



# International Journal of Homoeopathic Sciences

E-ISSN: 2616-4493  
P-ISSN: 2616-4485  
Impact Factor (RJIF): 5.96  
[www.homoeopathicjournal.com](http://www.homoeopathicjournal.com)  
IJHS 2025; 9(3): 1281-1286  
Received: 19-07-2025  
Accepted: 23-08-2025

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## Assessing the impact of homoeopathic treatment on dengue fever with thrombocytopenia: A case report

**Sahana V Hiremath, Jayalaxmi Patil, KS Pradeep and Arun V Hooli**

**DOI:** <https://www.doi.org/10.33545/26164485.2025.v9.i3.T.1821>

### Abstract

Dengue is a vector-borne viral disease caused by the flavivirus dengue virus (DENV) which is transmitted to humans through the bite of infected *Aedes aegypti* mosquitoes <sup>[1]</sup>. About half of the world's population is now at risk of dengue, with an estimated 100-400 million infections occurring each year <sup>[2]</sup>. The case presented here is a diagnosed case of dengue treated with single dose of homoeopathic medicine.

**Keywords:** Dengue fever, thrombocytopenia, hematemesis, melena, homoeopathic treatment, single dose, phosphorus

### Introduction

Dengue is a viral infection caused by the dengue virus (DENV), which is transmitted to humans through the bite of infected mosquitoes

Dengue is found in tropical and sub-tropical climates worldwide, mostly in urban and semi-urban areas <sup>[2]</sup>. A positive-stranded enveloped RNA virus (DENV) is principally transmitted by *Aedes aegypti* mosquitoes <sup>[1]</sup>.

Individuals who are infected for the second time are at greater risk of severe dengue. The symptoms of severe dengue often come after the fever has gone away and may include: severe abdominal pain, persistent vomiting, rapid breathing, bleeding gums or nose, fatigue, restlessness, blood in vomit or stool, being very thirsty, pale and cold skin, feeling weak <sup>[2]</sup>.

### Case report

A female patient named Miss. S, of age 24 years, complained of fever with chills followed by severe headache, nausea, vomiting since 3 days. Fever with chills started on 24/8/24 morning, which was remittent type ranging from 103 to 104 °F.

- **Chill stage:** Thirst absent, wants to cover whole body
- **Heat stage:** Thirst absent, chill present there was internal chill with external heat, rigors present.
- **Sweat stage:** Thirst absent, sweat present on all body parts covering, heat persist but chill reduces for some time then recur.

There was severe throbbing type of pain in frontal and temporal region, nausea from smell of food, vomiting after few spoons of food. There was no improvement after taking Chloroquinone and Zerodol tablet for 3 days. After 3 days started with blood vomiting, 2 episodes/day, and melena 3 episodes. On 5<sup>th</sup> day petechial rashes were seen on body parts.

**Past history:** No significant past history

**Family history:** Sister-suffered from dengue 5 years back.  
Mother-hypotensive since 10 years.

### Menstrual history

- **Menarche:** At 14 years of age
- **Cycle:** Regular, 5 to 6 days
- **Flow and character:** Dark blood with no clots
- No abnormal discharge



### Personal history

- Diet-Vegetarian
- Appetite-Decreased since complaints started
- Thirst-Decreased since complaints started
- Desires-Nothing specific
- Aversions-Nothing specific
- Bowels-Once daily, dark or black coloured stool
- Micturition-5-6 times/day, 2-3/night
- Sleep-disturbed due to fever
- Dreams-N.S
- Perspiration-Generalized
- Habits-NIL
- Thermals-Chill.

