

# A Comprehensive Review of Tinduka

## (*Diospyroembryopteris* Pers.)

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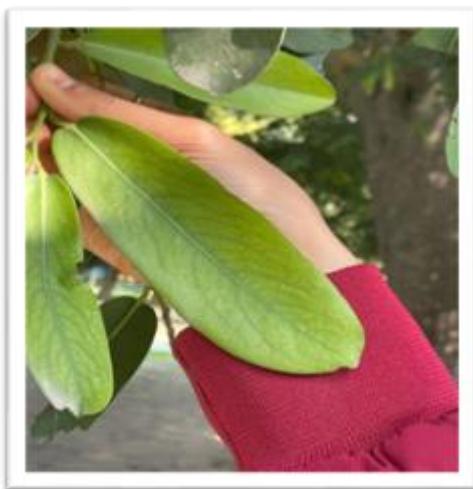
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**ABSTRACT:** Tinduka is a lesser-known plant which though finds mention in Ayurvedic Classics for its therapeutic uses such as wound healing, styptic, against female disorders and anti-diarrhoeal action. The various parts of Tinduka have different therapeutics. The fruit is stated to be *kapha-pittaghna*, it is astringent sweet and laghu in guna. The decoction of bark is orally taken in *Udarda*, skin affections, urticaria and similar allergic conditions. A paste of bark is also applied on skin diseases, particularly eruptions and glandular affections. This abstract aims to provide a concise overview of Tinduka as described in Ayurvedic and contemporary sciences.

**KEYWORDS:** Tinduka, ripe fruit, unripe fruit, bark, styptic, astringent, female disorders

**INTRODUCTION:** The traditional Indian system of medicine encompasses a vast array of medicinal plants that have been utilised for centuries to promote health and well-being. One such plant is Tinduka. It is an evergreen tree, medium-sized or small with many spreading branches forming a shady crown near the ground, quite-glabrous from ebenaceae family.



## REVIEW OF AYURVEDIC LITERATURE ON TINDUKA

**Table no 1.1 References of Tinduka in Charaka Samhita<sup>[1]</sup>**

Sr. No	Reference	Form of presentation	Action & Uses
<b>Charaka Samhita- Sutrasthana<sup>[a]</sup></b>			
1.	C.S.Su.4/43	<i>Udardaprashamana Mahakashyaya</i>	Against <i>Udarda</i> (Urticaria)
2.	C.S.Su. 25/40	<i>Tinduka phala</i>	Causes anorexia
3.	C.S.Su.25/49	<i>Asava</i> prepared from the <i>sara</i> (heartwood) of <i>Tinduka</i>	Promotes strength, digestives, alleviates sleepiness, anxiety and anorexia
4.	C.S.Su. 27/147	<i>Phala</i>	<i>Kapha-Pittaghana</i> , astringent, sweet and light
<b>Charaka Samhita- Vimansthana<sup>[b]</sup></b>			
5.	C.S.Vi.8/144	<i>KashayaSkandha</i>	Enema treatment in various <i>KaphaPaittik</i> disorders
<b>Charaka Samhita- Shareersthana<sup>[c]</sup></b>			
6.	C.S.S.8/47	<i>Kastha</i> (wood)	In <i>Sutikagaraparichary</i> a used for fire burning
<b>Charaka Samhita-Chikitasthana<sup>[d]</sup></b>			
7.	C.S.Ci.14/10	<i>Tinduka Phal</i>	Shape of <i>samanyaarsha</i>
8.	C.S.Ci. 30/79	<i>Tinduka</i> along with other drugs like <i>Dhataki</i> , leaves of <i>Amalaki</i> etc <i>sidhatailam</i> , <i>Dhatakyaditailam</i>	Cures sliminess as well as exudation from the genital tract. Acts against <i>yonivyapad</i> like <i>Vipluta</i> , <i>Upapluta</i> .  Cures <i>Uttana</i> (prolapse of uterus), <i>unnata</i> (upward displacement of uterus) and odema accompanied with pustular growth as well as pricking pain.

