

# Digital health resources collection and their use in The Gujarat Cancer and Research Institute Library Ahmedabad: A case study

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## Abstract

In this paper focus on E-resources collection and uses by the The Gujarat cancer and Research Institute. GCRI Library is an academic centre for the faculties, students, resident doctors, medical scientists, etc .The main purpose of GCRI library is to support medical education including teaching and research with special focus on improve patient care and academic degree. GCRI Library has well-equipped digital resource building for promotion and advancement of health education and healthy brain for the users of GCRI Library. To fulfill this objective it has been the constant endeavor on the part of acquisition and develop collection building of information particularly digital resources on the field of oncology contents to meet the expectations of all the stake holders of GCRI Library. This paper covers collectively data from author's observation, experience, users visiting record, Library collection record, present status of the library, year wise enrollment of student's record and user's access reports.

**Keywords:** Digital Resources, Usages, Digital Library & GCRI Library

## 1. Introduction

The Gujarat Cancer and Research Institute conduct various medical courses DM, MCh, MD, MSc , PhD , Diploma , Para medical courses , CMRT, CMLT, etc. All the Courses affiliated with B. J. Medical College

and Gujarat University, Ahmedabad. The Gujarat Cancer & Research Institute (GCRI) established in the year 1972, is a functional autonomous body jointly managed by Government of Gujarat and Gujarat Cancer Society.

Digital resource is defined as any work encoded and made available for access through the use of a computer. It includes electronic data available through remote access and direct access (fixed media). Remote access and online access refers to use of electronic resources via computer networks. Direct Access refers to use of digital resources via system storage access directly without using networking. E-resources refers to information available for downloading or distribution on electronic media but many in the digital content industry argue that digital resources is anything that can be published in digital format.

### 1.1 GCRI Library

GCRI Library has started its functioning since 1972 with professional library staff. The Library covers area about 2023.94 square foot & two storey building. The mission of GCRI Library is to maintain highest standard of excellence in preservation of knowledge.

GCRI library has well equipped audio-visual aids/facility and air-condition computer lab with broadband internet facility. Faculties, Residents, Doctors, Researchers, Postgraduate students, fellows

and paramedical staffs can access online journals, databases and books which are subscribed by the Institute.

Reading area for students/Resident doctors as well as faculties maintained by the library. For classification and easy accessible library materials GCRI Library use DDC classification for library books. All automation activity is doing through Library management software SOUL 2.0 with barcode facilities. GCRI Library is user-friendly open access system. The library has a dedicated E-resource centre for accessing a large number of electronic databases of journals, Books and reference sources subscribed by the GCRI. The collection of the library databases is available online through the Web Opac facility of the SOUL 2.0 software.

GCRI digital Library is focus on the collection of digital objects that includes institutional repository and online database which is used exclusively for library members in the GCRI campus.

## 2. Review of Literature

**V. Chandrasekhar Rao & G. Saroja (2014)** focused on harnessing the potential of WWW by Library professionals. Use of Internet and WWW brought about phenomenal changes in the traditional library functions. Current day users no longer depends on the physical library resources but seeks information from the global computer network. In order to satisfy these users, the libraries should transform themselves by subscribing to e-resources and developing electronic library services.

**Singh Sunjoy K (2017)** defined that Library and Information science is a merging of two fields that is Library science and Information science. Today information technology influences almost every aspect of library management and services. Library professionals must become proficient in using system for a wide variety of tasks including circulation, acquisitions, cataloging, serial management, digitization, information storage & retrieval and remote access for patrons. In the modern knowledge society libraries have a new role and there are various types of library models like: traditional library as a memory institution, library as a learning and research centre, library as a cultural and communication center, electronic library, digital library and virtual library as library without walls. Library will have to store all kinds and forms of material and information and disseminate beyond the geographical boundaries.

**Dixit, P K, Dubey Jitendra & Pachauri NK (2017)** explained that the experiences and scholarly output of library professionals in the domain of current trends in Library and Information profession in Digital Age. Challenges of Information and communication technology, Library automation and its applications, Library networking, Digitization of Library. The book contains current technologies used in libraries as management of E- resources, RFID technology, mobile technology, cloud computing, open source software, digital technology etc. The main aim of this publication is provide fraternity and others insights and support to the ways in which the ICT is managed in the growth and development of modern day libraries and information centers.

## Objective of the present study

- To identify the collection of Digital contents
- To Study the existing database and E-resources
- To examine uses and users statistics report
- To find out difficulties for budget allocation, purchase and technical aspects
- To evaluate the gap between actual need of the users' and existing collection

## 3. Materials & Method

Authors have been trying to taken digital data and Library records of the GCRI Library since 2014-2018 and used personal survey method to collect the primary data. The data were collected from GCRI Faculties, Residents, Library staff, Admin staff and the record from Library register & online users Statistics reports. The secondary data were collected from Books, Journals, Research paper, Conference proceedings, websites on internet etc.

## 4. Data Analysis

On the basis of objectives vast data collection of E-Resources and Digital Contents gained. Print collection, audio- Video collection and non-book materials also considered for this study. Authors have tried to examine all the necessary data from students, faculties and from other staff and make it tabular presentation.

