MANAGING HEALTH CARE IN THE DIGITAL WORLD: A COMPARATIVE ANALYSIS ON CUSTOMERS USING HEALTH CARE SERVICES IN MUMBAI SUBURBS AND PUNE CITY

Dr Prashant H Bhagat[1]

Mrs Sabina Ashfaque Shaikh[2]

Chetanas Hazarimal Somani College of Commerce & Economics, Mumbai, Maharashtra, India

Abstract

Recently , most changes influencing medical services frameworks have zeroed in on working on the nature of care and containing costs. This has driven numerous researchers to advocate the appropriation of Health Information frameworks, when we talk about particularly electronic clinical records, assisting patient with utilizing simple choice by featuring their expected advantages. This investigation depends on a near examination utilizing a numerous strategy way to deal with look at the execution of a similar electronic clinical record framework at Mumbai and Pune city in various clinics. Its discoveries offer bits of knowledge into the cycles of the selection of advancement and its execution in a medical services setting. The need to advance, especially in the heath care is a must the choice to develop, the execution interaction and thusly, the outcomes delivered are very unmistakable at each examination site. This near contextual analysis uncovers that what has all the earmarks of being the equivalent can be very unique: this can be because of a few conditions at the association, the association's qualities, and the cycle of execution embraced. We need to comprehend these components to have the option to plan and oversee such projects later on.

Keywords: electronic medical records, health care, innovation, implementation

INTRODUCTION

Digitalisation in medical services is the positive effect of innovation in medical services. Here's the reason: Telemedicine, man-made brainpower (AI)- empowered clinical gadgets, and blockchain electronic wellbeing records are only a couple substantial instances of advanced change in medical services which are totally reshaping how we associate with wellbeing experts, when we enter in to the phase where nothing is predictable digitalization will help to overcome the obstacles how our information is divided between suppliers and how choices are made about our therapy plans and wellbeing results.

Research and Development is the situation here, with the fundamental objective of smoothing out doctors' work, upgrading frameworks, working on persistent results, diminishing human mistake, and bringing down costs through stunning web and versatile encounters

Healthcare and wellbeing of every one spending keeps on devouring enormous portions of public spending Against the scenery of a maturing society, which further expands the weight on medical care frameworks, medical services entertainers are looking for answers for both expense and quality issues.

MUMBAI HEATHCARE SERVICES AND DIGITALISATION

Mumbai's 2021 population presently is estimated at **20,667,656**.

Medical services in India faces a few difficulties including insufficient access, low protection entrance and a developing ongoing infection trouble. Mumbai being the crowded city has to be always ready for unforeseen circumstances like pandemic, floods, heavy rainfall etc so in these cases digitalization of health care is a must Simultaneously, conventional plans of action have thought that it was difficult to show appealing profits from venture, with the exception of a couple of huge suppliers. Innovation mixture — alongside extended foundation and efficiencies from measure enhancements — could assist with further developing medical services openness and moderateness, as per specialists who talked about arising patterns in that industry at the 2020 Wharton India Economic Forum, held for the current month in Mumbai.

PUNE HEATHCARE SERVICES AND DIGITALISATION

Pune's 2021 population presently estimated at 6,807,984 ,Pune is the most equipped city india with just 3.5 hospitals beds per 1000 people. Pune is the rapidly developing in terms of infrastructure, IT, financial hub so in this scenario it is very important it is very important to have digitalization in health care sector so that the develomet should nkt be hampered

Over the most recent couple of years, it's been incredibly reassuring to see the push for intense changes that incorporate innovation and new inventive devices to work on the personal satisfaction for Indians. The improvement of India Stack and the JAM (Jan Dhan, Aadhaar and Mobile) trinity has been significant in changing help conveyance. The COVID- 19 pandemic re-underlined the need to reconsider our wellbeing framework. The organization of computerized apparatuses to address the effect of the pandemic on other wellbeing administrations is a turning point like the dispatch of Unified Payments Interface (UPI) whichchanged the banking and exchange framework totally.

DIGITALISATION OF THE MEDICAL CARE INDUSTRY

In the Health care sector the clinical portion and medical services area have had the option tostart their excursion of digitalisation by the invasion of top of the line tech arrangements.

These mechanical headways have changed the substance of the clinical business and have disturbed the medical services area by offering technically knowledgeable answers for manage the current issues, it should be noticed that the essential being stopping the correspondence hole between patients, clinical experts, and pharma organizations. Also an important point is that one of the significant purposes behind this dramatic development will be the appropriation of best in class computerized answers for satisfy the rising and changing prerequisites and inclinations of the customers.

