Studies open interactive spaces which helps in creating healing environment for rural hospital

Ar. Sheetal A. Solanke¹, Ar. Sunil Patil², Ar. Kishor Talnikar³

- ¹ Department of Architecture, Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra
- ²Professor, Department of Architecture, Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra
- ³Professor, Department of Architecture, Jawaharlal Nehru Engineering College, Aurangabad, Maharashtra

Abstract - Research paper has demonstrated how open interactive spaces in rural hospital supports improving patient heath , family, and staff outcomes with the help of architectural and landscape design strategies. The benefits around the hospital, recently developed and integrated healthcare systems have focused more on patients' need for treatment and service outcomes on their solutions. The purpose of this research is to examine what factors and characteristics are helps to create interactive environment within hospital campus and understanding the benefits and create an environment that is inviting, interactive, safe, and favorable to environment where patient solves negative memories in healing interactive environment and speedy recovery and as well as relatives of the patient, hospital staff also enjoy interactive and relaxing atmosphere in open spaces in rural hospital.

Key Words: Healing environment, open interactive space, rural heath

1.INTRODUCTION -

For examine factors and characteristics which create interactive environment we have to understand rural patients/hospital user behavior, their lifestyle, and socio-economic characteristics in rural areas. While designing in rural areas we have to understand rural issues at both macro and micro levels.

The word and rural is defined as a combination of both natural and human landscapes. (The natural landscape as modified by human activities) where agriculture is primary occupation and urban is defined as having the characteristics of a city. Certain progression and development also has been done in these areas. Schools, medical and health care centers have been developed in rural areas .

In rural areas communities are small in size, unlike urban area they live in less populated geographical areas. The small population in the villages has given individuals the ability to communicate face to face mostly people lives in joint families and these Families help and support each other in case of any difficulties and problems. This concept in rural areas provides information about strengthening social bonds and bringing stability in the society in many ways.

People who live in rural villages spend most of their time living and interacting the local environment. Community connectivity is a positive link of social networks to people's health and wellbeing. Local supportive communities in rural areas have strong local relationships with each other and without considering the influence of geographic space. People in rural areas adopted simple lifestyle they not much aware about modern and innovative techniques and methods in the implementation of tasks and operations.

As we know stress is a biggest obstacle in healing process and many contemporary hospitals inflict so much stress on patients that it actually slows down healing, counteracting the medications and treatments patients receive.

A physical setting that supports patients and families from the stress that develops as a result of illness, hospitalization, medical visits, the healing process, or grief. This concept shows that physical health care makes a difference in how quickly patients recover or adapt to a particular acute and chronic condition.

The emotional support, care giving and tangible support a person receives from others is that social support means that we know that the natural environment is closely related to health and that the environmental conditions around it affect human health.

Happiness requires a certain state of mind. Stress has a huge effect on happiness and gives a person the ability to heal and stay positive.

Hospitals buildings and their surrounding outdoor spaces are the largest and most complex of all public institutions. The research is more focus on how to create inviting, supportive, secure and non-threatening atmosphere of the outdoor hospital surroundings.

2.Objective -

1. Studies the open interactive spaces in rural hospital campus and Understanding the factors which gives positive impact on human health outcome.

International Journal of Scientific Research in Engineering and Management (IJSREM)

Volume: 04 Issue: 08 | August -2020 ISSN: 2582-3930

2. Understanding how these factors implemented in design and create healing environment.

3. Methodology-

3.1 Literature study:

Studying the concept of open interactive spaces in Villages through research articles and books and Understanding and studies spaces for healing environment.

3.2 Observational studies-

Studies Limbgav village for understanding the psychology of user group in village.

Site analysis through photographs, interviews, natural parameters, man-made parameters, activity mapping, free space design and analysis. Observation notes standardized behavioral (patient's state, comfort, wellbeing, visual, vocal stimulation of the patient; family state etc.)

4. Rural life and their gathering spaces in Limbgaon village –

The importance of spaces is recognized in different manner by all stakeholders including rural population and environment having its opportunities and challenges. In this research paper we need to studied open interactive spaces in hospital relates it to specific rural considerations.

Limbgaon village which is in Nanded district has been is studied for understanding the rural character and how we can implemented these rural character or behavior of the people in this area and create better interactive space for fast healing in hospital for these village people.

Limbgav village daily life is composed mostly by farm activities, domestic work and daily contacts., Public spaces like Katta (platform built around a tree or any boundary), chowk generally a place where people meet and talk, also women in these village have their interaction at Kirshna temple, Grampachyt common bore well while doing their daily activities like collecting water, washing etc. these type of spaces are provide a venue for peasants' gathering or other activities. Most village people think of public space as one An essential part of their daily lives from which they can change or derive useful resources There, such as information, knowledge, entertainment etc.

5. Open interactive spaces in hospital-

An interactive spaces are those spaces which are gently contributes to health and relationships for people of all ages .

