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# A STUDY OF WEBSITES IN DISSEMINATION OF INFORMATION AMONGST MEDICAL PRACTITIONERS PRACTICING IN MULTI-SPECIALTY HOSPITALS IN NAVI MUMBAI)

<sup>1</sup> Priyanka Rane, <sup>2</sup> Manasi Niwane <sup>1</sup>Assistant Professor, <sup>2</sup>MBBS <sup>1</sup>Department of Physiology <sup>1</sup>MGM Medical College, Navi Mumbai, India

**Abstract:** This is an era of information explosion which is greatly fueled by internet and online means of communication. Updates on recent advances in medicine are made every day. **Aims & objectives:** The study is a descriptive survey conducted among medical practitioners to find out the popular websites, mode, manner of use & time spend, extent of its use, current usage trends, up-gradation of their knowledge & skills, particular advantages for improvement in techniques, authenticity and precautionary measures while using the websites. **Materials & Methods:** 200 medical practitioners with at least a postgraduate degree and practicing in multi-specialty hospitals in Navi Mumbai a questionnaire based on 19 questions- Likert Scale was used to analyze the respondent's data. **Result** was calculated by detailed analysis- methods of SPSS used - Chi square test showed significant value P < 0.05 & its Correlation, Group Statistics, Independent Samples Test, and Cross tabulation tests. It showed 91 gave first preference to Facebook & least to Blogging services as 2. The Websites used once a week and preferred search engines Google

87. The purpose for using online forums as listed by practitioners was 66 for update of MCI guidelines while least as 1 to provide contact details of physicians. Resources preferred during diagnosis and to learn some new technical knowledge or skills were 44 for online means & 28 only offline means. **Conclusion**: All these variables are directly proportional to each other and are linked to patterns of usage and habits of professionals regarding their preferences while using online sources of information.

## KEYWORDS: Authentic, e-learning, Medical Practitioners, Quality, Websites.

#### INTRODUCTION

Internet is a fast-growing preferred medium of gaining and transforming knowledge by the quickest means possible. Websites offer a plethora of information regarding recent research about different aspects of medicine, such as drug development, improved techniques, and the latest patient data analysis, which helps healthcare providers to improve the quality of medical services they render to their patients, which potentially saves lives of patients and also helps in providing better palliative care.

Multi-specialty hospitals are well known for having well equipped clinics and labs to carry out various examinations and tests. It is of almost essential that the websites catering to the needs of medical practitioners be authentic as it will affect the quality of healthcare provided to patients at hospitals. In order to bring about proper diagnosis of the illness the patient is suffering from the knowledge regarding such techniques and advanced tools necessary for accurate diagnosis must be quite up-to-date.

Websites may act as an important source of knowledge for such purpose. This study is an attempt to understand the extent of use of websites, to quantify and judge the quality of websites used by medical practitioners with finding the perceived authenticity, satisfaction level of physicians with available online content, and existing lacunae present in the online system of dissemination of knowledge amongst practitioners.

#### **OBJECTIVES**

- 1. To study the popular websites and the extent of use of those websites by medical practitioners & to explore the current trend of use of websites
- 2. .To analyse the mode, manner of use, and time spent on websites by medical practitioners for up-gradation of their knowledge & skills.
- 3. To find out improvement in technique and skill.to medical practitioners using websites
- 4. To find out the number of websites referred to as authentic by medical practitioners and websites used to suggest precautionary measures while using the websites.

#### MATERIALS AND METHODS

**Central Theme:** to find out the kind and pattern of the trend observed in using websites by medical practitioners working in Multi-Specialty Hospitals in Navi Mumbai.

**Research Technique:** The researcher plans to undertake questionnaire-based surveys to analyze the website usage of medical practitioners after the personal interview of 20 medical practitioners consisting of a structured validated questionnaire based on 19 questions- Likert Scale was used to analyze the respondent's data. All the items were measured on a 5 point likertscale:-1 (strongly disagree), 2 (disagree), 3 (neutral),4 (agree) &5 (strongly agree)..The study design is descriptive for analysis purposes.

