



AWARENESS, PERCEPTION, AND READINESS OF ADULTS TOWARDS TELEMEDICINE: A STUDY IN INDIA

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UNDER THE GUIDANCE OF

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INTRODUCTION

Telemedicine is mainly the use of electronic information and communications technologies to provide health care support when distance separates the participants that is doctors and patients.

Telemedicine was initially conceived to reach patients in remote areas where reach is limited.

This telemedicine field has shown great promise, mainly in recent years. The growth and integration of information and communication technologies into health-care delivery holds great opportunity for patients, providers in healthcare systems of the future

LITERATURE REVIEW



Past studies suggested that telemedicine has become more popular comparing to last decades.



Telemedicine have huge potential, but lack of awareness and acceptance not only by common people but professional was the main barrier in mass implementation.



Absence of human touch was also the main perceived disadvantages found.

METHODOLOGY

Study Design

This study is mainly cross-sectional study based on primary data collected through online survey.

Inclusion Criteria:

People in the age group [18-65] are the participants of this study.

Exclusion Criteria:

People outside the age group [18-65] are excluded from the study.

Secondary Data:

Secondary data are being collected from sources like PubMed, google scholar, official websites and articles.

RESEARCH TOOL

A self-administered online survey form [or google form] was used as a tool to gather the primary data from target audience.

Non-probability sampling technique was done to reach the respondents.

Questions were mainly designed to assess the awareness, perception and readiness of Indian adults towards the use of telemedicine.

This survey mainly takes 2-3 minutes to complete.

SAMPLE SIZE

Following calculation method is used to identify the sample size for the current studies:

$$N = Z^2 P(P-1) / d^2$$

Where, Z=Level of significance=1.96 (at 95 % confidence interval)

P= Expected proportion (in the population) = 0.5

d= Precision (Chances of error) = 0.05

Hence,

$$N = 384$$

*** But only 317 responses were received from the online survey. Hence the original sample size is 317.**

RESEARCH QUESTION

What is the awareness level of adults towards telemedicine in India?

What is the perception of adults towards telemedicine in India?

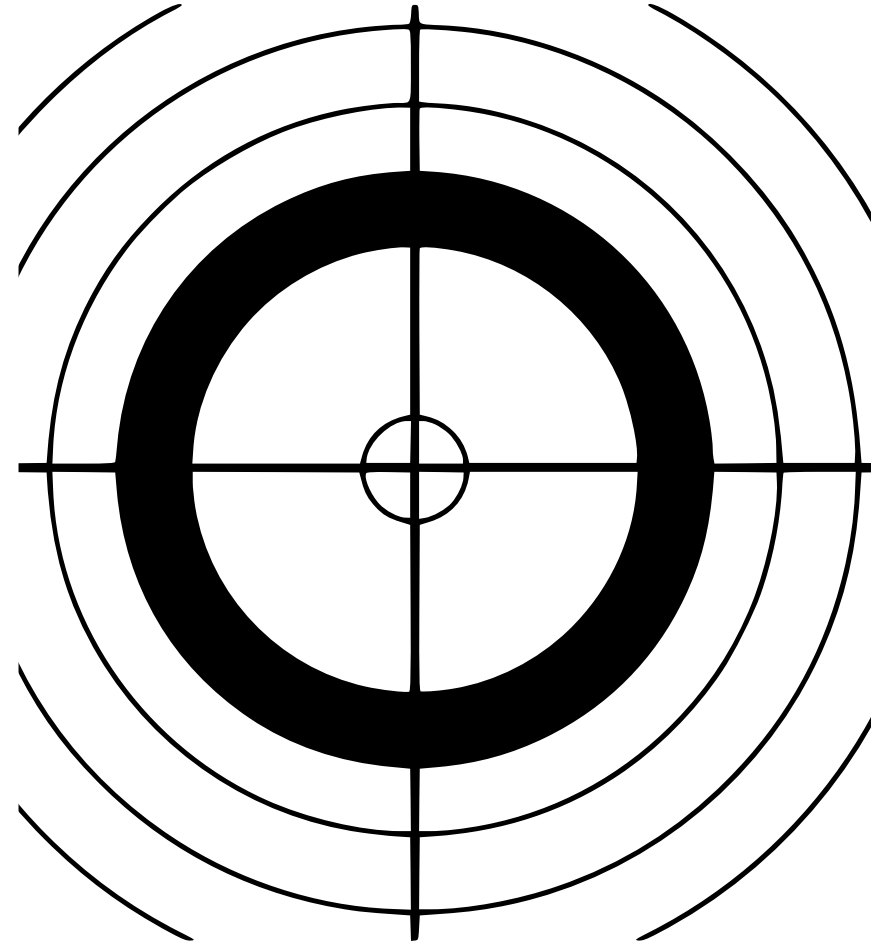
What is the readiness of adults towards telemedicine in India?