This huge combination of innovation with medical care is diminishing the physical and correspondence partition and is contributing significantly in further developing patient consideration benefits and is assisting with guaranteeing expanded admittance to theseadministrations at a moderate expense.

REVIEW OF LITERATURE

Huber and Gärtner (2018) has endeavor ta lot to o recognize the impacts of Health Information Systems (HIS) on a working room module in a medium-sized medical clinic in Germany. In his study they research and investigate the contrasts among self-rule and control in ordinary and furious circumstances of specialists' work, even in the health care and the effect of straightforward and even that the administration on responsibility. Concerning 'ordinary' circumstances, To HIS appear to work with every day work rehearses, because of the encoding of norms and complex rules ,obligation and regulation As to "'circumstances' where startling occasions happened and routine conduct must be suspended"

Delone and McLean (2003) in their studies has notice the characteristics of framework quality estimation; i.e., nature of information, the dependability of information, convenience, usefulness, and coordination. Framework quality covers the realities that the framework is not difficult to utilize, the nature of documentation, the presence or nonattendance of bugs in framework, and the support of nature of the program .Digitalization will help to overcome most of the hurdle and can be very helpful in the heathcare sector.

THE PRESENT AND FUTURE OF DIGITAL HEALTH

Clinical experts and strategy creators have a colossal duty in including patients as accomplices in planning care and dynamic; better and a systematic healthcare services anddirecting them in utilizing the bunch of advanced wellbeing advances. Something else, it should also be noticed that patients may either go to non-demonstrated administrations or innovative arrangements they probably won't have the option to decipher alone.

By sharing obligation, and their perception doctors could likewise share the weight of pickingthe right treatment and bearing the results. Troublesome advancements likewise have the possibilities of removing the redundant pieces of their work, also this is by allowing them to invest more energy with and devote their concentration to the patient. Those abilities that are difficult to supplant like sympathy, empathy emotion , social consideration and the human touch could be the substance of giving consideration.

SQUARE CHAIN TECHNOLOGY FOR HEALTHCARE AND EDUCATION

This new kind of invention Square chain innovation depends on a shared stage that gives a chance to safely store the data on large number of workers. This data can be at the same timeutilized and shared inside a decentralized and open organization. Such a methodology makesit hard for the client to control or change it. In this manner, block-chain innovation with one of a kind qualities, like decentralization, straightforwardness, and namelessness, has been progressively utilized in medical care. As indicated by IBM, 70% of medical services pioneers foresee that the square chain's most prominent impact in medical care will be to further develop clinical preliminary administration, administrative consistence, and a decentralized construction for sharing electronic clinical records.

SAVVY DEVICES

During the present time the act of utilizing the main ages of shrewd gadgets exhibited that they can assume a significant part in checking the fundamental elements of the body and diagnostics at various necessities, better technique Novel innovations, for example, radio recurrence distinguishing proof (RFID) perusers and Near Field Communication (NFC) gadgets, can be used for gathering wellbeing data as well as correspondence stages in medication .It must be noted that Such gadgets can make a ceaseless information stream, while checking the condition of wellbeing that makes these gadgets the fundamental wellspring of enormous informational indexes (large information) . Wise stages can associate different gadgets ("web of things") to give dependable, effective, and customized clinical consideration.As we are aware now we should now be Utilizing keen and wearable gadgets, doctors can distantly screen different wellbeing boundaries. Subsequently, the patients will not have to be hospitalized or visiting a specialist that outcomes in a significant abatement inmedical services costs.

VIRTUAL CLINICAL TRIALS

When everything is digitalized it has also been understood that Another new and promising region in clinical exploration is virtual clinical preliminaries These incorporate advances utilized for distant patient wellbeing data recovery, including tablets, cell phone applications,or wearable sensors. It can be observed that Nowadays as regularly these stages have been depicted as virtual clinical preliminaries, decentralized preliminaries, distance preliminaries, patient-explicit preliminaries, or crossover preliminaries . As the interaction includes enrolling patients, acquiring their assent, and gathering information. A digitalized virtual clinical preliminary is a framework when actual locales and direct collaboration with patientsare not needed any more

TELEMEDICINE

Since we talk about digitalization everything going on line the Telemedicine permits medical care suppliers to assess, analyze, and treat patients in far off areas utilizing telecom innovations we can also see the benefits of telemedicine incorporate the capacity to gather, store, and trade clinical information . It should also be noticed that addition, telemedicine permits far off observing of patients, distance instruction, further developing organization andthe board of medical services, incorporation of wellbeing information frameworks, digitalizedservices and patient development following And moreover Truth be told, there are numerous choices for utilizing telemedicine in different areas

OBJECTIVES

1.To study the impact of digitalization of health care services on people residing in Mumbai and Pune city.