The questionnaire & interview framed were comprised of two main sections

- 1) First section comprised of Personal information which was designed to know the demographic variables of the respondent professionals.
- 2) The second section of five sub sections and the variables within each sub section were framed to extract abstract variables influencing area of study under the concerned project i.e. Website & Current Trends, Mode/Manner of Use/Extent of Use/ Skills/Advantages/Purpose, Authenticity and Recommendations. Each of variables are contributes several elements to analyze nd record the variables influencing the objectives of the present research. Population: The population considered for the study of medical practitioners with at least a postgraduate degree and practicing in multi-specialty hospitals in Navi Mumbai.

Inclusion Criteria: Medical practitioners working in multi-specialty hospitals in Navi Mumbai.

Exclusion Criteria: Undergraduate students, Postgraduate students, Ayush doctors, Paramedical staff & students, dental students & dentists.

**Sample:** The study included a convenience sample. The sample size is 200, questionnaire contains 19 questions on- Likert Scale.

Study Design: Retrospective quantitative content analysis of purposive randomly selected responses.

## Hypothesis Testing

- H0: Regularly updated authentic websites do not help medical practitioners to update their knowledge and improve their skills.
- H1: Regularly updated authentic websites help medical practitioners to update their knowledge and improve their skills

For calculating detail analysis methods of SPSS used - Chi-square test, Correlation, Group Statistics, Independent Samples Test, and Cross tabulation

Period: 2 Months, Place of Study: Navi Mumbai

## **OBSERVATIONS AND RESULTS**

The questionnaire was sent to a total 300 medical practitioners through email and 50 hard copies personally handover with an intention to have about 200 sample size for current study.

128 male respondents and 72 female respondents agreed to participate in the study (graph 1a).

The study had respondents as postgraduates as well as senior faculty working at MGM Group of Hospitals, Navi Mumbai, taking in account diverse ages as well as different generations of doctors for comparison.

The observation and results are based on primary data collected through a questionnaire by the researcher. The reliability and validity of the data collected are presented in **Tables 1-8**.

#### **Table 1 Reliability Statistics**

Cronbach's Alpha	No. of Items
0.830	13

The Cronbach's alpha values for all the 13 variables are shown

#### Table 2: Item Statistics

		Mean	Std.	Ν
	Items		Deviation	
1.	Which are the websites you use at least once a week (Rank the options according to your preference)	2.87	2.156	200
2.	What are your preferred search engines while searching for knowledge (theoretical) and / technical based content:	2.11	1.102	200
3.	What is your frequency of use of websites: (Per Day)	1.91	1.052	200
4.	Do you prefer to follow: (Rank according to your preference)	2.35	0.793	200
5.	Do you prefer to access internet/ websites/Online forms while(Rank according to your preference)	2.84	0.907	200
6.	What is your preferred device for accessing information available on internet: (Per Day)	2.09	1.304	200
7.	What is your purpose for using online forum? (Rank according to your preference)	3.24	2.803	200
8.	If you want to learn some technical knowledge or skills which resources would you prefer over the other (Rank according to your preference)	2.44	1.362	200
9.	If you want to revise some technical knowledge or skills which resources would you prefer over the other? (Rank according to your preference)	2.23	1.399	200
10.	While attempting to diagnose 'unusual' cases would you diagnose on the basis of information provided by : (Give Rank according to your preference)	2.43	1.262	200
11.	What is your observation regarding intervals of website updates?	3.45	1.773	200
12.	Do you feel Websites serve expected purpose:	3.44	0.906	200
13.	Do you often get clickbaited while searching for information on online forms.	2.48	0.891	200

The above table shows mean, standard deviation for the item in questionaire for 200 according to likert scale.

#### Table 3: Chi-Square Tests

1.

2.

· · · · · · · · · · · · · · · · · · ·			
	Value	Df	Asymp. Sig. (2-sided)
Pearson Chi-Square	89.313 <sup>a</sup>	32	0.000
Likelihood Ratio	37.189	32	0.242
Linear-by-Linear Association	0.090	1	0.765
N of Valid Cases	200		
a. 35 cells (77.8%) have expecte	d count les	s than 5. Th	e minimum expected count is .01.

