

## LITERARY REVIEW OF ERANDA

Vd. Simaran Gani Mulla<sup>1\*</sup> and Vd. Nilesh Kulkarni<sup>2</sup><sup>1</sup>PG Scholar, <sup>2</sup>HOD Samhita & Siddhanta

MAM's Sumatibhai Shah Ayurved Mahavidyalaya, Hadapsar, Pune-28.

Article Received on  
21 February 2024,Revised on 11 March 2024,  
Accepted on 01 April 2024

DOI: 10.20959/wjpr20247-32000



\*Corresponding Author

Vd. Simaran Gani Mulla

PG Scholar,

MAM's Sumatibhai Shah

Ayurved Mahavidyalaya,

Hadapsar, Pune-28.

## INTRODUCTION

Eranda (*Ricinus Communis*) is an important medicinal plant where all parts of this drug are useful in various pathological conditions (vyadhies). Castor beans are purgative, leaves used as analgesic & anti-inflammatory.<sup>[1]</sup> The roots are particularly indicated a vrushya and vatahara i.e., analgesic & aphrodisiac.<sup>[2]</sup> Erand moola has Shown best spermatogenesis activity in experimental animals, proving our ancient quotation as vrishya.<sup>[3]</sup> Vatika disorder is result of either dhatu-kshay or avarodhajanya samprapti. Pain, stiffness, roughness, dullness immobility Conduction defect, disturbed metabolism and many neurological disorders are due to vata vyadhi. *Ricinus Communis* has therapeutic efficacy and known to possess anti-inflammatory, analgesic, anti-oxidant, anti-tumor, purgative activity these all are Vayuhara properties.<sup>[4]</sup> *Ricinus Communis* has various effects

depending at upon which part is used of the plant so it's very important to gather all information of eranda plant's different parts used in different pathologies from bruhatrayee.

## Moola

1] Vrishya Vataharanam

| Cha.Sa. <sup>[5]</sup> | Su.Sa. | A. Hru. | A.S. <sup>[6]</sup> |
|------------------------|--------|---------|---------------------|
| +                      | -      | -       | +                   |

2] Punarnavadi Panchamula (Madhyam Panchamula)

| Cha.Sa. <sup>[7]</sup> | Su.Sa. | A. Hru. | A.S. |
|------------------------|--------|---------|------|
| +                      | -      | -       | -    |

## 3] Earandmula kwatha Siddha Pay- Jwarparikartika

| Cha.Sa. <sup>[8]</sup> | Su.Sa. | A. Hru. | A.S. <sup>[9]</sup> |
|------------------------|--------|---------|---------------------|
| +                      | -      | -       | +                   |

## 4] Tiktekshwadi Tail - Kushtha

| Cha.Sa. <sup>[10]</sup> | Su.Sa. | A. Hru. | A.S. <sup>[11]</sup> |
|-------------------------|--------|---------|----------------------|
| +                       | -      | -       | +                    |

## 5] Mahavajrak Tail - Kushtha

| Cha.Sa. | Su.Sa. | A. Hru. <sup>[12]</sup> | A.S. |
|---------|--------|-------------------------|------|
| -       | -      | +                       | -    |

## 6] Mustadi Churna -Udar

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[13]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

## 7] Haridradi Dhoom Varti

| Cha.Sa. <sup>[14]</sup> | Su.Sa. | A. Hru. <sup>[15]</sup> | A.S. <sup>[16]</sup> |
|-------------------------|--------|-------------------------|----------------------|
| +                       | -      | +                       | +                    |

## 8] Erandmoola Kwatha- Rakt pichhaa &amp; Pravahika in Atisara

| Cha.Sa. <sup>[17]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

## 9] Dashamuladi Tail- Vatavikat

| Cha.Sa. <sup>[18]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

## 10] Erandmuladi Dhumvarti - Kaphaj Shiro-roga

| Cha.Sa. <sup>[19]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

## 11] Earandmula Siddha Kshira - Vata-vikar

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[20]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

## 12] Dvipanchamuladi ghruta - vata-shonita

| Cha.Sa. <sup>[21]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

## 13] Jivaniya ghruta-vata-shonita

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[22]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

## 14] Abhyanga-Udhavartan - Bal-upcharan

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[23]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

**Beeja**

## 1] Pralepa &amp; Abhyanga in Vata-shonita for Vataj-shoola

| Cha.Sa. | Su.Sa. | A. Hru. <sup>[24]</sup> | A.S. <sup>[25]</sup> |
|---------|--------|-------------------------|----------------------|
| -       | -      | +                       | +                    |

## 2] Utkarika - Grudhrasi pain

| Cha.Sa. <sup>[26]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

**Patra**

## 1] Eranda patra kshara with vyosha, tail &amp; guda - Kasa

| Cha.Sa. <sup>[27]</sup> | Su.Sa. | A. Hru. <sup>[28]</sup> | A.S. |
|-------------------------|--------|-------------------------|------|
| +                       | -      | +                       | -    |

