

Supplementary Table 1. Full search strategies for all databases

Database	Full search string (exact)	Filters / limits applied	Search date
PubMed	((("dengue hemorrhagic fever"[Title/Abstract] OR "dengue shock syndrome"[Title/Abstract] OR "dengue fever"[Title/Abstract] OR "breakbone fever"[Title/Abstract] OR DENV[Title/Abstract] OR DENV-1[Title/Abstract] OR DENV-2[Title/Abstract] OR DENV-3[Title/Abstract] OR DENV-4[Title/Abstract]) AND ("ophthalmic manifestations"[Title/Abstract] OR "ocular manifestations"[Title/Abstract] OR "macular neuroretinopathy"[Title/Abstract] OR uveitis[Title/Abstract] OR "unilateral central scotoma"[Title/Abstract] OR "orbital compartment syndrome"[Title/Abstract] OR "ciliochoroidal effusion"[Title/Abstract] OR "conjunctival ulcer"[Title/Abstract] OR conjunctivitis[Title/Abstract]))	English-language original clinical studies published between 2000 and 2024 were included. Searches were restricted to title/abstract fields. Editorials, conference papers, review articles, and non-clinical studies were excluded.	8 December 2024
EMBASE	('dengue hemorrhagic fever':ti,ab OR 'dengue shock syndrome':ti,ab OR 'dengue fever':ti,ab OR 'breakbone fever':ti,ab OR DENV:ti,ab OR 'DENV-1':ti,ab OR 'DENV-2':ti,ab OR 'DENV-3':ti,ab OR 'DENV-4':ti,ab) AND ('ophthalmic manifestations':ti,ab OR 'ocular manifestations':ti,ab OR 'macular neuroretinopathy':ti,ab OR uveitis:ti,ab OR 'unilateral central scotoma':ti,ab OR 'orbital compartment syndrome':ti,ab OR 'ciliochoroidal effusion':ti,ab OR 'conjunctival ulcer':ti,ab OR conjunctivitis:ti,ab)	English-language original clinical studies published between 2000 and 2024 were included. Searches were restricted to title/abstract fields. Editorials, conference papers, review articles, and non-clinical studies were excluded.	8 December 2024
Web of Science	TS=((("dengue hemorrhagic fever" OR "dengue shock syndrome" OR "dengue fever" OR "breakbone fever" OR DENV OR DENV-1 OR DENV-2 OR DENV-3 OR DENV-4) AND ("ophthalmic manifestations" OR "ocular manifestations" OR "macular neuroretinopathy" OR uveitis OR "unilateral central scotoma" OR "orbital compartment syndrome" OR "ciliochoroidal effusion" OR "conjunctival ulcer" OR conjunctivitis))	English-language original clinical studies published between 2000 and 2024 were included. Searches were restricted to title/abstract fields. Editorials, conference papers, review articles, and	8 December 2024

		non-clinical studies were excluded.	
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Supplementary Table 2. Characteristics of gastrointestinal (A), cardiovascular (B), ocular (C), and respiratory (D) manifestations in case reports/case series studies

(A)

First author	Publish ed time	Countr y	Typ e of stu dy	Numb er of patien ts with DF	Number of DF patients with gastrointest inal manifestati ons	Me an age	M/F	Quality assessm ent
Jain[1]	2014	India	Cas e repo rt	1	1	27	1M	Medium
Dalugama[2]	2017	Sri Lanka	Cas e repo rt	1	1	26	1M	Medium
Chen[3]	2004	Taiwan	Cas e repo rt	1	1	66	1F	Medium
Gonzalez- Fontal[4]	2011	Colombi a	Cas e repo rt	1	1	27	1M	Medium
Alves[5]	2022	Brazil	Cas e seri es	2	2	42	1M/ 1F	Low
Chandrashekar[6]	2013	India	Cas e repo rt	1	1	43	1M	Medium
Acherjya[7]	2023	Banglad esh	Cas e repo rt	1	1	55	1M	High

Wijekoon[8]	2010	Sri Lanka	Cas e repo rt	1	1	47	1M	Low
Anam[9]	2016	Banglad esh	Cas e repo rt	1	1	20	1M	High
Flor[10]	2022	Ecuador	Cas e repo rt	1	1	26	1M	Medium
Das[11]	2020	India	Cas e repo rt	1	1	32	1M	Low
Islam[12]	2023	India	Cas e repo rt	1	1	25	1M	Medium
Khataniar[13]	2023	India	Cas e repo rt	1	1	28	1F	Medium
Kumar[14]	2016	India	Cas e repo rt	1	1	10	1F	Medium
Kumar[15]	2018	India	Cas e repo rt	1	1	8	1F	Medium
Naik[16]	2021	India	Cas e repo rt	1	1	21	1M	Medium
Seetharam[17]	2010	India	Cas e repo rt	1	1	56	1M	Medium
Simadibrata[18]	2012	Indonesi a	Cas e repo rt	1	1	59	1M	High
Kashyap[19]	2024	Nepal	Cas e	1	1	24	1F	Medium