The second phase of data analysis is to assess the internal reliability of the measuring instrument, which is used to test the variables in the model and to prove the data is 'true data'. This was done by calculating coefficient scores using the software SPSS version 20.0. It is presented in tables -Reliability Statistics, Cranach's alpha values, Item Statistics, Scale Statistics. T-Test: In the above analysis, the researcher fails to reject the null hypothesis since the F-value is 0.945 and its associated significance value is 0.333, which is greater than 0.05. The T value is 0.250, and the associate significance value is 0.803; therefore, we do not reject the null hypothesis for equality of means. Chi-square test : In the above analysis, the researcher found that the value of Pearson Chi-Square is 89.313, and the associated significance value is 0.000, which is less than 0.05. Therefore, the null hypothesis is rejected, and we say there is an association between Q1 and Q2.

The significant variables are found to be directly related to each other using tests such as the Chi-square test, Correlation, Group

Statistics, Independent Samples Test, and Group Statistics, Cross tabulation are:

Websites used once a week and purpose for using an online forum

Frequency of use of websites and purpose of use of websites

- Observation regarding website updates and purpose for using an online forum
- 3. Advice preferred from which source during diagnosis and method preferred to revise existing knowledge 4.
- Advice preferred from which source during diagnosis and method preferred to learn technical knowledge 5.
- Method preferred to learn technical knowledge and preferred time to access internet/websites 6.

## **Data Analysis and Evaluation**

## Table No 4: Analysis on the basis of Gender

Sr. no.	Particulars	Responses
1	Male	128
2	Female	72
	Total	200

In above table showed, out of 200, 128 were males and 72 were female

## Table No 5: Analysis on the basis of Educational Qualification

Educatio	onal Qualification:	
Sr. no.	Particulars	Responses
1	Graduate	39
2	Post Graduate	161
	Total	200

Above table showed, about 161 post graduate residents and 39 faculties from diverse specialties participated in the study, from which, 128 were males and 72 were females.

## Graph 1 & Table No 6: Analysis on the basis of Uses of Websites



1	Which are the websites you use at least once a week (Rank the options according to your preference)		
Sr no	Particulars Responses		
а	Facebook	91	
b	Linkdin	20	
с	Twitter	9	
d	MySpace	5	
e	You tube	58	
f	Research Gate or Academia	6	
g	Blogging Services	2	
h	Any Other	9	
	Total	200	

It was found out that regarding use of websites, 91 respondents gave first preference to Facebook, 20 respondents to Linkedin, 9 respondents to Twitter, 5 respondents to MySpace, 58 respondents to Youtube, 6 respondents to Research gate, 2 respondents to Blogging services, rest visited other resources atleast once a week

Graph 2& Table No 7: Analysis on the basis of Preference of search engines



The search Engines having top preference are in order of Google leading with 87 respondents giving them first preference, Pubmed getting 66 respondents, Medline getting 24 respondents and other search engines being used by rest 23 respondents. Amongst other search engines Duckduckgo was listed as top preference by 20 respondents





What is websites	What is your frequency of use of websites: (Per Day)			
Sr. no.	Particulars	Responses		
А	1 to 2 Hours	93		
В	2 to 4 Hours	56		
С	4 to 6 H <mark>ours</mark>	26		
D	More than 6	25		
	Hours			
Total		200		

The time taken by most practitioners on internet at a stretch was another variable, with most practitioners devoting 1-2 hours (93 respondents) 2-4 hours (56 respondents) 4-6 hours (26 respondents) more than 6 hours (25 respondents).





It has been observed that 36 respondents follow eminent specialists, 58 respondents follow medical institutes/ schools and 105 respondents follow government websites on first preference basis.

Graph 5 & Table No 10: Analysis on the basis of Frequency of Use of Websites



The habits of internet usage that are observed are that 52 practitioners access internet during spare time during consultation/clinic, 50 respondents like to sit at a stretch using preferred device, 218 respondents access during travelling, 78 respondents during working hours and 2 respondents during non working hours.

