MORTALITY IN INDIA

Montality pattern in India . The identification of characteristics and pattern of montality in India is a kigh tough task and it needed to be accurate. This type of information is relevant both to an assessment of the demographic situation and to the design of appropriate health policies and programmes. Montality estimates, are also useful far projecting the future size of the population.

The government of India has repeatedly taken steps to strengthen maternal and child health services in India starting during the first and second 5 years plan and continuing with the Minimum Needs frogramme (MNP) initiated during the 5th fifth 5 years plan. More recently affords to improve maternal and child health have been enhanced by activities of the Family Welfare frogramme (FWP).

regarding the death rates in India

1) National family Health Survey (NFHS)

3) Sample Registration system (SRS)

ex Coude Douth Rates from NFH's and SR's by sex and residence, India:

- CDR	NEHS			SRS		
	Maile	Female	Total	Male	Femele	Total
in Unban	8.3	₹3	7-8	7	6	6.5
bruseni	F.01	10	lo.y	9-8	9.4	9.6
instotal	10.1	9.3	9.7	9.2	8.6	8.9

In the most countries made cleath routes are higher than the female death rectes at nearly all ages. South Asia generally has been an exception in this respect, with higher death rates for females over much of the age span. According to both NFHS and SRS the male CDR in India is higher than the female CDR, but the age specific death rates are slightly higher for females than for males through age 30, after which males generally here higher rates.

Coude Death Rotes by States forom NFHS:-

Northern India: Delhi -> 7.8

Himachal pradesh > 8.3

Rajasthan > 10.2

Central India: Madhya pradesh > 10.2

Uffar Pradesh + 10,2

Eastern India: Bihar > 11.2

Onissa + 12.9

West Bengal > 8.3

North East India: Arunachal Bradesh -> 12.4

Assam > 9.4.

Manipur > 9

Sikkim+ 6.3

Western India: Groa + 10-1

bujarat > 8

P < sietzareaham

Southern India: Andhra Bradesh > 10.7

Karnataka 77.9

Kerala > 6

Tamil Nadu > 10.8.

Death Rate in India: -

Decade	coude death rate/1000
21 - 30	36.3
31-40	31.2
41-50	27-4
21-60	22.8
61-70	8.9
71-80	16.1
81-90	13.1
91-2000	u salah ji
2001-2010	9.7
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Infant and child montality :- Infant and child montality rates reflect a country's level of socioeconomic development and quality of life and are used for monitoring and evaluating population and health programme and policies! NFHS asked all ever married women age'd between 15-49 to

-	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT
	Porovide a complete history of their births including for each life birth, the gender, month, year of birth, survival status or age at death. In this oregard few points are important ->
	is was noted martility of the probability of during
	in the first month of life.
	2) Post Neo Natal martality: - The probability of dying after the first month of life but before the first
1	after the first month of life but before the risist
	birthday.
	Infant moretalety of the fact
•	birthday. 3/ Infant mortality: The probability of dying between before the first birthday.
	by child morranty s
	first and fifth birthdays. 5), Under 5 montality: The probability of dying

before the fifth birthday.

Infant mortality in India declin from 86 deaths/1000 life births during 1984-188 to 68 deaths/1000 life births during 2000, an average rate of decling of nearly 2 infant deaths/ 1000 life birth/ year. Infant and child mortality by states:-

ant and Child	~~~~	3,403,50
states	Infant mortality	devildmentality
India (total)	67.6	29.3
Nonthern India	46.8	9.
Hariyana	26.8	21.2
Himachal Pradesh	34.4	8.3
Rajasthan	80.4	37.6
Central India Madhya Pradesh	86-1	\$6.4
Uttar Pradesh	86.7	39.2
Eastern India Bilan	72.9	34.7
Orissa	8 (25.5
West Bengal.	48.7	19.9
North East India Arunachal Praduk	£3.]	37.4
Assam	69.5	21.4
Manipur	37	19.9
Sikkim	чз. 9	28.4
the state of the s		

	states	Infantmentality	abild montality grate
	Western India	36.7	10.5
	Grejarat	62.6	24
Ī	Maharastra	43.7	l5 -
	Soluthern India Andhra Pradesh	65.8	21
1 12 1	Karnataka	21.2	19.3
1	Kerala	16.3	2.6
1	Tamil Nader	48.2	15.9

Maternal Montality Rote (MMR):— Estimates of the maternal montality ratio for India grange from 407 for 1998 (SRS) to 570 for 1990 from the World Health Organization (WHO). The 2 NFHS estimates MMR from 424 in 1991-192 to 540 in 1997-198, All of these estimates imply that more than 100000 women in India die every year from causes related to pregonancy and child birth. This finding greinforces the urgency of ensuring that all pregnant women beceive adequate anti-natal care during pregnancy and that deliveries take place under hygenic conditions with the assistance of french medical practitioners.

