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## Use of ICT Tools by Pharmacy Professional for Gaining Knowledge in Pandemic Situation.

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**Abstract:** Present study shows that ICT adoption contributes to gaining knowledge and supporting teaching learning process among pharmacy professional. It is therefore important that Pharmacy professional have knowledge of handling ICT tools and uptake of ICT tools to enable efficient teaching learning process in Pharmacy education. The role of Library also identified in this study and librarian can implement ICT tools to perform dissemination of information among their user by using various ICT tools.

**Keywords:** ICT, Pharmacy Professional, knowledge, role of library

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### 1. Introduction

Today many new technologies know on the doorstep of 21<sup>st</sup> century. The library and Information science professionals are trying their best to adopt all the new technology in their routine library services. Recent advances in technology have changed the way to communicate the information. Every day new technology emerging and libraries are adopting these technologies for the benefited of users. Information technology has unfolded the technical capacity to produce and disseminate information. ICT not only has the potential to transmit information at greater speed and precision but also the capability to deal large amount of diversified information.

In COVID-19 made our routine practice disturb for gaining knowledge. Pharmacy professional also face same problem and seek new techniques and technology to gain and distribute knowledge. This survey is useful to identify new resources and technology which is useful and practicable among pharmacy professionals.

This survey is also useful for to identify the shifting role of library in pandemic situation to rendered ICT based information service to its users.

### **Objective of the Study**

1. To Identify the impact of ICT on teaching and learning process of Pharmacy professionals
2. To identify new resources and technology which is useful and practicable among pharmacy professionals
3. To identify shifting role of library to rendered ICT based information service in pandemic situation.

### **Scope of the Study**

The target of study is to study pattern of use of ICT tools by Pharmacy professionals for teaching and learning in pandemic situations. This survey is conducted within limited area of Profession (Pharmacy) in Vidarbha region Pharmacy colleges in Maharashtra State.

### **Research Methodology**

In this study Survey Method was adopted for data collection. For the collection of data structured questionnaire was used. The online questionnaire was sent to Pharmacy teaching professional and students. For analysis and interpretation of data some statistical method was used.

### **Data Analysis**

Online questionnaire was sent to 400 pharmacy professionals. Among that 318 responded the questionnaire. All the responded 318 questionnaires were selected for the data analysis and interpretation. Data is analyzed on following base

1. Designation wise responses...
2. Opinion on ICT based teaching...
3. Knowledge and Use of ICT...
4. Opinion on Portals and educational sites...
5. Impact of ICT on learning and teaching...
6. Role of Library...

**Table 1. Designation Wise Responses**

<b>Designation</b>	<b>N=318</b>
Principal	08
HOD	04
Director	01
Professor	13
Associate Professor	21
Asst. Professor	94
Sr. Lecturer	05
Lecturer	35
Pharmacy students	135
Other(Medical Representative/Quality control officer/ Research executive/Research fellow/scientist/ Pharmacist)	12

Table -1 shows the distribution of designation wise respondents. Maximum respondents are Assist. Professors (94) and Pharmacy Students (135) which are play main role in teaching and learning process. So that survey result is very fruitful.

**Table 2. Analysis of Opinion on ICT Based Teaching and Learning**

<b>Opinion</b>	<b>YES</b>	<b>NO</b>	<b>Total (N=318)</b>
Important of ICT in education	316	02	318
ICT can counter the shortcoming of traditional learning	278	40	318
ICT impact on daily life	281	37	318
ICT change method of communication with students	300	18	318
ICT raise educational standard	288	30	318

Table-2 Shows the data on opinion of role of ICT in teaching and learning process. Almost all (316/318) the users are agreed to important of ICT in teaching and learning process. 278 users are agreed to ICT support to traditional learning. 281 users are agreed to impact on ICT on their daily life. Up to 90% respondents are agreed that ICT change the way of communication. 288 Professional are agreed that ICT raise the educational standard.