Graph 6 & Table No 11: Analysis on the basis of Frequency of Use of Websites



	What is your preferred device accessing information available internet: (Per Day)			
Sr. no.	Particulars	Responses		
А	Laptop	102		
В	Smartphone	33		
С	Tablet	10		
D	PC	54		
Е	Any other	1		
Total		200		

The devices listed as first preferred to access these websites are Laptop with 102, Smartphone with 33, Tablet with 10, PC with 54 and other preference by 1

Table No 12: Analysis on the basis of Frequency of Use of Websites

		What is your purpose for using online forum? (I	Rank according to your
Sr.	no.	Particulars	Responses
A		MCI guidelines	66
В		Law	48
C		Social activity	24
D		Latest research	18
Е		Latest/ trending journals	7
F		Tutorials from other eminent / renowned specialist	10
G	1	Latest technological advancement	6
Н		Orientation/refresher courses	7
Ι	7	To reach correct diagnosis	5
J	5	Past your own tutorial blog	2
Κ		Socio-medical campaigns & programs	3
т		To create platform for patients to access contact details of	
L		physicians	1
Μ		Any others	3
Total			200

The purpose for using online forum as listed by practitioners are (66 respondents) to keep updated about MCI guidelines, (48 respondents) to keep updated about law, (24 respondents) for social activity, (18 respondents) for latest research, (7 respondents) for latest/ trending journals, (10 respondents) for tutorials from eminent specialist, (6 respondents) to keep track of latest tech advancement, (7 respondents) for orientation/ refresher courses, (5 respondents) to reach correct diagnosis, (2 respondents) to post own tutorial blogs, (1 respondents) to provide contact details of physicians and (3 respondents) listed other reasons.

## Graph7 & Table No 13: Analysis on the basis of Frequency of Use of Websites



If you want to learn some technica knowledge or skills which resources would you prefer over the other (Rank according to your preference)8		
Sr. no	).Particulars	Responses
А	Online means	44
В	Offline means	69
С	Both equally	41
D	Only online means	18
Е	Only offline means	28
Total		200

For practical learning, online means are preferred by 44 respondents, offline by 69 respondents, exclusively online by 18 respondents, exclusively offline means by 28 respondents and both equally by 41 respondents.





While attempting to diagnose unusual cases first preference by practitioners for attempting diagnosis or for

Whil	e attempting to diagnose	'unusual' cases
woul	d you diagnose on the basi	is of information
provi	ided by : (Give Rank ac	cording to your
prefe	erence)	
Sr. no.	Particulars	Responses
a	Senior Specialist 1	65
b	Colleagues 3	40
с	Classroom/ medical school teaching experience 2	57
d	Online forum by eminent specialist	26
e	Online forum by renowned university	10
f	Any other offline means or Forum: (Please Specify)	2
Tota	1	200

asking advice was given to senior specialist by 65 respondents, colleagues by 40 respondents, classroom experience by 57 respondents, online forum by specialist by 26 respondents, online forum by university 10 respondents, any other offline means by 2 respondents.

Graph 9 & Table No 15: Analysis on the basis of Frequency of Use of Websites



What is your observation regarding intervals of website updates?		
Sr. no.	Particulars	Responses
А	Majority on regular basis	53
В	Some on regular basis	17
С	Only few on regular basis	16
D	Not at all	9
E	Can't say	105
Tota	1	200

Practitioners rated the websites being updated as

majority on weekly basis by 53 respondents, some on weekly basis by 17 respondents, only few on regular basis by 16 respondents, not at all by 9 respondents and can't say by 105 respondents

C.		
51. no.	P <mark>articulars</mark>	Responses
Α	Strongly disagree	5
В	D <mark>isagree</mark>	10
С	N <mark>eutral</mark>	111
D	Agree	42
E	Strongly agree	32
Total		200

Table No 16: Analysis on the basis of Frequency of Use of Websites

Most of the practitioners on being asked if websites serve expected purpose answers were strongly disagree by 5 respondents, disagree by 10 respondents, Neutral by 111 respondents, Agree by 42 respondents and Strongly agree by 32 respondents

Table No 17: Analysis on search of clickbaited on online forms

	Do you often get clickbaited while searching for information on online forms.				
Sr.no.	Particulars	sponses			
А	Too much	3			
В	Sometimes	132			
С	Rarely	44			
D	No	3			
E	Can't say	18			
Total		200			

