

A STUDY OF PRIMARY HEALTH CENTERS INFLUENCE AREA IN SOLAPUR DISTRICT

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ABSTRACT:

The primary health center is the focal point of health care facilities in rural areas. Not all citizens can afford private sector health care. Private services tend to be concentrated in urban areas. As a solution to this, hospitals and clinics are run by the government, local bodies at cheap or free rates. As per the Indian Health Policy, it is recommended to establish one primary health center for 20,000 population in hilly and tribal areas and 30,000 in plains. (Primary Health Center Manual, 2006). The main objective of this research paper is to study the coverage area of primary health care center in Solapur district. For this research, data from 2001 to 2021 has been selected. For this, primary and secondary information in the field of research has been taken as a basis.

KEYWORDS: 1.Primary Health Health Centre, 2.Area of Influence of Primary Health Health Centre

INTRODUCTION:

Primary health center is the focal point of health care facilities in rural areas. Not all citizens can afford private sector health care. Private services tend to be concentrated in urban areas. As a solution to this, hospitals and clinics are run by the government, local bodies at cheap or free rates. Reorganization of medical services is taking place in all countries of the world under the initiative of World Health Organization. A.D. The World Conference on Primary Health Care held in Almaty, Russia in 1978 emphasized the concept of "Health for All by the Year 2000". In this conference, it was explained that primary health care should be developed so that every citizen of the world can achieve a standard of health sufficient to lead a socially and economically productive life. Primary Health Centers provide a wide range of health care facilities to people living in rural areas. As per the Indian Health Policy, it is recommended to establish one primary health center for 20,000 population in hilly and tribal areas and 30,000 in plains.

OBJECTIVE:

To study the Influence area of primary health health center in Solapur district.

STATISTICAL DATA COLLECTION AND RESEARCH METHODS:

For the related research work, data from 2001 to 2021 has been selected. For this, primary and secondary information in the research field has been collected. Statistical techniques like ratio, average etc. were used on the above primary and secondary information. Some formulas have been used for the above research.

FORMULA:

$$1) \text{ Influence Area According to Area} = \frac{\text{Total Area}}{\text{Total No. of Medical Centre}}$$

$$2) \text{ Influence Area According to village} = \frac{\text{Total village}}{\text{Total No. of Medical Centre}}$$

$$3) \text{ Influence Area According to population} = \frac{\text{Total population}}{\text{Total No. of Medical Centre}}$$

STUDY AREA:

Solapur district is located in the southern part of Maharashtra. Geographical location of Solapur district is 17° 10' to 18° 32' North latitude and 74° 42' to 76° 15' East longitude. The total area of Solapur district is 14895 sq. km. Solapur district consists of 11 talukas in which North Solapur, South Solapur, Akkalkot, Barshi, Mangalvedha, Pandharpur, Sangola, Malshiras, Mohol, Madha and Karmala are the talukas. Also, the average height of Solapur district is 458 meters above sea level. Solapur district is bounded by Ahmednagar district in the north, Dharashiv in the northeast, Karnataka state in the southeast, Sangli in the southwest, Satara in the west and Pune district in the northwest. According to the 2011 census, the total population of Solapur district is 43,17,756.

DISTRIBUTION OF INFLUENCE AREA OF HEALTH CENTRE:

Areas of influence have been determined by various geographers on the basis of statistical methods based on different factors to determine the area of influence of the service center that provides services in different regions. The study method used by Jackson has been used to determine the area of influence of the Government Health Center in Solapur district.

AREA OF INFLUENCE OF PRIMARY HEALTH CENTRE:

The total rural area of Solapur district is 14895 sq. km. And a total of 92 primary health centers are functioning in the year 2021. The area of influence of the primary health center is shown in the following table. The area of influence of primary health center in the study area is defined. Accordingly, the average area of a primary health center in Solapur district in the year 2021 is 190 sq. km. It affects the distance. While tehsil wise the highest impact is in Karmala taluka with 316 sq. km. And there is less impact in U. Solapur taluka of 37 sq. km. It has been found in this taluka. If analyzed according to various categories, 150 sq. km. Impact of primary health center less than U.Solapur 37 sq. km., Malshiras 133 sq. km. In this taluk, 150 to 200 sq. km. The area of influence is Akkalkot 175 sq. km., Madha 192 sq. km., Mohol 165 sq. km., Pandharpur 161 taluka and 200 sq. km. Barshi 227 sq. km., Karmala 316 sq. km., Mangalvedha 227 sq. km., Sangola 257 sq. km. respectively.

Area of Influence of Primary Health Center (Year 2021)

Sr. No.	Talukas	Primary Health Center	Influence Area According to area sq.km.	Rank	Influence Area According to village	Rank	Influence Area According to population	Rank
1	Akkalkot	8	175	VII	17	III	42452	IX
2	Barshi,	7	227	IV	20	II	58295	III
3	Karmala	5	316	I	24	I	54207	V
4	Madha	8	192	VI	15	VI	43021	VIII
5	Malshiras,	12	133	X	10	X	43322	VII
6	Mangalvedha,	5	227	III	16	V	27944	XI
7	Mohol	8	165	VIII	13	VIII	36452	X
8	North Solapur	19	37	XI	2	XI	65175	I
9	Pandharpur	8	161	IX	13	IX	59852	II
10	Sangola	6	257	II	17	IV	57413	IV
11	South Solapur,	6	201	V	15	VII	45790	VI
Total District		8	190		15		48538	

Source: District Health Department, Solapur

Solapur 201 sq. km. It has been found in this taluka. While studying the influence of colonies and Primary Health Center in the study area, it is found that on average 15 colonies are influenced by Primary Health Center in Solapur district. Tehsil wise the highest impact is Karmala 24 and the least impact U.Solapur 2 has been observed. According to various categories, the impact of less than 10 colonies is U.Solapur 2, while between 10 and 15 colonies, the impact of primary health center is Madha 15, Malshiras 10, Mohol 13, Pandharpur 13, D.Solapur 15 in this taluk and the impact on more than 15 colonies respectively. Akkalkot 17, Barshi 20, Karmala 24, Mangalvedha 16 and Sangola 17 etc. has been detected.

Population-wise impact area of Solapur district is studied with an average primary health center impacting 48538 population. According to tehsil population, the highest impact is U. Solapur 65175 and the lowest impact is found in Mangalvedha 27944 taluka. Whereas Mangalvedha 27944 taluk has primary health center influence less than 30000 population according to various categories. Between 30000 and 50000 population, Prabhava Barshi 58295, Karmala 54207, U.Solapur 65175, Pandharpur 598 are in this taluka 52, Sangola 57413 located in Taluk comes.

REFERENCE:

1. Clark and Evens (1954): 'Distance to Nearest Neighbour as a measure of Spatial Relationship in Population Ecology', 35. 445-45
2. Prakashrao, V.L.S. (1964) : 'Towns of Mysore State' Calcutta Asia Publishing House
3. Ghosh, B.N. (1985): 'Fundamental of Population Geography', Sterling Publishers, Private Limited, New Delhi.
4. Singh, B. (2004) : 'A Study of Spatial Variations of Medical Centres in Haryana, India', Published in Deccan Geographer, Vol.42, No.1, Pp.1-11
5. Pulla Rao, D. (2010) : 'Health Development in India – A Review', Vikas Vani Journal, Vol. IV, No.3
6. Kadam, R.N. (2011) : 'Dimensions of Health Services in Indian : Efforts and Achievements', Published in Journal of Development and Social Change, Pp.74-80