			repo rt					
Pahari[20]	2023	Nepal	Cas e repo rt	1	1	57	1M	Medium
Hafiz[21]	2021	Saudi Arabi	Cas e repo rt	1	1	35	1M	Medium
Thadchanamoort hy[22]	2021	Sri Lanka	Cas e repo rt	1	1	10	NR	Low
Thadchanamoort hy[23]	2022	Sri Lanka	Cas e seri es	2	2	7	2F	Medium
Joob[24]	2020	Thailan d	Cas e repo rt	1	1	47	1M	Medium
Correa[25]	2019	USA	Cas e repo rt	1	1	37	1F	Medium
Raza[26]	2020	USA	Cas e repo rt	1	1	38	1M	Medium
Nguyen[27]	2023	Vietnam	Cas e repo rt	1	1	31	1M	Medium
Mishra[28]	2024	India	Cas e repo rt	1	1	45	1F	Medium

(B)

First author	Publish ed time	Countr y	type of stud y	Numb er of patien ts with DF	Number of DF patients with CVD manifestati ons	Mea n age	M/F	Quality assessme nt
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Sane[29]	2015	Australia	Case report	1	1	9	1M	Medium
Fernandes[30]	2017	Brazil	Case report	1	1	34	1F	Low
Horta Veloso[31]	2003	Brazil	Case report	1	1	26	1F	High
Miranda[32]	2013	Brazil	Case report	1	1	62	1M	Medium
Goh[33]	2010	China	Case report	1	1	37	1F	Medium
Díaz[34]	2020	Colombia	Case report	1	1	16	1M	Medium
Biswas[35]	2019	India	Case report	1	1	15	1F	Low
Giri[36]	2022	India	Case report	1	1	39	1F	High
Kohli[37]	2007	India	Case report	1	1	65	1M	Low
Kumar[38]	2017	India	Case report	1	1	11	1F	Medium
Singh[39]	2020	India	Case report	1	1	12	1F	Medium
Sud[40]	2023	India	Case series	3	3	31	1M/2F	Medium
Uppal[41]	2019	India	Case report	1	1	29	1M	Low
Boo[42]	2018	Malaysia	Case report	1	1	28	1F	Medium
Mahmod[43]	2009	Malaysia	Case report	1	1	20	1M	Medium

Kashyap[44]	2024	Nepal	Case report	1	1	58	1F	Medium
Khan[45]	2023	Pakistan	Case report	1	1	16	1M	Low
Naqvi[46]	2021	Pakistan	Case report	1	1	80	1F	Low
Tahir[47]	2015	Pakistan	Case report	1	1	44	1M	Medium
Ullah[48]	2023	Pakistan	Case report	1	1	35	1F	Medium
Marques[49]	2013	Portugal	Case series	2	2	30.5	2M	Medium
Dandeniya[50]	2020	Sri Lanka	Case report	1	1	16	1F	High
Mohammed[51]	2024	USA	Case report	1	1	47	1M	Medium

(C)

First author	Published time	Country	type of study	Number of patients with DF	Number of DF patients with ocular manifestations	Mean age	M/F	Quality assessment
Pierre[52]	2008	Brazil	Case report	1	1	67	1F	Medium
Siqueira[53]	2004	Brazil	Case report	1	1	32	1F	Low
Guardiola[54]	2022	USA	Case report	1	1	18	1F	Low
Akanda[55]	2017	USA	Case report	1	1	43	1F	High

Goldhardt[56]	2016	USA	Case series	2	2	21	2F	Low
Stewart[57]	2015	USA	Case report	1	1	22	1M	Medium
Li[58]	2015	China	Case series	9	9	NR	NR	Low
Aggarwal[59]	2017	India	Case report	1	1	39	1M	Medium
Arya[60]	2019	India	Case report	1	1	22	1M	Medium
Bawankar[61]	2018	India	Case report	1	1	25	1F	Medium
Belenje[62]	2021	India	Case report	1	1	1	1M	High
Chhavi[63]	2012	India	Case report	1	1	11	1F	Low
Dhoot[64]	2023	India	Case report	1	1	36	1F	Low
Gupta[65]	2009	India	Case series	6	6	NR	2M/4F	Low
Jain[66]	2014	India	Case report	1	1	17	1M	Medium
Kamal[67]	2018	India	Case report	1	1	33	1M	Medium
Kamath[68]	2017	India	Case series	2	2	27.5	2F	Medium
Kanungo[69]	2008	India	Case report	1	1	28	1F	Medium
Koundanya[70]	2019	India	Case report	1	1	42	1F	High