Above Total

showed regarding clickbaits, 3 respondents rated it as too much, 132 respondents as sometimes, 44 respondents as rarely, 3 respondents as no, and 18 respondents as can't say

table

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## DISCUSSION

The study found out that amongst respondents, all of them had their permanent or temporary residential address as Navi Mumbai and had a range of experience from minimum of 3 years in residency till atleast 20 years of experience in clinical work. About 161 post graduate residents and 39 faculties from diverse specialties participated in the study, from which, 128 were males and 72 were females.

A large number of medical professionals take this advantage of websites for professional purposes. Li X, Gray K, Verspoor K, Barnett S showed that online social networks enable health professionals to learn informally for sharing knowledge or discussing practice management challenges and clinical issues .This correlated with the findings as the statistics found out in the study strongly hinted at patterns regarding usage of websites pertaining to social media in most of the professionals

In this study it was found out that regarding use of websites, 91 respondents gave first preference to Facebook, 20 respondents to Linkedin, 9 respondents to Twitter, 5 respondents to MySpace, 58 respondents to Youtube, 6 respondents to Research gate, 2 respondents to Blogging services, rest visited other resources atleast once a week. Facebook, Youtube, Linkedin, are popular websites that are used for online means of communication as well as to run various short vlogs in which the concerned person could publish short clips of various procedures.

In a quantitative study conducted by Grajales F, Sheps S, Ho K, Novak-Lausch in 2014 showed that the role of social media in the medical and health care sector is far-reaching, in terms of governance, ethics, professionalism, and information quality with Both traditional as peer-reviewed and newer methods like policies, case studies, and social media content through 76 articles, 44 websites, and 11 policies/reports sources were used showed blogs, microblogs, Facebook LinkedIn, Wikipedia, HealthMap, YouTube, Slideshare were commonly used

The search Engines having top preference are in order of Google leading with 87 respondents giving them first preference, Pubmed getting 66 respondents, Medline getting 24 respondents and other search engines being used by rest 23 respondents. Amongst other search engines Duckduckgo was listed as top preference by 20 respondents. Usually research is not taken up as an interest popularly by clinicians. Hence there is more popularity of search engines such as google to solve clinical diagnosis related dilemmas which are far more common in practitioners than using specialized search engines such as Pubmed or Medline, as these can be used to only read or keep up with latest research. So considering their specificity and in general lack of textual and clinical information in desired format, usually Google is preferred. Simila review by Patel SS, Majhail NS Micro-blogging platform Twitter has been used by blood and marrow transplant physicians over the last several years with increasing enthusiasm. Wikipedia employed in medical education with proper planning and instructional design, reviewed by Rasmussen.

Relevance of videos retrieved using the moderation service was higher compared to the relevance of the videos retrieved using the YouTube search engine. According to the Pew Research Statistics Center, 79% of adults who are online use Facebook, 76% of whom access the site daily through Centre PR .social media update 2016. website.

The time taken by most practitioners on internet at a stretch was another variable, with most practitioners devoting 1-2 hours (93 respondents) 2-4 hours (56 respondents) 4-6 hours (26 respondents) more than 6 hours (25 respondents). This variable is completely related to individual habits and online lifestyle of the respondents. Lack of time to sit at a stretch to read online forums is a crippling factor present in study.

It has been observed that 36 respondents follow eminent specialists, 58 respondents follow medical institutes/ schools and 105 respondents follow government websites on first preference basis. This corresponds to the perceived authenticity of information published by these forums, obviously the higher numbers of followers following authentic sites of information. Also interest in governance and latest rules put forth by the government is far more considered to be important by the study respondents. Hence the observed bias.

The habits of internet usage that are observed are that 52 practitioners access internet during spare time during consultation/clinic, 50 respondents like to sit at a stretch using preferred device, 218 respondents access during travelling, 78 respondents during working hours and 2 respondents during non working hours. These again come in the purview of individual habits as they exist of doctors engaged in using online forums. Here, the time spent in travelling is greater for respondents in study hence to utilize time, online forums are accessed during travelling. There is no general bias in whether the practitioners would prefer to use these forums during during during travelling.