**Table 3. Knowledge and use of ICT**

<b>Gadgets used as ICT Tools</b>	
Laptops	209
Desktop	117
Mobile with Internet facility	189
iPod	01
iPad	06
Pen drive	132
External hard disk	66
Other	00
<b>Browsing hours in a week</b>	
>2 Hrs	78
2-4 Hrs	72
4-6 Hrs	62
6-8 Hrs	62
8-10 Hrs	48
<10 Hrs	55

Table -3 shows that utilization of ICT tools 100% respondents are aware of all the ICT tools. Among that 209 respondents use their personal laptop, and 45% respondent use desktop. As per study Pen drive is more popular than external hard disk about storing the data. The browsing hours vary user to user. The highest ownership of ICT tools found in the survey like Laptop and smart phone with internet facility.

**Table 4. Knowledge and use of Portals and Educational Sites**

<b>Online educational portals</b>	<b>N=318</b>	
NPTEL	108	
PG PATHSHALA	21	
NATIONAL DIGITAL LIBRARY	88	
SWAYAM	22	
SWAYAM PRABHA	00	
DELNET	04	
UGC	12	
CEC	01	

AICTE	20	
PCI	48	
Communicate to student with educational portals		
Always	144	
Sometimes	309	
Never	08	
Other	01	
Preferred content type from portals		
Online text	173	
e-books	194	
Interactive Content	54	
Online Video lectures	82	
How change the way of reading book		
Prefer reading softcopies/e-book	170	
Don't read the entire e book, read only selected book	80	
Read e-book by key word search	39	
Not reply	16	
Educational Content		
Use online educational content	280	38
Interest Creation of Educational portal	297	21
Reliability of Content available on portal	263	45
ICT change the way of reading books	267	51

Table-4 shows knowledge of educational portal and educational sites. Almost all the user has maximum knowledge of educational portal and educational sites. Some educational sites and portal may be aware by library to user which is less use by respondents. All the respondents are now ready use sometime communicate to student by this portal and site. Maximum users are assured the reliability of content on the site and portal. E-books are mostly preferred by maximum respondents as

content of portal. Maximum professionals are preferred to read softcopies of book on portal and sites.

**Table 5. Impact of Ict on Learning and Teaching**

	YES	NO
Reduce student's dependency on teacher	232	86
ICT help to teach and learn better	232	86
ICT help to meet global standard	306	12

Table-5 elaborate the impact of ICT on pharmacy education teaching and learning. Maximum professionals are agreed that ICT reduces dependency of students on teacher i.e.self-education step is arising by ICT in education system. Maximum professionals are agreed to ICT brings better environment for teaching and learning. Maximum professionals are agreed that ICT can brings global standard in education.

**Table 6. Shifting Role of Library**

	YES	NO
Library provide online service or product	202	116
Library provide open access link of database is useful	245	73
Library Knowledge consultancy service Useful	213	105
College website has link for college library	269	149
College Library develop web portal	164	154
Need of support of ICT based library service	289	29

Table-6 shows the shifting role of library by using ICT tools. Maximum user demand library as services provider for reliability of information. Maximum user found library open access link of database is useful. Library provide knowledge consultancy service is also remarked as satisfied by maximum professionals. Maximum professional is depending on library link on college website to gain knowledge. Maximum member is wanting library develop web portal. Maximum member need in ICT based library service.

## Conclusion

The study has revealed that Use of ICT tools among Pharmacy Professionals for gaining knowledge is high. However, most of pharmacy professional aware about use ICT tools and techniques effectively. Most of the database, Website and portal

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are identified by them. Most of the professional must literate about educational site and portal by library so that they will aware almost all the sites and portal of education. Library also play role to promote maximum use of ICT by giving them ICT based library service. Library also support them to create educational portal. Maximum user is till depend on library for awareness of site, portal and online content of subject related.

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