







National Stroke Registry Programme

Factsheet

Stroke Incidence and Mortality:

A Report of the Population Based Stroke Registries, India









Stroke Incidence and Mortality

Stroke is the third leading cause of death and sixth leading cause of disability in India. The Indian Council of Medical Research — National Centre for Disease Informatics and Research (ICMR-NCDIR), Bengaluru initiated a network of Population Based Stroke Registries in five regions [Varanasi, Kota, Tirunelveli, Cuttack and Cachar] under the National Stroke Registry Programme (NSRP). The purpose of NSRP is to establish a continuous and systematic stroke surveillance system to generate incidence rates of stroke in specific populations across India.

The Stroke Fact Sheet presents the epidemiological profile of stroke described in the 'Stroke Incidence and Mortality: A Report of the Population Based Stroke Registries, India'.

Epidemiological profile of stroke (2018-19)							
	Cuttack	Cachar	Tirunelveli	Kota	Varanasi		
Stroke Incidence							
Number of registered first ever	3226	2493	3730	2347	2024		
stroke cases in age group 18 and							
above (N)							
Crude Incidence Rate (per 100,000	187.6	96.6	169.6	125.8	123.0		
population)							
Age Standardized Incidence Rate	127.7	81.9	107.7	105.8	94.3		
(per 100,000 population)							
Type of Stroke							
Ischemic Stroke (%)	75.5	46.5	84.8	83.6	60.4		
Haemorrhagic Stroke (%)	20.6	26.8	11.5	16.1	35.1		
Undetermined Stroke (%)	3.9	26.7	3.7	0.3	4.5		
Ischaemic Stroke (includes venous stroke)							
Crude Incidence Rate (per 100,000	141.6	45.0	143.9	105.1	74.3		
population)							
Age Standardized Incidence Rate	96.6	39.6	91.4	88.5	56.8		
(per 100,000 population)							









	Cuttack	Cachar	Tirunelveli	Kota	Varanasi	
Haemorrhagic Stroke						
Crude Incidence Rate (per 100,000	39.0	25.9	19.6	20.2	43.1	
population)						
Age Standardized Incidence Rate	26.4	21.7	12.4	16.9	33.6	
(per 100,000 population)						
Undetermined Stroke						
Crude Incidence Rate (per 100,000	7.3	25.8	6.2	6.8	5.6	
population)						
Age Standardized Incidence Rate	4.9	20.6	3.9	5.9	4.3	
(per 100,000 population)						

Risk Factors of Stroke						
Hypertension (%)	75.0	67.9	40.3	58.7	64.1	
Diabetes (%)	26.2	15.9	26.4	23.8	35.1	
Current Tobacco Use (%)	62.4	53.8	23.1	32.2	19.3	
Basis of Diagnosis						
Clinical Only (%)	17.7	2.6	10.5	0.8	6.0	
Clinical and Imaging (%)	79.6	71.5	84.1	99.2	91.3	
Death Certificate Only cases (%)	2.7	25.9	5.3	0.0	2.7	
Vital status at 28 days after onset of stroke						
Alive (%)	77.8	46.5	79.8	87.1	60.2	
Dead (%)	20.4	42.6	20.2	12.9	39.7	
Unknown (%)	1.8	10.9	0.0	0.0	0.1	
Stroke Mortality at 28 days after onset of stroke						
Crude case fatality rate (per	31.4	39.9	30.3	15.3	46.6	
100,000 population)						

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