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clinics or outside clinics. This is correlated with the review article on Health Care Professionals to Create Virtual Communities by Rolls K, Hansen M, Jackson with 72 research studies published between 1990 and 2015 concluded that – 22 for Listservs ,18 for Twitter, 17 for general social media, 7 for discussion forums, 3 for Web 2.0 & virtual community of practice ,1 for wiki and Facebook in all.2017 review article by Petrucci M, Chand M, Wexner SD outlined the various platforms for social media as a tool in surgical education .

The devices listed as first preferred to access these websites are Laptop with 102, Smartphone with 33, Tablet with 10, PC with 54 and other preference by 1. Again this question relates to habits as well as finance that is available to such practitioners.

The purpose for using online forum as listed by practitioners are (66 respondents) to keep updated about MCI guidelines, (48 respondents) to keep updated about law, (24 respondents) for social activity, (18 respondents) for latest research, (7 respondents) for latest/ trending journals, (10 respondents) for tutorials from eminent specialist, (6 respondents) to keep track of latest tech advancement, (7 respondents) for orientation/ refresher courses, (5 respondents) to reach correct diagnosis, (2 respondents) to post own tutorial blogs, (1 respondents) to provide contact details of physicians and (3 respondents) listed other reasons. Here we can observe tremendous bias towards reading habits over publishing habits of practitioners, with only 2 respondents preferring to publish information while others use internet to gain information. The preference leans towards government websites, social activities and research. The researchers Dr. Rachel Moon and colleagues in 2012 only analyzed the first 100 websites identified by each of the thirteen Google searches (total of 1300 websites). Only 43.5% of these 1300 websites contained recommendations that were in line with the AAP(American academy of paediactrics) recommendations, while 28.1% contained inaccurate information and 28.4% of the websites were not medically relevant.

In present study for practical learning, online means are preferred by 44 respondents, offline by 69 respondents, exclusively online by 18 respondents, exclusively offline means by 28 respondents and both equally by 41 respondents. These statics show the changing preference of medical practitioners towards online means of gaining knowledge but yet the offline means is still considered better by many. While attempting to diagnose unusual cases first preference by practitioners for attempting diagnosis or for asking advice was given to senior specialist by 65 respondents, colleagues by 40 respondents, classroom experience by 57 respondents, online forum by specialist by 26 respondents, online forum by university 10 respondents, any other offline means by 2 respondents. Here it is not always possible to know correct diagnosis through online means by lack of specific searches in time as compared to books and consultation which is always at hand and ready for the concerned respondents, hence the statics point towards the same direction. Practitioners rated the websites being updated as majority on weekly basis by 53 respondents, some on weekly basis by 17 respondents, only few on regular basis by 16 respondents, not at all by 9 respondents and can't say by 105 respondents. The comment was that usually the practitioners notice lack of updated knowledge when it is grossly incorrect and inaccurate. This is far worse as they in spite of such browsing behaviour rate the websites to less updated and therefore lose interest. This is a vicious cycle- as lack of interest continues the few dedicated websites further become just as disinterested as its predecessors due to lack of response.

Most of the practitioners on being asked if websites serve expected purpose answers were strongly disagree by 5 respondents, disagree by 10 respondents, Neutral by 111 respondents, Agree by 42 respondents and Strongly agree by 32 respondents. As there is lack of knowledge and communication with regards to website that are useful, there is redundancy in websites that are less useful being accessed often, causing less satisfactory experience. However the verdict of the respondents remains neutral. Which points as improvement over other common conceptions.Regarding clickbaits, 3 respondents rated it as too much, 132 respondents as sometimes, 44 respondents as rarely, 3 respondents as no, and 18 respondents as can't say. Clickbaiting is another form of major inconvenience which cannot be completely avoided due to commercialization. However by being selective with search words these may be reduced. Also by using paid version of free apps, advertisements and clickbaits reduce significantly.

