



Present scenario on dengue disease in various states of India

Introduction

Dengue (DENG-gey) fever is caused by mosquito-borne illness. It is a major hazard which is preventable and a dangerous one and it causes the death of many humans. It is a severe flu-like illness and it affects infants, children, adolescents, and adults. [1] Dengue disease is transmitted by the Aedes aegypti mosquito and is seen in the rainy season every year. [2] It is a global burden vector-borne disease among human beings. High temperature and flu show the symptoms for mild dengue in the world level. It is a viral infection which spreads from mosquitoes to human beings. [3] It is more common in tropical and subtropical climates. Many people who are affected by dengue, they won't have symptoms. Most of the dengue patients will cure with 1 or 2 weeks. Severe patients only need hospital care. Some severe dengue cases lead to death. Avoid mosquito bites especially during data time. In this article, I have to discuss about the symptoms of Dengue, its prevention and control, dengue cases in various states.

Symptoms for Dengue:

Dengue symptoms normally begin from 4 to 10 days after infection. These symptoms are high fever (40 degree Centigrade), severe headache, pain behind the eyes, muscle and joint pains, nausea, vomiting, swollen glands and rashes in the affected patients. [4]

Prevention and Control:

Mosquitoes that spreading the disease dengue are active during the day time. [5] Lower the risk of getting dengue by protecting yourself from mosquito bites by using the following methods by wearing the clothes that cover as much of your body as possible, mosquito nets if sleeping during the day, ideally nets sprayed with insect usage of repellent, window screens, mosquito repellents and coils and vaporizers. If anyone gets dengue then the following things are very important take rest properly, drink plenty of liquids, use acetaminophen (paracetamol) for pain, avoid non-steroidal anti-

inflammatory drugs, like ibuprofen and aspirin, watch for severe symptoms and contact your doctor as soon as possible. One vaccine Dengvaxia [6] has been approved and licensed in some countries. This vaccine for the prevention of dengue disease caused by dengue virus serotypes 1, 2, 3, and 4. However, only persons with evidence of past dengue infection can be protected by this vaccine. Several additional dengue vaccines are under evaluation. Distribution of dengue cases and deaths in various states and union territories of India from year 2018 – 2023 as shown in **Table – 1**.

Conclusion

From this article, I have concluded that the dengue is a very dangerous disease in mosquito-borne disease. Very careful with mosquito bite in the day time. High degree of fever more than 5 days and pain behind the eye ball immediately blood check-up is mandatory to dengue. Protect yourself from mosquito bite by some precautionary methods. Dengvaxia vaccine for the prevention of dengue disease caused by dengue virus serotypes 1, 2, 3, and 4. In future dengue related research is needed to know its impact, and severity in all parts/regions/states/district/places of India.

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Table – 1 Distribution of dengue cases and deaths in various states and union territories of India from year 2018 – 2023 [7]

Sl. No.	Affected States/UTs	2018		2019		2020		2021		2022		2023*	
		C	D	C	D	C	D	C	D	C	D	C	D
1	Andhra Pradesh	4011	0	5286	0	925	0	4760	0	6391	0	3926	0
2	Arunachal Pradesh	1	0	123	0	1	0	7	0	114	0	17	0
3	Assam	166	0	196	0	33	0	103	0	1826	2	5604	6
4	Bihar	2142	0	6712	0	493	2	633	2	13972	32	2515	7
5	Chattisgarh	2674	10	722	0	57	0	1086	0	2679	10	733	0
6	Goa	335	1	992	0	376	0	649	0	443	1	264	0
7	Gujarat	7579	5	18219	17	1564	2	10983	14	6682	7	3334	1
8	Haryana	1898	0	1207	0	1377	0	11835	13	8996	18	2892	4
9	Himachal Pradesh	4672	7	344	2	21	0	349	0	3326	1	596	0
10	J & K	214	0	439	0	53	0	1709	4	8269	18	1192	0
11	Jharkhand	463	1	825	0	79	0	220	1	290	0	958	2
12	Karnataka	4427	4	16986	13	3823	0	7393	7	9889	9	9185	0
13	Kerala	4083	32	4652	16	4399	5	3251	27	4432	29	9770	37
14	Lakshadweep	0	0	0	0	0	0	1	0	67	0	286	0
15	Madhya Pradesh	4506	5	4189	2	806	0	15592	11	3318	2	1544	0
16	Meghalaya	44	0	82	0	4	0	129	0	26	0	59	0
17	Maharashtra	11011	55	14907	29	3356	10	12720	42	8578	27	8496	2
18	Manipur	14	0	359	0	37	0	203	0	503	4	521	0
19	Mizoram	68	0	42	0	67	0	83	0	1868	5	821	1
20	Nagaland	369	0	8	0	1	0	24	0	154	0	400	0
21	Odisha	5198	5	3758	4	496	0	7548	0	7063	0	6563	0
22	Punjab	14980	9	10289	14	8435	22	23389	55	11030	41	4246	0
23	Rajasthan	9587	10	13706	17	2023	7	20749	96	13491	10	5094	6
24	Sikkim	320	0	444	0	11	0	243	1	264	0	163	0
25	Tamil Nadu	4486	13	8527	5	2410	0	6039	8	6430	8	4148	3
26	Tripura	100	0	114	0	24	0	349	0	56	0	744	0
27	Telangana	4592	2	13331	7	2173	0	7135	0	8972	0	5138	0
28	Uttar Pradesh	3829	4	10557	26	3715	6	29750	29	19821	33	5742	5
29	Uttarakhand	689	3	10622	8	76	1	738	2	2337	0	1588	14
30	West Bengal			NR	NR	5166	0	8264	7	67271	30	NR	NR
31	A & N Island	49	0	168	0	98	0	175	0	1014	3	540	0
32	Chandigarh	301	0	286	0	265	0	1596	3	910	1	93	0
33	Delhi	7136	4	5077	0	1269	0	13089	23	10183	9	5221	1
34	D&N Haveli	493	0	1491	2	248	0	547	0	685	0	478	0
35	Daman & Diu	163	0	625	2	71	0	279	0	228	0	94	0
36	Puduchery	592	2	2030	2	633	1	1625	1	1673	3	1233	2
	Total	101192	172	157315	166	44585	56	193245	346	233251	303	94198	91

*Provisional till 17th September 2023; C = Cases, D = Deaths, NR = Not Reported

Source: National Center for Vector Borne Diseases Control, Directorate General of Health Sciences, Ministry of Health & Family welfare, Government of India.

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