



PREVALENCE AND PATTERN OF PSYCHIATRIC DISORDERS ASSOCIATED WITH URBANISATION IN INDORE CITY

Ms. Bharti Lahoria

Clinical psychologist, government district hospital, dewas

Dr. Kalpana Randhawa

HOD, suresh gyan vihar university, jaipur

correspondence: Dr. Ashutosh Singh

department of psychiatry, M.G.M Medical collage, indore

373

Abstract

This study aims to estimate the prevalence of psychiatric disorders and study their association with various socioeconomic variables. This study include door to door sampling methods and also included a large population compared to previous study. This was a cross-sectional study of the urban population residing in Indore was carried out (n = 2512). MINI plus was administered to all subjects according to the age group. It was found that 24.3% of the subjects were suffering from one or more diagnosable psychiatric disorder. Prevalence of substance use disorders was found to be 14.1% and 2.4% for depressive disorders. Our study is among the very few epidemiological studies with respect to methodological design which evaluates each subject with detailed administration of MINI. It concluded that one among four were suffering from a psychiatric disorder.

Key words: Prevalence, psychiatric disorders, India, epidemiological study

DOI Number: 10.14704/nq.2022.20.12.NQ77034

NeuroQuantology 2022; 20(12): 373-382

Introduction:

Urbanization, demarcated as the upsurge in the sum of conurbations and inner-city populace, is not only a demographic crusade but also embraces social, pecuniary and psychological modifications that constitute the demographic measure. It is a headway that primes to the progress of conurbations due to mechanization and monetary amplification. The hasty surge in metropolitan populace wide-triumph is one amid the momentous comprehensive wellbeing interrogations of the 21st century. The prognosis of the United Nations Inhabitants Division, by

2030, further folks in the emergent world will animate in urban than rural extents; by 2050, two-thirds of its populace is likely to be urban. The scenario in India is also embellished by this proclivity. In India approximately 28% of the India's populaces cognizant in conurbations and this is predictable to intensification to 41% by the year 2024. Indore is one of the notorious conurbations of Madhya Pradesh and population from adjoining stretches used to consequential and reside not only for commercial tenacity but for vocation also.



Urbanization fetches with it an inimitable set of assistances and hindrances. This demographic swop is conveyed by economic upgrading and mechanization, and by reflective vagaries in societal connotation and in the adornment of native lifespan. Urbanization anguishes mental well-being through the stimulus of amplified stressors and influences such as congested and adulterated milieu, high levels of vehemence and abridged social sustenance. Dint of sprawl is accompanying with an upsurge in psychological ailments. The goalmouth is that crusade of folks to urban precinct indispensables more accommodations to be made accessible and substructure to nurture. This does not transpire in conformation with the upsurge of populace Hence, lack of adequate connotation gushes the peril of deficiency and conciliate to conversational adversities. Further this also diminutions social sustenance as the nuclear kin escalation in cypher. Deprived folk's engrossment conservation and emotional misfortune that heaves their susceptibility to mental syndromes.

Mental well being is a level of inner comfort, or a truancy of a mental ailment. It is the *"psychological state of someone who is contemporary at a fair alike of demonstrative and announcement adjustment"*.

From the perception of constructive psychology or holism, mental well-being may embrace an entity's aptitude to relish life, and provoke a poise amid life deeds and efforts to accomplish psychological pliability¹.

Rendering to the World Health Organization, mental well-being embraces *"idiosyncratic comfort, alleged self-worth, dominion, aptitude, inter-chordal addiction, and self-actualization of one's cogent and penetrating budding, among others."*²

*The World Health Organization (WHO) Global Drain of Ailment Study has appraised that psychiatric ailments are amid the utmost arduous, around the orb and are likely to surge in ensuing spans. However, these prognoses are stranded frequently on appraisal of verse and wide-ranging populace appraisals are the prerequisite of the time.*³⁻⁴⁻⁵

Review of related literature:

Trivedi Jitendra (2018) allusions to psychiatric ailments, unease and despair are more ubiquitous among urban womenfolk than menfolk and are alleged to be more rampant in meagre than in non-deprived urban neighborhoods. The meta-scrutiny divulged sophisticated pervasiveness of cerebral ailments in urban extent i.e., 80.6%, whereas it was 48.9% in rural range. Mental bug primarily unruffled of despair and phobic syndromes.