Regarding authenticity of websites, majority of the respondents were of opinion that online forums are not authentic sources of gaining and revising new skills. This is because multitude of reasons including lack of proper sources, incorrect and outdated information on official websites and some sources using names similar to authentic sources to gain more views leading to lack of accurate and authentic information available on net

In a study by Leo, LeKouge, Leriani, Niederman in 2006 stated for information & knowledge purpose online sites like -10.8% use Uptodate ,8.4% use Medscape ,5.5% use Webmd ,4.7% use Mdconsult and 2.9% use Emedicine . 19.7% use Pubmed, 3.9% use Ovid were used. In the study online forums perceived as authentic

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are ICMR Websites, Websites pertaining to national and international medical schools and universities and articles searched through Medline and Pubmed. These are authentic and reliable sources proven by the history of their creation, purpose and are widely popular for persons engaged in research due to its ease of search regarding references.

The medical news shared online by government websites is mostly perceived as authentic and accurate. Most of the practitioners suggest that there should be an increase of interest in both reading as well as publishing community online so as to make it a reputable and increase the interest of online publishers so that it will be of interest to them to maintain the levels of accuracy in their websites. The problems and issues that practitioners face while using online means of gaining information include- irrelevance of searches, clickbait, inaccurate and/or outdated information, along with possibility of fake websites publishing incorrect information especially to sell certain services or products.

CONCLUSION

- Online sources having top preference are Google, Pubmed, YouTube, Facebook, Linkedin, etc.
- The respondents follow eminent specialists, medical institutes/ schools, and government websites to know about governance and the latest rules.
- There is no general bias in during clinics or outside clinics. However, standard clinical procedures were reviewed online (in video format) for students' benefit.
- The devices listed as first preferred to access Laptops, Smartphones, Tablet, & PC to keep updated about MCI guidelines, law, social activity, latest research, and tutorials from an eminent specialist to keep track of the latest tech advancement for orientation/ refresher courses, to reach a correct diagnosis, to post own tutorial blogs, to provide contact details of physicians and other reasons.
- While seeking advice regarding diagnosis preferences were senior specialists, colleagues, classroom experience, an online forum of specialists, the university, and any other offline means.
- Few thought online forums were not authentic sources of gaining and revising new skills due to lack of proper authority, incorrect and outdated information, and lack of accurate and authentic information, while the majority were in favor or neutral.

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Conflicts of interest

There are no conflicts of interest.

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QUESTIONN	AIRE:						
"A Study of U	ses of Webs	sites in Dissen	nination of In	formation Amo	ngst Medical I	Practitioners F	racticing in
Multi-specialty H	ospitals				-		_
in Mumbai	"						
1. Name							2.
Age							
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1. which are the	websites yo	u use at least	once a week	(Rank the option	ons according	to your prefe	rence) Face
DOOK		•			<b>X</b> 7 / 1		
Linkedin	I v	vitter	Mys	space	Youtube	<u> </u>	_ Research
Gate or						• • • •	
Academia		Blogging	services	Any	Other : (Please	e specify )	
2. What are your	preferred se	earch engines	while search	ing for knowle	dge (theoretic	al) and / tech	inical based
content: Google_							
Medline	Pubr	ned	Any other		_		
3. What is your f	requency of	f us <mark>e of webs</mark>	ites: (Per Day	y) 1 to 2 hours	2 to 4	4 Hours	4 to 6
Hours							
More than 6 H	ours	\					
4. Do you prefer t	o follow: (F	Rank accordin	g to your pref	erence) Eminer	nt specialists r	elated / belong	ging to your
field of							
specialization	Me	dica <mark>l scho</mark> ols		G <mark>ovt. Webs</mark>	sites	Any oth	er Eminent
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Websites	An	y other				) /	I.
B) Mode/ Manne	er of Use / H	Extent of Use	:				
5. Do you prefer t	o access inte	ernet/ website	s/Online form	is wh <mark>ile(Rank a</mark>	ccording to yo	our preference)	) Spare time
during clinic/con	sultation	Sit a	at a stretch u	sing preferred	device	Whil	e travelling
Wo	rk hours		Non-wo	ork hours		Spare tin	ne during
clinic/consultation	1	Sit at a	stretch usin	g preferred d	evice 🔗	While	travelling
W	ork hours		Non-work ho	urs	$\sim \tau$	)	e
						2 <sup>47</sup>	
6. What is your p	referred dev	ice for access	ing information	on available on	internet: (Per	Dav)	
Lapton			8		(	/	
Smartphone							
Tablet		-					
Any other							
C) Shille/ A de	ontogog/ D						
U) SKIIIS/ AQV	antages/ Pl	in a online f	••••••••••••••••••••••••••••••••••••••	a andin a to			
/. w nat is your pu	rpose for us	ing online for	uin ? (Kank ac	cording to your	preference) M	L stort / tran 1	1
Law	Social	from a st	Late	est research	·	Latest/ trendi	ng journals
	I utorials	from other	eminent / re	enowned speci	anst	Latest te	cnnological
advancement		Orientation	retresner co	ourses	10_1	each correct	diagnosis