### 4.1 Working Hour

An attempt has been made to find the library timing of The Gujarat cancer and Research Institute Library. The data are tabulated in table 1.

**Table: 1 working hour**

S. No	Category	Day	Time
1	Library working hour	Mon-Fri	9 AM - 5 PM
2	Library working hour	Sat	9 AM - 1PM
3	Reading Room/ Computer lab/ Digital Library	Mon-Sat	9 AM - 2 AM
4	Reading Room/ Computer lab/ Digital Library	Sun	10 AM - 2AM

The classification of library timing for GCRI Library users for circulation, reading, internet access, Digital Library use, consulting and for reference services. It is observed that GCRI Library has 17<sup>th</sup> hour open reading room facility and for digital Library facility.

#### 4.2 Books

The number of books- print volumes for academic and non-academic books available in the Library under study is presented in table: 2. The GCRI Library has total print volumes of print books are: 2022.

**Table: 2 Books**

S. No.	Subject	No
1	Academic	1079
2.	Non-Academic	897
3	Cancer Public Awareness	46

#### 4.3 Current Journals

The number of subscription print journals in 2018 with subject wise under study is presented in table: 3.

**Table: 3 Current Journals**

S. No.	Subject	No	National	Internationa l
1.	Medical oncology	2	0	2
2.	Surgical Oncology	5	0	5
3	Gynecologic Oncology	2	0	2
4	Radiology	3	0	3
5	Nuclear Medicine	2	0	2
6	Radiotherapy Oncology	3	0	3
7	Medical Physics	1	1	0
8	Microbiology	2	1	1
9	Pathology	3	0	3
10	Anesthesia	3	0	3
11	Pain and Palliative Care	3	1	2
12	Research & Cancer	8	1	7

	Biology			
13	Nursing	1	0	1
14	Physiotherapy	2	1	1
15	Community Oncology	1	1	0
16	Hospital Management	2	2	0
17	Engineering	1	1	0
	<b>Total</b>	<b>44</b>	<b>9</b>	<b>35</b>

From table 3 it observed total no of subscribe journals are 44 and among of them International subscription are 35 and National subscription are 09. Gathering and maintaining archived knowledge play an important role for any library. GCRI Library has archived old journals from 2001 onwards and total no of archived journals are 4281.

#### 4.4 Audio –Video Collection

For buildup a good library need to add every type of collection in their inventory. The Audio-Video collection of GCRI Library is under mentioned table 4

**Table: 4 Audio –Video Collection**

S. No.	Subject	No
1	Books	53
2	Journals	36
3	Live Audio-Video HPB	11
4	Live Audio-Video SELSICON	71
5	Live Audio-Video UGICON	57
	<b>Total</b>	<b>228</b>

From the table 4 it observed that **total** collection of Audio-videos are 228.

#### 4.5 GCRI Publication

This scientific publication report is an accumulation of published research paper of faculties, researcher and students output of GCRI. The GCRI has a team of highly motivated faculties & scientists in the area of Cancer and Research in life science.

**Table: 5 GCRI Publication**

S. No	Subject	Year	No
1	Scientific Publication	2014- 2015	78
2	Scientific Publication	2015- 2016	85
3	Scientific Publication	2016- 2017	106
4	Scientific Publication	2017- 2018	100

5	Clinical Meeting PPT	2014	68
6	Clinical Meeting PPT	2015	67
7	Clinical Meeting PPT	2016	49
8	Clinical Meeting PPT	2017	51
9	Clinical Meeting PPT	2018	32
10	Annual Report	2010-2018	41
11	GCS Research Journal	2010-2018	18
12	GCSMCH newsletters	2012-2018	25

In the present study on attempt has been made to know how many GCRI Publication available in the GCRI Library. Year wise publication data maintained by GCRI Library from 2010-2018.

#### 4.6 Institutional repository

The benefit of an IR is to manage the digital scholar outputs, maximize access to research outputs both published and unpublished knowledge.

**Table: 6 Institutional Repository**

S. No	Subject	No	Year
1.	LB for Surgical Oncology	42	2010-2018
2	LB for DM	2	2006-2007
3	LB for BMT	1	2005
4	LB for Pathology	31	2011-2018
5	LB for Anesthesia	1	2012
6	LB for Gynecologic Oncology	35	2001-2018
7	LB for Microbiology	26	2012-2018
8	DM Oncology Dissertation	127	2000-2018
9	MCh Oncology Dissertation	135	1990-2018
10	MD Pathology Dissertation	37	2010-2018
11	MD Pathology Dissertation	5	2013-2018
12	MD Anesthesia Dissertation	79	2010-2018

13	MS Gynecologic Oncology Dissertation	51	2002-2018
14	MD Radio diagnosis Dissertation	33	1992-2018
15	MD Radiotherapy Dissertation	30	1990-2018
16	PG Research Dissertation	220	2005-2018
17	MSc Cancer Biology Dissertation	57	2015-2018
18	PhD Thesis	26	2009-2018
<b>Total</b>		<b>938</b>	<b>1990-2018</b>

The table: 6 shows that the category for IR collections are Logbook, Dissertation and PhD Thesis.