OBJECTIVES

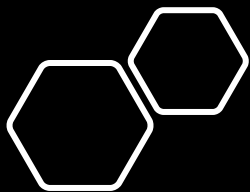
To study awareness, perception, and readiness of Indian adults towards telemedicine.

To identify key factors that impacts awareness, perception, and readiness of study population.

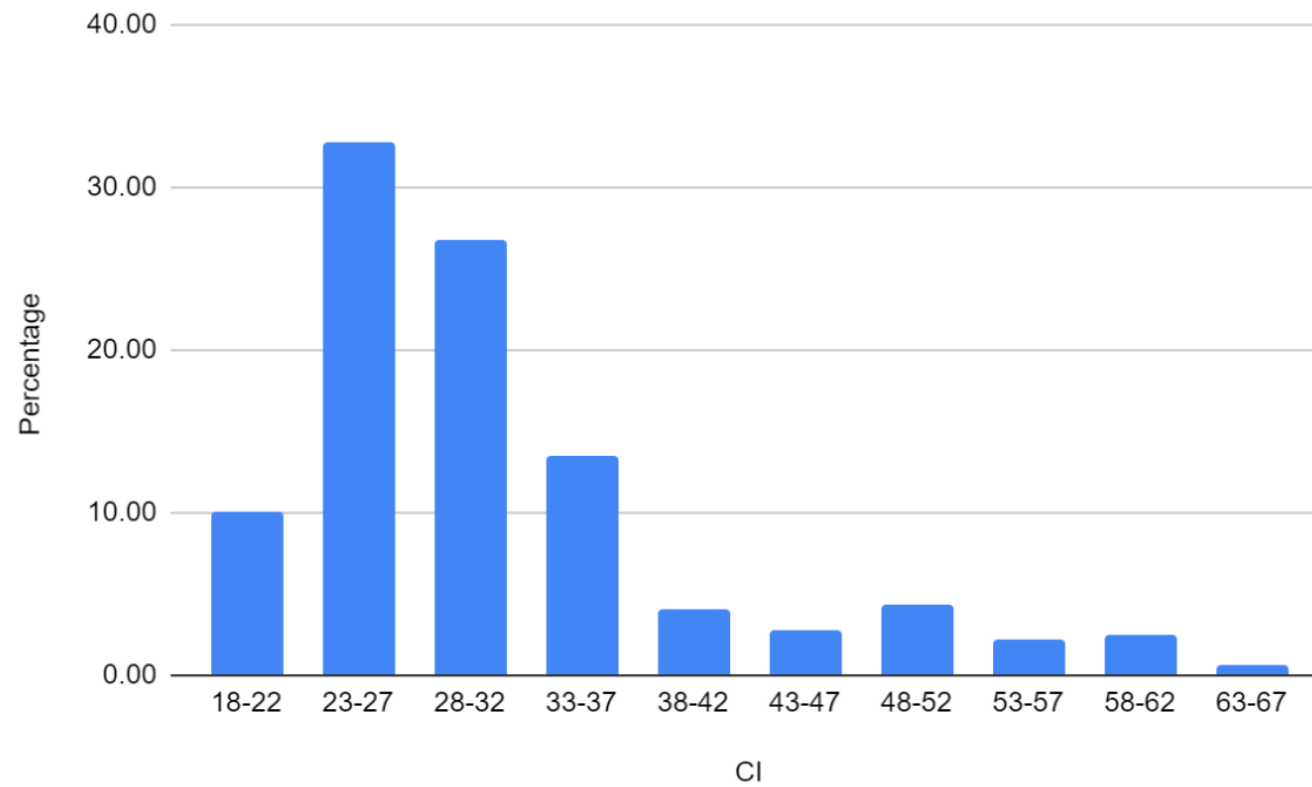




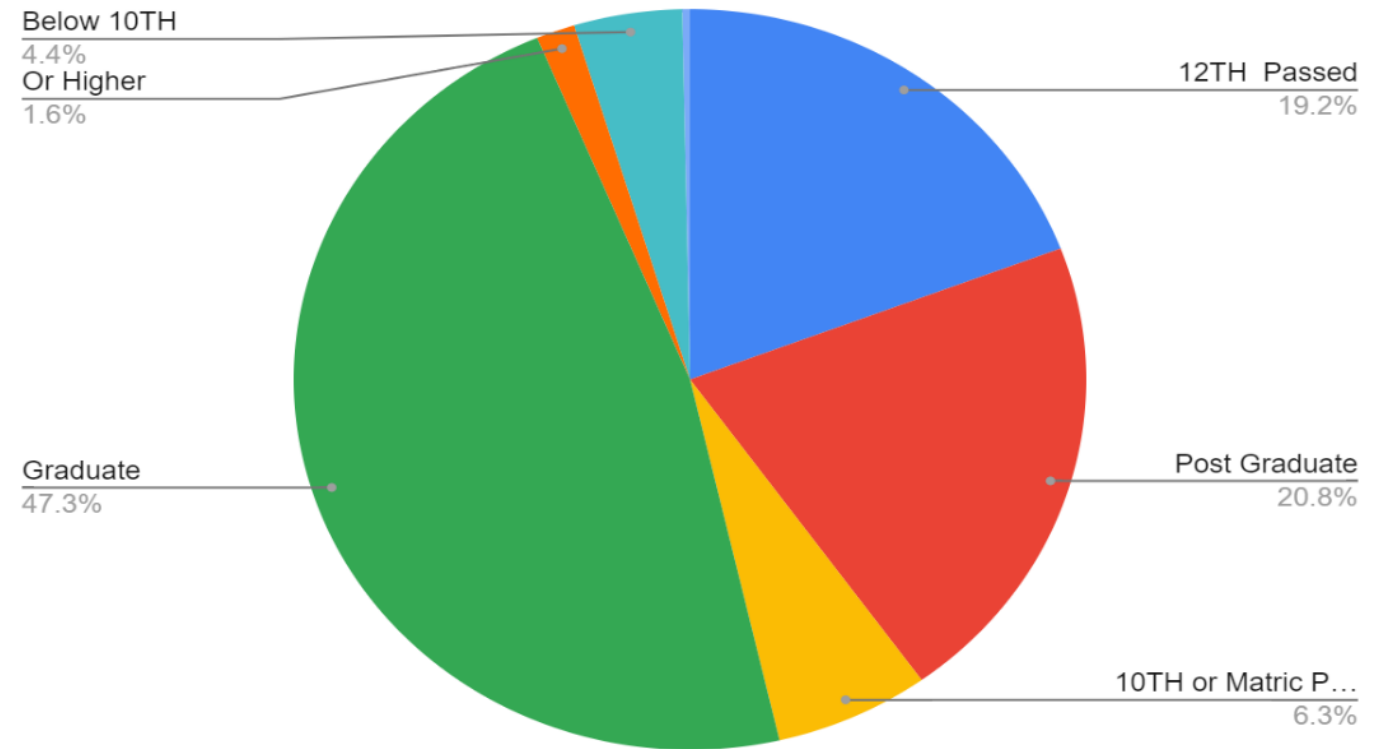
RESULTS



PERCENTAGE DISTRIBUTION OF RESPONDENTS AS PER AGE:



ACADEMIC BACKGROUND OF RESPONDENTS



STATE-WISE
PERCENTAGE
DISTRIBUTION
OF
RESPONDENTS.