### Reports

### General physical examination

- Built and nourishment-Poorly built and Nourished
- Weight-37 kgs
- Height-160 cm
- Head-Symmetrical
- Scalp-Clean
- Eyes-Sclera-clear-conjunctiva-pink
- Ears-No discharge
- Nose-No DNS, no polyps
- Mouth-Tongue-clean-teeth-clean-gums-healthy
- Neck-Trachea centrally placed
- Upper limbs-No deformity
- Lower limbs-No deformity
- Pallor-Absent
- Oedema-Absent
- Cyanosis-Absent
- Clubbing-Absent
- Icterus-Absent
- Lymph nodes-No lymphadenopathy

### Vitals

- BP-100/60 mm Hg
- PR-110 bpm
- RR-20 cpm
- Temperature-102 to 104° F

**Provisional diagnosis:** Dengue fever with Thrombocytopenia.

Patient Name: [REDACTED] Date: 27/08/2024 Time 20:14  
 Age/Sex: 24 Years/Female  
 Ref.by: [REDACTED]

Tests	Results	Normal values
Random Blood Sugar	: 96 mg%	100 - 150 mgs%
Sr. Creatinine	: 0.9 mg%	0.6 - 1.4 mg%
Serum Bilirubin		
Total	: 0.9 mgs%	0.0 - 1.0 mgs%
Direct	: 0.2 mgs%	0.0 - 0.2 mgs%
Indirect	: 0.7 mgs%	0.0 - 0.8 mgs%
S.G.P.T	: 17 IU/L	5 - 35 IU/L
Dengue Test	: POSITIVE	
Dengue NS1 antigen	: POSITIVE FOR NS1 ANTIGEN	
Dengue IgG & IgM antibodies	: NEGATIVE FOR Dengue IgG & IgM Antibodies	

(Rapid visual method for the detection of Dengue NS1Ag & differential detection of IgM & IgG antibodies)

Techanichin  
 Malu N. [Signature]  
 Veeresh:  
 Printed By: [Signature]  
 Dr.Rashmi.A.Tolanur  
 Pathologist

Patient Name: [REDACTED] Date: 27/08/2024 Time 20:14  
 Age/Sex: 24 Years/Female  
 Ref.by: [REDACTED]

Tests	Results	Normal values
<b>CBC by Analyser</b>		
Haemoglobin	: 12.8 gm%	[M:13.0 - 18.0 gm%] [F: 11.0 - 16.0 gm%]
Total W. B. C.	: 2300 cells /cmm	[5000 - 10000 /cmm]
<b>Differential Count</b>		
Neutrophil	: 60%	[50 - 75 %]
Lymphocytes	: 32%	[25 - 40 %]
Eosinophils	: 06%	[00 - 08 %]
Monocytes	: 02%	[00 - 06 %]
Basophils	: 00%	[00 - 02 %]
<b>RBC Indices</b>		
Total R.B.C.	: 3.89 million/cmm	[M:4.5 - 6.0 mill./cmm] [F: 3.8 - 5.5 mill./cmm]
P.C.V. (Haematocrit)	: 38.8%	[M:40-50% F:38-40]
M. C. V.	: 94.6 fl	[76 - 96 fl]
M. C. H.	: 32.9 pg	[26 - 34 pg]
M. C. H. C.	: 34.8%	[31 - 35 %]
<b>Platelet Indices</b>		
Total Platelet count	: 1.10.000 /cmm	[150000 - 450000/cmm]

Techanichin  
 Malu N. [Signature]  
 Veeresh:  
 Printed By: [Signature]  
 Dr.Rashmi.A.Tolanur  
 Pathologist

Patient Name [REDACTED] Date : 29/08/2024 Time 21:53  
 Age/Sex : 24 Years/Female  
 Ref.by [REDACTED]

Tests	Results	Normal values
<b>CBC by Analyser</b>		
Haemoglobin	: 13.1 gm%	[M:13.0 - 18.0 gm%] [F: 11.0 - 16.0 gm%]
Total W. B. C.	: 2000 cells /cmm	[5000 - 10000 /cmm]
Differential Count		
Neutrophil	: 30%	[50 - 75 %]
Lymphocytes	: 64%	[25 - 40 %]
Eosinophils	: 04%	[00 - 08 %]
Monocytes	: 02%	[00 - 06 %]
Basophils	: 00%	[00 - 02 %]
RBC Indices		
Total R.B.C.	: 3.91 million/cmm	[M:4.5 - 6.0 mill./cmm] [F: 3.8 - 5.5 mill./cmm]
P.C.V. (Haematocrit)	: 37.4%	[M:40-50% F:38-40]
M. C. V.	: 95.7 fl	[76 - 96 fl]
M. C. H.	: 33.5 pg	[26 - 34 pg]
M. C. H. C.	: 35.0%	[31 - 35 %]
Platelet Indices		
Total Platelet count	: 78,000 /c.mm	[150000 - 450000/c.mm]
Prothrombin Time	: 23 sec	
Test value	: 23 sec	
Control value	: 14	
INR	: 1.6	Oral anticoagulant therapeutic range: INR 2.0 to 4.0
<b>Techanichin</b>		
Mallu N. [Signature]		
Veeresh :		
Printed By [Signature]		Dr.Rashmi.A.Tolanur Pathologist