## 2] Patradana - Vataj vrana

| Cha.Sa. | Su.Sa. <sup>[29]</sup> | A. Hru. | A.S. |
|---------|------------------------|---------|------|
| -       | +                      | -       | -    |

## 3] Patra kalka - Vranachikitsa

| Cha.Sa. | Su.Sa. <sup>[30]</sup> | A. Hru. | A.S. |
|---------|------------------------|---------|------|
| -       | +                      | -       | -    |

## 4] Sechan by Kwatha - Vataj-abhishyand

| Cha.Sa. | Su.Sa. <sup>[31]</sup> | A. Hru. | A.S. |
|---------|------------------------|---------|------|
| -       | +                      | -       | -    |

## 5] Gandarvahasta Tail- Vidradhi &amp; vrudhhi chikitsa

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[32]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

**Oil**

## 1] Erand Tail on regular basis - Vardhma-Gulma-shoola-hara

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[33]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

## 2] Sukumar rasayana - Vidradhi-vruddhi Chikitsa

| Cha.Sa. | Su.Sa. | A. Hru. <sup>[34]</sup> | A.S. <sup>[35]</sup> |
|---------|--------|-------------------------|----------------------|
| -       | -      | +                       | +                    |

3] Eranda Tail with varunimanda- Vataj Gulma Vedana

| Cha.Sa. <sup>[36]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

4] Mishrak sneha- Gulma Yonishoola

| Cha.Sa. <sup>[37]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

5] Sansran Sneha ghruta - Gulma

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[38]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

6] Eranda Tail with Udara- nashak dravya -Udar chikitsa

| Cha.Sa. <sup>[39]</sup> | Su.Sa. | A. Hru. <sup>[40]</sup> | A.S. |
|-------------------------|--------|-------------------------|------|
| +                       | -      | +                       | -    |

7] Eranda Tail with Go-mutra for 15-30 days being Udar-varji - Udar chikitsa

| Cha.Sa. | Su.Sa. <sup>[41]</sup> | A. Hru. | A.S. |
|---------|------------------------|---------|------|
| -       | +                      | -       | -    |

8] Vataj Udar Chikitsa

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[42]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

9] Eranda Tail with Kshara -Niruha basti in Aamdoshayukta Grahani

| Cha.Sa. <sup>[43]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

10] Saindhavadi Tail - vata-vikar

| Cha.Sa. <sup>[44]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

11] Eranda Tail Pana for 15-30days - Vataj shotha chikitsa

| Cha.Sa. | Su.Sa. <sup>[45]</sup> | A. Hru. <sup>[46]</sup> | A.S. <sup>[47]</sup> |
|---------|------------------------|-------------------------|----------------------|
| -       | +                      | +                       | +                    |

12] Amrutahva Tail

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[48]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

13] Vata-shonita

| Cha.Sa. <sup>[49]</sup> | Su.Sa. | A. Hru. | A.S. |
|-------------------------|--------|---------|------|
| +                       | -      | -       | -    |

14] Eranda Tail Bahumatra Pana in PittajmVata-shonita

| Cha.Sa. | Su.Sa. | A. Hru. | A.S. <sup>[50]</sup> |
|---------|--------|---------|----------------------|
| -       | -      | -       | +                    |

15] Eranda Tail & trikatu with Sukhodaka - Virechan

| Cha.Sa. | Su.Sa. <sup>[51]</sup> | A. Hru. | A.S. |
|---------|------------------------|---------|------|
| -       |                        | -       | -    |

### Toxicity

- The seed is only toxic if outer shell is broken or chewed. Ricin is contained in bean pulp following the separation of oil from beans. No ricin is through to remain in the oil and it is inactivated during extraction if done under heated conditions. Ingested castor beans are generally becoming toxic only if the ricin is released through mastication. Reports on ricin content of castor beans are varying, but it is probably in the range of 1%-5%. Purified ricin is a white powder that is soluble in water and stable over a wide pH range. Symptoms onset after ingestion is usually within 4-6hrs but may be late as 10 hours. Ricin works by getting inside the cells of person's body and preventing the cells from making Protein they need. Without the proteins, cells died. Eventually this is harmful to whole body and death may occur.<sup>[52]</sup>

### Toxicity symptoms<sup>[53]</sup>

| Inhalation                                                                                                                    | Ingestion                                                                                                                                                                       | Skin and eye exposure                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory distress, Fever, cough, nausea, tightness in chest, Heavy sweating, Pulmonary edema, low BP, Respiratory failure. | Vomiting, diarrhea (bloody), severe dehydration, low BP seizures, blood in urine, within Several days persons Liver, spleen and kidney might stop working, and person could die | Redness and pain of skin and eyes<br>(Ricin is unlikely absorbed through normal skin. contact with ricin powders or products may cause above symptoms) |

### Dose

Maximum dose of castor oil 5 pala ~200ml Ch.chi -26/30-31.<sup>[54]</sup>

The joint food and Agriculture organization (FAO) & WHO expert Committee on food additives established an acceptable daily castor oil intake of 0 to 0.7mg/kg [1m = 1000 mg].<sup>[55]</sup>