Hospital users social behavior and circulation at hospital buildings, their social interactions and their gathering areas are among the important issues of architectural design. These issues suggested about usage of outdoor spaces of hospital building and the characteristics of physical behavioral aspects which plays a part in social interaction in spaces. Open interactive spaces are the cultural and emotional heart of the hospital and it is the design component that picks it up from the technical clinical service to the place of healing.

These spaces are more useful for waiting, for exercising, spending relaxing time for patient, relatives as well as staff in open green spaces. these spaces are needs to design in such manner that it should clearly visible to arriving patient / visitors and the flexibility to to handle large number of people at peak time or some special events

In hospitals waiting areas are most concern space for patient and their accompanying family members. If create positive distraction in these area and creating more lively and interactively can be reduce waiting anxiety.

6. Social Support and interaction-

Social support is the emotional support, caring and tangible support that a person receives from others. Health care and workplace research In the case it was found that the person who experiences high social support Less stress and more health. On the contrary, socially isolated people, experience Indicators of higher rates of illness and less favorable recovery. For example, heart patients receiving high levels of social support recover faster More favorable rates of heart attack and longer survival. Social support Improves recovery outcomes and survival in cardiovascular patients .Length of patients with metastatic cancer.

7. Benefits of creating a positive healing environment

- Positive distractions
- · Accessibility, familiarity and security

Creating healing environment is the 'smart investment 'because it increase staff efficacy to work ,reduces hospital stay of patient, saves money. and making hospital environment less stressful.

The spaces between the buildings and the surrounding environment providing a sense of direction on campus by integrating and organizing different locations and elements; They can provide a sensible feel by incorporating attractive surroundings and creating visual surprises. The improved state of health of individuals is not only indicative of human development An important measure of economic development.

Any contact with nature like When we looking at the picture

International Journal of Scientific Research in Engineering and Management (IJSREM)

Volume: 04 Issue: 08 | August -2020 ISSN: 2582-3930

lying in the grass, it has positive properties Psychological effects and subsequent benefits.

In order to maintain a sense of positive support and feeling of wellbeing for needs of people hospital have clear ,way finding and easily understood layout of the campus .

8. User groups and their needs-

In hospital campus, there should be so many opportunities for different user groups to get in touch with nature. There are three distinct groups of users in both indoor and outdoor hospital spaces – Patients, staff and visitors, each with their own needs and patterns of use.

- **8.1 First group** Patient groups is most important and that include patients with disability types, length of stay (e.g., short-term and long-term inpatients or outpatients) and physical and psychological needs (e.g., pediatric, geriatric or therapeutic, rehabilitation, psychiatric or Post-surgery patients may be sun-sensitive). The specific demands of each subgroup largely determine the choices made in the external environment.
- **8.2 Second group** is Employees group, Different from staff, medical to administrative and support staff, there is a critical group of users as they spend every working day in the hospital environment. All use the outdoor space as an effective tool for getting a restored escape from a stressed job and for adverse conditions in the hospital.
- **8.3 Third group** is -user group, visitors also need a positive break from spending time with their family members or friends. These visits are often reassuring, but can also be emotionally intense and therefore require spaces in naturally setting.

9.Influence of Space on Human Behavior-

Psychological and physiological both gives successful design outcome .The interaction between architectural design and human psychology is important in designing and planning of any building. but sometimes it ignored .

Persons mind are constant active and always interacted with surrounding environment. The way people adapt to the surrounding environment can vary in many factors: genetics, cultural and personal memories, and the frequency and duration of experience and exposure to the environment (physical and social).

The researchers had explained in examples like Massachusetts General Hospital, Boston(Fig1) where they create Meditation square for all type of user .and The key programming and designing goal is to provide a variety of micro spaces for their hospital grounds, targeting the different needs of their users. A series of different small squares and meeting points traditionally located next to each other can create a cozy atmosphere and a variety of experiences rather

than large sizes. It is important to choose these spaces - both for group and individual business.

Space in sunlight or shade; Places to relax and experience the natural surroundings; Places with open or closed views etc.



Fig – 1 Meditation square in the Massachusetts General Hospital, Boston (Source - hospital outdoor spaces - therapeutic benefits and design considerations by Dejana Nedučin)

10. Positive and negative distractions-

A recent study on the design of outpatient spaces suggests restorative and positive barriers that effectively motivate to restore health. Emphasis on natural features such as vegetation, rock, wood or water use can only be beneficial for recovery.

11.Gardens and green spaces for interaction -

Gardens and plants are beneficial for creating healing environment in hospital . In so many research we see only simply viewing at garden scenes and certain plants improve patients heath and decreases stress. These spaces play an active role in helping to generate new interactive spaces in hospital .

11.CONCLUSION-

There is now extensive research demonstrating that open interactive spaces helps to create healing environment. Social or emotional support which we receives from others is very beneficial to fast recovery. Interacting people spending more time with nature is very beneficial to all types of user in hospital campus. Benefit of having interacting spaces with positive healing environment in rural hospital are exhibit, healthy working environment for staff, short length of stay of patient, Good satisfaction of relatives and staff.

ACKNOWLEDGEMENT

I would like to express my deep gratitude to my professors and I wish to thank my family for the support and encouragement throughout our study.

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