Modgil[71]	2024	India	Case series	3	3	53.3	3M	Medium
Puthalath[72]	2021	India	Case report	1	1	30	1F	High
Ramakrishnan[73]	2016	India	Case report	1	1	62	1M	Medium
Ramamurthy[74]	2014	India	Case report	1	1	27	1M	Medium
Sriram[75]	2015	India	Case report	1	1	25	1F	Medium
Triningrat[76]	2020	Indonesia	Case series	3	3	26	1M/2F	Medium
Matono[77]	2023	Japan	Case report	1	1	39	NR	Medium
Juanarita[78]	2012	Malaysia	Case report	1	1	24	1F	Medium
Kalthum[79]	2012	Malaysia	Case report	1	1	37	1F	Medium
Kan[80]	2017	Malaysia	Case report	1	1	33	1F	High
Niraula[81]	2024	Nepal	Case report	1	1	18	1M	High
Khan[82]	2020	Pakistan	Case report	1	1	19	1M	Medium
Tabbara[83]	2012	Saudi Arabia	Case series	2	2	37.5	2M	Medium
Sanjay[84]	2008	Singapore	Case series	3	3	30	1M/2F	Medium
Yudhishdran[85]	2019	Sri Lanka	Case report	1	1	27	1F	Medium

Wang[86]	2024	Taiwan	Case report	1	1	41	1F	Medium
Butel-Simoes[87]	2024	Australia	Case report	1	1	65	1F	Medium

(D)

First author	Published time	Country	type of study	Number of patients with DF	Number of DF patients with respiratory manifestations	Mean age	M/F	Quality assessment
Saúl[88]	2024	Argentina	Case report	1	1	72	1M	Medium
Radakovic-Fijan[89]	2002	Austria	Case report	1	1	40	1F	Medium
Fontes Jardim[90]	2012	Brazil	Case report	1	1	25	1F	Low
Marchiori[91]	2009	Brazil	Case report	1	1	70	1M	Medium
Melo[92]	2022	Brazil	Case report	1	1	10	1F	Medium
Agrawal[93]	2021	India	Case report	1	1	32	1M	High
Bendwal[94]	2014	India	Case report	1	1	34	1M	Medium

Borthakur[95]	2011	India	Cas e repo rt	1	1	23	1M	High
Chandrashekar[6]	2013	India	Cas e repo rt	1	1	43	1M	Medium
Chopra[96]	2007	India	Cas e repo rt	1	1	30	1M	Medium
Das[97]	2020	India	Cas e repo rt	1	1	25	1F	Medium
Deepak[98]	2011	India	Cas e repo rt	1	1	23	1F	Medium
Ferdous[99]	2021	India	Cas e repo rt	1	1	8	1F	Medium
Gautam[100]	2022	India	Cas e repo rt	1	1	22	1M	Medium
Kabra[101]	2022	India	Cas e repo rt	1	1	20	1F	Medium
Karanth[102]	2012	India	Cas e repo rt	1	1	51	1M	Medium
Sharma[103]	2007	India	Cas e repo rt	1	1	30	1M	Medium
Singh[104]	2024	India	Cas e repo rt	1	1	30	1F	Medium
Kumar[105]	2013	India	Cas e	2	2	43	1M/ 1F	High

			series					
Agarwal[106]	2024	India	Cas e series	8	8	9.25	3M/5F	Medium
Setyawati[107]	2022	Indonesia	Cas e report	1	1	11	1F	Medium
Thaha[108]	2008	Indonesia	Cas e report	1	1	nr	NR	Low
Arumugam[109]	2020	Malaysia	Cas e report	1	1	42	1M	High
Chong[110]	2017	Malaysia	Cas e report	1	1	59	1M	Medium
Mahmud[111]	2017	Pakistan	Cas e report	1	1	45	1F	Medium
Jayarajah[112]	2020	Sri Lanka	Cas e report	1	1	26	1M	High
Jayasinghe[113]	2016	Sri Lanka	Cas e report	1	1	24	1F	High
Leevongsakorn[114]	2023	Thailand	Cas e report	1	1	30	1F	Medium
Siriyakorn[115]	2015	Thailand	Cas e report	1	1	17	1M	Medium
Sivakorn[116]	2020	Thailand	Cas e report	1	1	84	1F	High

Tangnararatchakit[117]	2012	Thailand	Case report	1	1	16	1F	Medium
Witayathawornwong[118]	2003	Thailand	Case report	1	1	nr	1F	Medium
Moulton[119]	2016	Thailand	Case series	3	3	7.6	3M	Medium
Setlik[120]	2004	USA	Case report	1	1	61	1F	Low
Tahir[47]	2015	USA	Case report	1	1	44	1M	High

NR: Not Reported, M: Male, F: Female, DF: Dengue Fever

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