Patient Name [REDACTED] Date : 30/08/2024 Time 21:13  
 Age/Sex : 24 Years/Female  
 Ref.by [REDACTED]

Tests	Results	Normal values
Sr.Alkaline Phosphatase	: 69 U/L	40 - 140 U/L / Upto - 500 U/L In Children
Sr. Bilirubin		
Total	: 0.6 mg%	0.0 - 1.0 mg%
Direct	: 0.2 mg%	0.0 - 0.2 mg%
Indirect	: 0.4 mg%	0.0 - 0.8 mg%
S.G.O.T.	: 344 U/L	5 - 35 U/L
S.G.P.T.	: 150 U/L	5 - 35 U/L
Sr.Total Proteins	: 7.0 gm%	6.0 - 8. gms%
Sr. Albumin	: 3.9 gm%	3.8 - 5.0 gms%
Sr. Globulin	: 3.1 gm%	2.3 - 3.5 gms%
Sr. A/G Ratio	: 1.2	1.0 - 1.5
<b>Techanichin</b>		
Mallu N. [Signature]		
Veeresh :		
Printed By [Signature]		Dr.Rashmi.A.Tolanur Pathologist

Patient Name [REDACTED] Date : 30/08/2024 Time 21:13  
 Age/Sex : 24 Years/Female  
 Ref.by [REDACTED]

Tests	Results	Normal values
<b>CBC by Analyser</b>		
Haemoglobin	: 13.1 gm%	[M:13.0 - 18.0 gm%] [F: 11.0 - 16.0 gm%]
Total W. B. C.	: 4300 cells /cmm	[5000 - 10000 /cmm]
Differential Count		
Neutrophil	: 54%	[50 - 75 %]
Lymphocytes	: 38%	[25 - 40 %]
Eosinophils	: 06%	[00 - 08 %]
Monocytes	: 02%	[00 - 06 %]
Basophils	: 00%	[00 - 02 %]
RBC Indices		
Total R.B.C.	: 4.01 million/cmm	[M:4.5 - 6.0 mill./cmm] [F: 3.8 - 5.5 mill./cmm]
P.C.V. (Haematocrit)	: 38.4%	[M:40-50% F:38-40]
M. C. V.	: 95.8 fl	[76 - 96 fl]
M. C. H.	: 32.7 pg	[26 - 34 pg]
M. C. H. C.	: 34.1%	[31 - 35 %]
Platelet Indices		
Total Platelet count	: 68,000 /c.mm	[150000 - 450000/c.mm]
<b>Techanichin</b>		
Mallu N. [Signature]		
Veeresh :		
Printed By [Signature]		Dr.Rashmi.A.Tolanur Pathologist

Patient Name [REDACTED] Date : 31/08/2024 Time 17:19  
 Age/Sex : 24 Years/Female  
 Ref.by [REDACTED]