2 To understand the view of the medical care workers towards digitalization the board frameworks.

3.To understand the influence of on line medical services offered by various pharmaceutical companies on general public residing in Mumbai and Pune city.

4 Discover the difficulties looked in the utilization of digital medical services clinic data the executives frameworks in the chose medical clinics.

5.   To discover potential answers for work on the utilization of the digital services in the field of medical care.

6. To study and compare the perception pf people of Mumbai and Pane city towards.

Digitalization of healthcare services.

HYPOTHESIS

H0: That there is no impact of digitalization of health care services on people residing in Mumbai and Pune city.

H1: That there is an impact of digitalization of health care services on people residing in Mumbai and Pune city.

H0: That there is no influence of on line medical services offered by various pharmaceutical companies on general public residing in Mumbai and Pune city.

H2: That there is an influence of on line medical services offered by various pharmaceutical companies on general public residing in Mumbai and Pune city.

H0: That there is no potential answers for work on the utilization of the digital services in the field of medical care.

H3: That there are potential answers for work on the utilization of the digital services in the field of medical care.

Research Methodology

DATA COLLECTION METHOD

The data collection method is one of utmost steps of research. Hence, the data collection method includes using the existing data through questionnaire. In present research the data collection methods are both by bibliotheca and field. In bibliotheca data collection method, the investigation of research literature and other studies is done in libraries and referring to books and articles. In the field of this research the data collection are carried out through questionnaires which are designed for this purpose

SAMPLE OF THE STUDY

A total of 235 respondents belonging to various age groups were chosen through stratified random Sampling Technique, out of 235 respondents, all 235 were usable data They were contacted online via Google form in Mumbai and Pune city. In the pretext the respondents were handed the two questionnaire based on their experiences related to digitalization experiences.
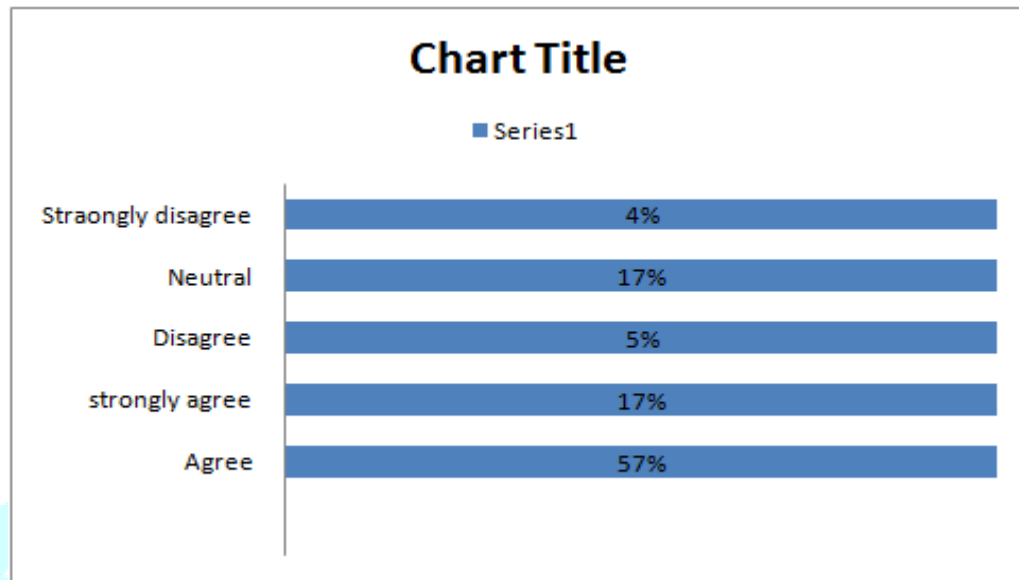
Primary Data

The primary data collected by surveying and filling Google form through divergent audience there were 235 respondents who answered the survey all 235 respondent data was usable the respondent who have experienced digitalization in healthcare services have responded effectively and same data was used for data analysis and interpretation.