<b>Charaka Samhita- Kalpasthana<sup>[e]</sup></b>			
9.	C.S.Ka.1/8	Tinduka <i>Vriksha</i>	Described under vegetation of Jangal desha
10.	C.S.Ka.12/91	<i>Phala</i> of <i>Tinduka</i>	<i>Maan</i> ( unit of weightofmeasureme nt)

**Table 1.2 References of Tinduka in Sushruta Samhita<sup>[2]</sup>**

Sr.No	Reference	Form of presentation	Action & uses
<b>Sushruta Samhita- Sutrasthan<sup>[a]</sup></b>			
1.	S.S.Su.12/25	<i>KandaTwak</i> of Tinduka	<i>Atidaghada pralepana</i>
2.	S.S.Su.38/48	<i>Nygrodhadi gana</i>	<i>Sangrahi, bhagna sandhankara, raktpittahara, dahahara, medohara</i>
3.	Su.S.Su38/	<i>Salasaradi gana</i>	Destroys the <i>krimi</i> of <i>Kushtha, Kaphamedohara</i> and <i>Mehanashak, Panduhara</i> .
4.	S.S.Su.46/163	<i>PakvaPhala</i>	Description of properties of <i>pakvaphala-Kshayarasapradhana, Kaphapittahara, ruksha, madhura</i>
5.	S.S.Su.46/168	<i>Apakvaphala</i> <i>PakvaPhala</i>	Description of properties of <i>Aam phala-Sangrahi, Vatakopana</i> and <i>Pakva phala-Kapha-Vatahara</i>

<b>Sushruta Samhita Chikitsasthana<sup>[b]</sup></b>			
8.	Su.Chi.2/84	<i>Apakvaphalasidha tailam</i>	<i>Vrana ropana</i>
9.	Su.Chi.11/9	<i>Kwatha</i> of Guduchi, Tinduka, Kashmari and Kharjura with <i>madhu</i>	<i>Shonitameha chikitisa</i>
10.	Su.Chi.11/12	<i>Kwatha</i> of Tinduka, Kapiththa, Shirisha, Palasha, Patha, Murva and Dusparsha with <i>madhu</i>	<i>Hastimeha chikitisa</i>
11.	Su.Chi.21/6	Tinduka along with triphala lodhra, amrataka <i>Siddhatailam</i>	<i>Kumbhika (shukadosha) chikitisa</i>
12.	Su.Chi.21/10	Tinduka along with Dhava, Ashvakarna, Pattanga and Shalaki, <i>siddhatailam</i>	<i>Avamantha (shukadosha) chikitisa</i>
<b>Sushruta Samhita Uttartantra<sup>[c]</sup></b>			
13.	Su.Ut.21/46	<i>Kwatha</i> of Tinduka, Haritaki, Lodhra, Samanga and Amalaki along with Kapiththa swaras and <i>madhu</i>	<i>Karnapurana in Karnasrava</i>
14.	Su.Ut.31/5	<i>Ghrita sidha</i> with Dhava, Ashvakarna, Kakubha, Dhataki, Tinduka, drugs of <i>Kakolyadi gana</i>	<i>Rewatipratisheda (graha)</i>
15.	Su.Ut.39/186	<i>Kwatha</i> prepared with Saptacchada, Guduchi, Nimba and <i>Saphurjaka</i> (synonymn of	<i>Kaphaj jwara</i>

		Tinduka)	
16.	Su.Ut.40/41	<i>Kandatwaka</i> of Tinduka along with Aralu, Dadima, Kutaja, Shami	<i>Aamaja atisara</i>
17.	Su.Ut.60/36	<i>Pushapa</i> of <i>Atimuktaka</i> (synonym of Tinduka) Kunda and Kamal	<i>Yakshya graha shanti</i>