State	Percentage
Jharkhand	30.91
Meghalaya	0.63
West Begal	5.36
J&K	1.58
Tamil Nadu	1.26
Bihar	9.15
Madhya Pradesh	5.05
Rajasthan	3.47
Gujrat	6.62
Odisha	2.21
Telangana	0.32
Andhra Pradesh	1.58
Chhattisgarh	0.95
Punjab	7.89
Arunachal Pradesh	1.26
Assam	1.89
Uttar Pradesh	2.52
Kerala	2.21
Karnataka	0.95
Haryana	0.95
Delhi	5.05
Goa	1.26
Maharashtra	1.89
Himachal Pradesh	0.32
Manipur	0.32
Mizoram	0.63
Nagaland	2.84
Uttarakhand	0.95

DISTRIBUTION OF RESPONSES ACADEMIC QUALIFICATION WISE

Your Highest Academic Qualification:

			Below 10th	Matric Pass	12th Pass	Graduate	Postgraduate	Or Higher	None	Total
If in case required, I would like to consult doctors via video conferencing	Disagree	Count	2	5	29	35	16	1	0	88
		Percentage	2.3%	5.7%	33.0%	39.8%	18.2%	1.1%	0.0%	100.0%
	Agree	Count	12	15	32	115	50	4	1	229
		Percentage	5.2%	6.6%	14.0%	50.2%	21.8%	1.7%	.4%	100.0%
Total		Count	14	20	61	150	66	5	1	317

CHI-SQUARE TEST TO FIND ASSOCIATION BETWEEN EDUCATION
AND BEHAVIOR OF RESPONDENTS TOWARDS OPTING
TELEMEDICINE.

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	15.653 ^a	6	.016

AGE WISE DISTRIBUTION OF RESPONSES

			Age					Total
			18-25	26-35	36-45	46-55	56-65	
If in case required, I would like to consult doctors via video conferencing	Disagree	Count	44	24	14	3	3	88
		% within If in case required, I would like to consult doctors via video conferencing	50.0%	27.3%	15.9%	3.4%	3.4%	100.0%
	Agree	Count	69	127	18	12	3	229
		% within If in case required, I would like to consult doctors via video conferencing	30.1%	55.5%	7.9%	5.2%	1.3%	100.0%
Total		Count	113	151	32	15	6	317

CHI-SQUARE TEST TO FIND ASSOCIATION BETWEEN AGE AND
BEHAVIOR OF RESPONDENTS TOWARDS OPTING
TELEMEDICINE.

	Value	df	Asymp. Sig. (2- sided)
Pearson Chi-Square	23.653 ^a	4	.000

DISCUSSION

This study suggest that many people are aware and heard this term

Advertisement is found to be major word spreader about telemedicine

It is commendable that Indian adults are highly aware of the major challenges in the implementation of telemedicine in the mass scale.