Secondary Data

Secondary data is a second-hand data that is already collected and recorded by some researchers for their purpose, and not for the current research problem. It is accessible in the form of data collected from different sources such as government publications, censuses, internal records of the organization,

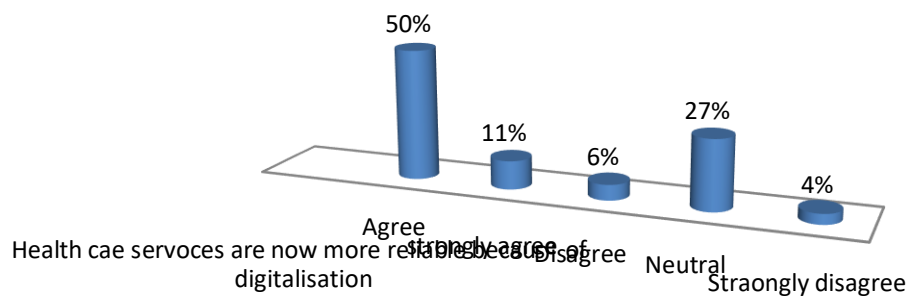books, journal articles, websites and reports, etc.

DATA INTERPRETATION

There were total 235 respondent who have given response for the survey the were 45% of people from Pane city who has given response and 55% of people from Mumbai has giventhe response people like to opt for digital heath care services and the responses were very content people now especially afer covid-19 pandemic have become more tech savy and prefer to use digital services.

From the survey Q4)Digitalisation helps the patients to get easy access to health care services this in turn helps to save time, efforts, energy .was asked in google form there were235 potential respondent who have answered out f which 57% of respondent Agreed,17%of respondent Stongly agreed,5% of respondent Disagreed,17% of the respondent were neutral and 4% of respondent Strongly disagreed,it depicts that that maximum number of respondent agreed thet because of d Digitalisation the patients to get easy access to health care services this in turn helps to save time, efforts, energy

Health cae servoces are now more reliable because of digitalisation

50%

11%

6%

27%

4%

Agree

Health cae servoces are now more reliable because of digitalisation   strongly agree   Disagree   Neutral   Straongly disagree

From the survey Q3) Health care services are now more reliable because of digitalisation was asked in google form there were 235 potential respondent who have answered out f which 50% of respondent Agreed,17% of respondent Stongly agreed,6% of respondent Disagreed,27% of the respondent were neutral and 4% of respondent Strongly disagreed,it depicts that that Health care services are now more reliable because of digitalisation and people have started having more faith.

HYPOTHESIS TESTING

Q1) Digitalization helps the patients to get easy access to health care services this in turn helps to save time, efforts, energy.

H0: That there is no impact of digitalization of health care services on people residing in Mumbai and Pune city.

H1: That there is an impact of digitalization of health care services on people residing in Mumbai and Pune city.

One -Sample Chi -Square Test has been used

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Observed values

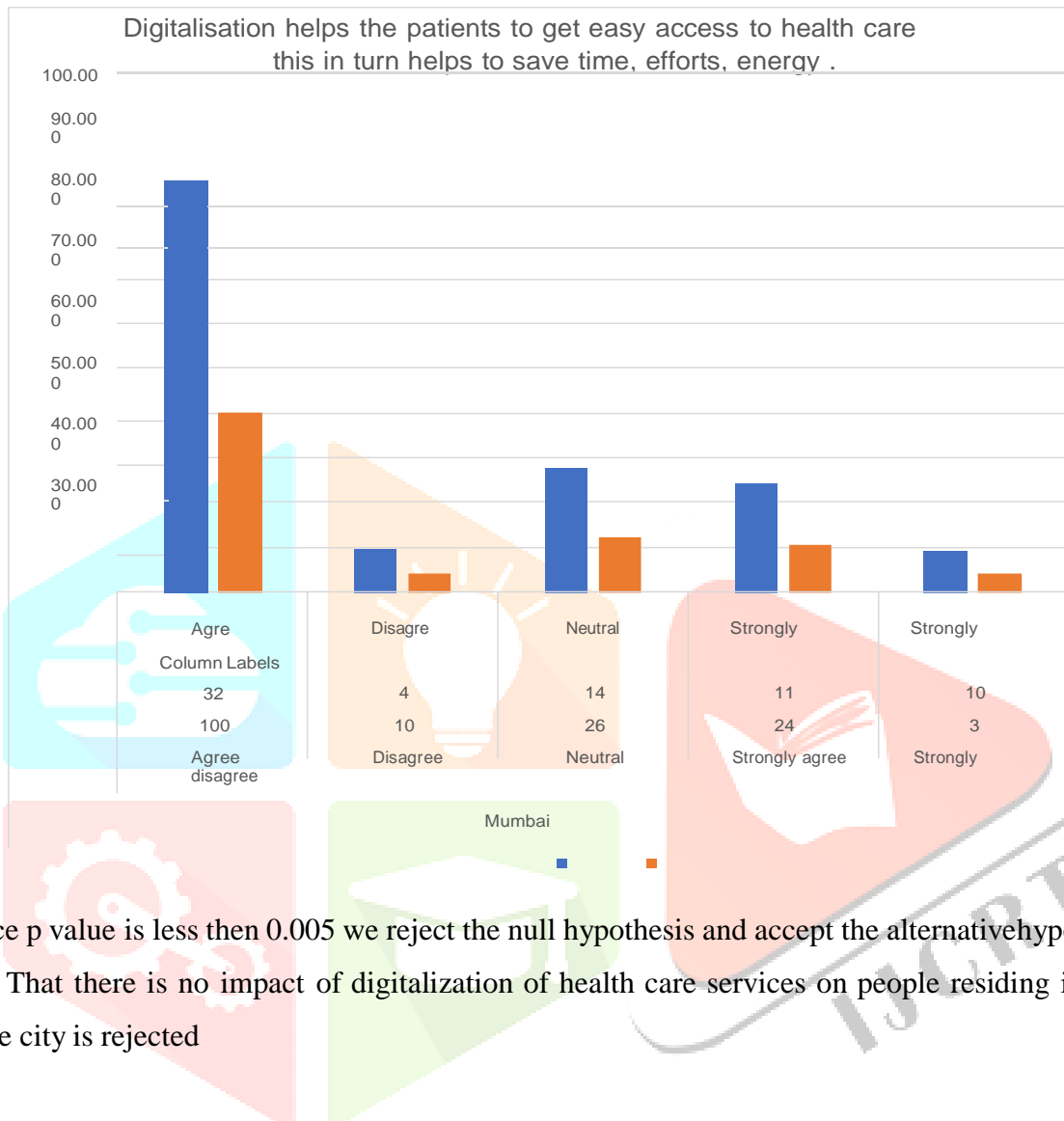| Count of Digitalisation helps the patients to get easy access to health care services this in turn helps to save time, efforts, energy.	Column Labels					
Row Labels	Agree	Disagree	Neutral	Strongly agree	Strongly disagree	Grand Total
Mumbai	100	10	26	24	3	163
Pane	32	4	14	11	10	71
Grand Total	132	14	40	35	13	234