Past your own tutorial blog \_\_\_\_\_\_ Socio-medical campaigns & programs \_\_\_\_\_ To create platform for patients to access contact details of physicians\_\_\_\_\_\_ Any others

8. If you want to learn some technical knowledge or skills which resources would you prefer over the other (Rank according to your preference) Online means \_\_\_\_\_ Offline means \_\_\_\_\_ Both equally Only online means \_\_\_\_\_ Only offline means \_\_\_\_\_

9. If you want to revise some technical knowledge or skills wIf you want to learn some technical knowledge or skills which resources would you prefer over the other (Rank according to your preference) Online

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means Offline means	Both equally _	Only online	means Only
offline means			
10. While attempting to diagnose 'unusu	al' cases would you d	liagnose on the basis of	f information provided by :
(Give Rank according to your preference	e) Senior Specialist	Colleagues	Classroom/ medical
school teaching experience	_ Online forum by	eminent specialist	Online forum by
renowned university	Any other	offline means	or Forum: (Please
Specify)			
11. Do you feel online forums provide	healthy atmosphere f	or resolving conflicts	of interest? Yes/ No: Give
reason		-	
12. What is your observation regarding	intervals of website up	pdates? Majority on re	gular basis Some
on regular basis Only fe	w on regular basis	Not at a	ll Can't say
13. Do you feel Websites serve expected	ed purpose: Strongly	disagree l	Disagree Neutral
Agree Strongl	y agree		
14. Do you often get clickbaited whil	e searching for infor	rmation on online for	ms. Too much
Sometimes Rarely	No C	Can't say	
D) Authenticity:		•	
15. Do you consider online forums to be	authentic source of g	aining and revising tec	hnical knowledge & skills:
Yes / No	) (Jus	tify yo	ur answer)
	· ·	5	,
16. State the online forums which ac	cording to your oping	nion provide authenti	c, reliable and up-to-date
information regarding you	ur specialty?	Yes /No	(Justify your
answer)	1		(on the second sec
17.Do you consider medical news shared	d on online platforms	to be misleading in nat	ure? Yes /No (Justify your
answer)	· · · · · · · · · · · · · · · · · · ·		
18. What measures will you suggest to	improve and maintai	n authenticity of infor	mation available on online
forms?	improve and maintain	if additional of milon	
			1. <b>1</b> . 1
		-/.v	
El Decommondation:			
10 Did you over receive any particular	acommondation of a	ling forum nortaining	to your apopulity? through
17. Did you ever receive any particular i	commendation of of	nme rorum pertaining	to your speciality ( unrough

19. Did you ever receive any particular recommendation of online forum pertaining to your speciality? through the options given below. Face book \_\_\_\_\_

Linkedin\_\_\_\_\_Twitter\_\_\_\_MySpace\_\_\_\_YouTube\_\_\_\_\_Research Gate or Academia \_\_\_\_\_\_ Blogging services \_\_\_\_\_\_Any Other \_\_\_\_\_

20. Would you personally recommend medical professionals to use online means of gaining theoretical knowledge and technical skills and to revise already existing knowledge and skills using online means? Yes / No (Justify your answer)

21. State problems & issues faced while using websites

22. What are your suggestions to improve the use of websites for professional up-datation& skills

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