Murray CJ, Lopez AD. (2020)ascertained that the assortment of ailments and deviancies akin with urbanization is massive. Some of the ailments are severe rational grumbles, depression, constituent abuse, intemperance, delinquency, domestic crumbling, and estrangement. Dementia and major gloom are two foremost funders in this cluster. Most people with dementia conscious in emergent realms.

Shubhangi R. Parkar (2021)socioeconomic trauma is restrained to be distressing psychological forte of women. It paves the ways for arbitrary rheostat faltering concerning discrete or cluster wringing conferences commanded due to agony. Upsurge of nuclear kin in urban refinement has rapt to surge in belongings of fierceness against women in general. Among them, warm-companion vehemence connotations to liquor mishandling and women's mental well-being.



Sampling, Tool and Technique:

The study embrace access to access sampling progression and also encompassed a huge populace. In this study transmission device MINI repetition for appraisal of psychiatric ailment in communal which has very high legitimacy and consistency as an indicative instrument.

This is a foremost epidemiological study over psychiatric ailment in central India in urban populace, in which we have engaged 500 kin from urban populace of Indore in which each and every adherent of the domiciliary (above 18 years old) has been curtailed. This fractious-sectional study was buttressed out in 500 folks of Indore city of Madhya Pradesh from four diverse constituencies under Indore Municipal Corporation, from each trail of the city. In each constituency, alike figure of kin was engaged from urban and slum inhabitants, so, about 125 kin per constituency were alienated in urban and slum populaces.

With the help of inclusive consultation plans and access to access study, the pervasiveness and framework of psychiatric ailments were measured in the above-revealed urban populace. With the sustenance of borough infirmary crew, we visited each and every household. A recognized overview of the discrete in the crew and purposes of the study were assumed. We have curtailed total 500 kin in four diverse constituencies of Indore city in which 2512 folks are curtailed. In which 1130 persons are from urban sub cluster and 1382 folks are from slum sub assemblage.

Demographics statistics were placid as per the organized usual feedback form. Wide-ranging Health Questionnaire (GHQ12) is used as transmission questionnaires. All the refrains

who have revealed anguish in GHQ12 were rapt mini-international psychiatrist interview (MINI),

The tools used were

- (1) Demographics statistics pro form;
- (2) General Health Questionnaire (GHQ12)⁶
- (3) MINI 6 (Mini International Psychiatric Interview)⁷
- (4) Contingency coefficient tests were pragmatic to study the connotation using SPSS for windows (version 16.0).

Methodological design:

We have partitioned entire 2512 individuals in which 1357 beings were males and 1155 folks were females (598 males and 532 females in urban sub cluster and 759 males and 623 females were in slum sub assemblage). In both urban and slum sub-assemblies, most of the individuals were from 18-39 age group (42.1% in urban sub assemblage and 38.1% in slum sub cluster). In urban sub assemblage, most of the beings belongs to > Rs. 10000 revenue assemblage (44%) but in slum sub assembly mainstream of the creatures were from Rs. 1000-5000 revenue assemblage (41.3%). Most of them were nuptial in both sub assemblages (54.5% and 41.2% respectively), illiterates were only 9.1% in urban subgroup while in slums 26.9% were illiterates. In urban sub cluster, 42% families were nuclear while in slum sub cluster, conventional of the kin were cooperative and stretched (40.6%). In urban sub cluster, only 11% populace were unwaged while in slum, 26.9% were unwaged.

Prevalence of psychiatric disorders among ($n = 2512$) in urban population

In present study, a total of 2512 people were included. Among those, total 621 people were found to be suffering from psychiatric disorders giving an overall prevalence rate of 256.7/1000.



Table 1: psychiatric disorders and total prevalence in urban population (n=1130)

Psychiatric disorders (Mini diagnosis)	No. of patients	Percent	Prevalence /1000
Major Depressive Episode	23	2.3%	23
Dystopia	2	0.17%	1.7
Suicidal	1	0.08%	0.8
Manic episode	1	0.08%	0.8
Bipolar disorder	10	0.8%	8
Obsessive compulsive disorder	3	0.26%	2.6
Alcohol dependence	50	4.4%	44
Alcohol abuse	37	3.2%	32
Substance dependence (non alcohol)	87	7.7%	77
Substance abuse (non-alcohol)	22	1.94%	19.4
Psychotic disorders	25	2.2%	22
Generalized anxiety disorder	18	1.6%	16
Total	279	24.7%	247.3

The table 1 pronounces the distribution of innumerable ailments in the urban populace underneath study. 279 people were accessible with psychiatric ailments out of 1130 people curtailed. So, a pervasiveness of 247.3 per 1000 was originate in the urban populace.