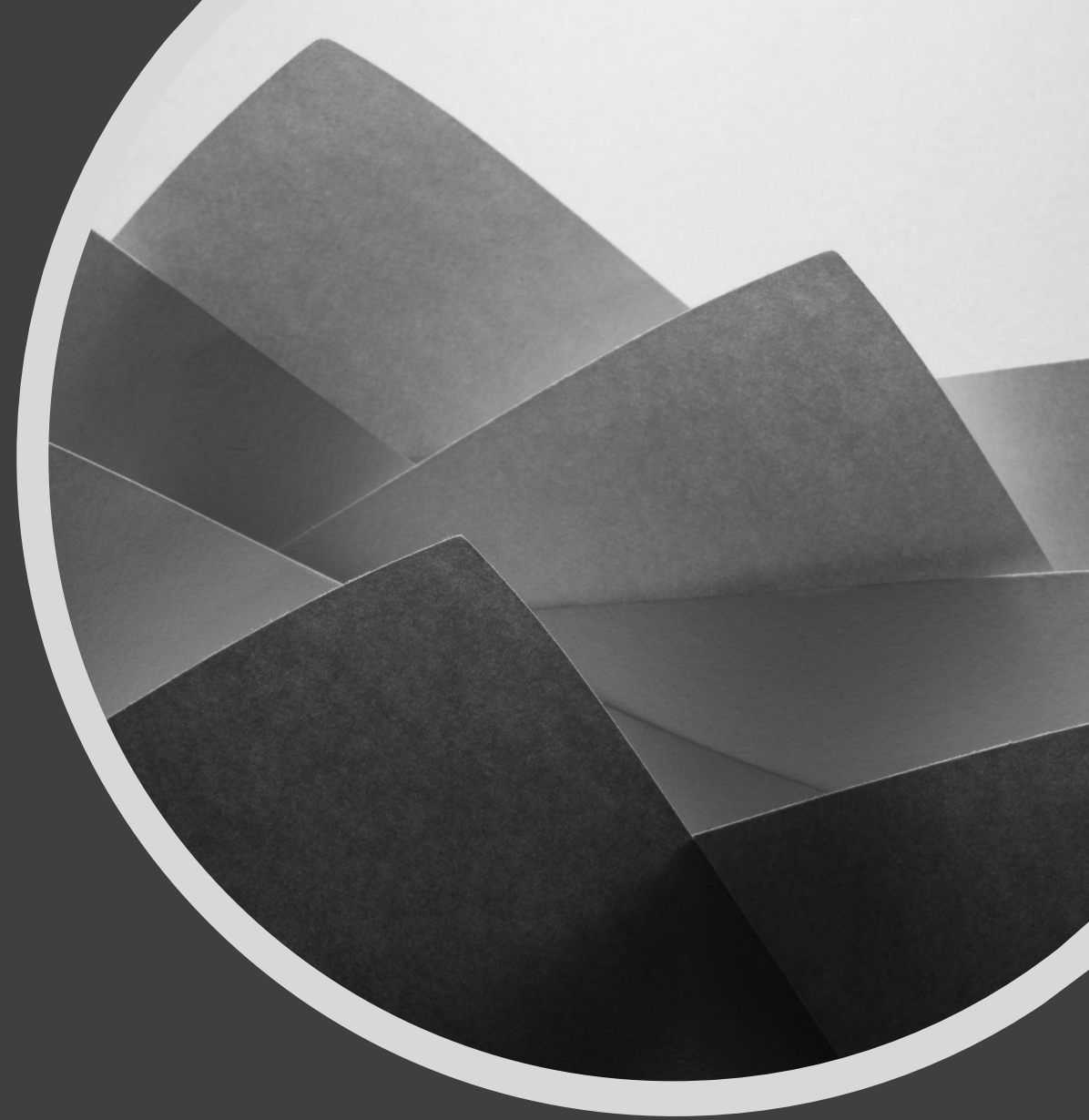
This study suggests that people have positive mindset towards the telemedicine concept, and they find it promising if it is integrated to standard healthcare systems

CONCLUSION

Indian adults are highly aware of the telemedicine technology, they have very good image of telemedicine and realized the potential of telemedicine.

Poor internet connectivity, lack of exposure to technology and poverty are some significant barriers towards the mass implementation of telemedicine in India.

Despite all odds telemedicine have seen all time high demands in recent years during Covid-19





RECOMMENDATION

It is advised to government and private players to invest their interest more in this field and design more user-friendly techniques to connect with last mile patient.



- **LIMITATION OF THE STUDY:**

- Due to lock-down in the nation this study was conducted without visiting to respondents in person.
- The major cross-section of the respondents was somehow associated with health industry of the nation.
- All the respondents were reached by the help of connections of researcher only.

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