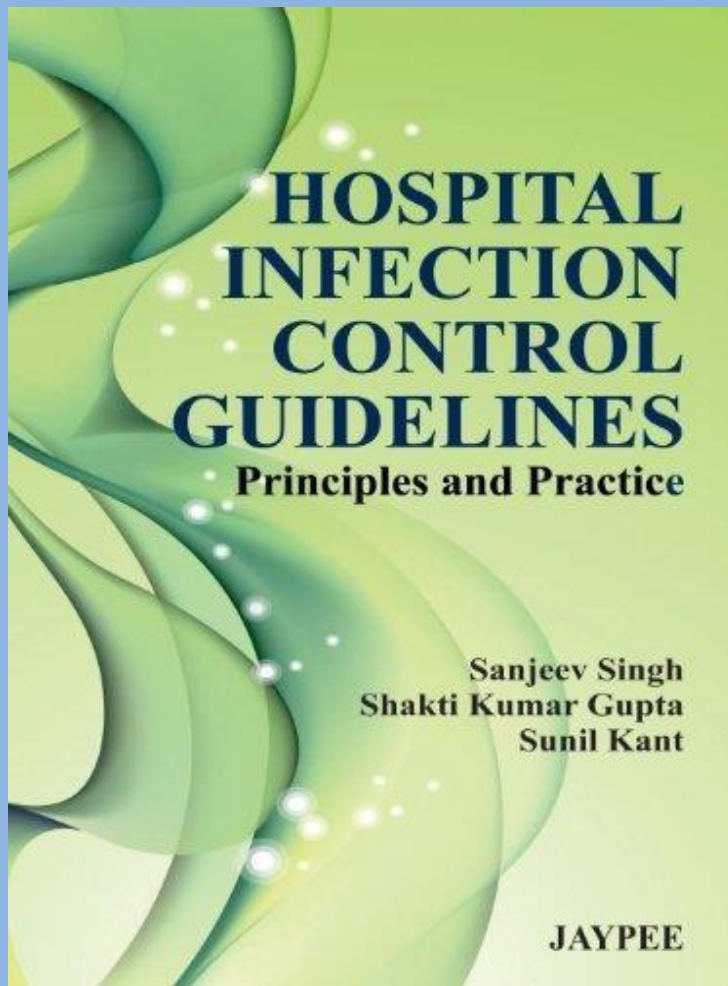
KNOW YOUR HEART



Know Your Heart is an eye-opener that was long needed. The book should help policymakers “to draft and implement healthy policies”. It should also help the general reader to become aware of the various issues and address them collectively through proper forums. An exhaustive index would have made the book more useful as a reference material. Know Your Heart explodes the myth that an individual alone is responsible for his or her sickness, particularly heart disease and the underlying conditions like diabetes and hypertension. The book is not about risk factors but the causes behind them. What lies behind consumption of unhealthy diets? Why are we becoming physically inactive? What's fuelling the rise in tobacco consumption? Investigations reveal shocking details. It's the Indian state which is fuelling the risk factors for heart

disease in India to a great extent. Narrow political interests, faulty state policies, along with corporate greed, are boosting heart disease in the country. Read this wellresearched book to help your heart beat stronger and longer. Dinesh C. Sharma is an award-winning journalist and author with over thirty years of experience of reporting on science, technology, health and environment-related issues for national and international media. His articles have appeared in Times of India, Hindustan Times, Mail Today, Bangkok Post and Lancet, among others. He is the author of the critically acclaimed book, the Long Revolution, the Birth and Growth of India's IT Industry, a history of the Indian information technology industry.