Expected values

Count of Digitalisation helps the patients to get easy access to healthcare services this in turn helps to save time, efforts, energy.	Column Labels					
Row Labels	Agree	Disagree	Neutral	Strongly agree	Strongly Disagree	Grand Total
Mumbai	91.95	9.75	27.86	24.38	9.06	163
Pane	40.05	4.25	12.14	10.62	3.94	71
Grand Total	132	14	40	35	13	234

chi square p value= 0.00286174 < 0.05

One -Sample Chi -Square Test

has been used Reject the null

hypothesis

Digitalisation helps the patients to get easy access to health care this in turn helps to save time, efforts, energy .

	Agre	Disagre	Neutral	Strongly	Strongly
Column Labels	32	4	14	11	10
	100	10	26	24	3
	Agree disagree	Disagree	Neutral	Strongly agree	Strongly

Mumbai

Since p value is less then 0.005 we reject the null hypothesis and accept the alternative hypothesis

H0: That there is no impact of digitalization of health care services on people residing in Mumbai and Pune city is rejected

H1: That there is an impact of digitalization of health care services on people residing in Mumbai and Pune city is accepted

Findings

It has been observed that at the present moment when everything is getting digitalized the healthcare which is an important sector is also getting fast towards digitalization as per this research it can be concluded that people residing in Mumbai and Pane are all set to opt for digitalisation and have also accepted the benefit of digitalization Investigating how unique industry structures shape stage contest appears to be consequently productive particularly as experiences for stage guideline would arise. A third road for future exploration is to look at the effect of the computerized change in additional enterprises and to contrast and blend discoveries with infer more hearty biological system speculations about advanced change. Finally, new wellbeing

Conclusion

It can be concluded that digitalization has become a part of life now and same goes for healthcare services as per the survey resident of Mumbai and Pane r are very well adopting the changes and ready and happy with digitalisation Given the absence of earlier exact examination on the computerized change of the medical services industry and the absence of a between hierarchical viewpoint of computerized change or we can term as digitalization , our exploration is expected to propel the comprehension of which new market fragments arose because of the advanced change and how they changed the job of patients. It should also notice that The outcomes demonstrate 8 new jobs inside medical care, to be specific: data stages, information assortment innovation, market delegates, administrations for distant and on-request medical care, expanded and computer generated reality supplier, blockchain-based PHR, cloud specialist organization, and insightful information examination for medical services supplier. Our outcomes further delineate how these jobs change offer, esteem

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