Psychiatric disorders (Mini diagnosis)	No. of patients	Percent	Prevalence /1000
Major Depressive Episode	30	2.3%	23
Dysthymia	4	0.31%	3.1
Suicidality	2	0.15%	1.5
Manic episode	3	0.23%	2.2
Bipolar disorder	14	1.9%	1.9
Obsessive compulsive disorder	1	0.08%	0.8
Alcohol dependence	66	5.1%	51
Alcohol abuse	39	3.2%	32
Substance dependence (non alcohol)	130	10.4%	104
Substance abuse (non-alcohol)	28	2.2%	22
Psychotic disorders	14	1.1%	11
Generalized anxiety disorder	11	0.8%	8
	342	27.7%	260.4

The table 2 describes the distribution of various disorders in the slum population under study.



342 individuals were extended with psychiatric ailments out of 1382 people partitioned. So, a pervasiveness of 260.4 per 1000 was originate in the slum populace. The highest psychiatric indisposition was institute in 18-39 years age cluster (9.2% of total populace) trailed by 40-59 years age assemblage (6.4% of total population). Conjugal populace had almost a two-fold sophisticated pervasiveness of psychiatric ailments in both sub assemblages. This verdict has to be construed possession in cognizance the circumstance that, the solitary populace fundamentally deliberated between 18-25 years of age. Literates had sophisticated pervasiveness of psychiatric ailments associated to individuals ignorant (up to under-valediction/graduation). Scrutiny of psychiatric ailments ignoble on profession illustration that the unwaged and diurnal remuneration labors had the uppermost pervasiveness of psychiatric ailments connected to those who had a salaried occupation or did business. Those living alone had the highest prevalence of psychiatric ailments, trailed by those breathing in nuclear inland, and the slightest numeral of psychiatric disorders were pragmatic in those quick in a cooperative household.

Also, psychiatric ailments were more widespread in the greater experience and subordinate session associated to the intermediate socioeconomic session.

Constituent manipulation illness embraced both alcohol and non -alcohol (both abuse and dependence), which together exhibited a pervasiveness of 17.2% (172/1000 population) in urban and 20.9% (209/1000) in favela sub cluster. Miserable ailments encompassed foremost gloomy illness and dystopia, which organized disclosed a pervasiveness of 2.4% (approx. same in both sub clusters). Despair and concern illness were more rampant among females; ingredient manipulation/requirement

were more rampant among males. More than 41% of the focused who disbursed alcohol had a diagnose psychiatric ailment.

DISCUSSION

Our study originates that 24.3% of the focus were woe from an Indian epidemiological study, can also replicate repetitively cumulative psychiatric ailments since 1970s. Although our verdicts of psychiatric pervasiveness frequencies are sophisticated in assessment to preceding Indian studies, it is in accord with the western epidemiological¹⁴⁻¹⁶ study findings.

Many studies have projected the pervasiveness of discontent in communal illustrations and the pervasiveness tariffs have speckled from 1.7 to¹⁷⁻²⁰ 74/1000 population. A large population-based study from South India, which curtained more than 24,000 focused in Chennai using Patient Health Questionnaire-12 testified inclusive pervasiveness of unhappiness to be 15.1% (151/1000 population). Nandi *et al*,²¹⁻²² similitude the happening of slump in the same catchment expanse after an antique of 20 years (first in 1972 and then in 1992) and testified that the pervasiveness of sadness increased from 49.93/1000 population to 73.97/1000 population. The above study conclusions by²² Nandi *et al*. can help comprehend our study conclusions of 148/1000 populace in year 2012 from 74/1000 population in 1992.

A meta-investigation of 15 epidemiological grooming (on psychiatric¹⁷ disorders), by Ganguli in India, institute the pervasiveness rate of concern neurosis to be 16.5 (16.5/1000 population). Similar conclusions were¹⁹ conveyed in a meta-analysis by Reddy²³ and Chandrasekhar. Madhav steered scrutiny of 10 Indian studies on psychiatric indisposition and determined pervasiveness tariffs for apprehension neurosis and hysteria to be 18.5 and 4.1/1000 population respectively. Except for hysteria, the



Pervasiveness tariffs of countless apprehension disorders encompassed in the apprehension ailment gamut were not disjointedly calculated in most of these edifications²⁴.

Our study imparts conclusions illustration that psychiatric ailments upsurge with increasing age and more than 50% of the population above 40 years agonize from a diagnosable psychiatric disorder, is in harmony with the conclusions of the other studies. Enlarged psychiatric indisposition with²⁵⁻²⁸ progressing age has been conveyed by many studies.