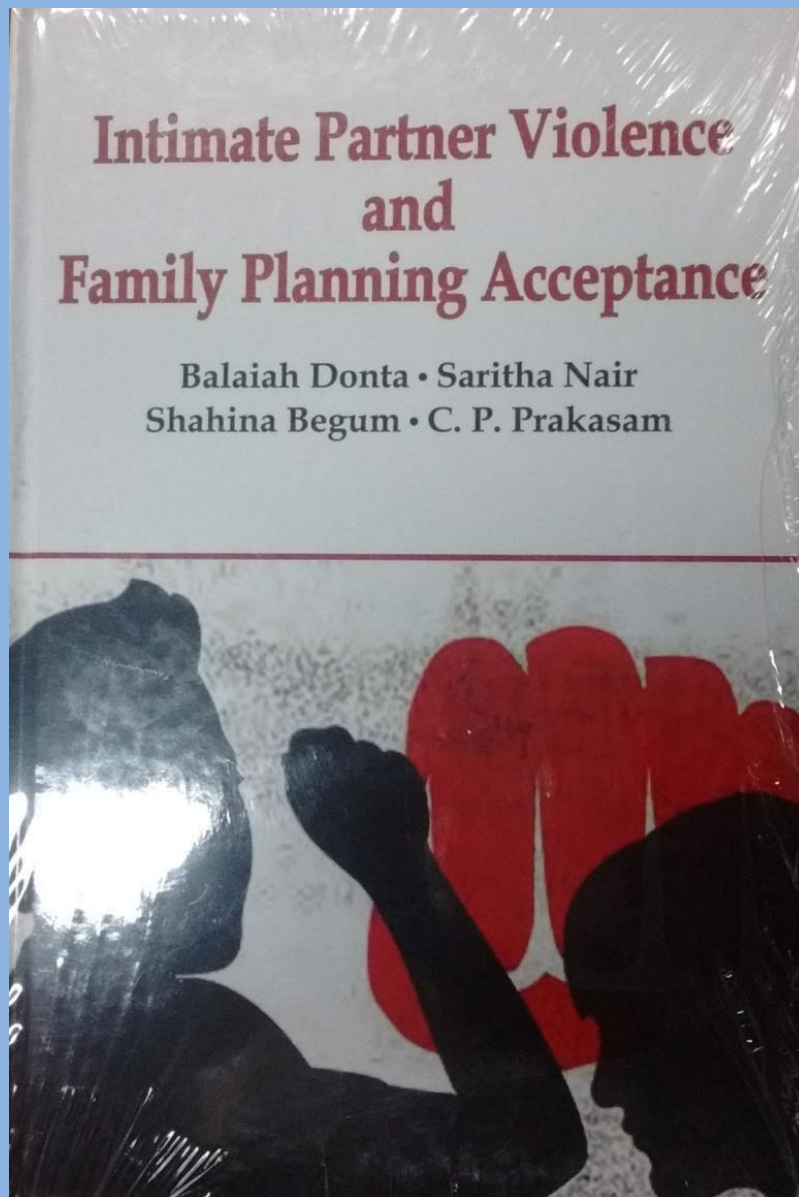
HOSPITAL INFECTION CONTROL GUIDELINES



This book Hospital Infection Control Guidelines: Principles and Practice aims to provide comprehensive, acceptable, implementable and effective guidelines on Infection Control in various healthcare facilities. The book deliberates on all aspects of infection control in healthcare facilities including prevention, processes, infrastructure and training. Analyses the existing guidelines on infection control and recommends micro- and macro-guidelines appropriate to healthcare facilities at various levels, i.e. primary, secondary and tertiary. As per the World Health Organization statistics, at any point of time, more than 1.4 million people worldwide suffer from infections in hospitals. The incidence of healthcare associated

infections (HAIs) is anywhere between 10 and 30%. In intensive care, healthcare associated infection affects about 30% of patients and the attribute ability mortality may reach up to 44%. Amongst the important variables which may guide healthcare professions to achieve reduction in healthcare associated infections is the availability and implementation of standard guidelines to control these infections. There have been significant initiatives at governmental and professional levels to formulate guidelines on Infection Control. The book which is a multi-author and multidisciplinary will be a ready-reckoner for administrators, clinicians, academicians and practitioners in healthcare facilities for policy-making, formulation of standard operative procedures, implementing techniques and processes for infection control.

INTIMATE PARTNER VIOLENCE AND FAMILY PLANNING ACCEPTANCE



This book presents a comprehensive and scientific approach that has successfully demonstrated the reduction in violence among women in the selected study communities. The intervention has the potential to be replicated in similar setting in India. Intimate partner violence (IPV)—physical and/or sexual violence by a current or former partner—is an issue that women in all regions and all countries experience. Globally, approximately one in three women who have ever been in a relationship have experienced IPV. Women face a greater risk of violence from an intimate partner than from anyone else. This brief presents data to help policymakers and others understand the nature and extent of the harm

caused by IPV, especially as it relates to women's reproductive health, family planning, and autonomy, and highlights opportunities for action. Policymakers can combat IPV and its consequences by promoting integrated policies and dedicating financial resources to support systems, programs, and services to address the intersection of IPV, health, and women's empowerment. It is hoped that the implementation of the intervention model mentioned in the book will go a long way to reduce violence against women in the country.