Beside this major mobility conditionsfertial and complete blindness, tuberculosis,
leprosy, physical impairment of the limbs,
prevalance of authema, jaundic, malaria,
and disease like HIV/AIDS, cancer in the
household populations by age-sex, place of
oresidence, educational status, social status,
availability of medical facilities, oreligion,
caste, wealth are the main reasons for differential
Pattern of mortality in India,

Infant Mortality

In India for quite a long time infant mortality was quite high. Due to social conditions, in many cases, the girls were thrown from high mountains immediately after their birth. Not only this, but many children died soon after their birth either due to lack of medical facilities or poor feeding or unhygienic method of delivery or lack of after care. In fact, biological, environmental and social conditions effected infant mortality in India.

During the last 50 years infant mortality rate has come down by 50% but still it is very high as compared with other countries of the world. This rate is now coming down because very many medical facilities are now available in India, after care facilities have considerably increased and living standard of the people has very much gone up.

Infant Mortality Rate: According to Actuarial Reports of various periods brought out by the Registrar General of India, infant mortality rate by sex from 1901-11 to 1951-61 was as under:

Infant Mortality Rate By Sex

Decade	Infant Mortality Rate				
	Male	Female			
1901-10	290.0	284.6			
1921-30	248.7	232.2			
1941-50	190.0	175.0			
1951-60	153.2	138.3			
1961-70	131	221			
1971-75	115	112			

In 1989, this rate stood at 91.

Sinha and Immerwahr in 'mortality Rate for India 1951-61' had estimated infant mortality for India by sex (1951-81) as under:

Estimated	Mortality	Rate	in	India
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Year	Male	Female	.1 -2
1951	235	218	
1956	199	185	
1961	168	157	
1971	120	113	
1981	86	82	

By another account infant mortality per thousand during the period 1940-71 was as under:

Infant Mortality Rate Per Thousand in India

Year	Mortality/thousand	Year	Mortality thousand
1940	161	1953	119
1950	132	1954	115
1951	124	1955	100
1952	116	1961	18
		1971	72

It will thus be observed that over the years this rate has been coming down. But compared to many other countries of the world it is still very high. In slums which are around big cities this rate is still higher. It is 556 in Bombay; 386 in Calcutta, 260 in Nagpur and Lucknow, and 235 in Delhi. In Madras it is about 280.

During the period 1941-71 mortality rates and expectations of life at birth in different States of India was as follows:

Mortality and Expectations of Life at Birth in Indian States

Name of the	Death	Rate Expecte	ed age Dea	th Rate
States		in ye	ears	
,54	1941-51	1951-61	1961-71	
India	27.4	22.8	41.2	14
Andhra Prade	esh 29.5	25.2	36.9	16
Assam	31.8	26.9	36.8	13
Bihar	26.5	26.1	37.6	18

Contd...

Contd	11. 0	ate Expected	l age Death	n Rate
Name of the States	Death H	in ye 1951-61	ars 1961-71	
Gujarat	29.9	23.5	40.0	15 14
Karnataka	18.9	22.2 16.1	40.2 48.5	12
Kerala Madhya Prad	18.0 lesh 38.5	23.2	40.6	14
Madnya Frac Maharashtra		19.8	45.2 40.9	13 15
Orissa	29.9 26.2	22.9 18.9	47.5	12
Punjab Rajasthan	27.2	19.4	46.8	14 14
Tamil Nadu	22.8 sh 27.2	22.5 24.9	39.8 38.9	16
Uttar Prades West Benga		20.5	44.3	14

According to Registrar General of India (Infant Mortality in India, 1972), infant mortality in rural India in 1968 was 136.8, (Males 136.0 and Females 137.6) whereas in 1969 it was 139.9 (Males 132.0 and Females 148.0). One interesting feature of infant mortality in India is that here the rate of females death is higher than that of the males, though in many parts of the world the position is quite to the contrary.

According to figures made available by Vital Statistics Division of Registrar General of India infant mortality rate in some of the states was as under.

Infant Mortality Rate per 1000 Live Births

Name of the State	Year Urban	1979 Rural	Year 1 Urban	989 Rural
Andhra Pradesh	65	114	53	87
Assam	60	106	63	93
Gujarat	103	129	70	92
Haryana	72	104	58	88
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Name of the State	Year 1979		Year 1989	
State	Urban	Rural	Urban	Rural
J.&K.	53	80	55	72
Kerala	30	45	115	25
Maharashtra	59	97	44	66
Karnataka	51	94	53	89
Punjab	84	93	53	72
Rajasthan	55	118	59	103
Tamil Nadu	63	114	43	80 .
Uttar Pradesh	104	168	75	126

On all India basis infant mortality rates in 1979 in urban India was 72 whereas in rural India it was 130. In 1989, this rate in urban and rural India was 58 and 98 respectively which shows a positive decline. Variations in rates in different states are mainly because of existence of different castes and religions. Christians and Muslims have lower mortality than the Hindus. Upper caste Hindus have lower mortality than the lower caste Hindus. Not only this but medical facilities in India are quite inadequate and even pure drinking water is not available in the rural areas.

Infant mortality is very much influenced by two important factors; namely the age at marriage of the mother and also the interval between the two children. Usually when the mother is young and not fully mature to give birth to a child, the new born baby is likely to die sooner than otherwise he would have died. Similarly when gap between the two children is less chances of death are more than when the gap is wider.

Expectation of Life at Birth

From expectation of life at birth is meant the number of years a newly born child is expected to live. Expectation of life at birth