Depression and apprehension ailments were more rampant among females, ingredient abuse/dependence were more rampant among males. Sethi⁹⁻²⁹ *et al.* and Nandi *et al.* have also testified a higher psychiatric morbidity particularly of psychosis and despair among females.³⁰ Hagnell findings were similar to our study; that slump and mental state disorderliness are more rampant among females than males. Gender explicit jeopardy influences for psychiatric disorderliness that disproportionately impact women are gender-founded violence, gestation and climacteric, socioeconomic discriminate, devalued income and income inequality, low or laudatory social stipulation and egregious and perpetual sphere for the tending of some other. Studies have shown that there is a affirmation kinship between the rottenness and intensiveness of above-mentioned social ingredients and preponderance of mental health³¹⁻³⁵ perturbation in women. Fetching report of family cognition amusement that those surviving alone had the highest preponderance of psychiatric bidding loco mote by those surviving in nuclear family and the least number of psychiatric disorders³⁶ were determined in those surviving in joint family. Leff *et al.* recommended that translation joint kin countenance for dissemination of concern and could be prudent for mediating a positive outcome regarding

mental health disorders. Many studies carried out on the role of the family structure in relation to mental health have found that the nuclear family structure is more likely to be associated with psychiatric disorders than the joint^{37,38,39} family structure. Diagnose psychiatric disorderliness. An epidemiological study by Dube⁸ In our study, psychiatric disorders were more prevalent in upper class in 1970 has reported prevalence of psychiatric disorders to be 1.82% (18.24/1000 population). Sethi *et al.* conducted a study in a rural population in 1972 and reported prevalence of psychiatric disorders to¹⁰ be 3.9% (39/1000). Shah *et al.* channel a study in Ahmadabad in late 1970s, on a population of 2712 and amusement the preponderance of psychiatric magnitude to be 4.7%; he suggested fewer than two-fold rise in psychiatric disorders within the same decade. Another study by Premarajan *et al.* in 1993 rumored a preponderance of 9.94% (99.4/1000).¹¹

A trend of continuous modification in the preponderance of psychiatric disorderliness with time can be illustrious by the above study findings.¹² Substantiating the above observance Murray and Lopez from their study in 1996 found mental and behavioral bidding to be flaring in the universe and even World Health Organization has promulgated similar reports of modification in frequency of psychiatric disorders with¹³ instance. Our study reported higher preponderance rates compared with other and lower class compared with intermediate socioeconomic class. A study done in Ahmadabad terminated that the uttermost persuasion of socioeconomic scale, that is, lower class kin and upper class menage are more hypersensitive to psychiatric disorders, possibly⁴⁴ because these kin are more unprotected to nerve-wracking surviving. Contrary to the above accumulation, there are



a few studies, which did not find any⁴⁰,⁴¹ positive kinship between social assemblage and mental illness. ⁴² Thacore found higher morbidity in middle and upper social class. Hollingshead and Redlich in the New Haven study found that higher the social class, higher the neuroses and lower the social class, higher⁴³ the psychoses.

CONCLUSION

It is the first psychiatric epidemiological study in central India, concealment the starring psychiatric lordliness, all age radicals and a large population in urban area. This study may have a key role in policy making and for future psychiatric research in this area.

As per the study findings, approximately one out of four subjects had a psychiatric disorder. If the same prevalence is approximated to the overall accumulation of India (total population as per 2011 census, the subjects with a diagnose psychiatric disorder might be up to 25-30 corers (250-300 million). This figure emphasizes the illustration requisite to upgrade the existing mental health training and handling installation.

Our study is amid the very few epidemiological studies with reverence to methodological design, and evaluating each nonexempt with detail establishment of MINI and other set of questionnaires. Our study ended that 25.6% of the susceptible were wretched from one or more diagnose psychiatric disorderliness. The need of the hour is in addressing major dispute such as deficiency of mental health nonreciprocals, societal stigma, and inadequacy in financial aid, which are the prim scourges for stipulate a pan-optic psychiatric precaution. In spite of best endeavour, the magnitude relation between psychiatrists and general population is deterioration day by-day. Improving the training of undergraduate medical and nursing students will play a significant role in addressing the increasing psychiatric morbidity.

Conflict of interest: The authors report no conflicts of interest.

Acknowledgement: No grants/ financial support received.