## REFERENCES

1. Nishteshwar K, Text Book of Dravyaguna; Chaukamabha Surabharati Prakashana; Varanasi, 2007; 541.
2. Hegde PL, A Harini. A Textbook of Dravyaguna Vijnana, New Delhi: Chaukhamba Publications, 2021; 1: 383-5
3. Comparative Spermatogenesis Activity of Eranda Moola (*Ricinus Communis*) Collected In Different Seasons as per Dravya Samgrahana Kaala: An Experimental Study Bingi Ashok, Mallya Suma Published, 2023; 15.
4. Ayurvedic Approach of Eranda (*Ricinus communis* Linn.) on Vata Vyadhi for Green Pharmacology Gyan Chand Kumar Morya Department of Dravyaguna, L. H. S. P. G. Ayurveda College & Hospital, Pilibhit, (Uttar Pradesh), India.
5. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Sutrasthana adhyay Published by Pune sahitya vitaran, 385, 1: 25-40.
6. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Sutrasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 115: 13-2.
7. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay Published by Pune sahitya vitaran, 11, 1: 1-43.
8. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 149: 3-235.
9. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay Published by M. A. Athavle, Pune, Printed in, 1980; 13: 2-43.
10. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 257: 7-108.
11. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay Published by M. A. Athavle, Pune, Printed in, 1980; 21, 141: 101-102.
12. Dr G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 321: 19-82.
13. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay Published by M. A. Athavle, Pune, Printed in, 1980; 98: 14-19.
14. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay Published by Pune sahitya vitaran, 2, 531: 17-77.
15. Dr. G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 141: 4-10.
16. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay

- Published by M. A. Athavle, Pune, Printed in, 1980; 42: 6-11.
17. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 583: 19-48.
  18. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Siddhisthana adhyay, Published by Pune sahitya vitaran, 2, 1047: 4-4.
  19. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 765: 26-182.
  20. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 124: 19-4.
  21. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 29: 69-70.
  22. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 159: 24-5.
  23. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Uttarsthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 9: 1-79.
  24. Dr G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 331: 22-34.
  25. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 160: 24-8.
  26. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 820: 28-114.
  27. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 565: 18-171.
  28. Dr G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 250: 3-167.
  29. Acharya Ambikadatta Shasri eited Sushruta Samhita with Ayurved-tatva-sandipika commentary, Chikitsasthana adhyay, Published by Chaukhanba sanskrit sansthana, Varanasi, 1, 15: 1-113.
  30. Acharya Ambikadatta Shasri eited Sushruta Samhita with Ayurved-tatva-sandipika commentary, Chikitsasthana adhyay, Published by Chaukhanba sanskrit sansthana, Varanasi, 1, 263: 2-39.
  31. Acharya Ambikadatta Shasri eited Sushruta Samhita with Ayurved-tatva-sandipika commentary Uttartantra adhyay, Published by Chaukhanba sanskrit sansthana, Varanasi, 2, 52: 9-11.

32. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 103: 15-17.
33. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Sutrasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 292: 13-43.
34. Dr G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 292: 13-43.
35. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Sutrasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 103: 15-17.
36. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 211: 5-92.
37. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 220: 5-151.
38. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Sutrasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 108: 16-18.
39. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 395: 13-172.
40. Dr G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 202: 15-47.
41. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 87: 14-10.
42. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 114: 17-19.
43. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 463: 15-79.
44. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Siddhisthana adhyay, Published by Pune sahitya vitaran, 2, 4: 15-16.
45. Acharya Ambikadatta Shasri eited Sushruta Samhita with Ayurved-tatva-sandipika commentary, Chikitsasthana adhyay, Published by Chaukhanba sanskrit sansthana, Varanasi, 130, 1: 23-11.
46. Dr G. K. Garde edited Sartha-Vagbhata, Chikitsasthana, Published by Chaukhanba surbharti, Varanasi, 312: 19-28.
47. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 126: 19-12.
48. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay,

- Published by M. A. Athavle, Pune, Printed in, 1980; 150: 23-6.
49. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Siddhithana adhyay, Published by Pune sahitya vitaran, 2, 29, 853: 100-102.
50. Vd. A. D. Athavle edited Ashtanga Sangraha with induvyakhya Chikitsasthana Adhyay, Published by M. A. Athavle, Pune, Printed in, 1980; 160: 24-41.
51. Acharya Ambikadatta Shasri eited Sushruta Samhita with Ayurved-tatva-sandipika commentary, Sutrasthana adhyay, Published by Chaukhanba sanskritsansthana, Varanasi, 214, 1: 44-75.
52. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3087745/>
53. <https://emergency.cdc.gov/agent/ricin/facts.asp>
54. Vd. Y. G. Joshi edited Charak samhita with Chkrapanidattas Ayurved-dipika commentary Chikitsasthana adhyay, Published by Pune sahitya vitaran, 2, 26: 30-31.
55. <https://pubmed.ncbi.nlm.nih.gov/18080873/>