Tests	Results	Normal values
<b>CBC by Analyser</b>		
Haemoglobin	: 12.9 gm%	[M:13.0 - 18.0 gm%] [F: 11.0 - 16.0 gm%]
Total W. B. C.	: 4,000 cells /cmm	[5000 - 10000 /cmm]
Differential Count		
Neutrophil	: 50%	[50 - 75 %]
Lymphocytes	: 40%	[25 - 40 %]
Eosinophils	: 08%	[00 - 08 %]
Monocytes	: 02%	[00 - 06 %]
Basophils	: 00%	[00 - 02 %]
RBC Indices		
Total R.B.C.	: 4.03 million/cmm	[M:4.5 - 6.0 mill./cmm] [F: 3.8 - 5.5 mill./cmm]
P.C.V. (Haematocrit)	: 38.8%	[M:40-50% F:38-40]
M. C. V.	: 96.3 fl	[76 - 96 fl]
M. C. H.	: 32.0 pg	[26 - 34 pg]
M. C. H. C.	: 33.2%	[31 - 35 %]
Platelet Indices		
Total Platelet count	: 68,000 /c.mm	[150000 - 450000/c.mm]
S.G.O.T.	: 284 IU/L	5 - 35 IU/L
S.G.P.T	: 138 IU/L	5 - 35 IU/L
Sr.Alkaline Phosphatase	: 69 U/L	40 - 140 U/L / Upto - 500 U/L In Children
<b>Techanichin</b>		
Mallu N. [Signature]		
Veeresh :		
Printed By [Signature]		Dr.Rashmi.A.Tolanur Pathologist



**Analysis of symptoms**

Common symptoms	Uncommon symptoms
<ul style="list-style-type: none"> <li>Fever with chills</li> <li>Headache</li> <li>Nausea</li> <li>Vomiting</li> <li>Rashes on whole body</li> <li>Appetite decreased</li> </ul>	<ul style="list-style-type: none"> <li>Thirst absent during heat stage of fever</li> <li>Internal chill with external heat</li> <li>Vomiting of blood</li> <li>Dark stools</li> <li>Headache-forehead and temples</li> </ul>

**Totality of symptoms**

- Appetite decreased
- Thirst absent during heat stage of fever
- Internal chill with external heat
- Vomiting of blood
- Stools dark, black.

- Headache in forehead and temples

**Repertory used-BTPB****Repertorial totality**

SL. No	Chapter	Rubric	Sub-rubric
1.	Fever	Without thirst	-
2.	Fever	Internal chill with external heat	-
3.	Internal head	Forehead, temples	-
4.	Hunger and thirst	Loss of appetite	-
	Nausea and vomiting	vomiting	bloody
5.	Stool	stool	blackish

**Repertory sheet**

Filters Applied: Sort by Totality										
Symptoms: 8										
Remedies: 187										
Remedy Name	Phos	Nux-v	Ars	Sulph	Chin	Puls	Bry	Sep	Hep	Bell
<b>Totality</b>	27	25	23	23	22	22	20	20	19	19
<b>Symptoms Covered</b>	8	8	8	8	8	7	7	7	8	7
<b>Kingdom</b>	Minerals	Plants	Minerals	Minerals	Plants	Plants	Plants	Animals	Minerals	Plants
[Therap ] [Internal Head]Forehead: (148)	4	4	4	3	3	3	4	3	4	4
[Therap ] [Internal Head]Temples: (125)	2	1	1	2	4	4	2	1	1	3
[Therap ] [Hunger And Thirst]Loss of appetite: (124)	3	4	3	4	4	3	3	4	1	3
[Therap ] [Nausea And Vomiting]Vomiting: Bloody: (58)	4	3	3	3	3	3	2	3	3	2
[Therap ] [Fever]Chilliness in General: (142)	4	4	4	4	3	4	4	3	3	2
[Therap ] [Fever]Without Thirst: (55)	3	1	2	1	1	3		2	3	2
[Therap ] [Fever]Chill internally and Heat Externally: (82)	3	4	3	3	1	2	2	4	2	3
[Therap ] [Stool]Stool:Blackish (and dark): (37)	4	4	3	3	3		3		2	

**Repertory result**

- Phosphorus*
- Nux-vomica*
- Arsenicum album*
- Sulphur*

**Final remedy**

Rx-  
Phosphorus 200 1dose (0-0-4)  
Administered on 31/8/2024

**Results on 1/9/24**

<b>Patient Name</b> : [REDACTED]		<b>Date</b> : 01/09/2024 Time 15:34
<b>Age/Sex</b> : [REDACTED]		
<b>Ref.by</b> : [REDACTED]		

  