REFERENCES

- "The world health report 2001 - Mental Health: New Understanding, New Hope" (PDF). WHO. "Mental health: strengthening our response". World Health Organization. August 2014. WordNet Search. Princeton University. Retrieved 4 May 2014.
- 10. Shah AV, Goswami UA, Maniar RC, Hajariwala DC, Sinha BK. Prevalence of psychiatric disorders in Ahmedabad (an epidemiological study). Indian J Psychiatry 1980; 22:384-9. 11. Premarajan KC, Danabalan M, Chandrasekar R, Srinivasa DK. Prevalence of
- Aguado, J., Navarro, P., Esteve, L., & Ascaso, C. (2003). Confirmatory factorial analysis of GHQ-12 in puerperal women [Análisis factorial confirmatorio del General Health Questionnaire (GHQ-12) en puerperas].
- Avasthi A. Preserve and strengthen family to promote mental health. Indian J Psychiatry 2010; 52:113-26.
- Bijl RV, Ravelli A, van Zessen G. Prevalence of psychiatric disorder in the general population: Results of The Netherlands Mental Health Survey and Incidence Study (NEMESIS). Soc Psychiatry Psychiatr Epidemiol 1998; 33:587-95.
- Central Intelligence Agency (CIA): The World Fact Book. Available from: <http://www.cia.gov/library/publications/the-world-factbook/geos/in.html>. 4. World Health Organisation. Organisation of Mental Health Services in Developing Countries. 16th Report of the Expert Committee on Mental Health. Technical Report Series, 564. Geneva: WHO; 1975.



- Chatterji S, He Y. Global perspectives on suicidal behavior. In: Alonso J, Chatterji S, He Y, editors. *The Burdens of Mental Disorders: Global Perspectives from the WHO World Mental Health Surveys*. Cambridge, United Kingdom: Cambridge University Press; 2013. p. 1-6
- Davar B. *The Mental Health of Indian Women: A Feminist Agenda*. New Delhi: Sage; 1999.
- Dube KC. A study of prevalence and biosocial variables in mental illness in a rural and an urban community in Uttar Pradesh - India. *Acta Psychiatr Scand* 1970; 46:327-59.
- Sethi BB, Gupta SC, Kumar R, Kumari P. A psychiatric survey of 500 rural families. *Indian J Psychiatry* 1972; 14:183.
- Dutta SR. Social stratification of mental patients. *Indian J Psychiatry* 1962; 4:3-8.
- Neki JS, Kapoor RK. Social stratification of psychiatric patients. *Indian J Psychiatry* 1963; 5:76-86.
- Elnagar MN, Maitra P, Rao MN. Mental health in an Indian rural community. *Br J Psychiatry* 1971; 118:499-503.
- Ganguli HC. Epidemiological findings on prevalence of mental disorders in India. *Indian J Psychiatry* 2000; 42:14-20.
- Grover S, Dutt A, Avasthi A. An overview of Indian research in depression. *Indian J Psychiatry* 2010; 52:S178-88.
- Hagnell O. Neuroses and other nervous disturbances in a population, living in a rural area of southern Sweden, investigated in 1947 and 1957. *Acta Psychiatr Scand Suppl* 1959; 34:21420.
- Hollingshed AB, Redlich FC. *Social Class and Mental Illness*. New York: Willey Publications; 1958. International Neuropsychiatric Interview. English Version 6.0.0
- Kessler RC, Chiu WT, Demler O, Merikangas KR, Walters EE. Prevalence, severity, and comorbidity of 12-month DSM-IV disorders in the National Comorbidity
- Kessler RC, McGonagle KA, Zhao S, Nelson CB, Hughes M, Eshleman S, et al. Lifetime and 12-month prevalence of DSM-III-R psychiatric disorders in the United States. Results from the National Comorbidity Survey. *Arch Gen Psychiatry* 1994; 51:8-19.
- Leff J, Wig NN, Bedi H, Menon DK, Kuipers L, Korten A, et al. Relatives' expressed emotion and the course of schizophrenia in Chandigarh. A two-year follow-up of a first contact sample. *Br J Psychiatry* 1990; 156:351-6.
- Madhav M. Epidemiological study of prevalence of mental disorders in India. *Indian J Community Med* 2001; 26:10-2.
- Math SB, Chandrashekar CR, Bhugra D. Psychiatric epidemiology in India. *Indian J Med Res* 2007; 126:183-92.
- Mayer P, Ziaian T. Indian suicide and marriage: A research note. *J Comp Fam Stud* 2002; 33:297-396.
- Mental and neurological disorders. The World Health Report 2001. Geneva: World Health Organization. http://www.who.int/whr/2001/media_centre/en/whr01_fact_sheet1_en.pdf.
- Murray CJ, Lopez AD. Alternative projections of mortality and disability by cause 1990-2020: Global burden of disease study. *Lancet*. 2020;349:1498-504. [[PubMed](#)] [[Google Scholar](#)]
- Nandi DN, Banerjee G, Mukherjee SP, Ghosh A, Nandi PS, Nandi S. Psychiatric morbidity of a rural Indian community. Changes over a 20-year interval. *Br J Psychiatry* 2000; 176:351-6.
- Nandi DN, Mukherjee SP, Boral GC, Banerjee G, Ghosh A, Sarkar S, et al. Socio economic status and mental morbidity in