#### 4.7 E-Books & E- Journals

Electronic materials can include all digital materials, as well as a varieties of E-databases. For access and use any e-resources require a good computer infrastructure. Total No of E-Books 136 and E-journals 205 in GCRI Library.

**Table: 7 E-Books/Journals**

S.No	Category	No
1	E-Books	136
2	E-Journals	205

#### 4.8 E- Databases

A Database is a collection of information that is organized way, so it can be easily access, use, manage and updates. Purchase model and Open access model of these two databases accordingly categorized into their content type i.e. bibliographic, full text, numeric, multimedia, Audio-Video and images in the available databases in the GCRI Library.

**Table: 8 E-Databases**

S. No	Subject	Access Mode	Year
1	UpToDate	Online through Institutional IP and User id/ password	2016-2018
2	EBSCO	Online through Institutional IP and User id / password	2017-2018
3	Clinical Key	Online through Institutional IP	2015-2018

4	OVID	Online through Institutional IP	2015-2018
5	ProQuest	Online through Institutional IP	2007-2017
6	PubMed	Open Access through Internet	
7	Bibliographic	Web Opac through SOUL 2.0	2007-2018

UpToDate Database can be access through user ID/Password in off campus and through hospital IP in the campus. Total 122 Oncology E-Journals can access using through EBSCO database in hospital campus and remote login through User ID/password. Library users can access OVID & Clinical Key database in hospital campus through Hospital IP by forming part of National Cancer Grid Programme of Govt. of India.

#### 4.9 Computer and Electronic Infrastructure

Computers and various software are used to provide various Library services and to perform the routine, repetitive and clerical jobs.

**Table: 9 Computer & Electronic Infrastructure**

S.No	Subject	Yes/No
1.	Computer lab	Yes
2.	Digital Notice Board	Yes
3	Library Automation Software	Yes
4	Software for Digital Library	Yes
5	Digital Notice Board Software	Yes
6	Microsoft office Software	Yes
7	LAN Connectivity	Yes
8	WiFi Facility	Yes
9	Web OPAC Facility	Yes
10	CCTV Facility	Yes

The table: 9 shows that a good electronic infrastructure and computer environment is existing in the GCRI Library. CCTV systems are one of the most widely beneficial security components in the Library premises. Users can use Wi-Fi facility for seeking information as per their needs.

#### 4.10 Services

For the 2018 (Jan-Dec) the major library services mentioned table no 10.

**Table: 10 Services**

S.No	Category	No
1	Book Issue	318
2	Library Material Return	301
3	Consulting /Reference	333
4	Visiting	3671
5	Xeroxing	16407

6	UpTodate Database	43655
7	EBSCO Database	2526
8	Clinical Key	1625
9	OVID	1223
10	E-mail circulation	392
11	Article on request	71
12	Digital Library	6870
13	Digital Notice Board data	51
14	Scanning	335
15	Printing	8463

It is observed that 15 types of library services provides by GCRI Library. As per MCI norms scanning, printing Xeroxing facilities are essential in the Medical Library and GCRI Library fulfill all the norms of MCI. GCRI Library also provides services for e-mail circulation, Article on request, and display digital contents etc.

#### 4.11 Digital notice board service

GCRI Library started the digital notice board facility for displaying recent publications, upcoming conference, New arrival Books and journals, Staff achievements, various meeting notice and Office circular from 2018 onwards.

### 5. Result & Discussion

Authors have identified two parameter to compare the result of the existing Digital/E- contents & digital services and another is Print contents & manual services.

The present study examined that “Digital Health Resources collection and their use in The Gujarat Cancer and Research Institute, Ahmedabad: A case study.” of all the collection of information resources available in the library. Users demand and satisfaction of digital library services. Most of objectives of the study are fulfilled and most of the users are satisfied with the digital collection of information sources available in the library. Library has sufficient information sources including print, Digital Audio-Visual and non-print media and provides better facilities for their study/ teaching and research purpose. The study concludes that majority of the users visit the library regularly for access online databases they can access through IP access or remote access. They are satisfied with the digital library collection and most of the users aware to use WEBOPAC facility. Searching of full text articles on E-Databases & on Digital Library all the users are familiar. Availability of satisfactory information resources helps the users in their study and research work and obtain necessary information for their academic qualification.

## 6. Conclusion

Today's scenario is the most popular search engine is Google online library because Google can search everything and immediately from anywhere to the users. Today's Patrons are Google users so every library staffs need to keep on mind to facilitate Google like services to their patrons. E-materials and online materials always protected with copyright law, license version etc so every library staff have common knowledge of copyright law, IPR, fair use and Copyright policy.

MCI and other association need to involve library development program in cancer or other super specialty libraries. Evaluation SOP and needs user friendly rules for the library users. Faculties, Doctors, scientist and residents are very busy with patient care and other human life saving work so they needs information which is quickly access and ready to use. The study conclude that GCRI Library is always

ready for quick digital data services, Remote login and online services.

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