Tests	Results	Normal values
<b>CBC by Analyser</b>		
Haemoglobin	: 13.6 gm%	[M:13.0 - 18.0 gm%] [F: 11.0 - 16.0 gm%]
Total W. B. C.	: 6,900 cells /cmm	[5000 - 10000 /cmm]
<b>Differential Count</b>		
Neutrophil	: 54%	[50 - 75 %]
Lymphocytes	: 38%	[25 - 40 %]
Eosinophils	: 06%	[00 - 08 %]
Monocytes	: 02%	[00 - 06 %]
Basophils	: 00%	[00 - 02 %]
<b>RBC Indices</b>		
Total R.B.C.	: 4.18 million/cmm	[M:4.5 - 6.0 mill./cmm] [F: 3.8 - 5.5 mill./cmm]
P.C.V. (Haematocrit)	: 39.6%	[M:40-50% F:38-40]
M. C. V.	: 94.7 fl	[76 - 96 fl]
M. C. H.	: 32.5 pg	[26 - 34 pg]
M. C. H. C.	: 34.3%	[31 - 35 %]
<b>Platelet Indices</b>		
Total Platelet count	: 1,30,000 /c.mm	[150000 - 450000/c.mm]
S.G.O.T.	: 171 IU/L	5 - 35 IU/L
S.G.P.T	: 127 IU/L	5 - 35 IU/L
<b>Techanichin</b>		
Mallu.N. [Signature]		
Veeresh :		
Printed By : [Signature]		
Dr.Rashmi.A.Tolanur Pathologist		

**Follow up-on 4/9/24**

- Blood vomiting reduced, no fever episodes.
- Generalized weakness present,
- Needle pricking like pain in soles and palms,
- Hair loss was present.

**Rx**

Five Phos 6X-before food-[2-0-2] for 10 days

**Results on 4/9/24**

Patient Name Age/Sex Ref.by		Date : 04/09/2024 Time 19:23
Tests	Results	Normal values
<b>CBC by Analyser</b>		
Haemoglobin	: 13.4 gm%	[M:13.0 - 18.0 gm%] [F: 11.0 - 16.0 gm%]
Total W. B. C.	: 11,200 cells /cmm	[5000 - 10000 /cmm]
<b>Differential Count</b>		
Neutrophil	: 70%	[50 - 75 %]
Lymphocytes	: 20%	[25 - 40 %]
Eosinophils	: 08%	[00 - 08 %]
Monocytes	: 02%	[00 - 06 %]
Basophils	: 00%	[00 - 02 %]
<b>RBC Indices</b>		
Total R.B.C.	: 4.01 million/cmm	[M:4.5 - 6.0 mill./cmm] [F: 3.8 - 5.5 mill./cmm]
P.C.V. (Haematocrit)	: 38.6%	[M:40-50% F:38-40]
M. C. V.	: 96.3 fl	[76 - 96 fl]
M. C. H.	: 33.4 pg	[26 - 34 pg]
M. C. H. C.	: 34.7%	[31 - 35 %]
<b>Platelet Indices</b>		
Total Platelet count	: 3.57.000 /c.mm	[150000 - 450000/c.mm]
<b>Serum Bilirubin</b>		
Total	: 1.0 mgs%	0.0 - 1.0 mgs%
Direct	: 0.5 mgs%	0.0 - 0.2 mgs%
Indirect	: 0.5 mgs%	0.0 - 0.8 mgs%
S.G.O.T.	: 30 IU/L	5 - 35 IU/L
S.G.P.T	: 63 IU/L	5 - 35 IU/L
Sr.Alkaline Phosphatase	: 53 U/L	40 - 140 U/L / Upto - 500 U/L In Children

### Conclusion

Patient by the name Miss. S, came with complaints of fever with chills, severe headache, hematemesis, melena, weakness. Based on symptom totality patient was prescribed phosphorus 200-1 dose and Improvement was seen.

### Conflict of Interest

Not available

### Financial Support

Not available

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### How to Cite This Article

Hiremath SV, Patil J, Pradeep KS, Hooli AV. Assessing the impact of homoeopathic treatment on dengue fever with thrombocytopenia: A case report. International Journal of Homoeopathic Sciences. 2025;9(3):1281-1286.

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