**Table no 1.3 References of Tinduka in Ashtang Hridyam<sup>[3]</sup>**

Sr.No	Reference	Form of Presentation	Action & uses
<b>Ashtang Hridyam Sutrasthana<sup>[a]</sup></b>			
1.	A.H.Su.15/41	<i>Nygrodhadi gana</i>	<i>Vrana shodhana-ropana, sangrahi, bhagna sadhana, meda, pitta asra, trishna, daha, yoniroga nashak</i>
<b>Ashtang Hridyam Chikitisasthana<sup>[b]</sup></b>			
1	A.H.Ch.12/12	<i>Raga/ Shadava preparation madefrom Kapitha, Tinduka and Jamun</i>	Prameha pathya
<b>Ashtang Hridyam Kalpasthana<sup>[c]</sup></b>			
2.	A.H.Ka.6/26	<i>Phala</i>	<i>Maan</i> (unit of weight of measurement)
<b>Ashtang Hridyam Uttartantra<sup>[d]</sup></b>			
3.	A.H.Ut.32/22	Tinduka swaras	<i>Vyanga rogahara lepa</i>
4.	A.H.Ut.34/10	<i>Tindukadi siddha tailam</i>	<i>In Kumbhika chikitsa after rakta-aveschana of the vrana</i>
5.	A.H.Ut.34/51	Tinduka along with	Relieves yonivyapad

		other drugs like Dhataki, leaves of Amalaki etc <i>sidhatalam,</i> <i>Dhatakyaditailam</i>	like <i>vipluta,</i> <i>uppaluta</i> and <i>safota</i>
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**Table no 1.4 list of synonyms of Tinduka in nighantus**

Sr. No	Synonyms	A. K. [4]	SK .D. [5]	Dh. Ni. [6]	So. Ni. [7]	M. Ni. [8]	K. Ni. [9]	Bh. Ni. [10]	R. Ni. [11]	Ni. A. [12]
1	Anilasara	-	-	-	-	-	-	-	-	-
2	Asitakaraka	-	-	-	-	-	-	+	-	-
3	Atimuktaka	-	+	+	+	+	-	+	+	-
4	Deerghanakha	-	-	-	-	+	+	-	-	-
5	Grahi	-	-	-	+	-	-	-	-	-
5	Kalasara	-	+	-	-	+	+	-	-	-
6	Kalaskandha	-	-	+	+	+	+	+	+	+
7	Kendu	-	+	-	-	-	-	-	-	-
8	Krishnasara	-	-	-	+	-	-	-	-	-
	Madhura	-	-	-	+	-	-	-	-	-
9	Neelsara	-	-	+	+	-	-	-	+	-
10	Ramana	-	-	-	-	-	-	-	-	-
11	Ravano	-	-	+	+	+	+	-	-	-
12	Rava	-	-	-	+	-	+	-	-	-
13	Safurjaka	-	-	+	+	-	-	+	+	+
14	Safurjana	-	+	+	+	+	+	-	+	-
15	Shitisaaraka	+	+	-	-	-	-	-	-	-

16	Spandhita	-	-	-	-	+	-	-	-	-
17	Spandhano	-	-	+	+	+	-	-	-	-
18	Srushta	-	-	-	-	-	-	-	-	-
19	Susara	-	-	-	-	-	-	-	-	-
20	Syandana	-	-	-	-	-	-	-	+	-
21	Syandanahvaya	-	+	-	-	-	-	-	-	-
22	Tanuka	-	-	-	-	+	-	-	-	-
23	Tinduki	-	-	-	-	+	-	-	-	-
24	Tinduka	+	+	+	+	+	+	+	+	+
25	Tushta	-	-	-	+	-	-	-	-	-
26	Vara	-	-	-	-	-	+	-	-	-
27	Vikarni	-	-	-	-	-	+	-	-	-
28	Visphurjani	-	-	-	-	+	+	-	-	-
29	Virala	-	-	-	-	+	-	-	-	-