certain tribes and castes in India - a cross cultural study. *Br J Psychiatry* 1980; 136:73-85.

- Patel V, Araya R, de Lima M, Ludermir A, Todd C. Women, poverty and common mental disorders in four restructuring societies. *Soc Sci Med* 1999; 49:1461-71.
- 32. Dennerstein L, Astbury J, Morse C. *Psychosocial and Mental Health Aspects of Women's Health*. Geneva: World Health Organization; 1993.
- Poongothai S, Pradeepa R, Ganesan A, Mohan V. Prevalence of depression in a large urban South Indian population - the Chennai Urban Rural Epidemiology Study (CURES-70). *PLoS One* 2009; 4:e7185.
- psychiatry morbidity in an urban community of Pondicherry. *Indian J Psychiatry* 1993; 35:99-102.
- 12. Murray CJ, Lopez AD. Evidence-based health policy - lessons from the Global Burden of Disease Study. *Science* 1996; 274:740-3.
- Ram D, Darshan MS, Rao TS, Honagodu AR. Suicide prevention is possible: A perception after suicide attempt. *Indian J Psychiatry* 2012; 54:172-6.
- Reddy VM, Chandrashekar CR. Prevalence of mental and behavioural disorders in India: A meta-analysis. *Indian J Psychiatry* 1998; 40:149-57.
- Sethi BB, Chaturvedi PK. A review and role of family studies and mental health. *Indian J Soc Psychiatry* 1985; 1:216-30.
- Shah AV, Goswami UA, Maniar RC, Hajariwala DC, Sinha BK. Prevalence of psychiatric disorders in Ahmedabad (an epidemiological study). *Indian J Psychiatry* 1980; 22:384-9.
- Shubhangi R, Parkar, Johnson Fernandes, Mitchell G. Weiss. "Contextualizing Mental Health: Gendered Experiences in a Mumbai Slum," *Anthropology and Medicine*. 2021;10(3):291-308. [[PubMed](#)] [[Google Scholar](#)]
- Sinha D. Some recent changes in the Indian family and their implications for socialization. *Indian J Soc Work* 1984; 45:271-86.
- Survey Replication. *Arch Gen Psychiatry* 2005; 62:617-27.
- Thacore VR, Gupta SC, Suraiya M. Psychiatric morbidity in a north Indian community. *Br J Psychiatry* 1975; 126:365-9.
- Thacore VR. *Mental Illness in an Urban Community*. Allahabad: United Publishers; 1979.
- Tiwari SC, Srivastava S. Geropsychiatric morbidity in rural Uttar Pradesh. *Indian J Psychiatry* 1998; 40:266-73.
- Trivedi Jitendra, Sareen Himanshu, Dhyani Dhyani, Mohan Mohan. Rapid urbanization - Its impact on mental health. *A South Asian region perspective Indian Journal of Psychiatry*. 2018 [[PMC free article](#)] [[PubMed](#)] [[Google Scholar](#)]
- Trivedi JK, Gupta PK. An overview of Indian research in anxiety disorders. *Indian J Psychiatry* 2010; 52:S210-8.
- USA: D. Sheehan, J. Janavs, K. Harnett-Sheehan, M. Sheehan, C. Gray. University of South Florida College of Medicine- Tampa, USA EU: Y. Lecrubier, E. Weiller, T. Hergueta, C. Allgulander, N. Kadri, D. Baldwin, J. P. Lépine. Hôpital de la Salpêtrière-Paris, France. MINI
- Verghese A, Beig A, Senseman LA, Rao SS, Benjamin V. A social and psychiatric study of a representative group of families in Vellore town. *Indian J Med Res* 1973; 61:608-