### Pharmacodynamics of Tinduka

**Table no 1.5 Pharmacodynamics of various parts of Tinduka**

Sr.No	Pharmacodynamics	Bark <sup>[13]</sup>	Ripe fruit <sup>[14]</sup>	Unripe fruit <sup>[15]</sup>
Rasa	<i>Tikta</i>	+	-	-
	<i>Kashaya</i>	+	+	-
	<i>Madhura</i>	+	+	+
Guna	<i>Guru</i>	+	-	
	<i>Laghu</i>		-	
	<i>Snighdha</i>	+	-	-
	<i>Ruksha</i>		-	+
Virya	<i>Usna</i>		-	-

		+		
	<i>Sheeta</i>	-	+	+
Vipak	<i>Madhura</i>	+	-	-
	<i>Katu</i>	-	+	+

## VARIETIES OF TINDUKA

**Table no 1.6 varieties of Tinduka in the Ayurvedic texts**

Grantha	Variety of Tinduka
Dhanwantari Nighantu <sup>[16]</sup>	
Raja Nighantu <sup>[17]</sup>	Kakatinduka is considered as variants of Tinduka
Kaiyadeva Nighantu <sup>[18]</sup>	
Shaligram Nighantu <sup>[20]</sup>	
Madanpal Nighantu <sup>[21]</sup>	Vishatinduka is taken as variants of Tinduka
Nighantu Sangreha <sup>[22]</sup>	Kakatinduka and tinduka as separate plants
Adarsh Nighantu <sup>[23]</sup>	Mentions another spiny variety that has small fruit, unpalatable astringent taste and pungent; this fruit produces intoxicating effect.

**Table no 1.7 Varieties of *Diospyros* used as Tinduka**

Sr no.	Varieties of <i>Diospyros</i> used as Tinduka	English Name
1	<i>Diospyros peregrina</i> (Gaertn.) Gurke syn <i>Diospyros embryopteris</i> Pers <i>Diospyros malabarica</i> (Dess) Kostel	Malabar ebony Rubber ebony Indian Persimon
2	<i>Diospyros melanoxylon</i> Roxb	Coromandel Ebony East Indian Ebony
3	<i>Diospyros paniculata</i> Dalz,	Panicle flowered Ebony
4	<i>Diospyros tomentosa</i> Roxb	Persimon
5	<i>Diospyros montana</i> Roxb	Bombay ebony

6	<i>Diospyros kaki</i> Linn	Japanese Persimon
7	<i>Diospyros lotus</i> Linn	Causian Persimon Date plum Lilac Persimon

**Table no 1.8 Some classical therapeutics of bark, unripe and ripe fruit of Tinduka**

Sr.No	Therapeutics of Unripe fruit <sup>[24]</sup>	Therapeutics of bark <sup>[25]</sup>	Therapeutics of ripe fruit <sup>[26]</sup>
1.	Sangrahi	Atisaraghna	Sangrahi
2.	Varnahara	vranya	Asravikaranashna
3.	Lekhan	raktastambhaka	Lekhana

## CONCLUSION

The review of Ayurvedic literature on Tinduka furnishes ample references to explore its therapeutic uses of diseases. Tinduka by its pharmacodynamic properties of kashaya rasa pradhanata and laghu-ruksha guna acts against kapha vitiation, thus listed to be useful in diseases like kapha pradhanayoni rogas (female disorders) like upapluta, vipluta (correlated with leucorrhoea in contemporary medicine), in prameha disorders like Shonitameha and Hastimeha in particular since it is Kapha-pittashamak. It is vranya drug since it is styptic due to its Kashaya rasa, it promotes healing of the sadhyovrana (fresh wound) due to its astringent property. Due to its Kashatya rasa pradhanta and laghu ruksha guna it acts against vitiated kapha and pitta hence it is useful in skin diseases as well. The decoction of bark is orally taken in *Udarda*, skin affections, urticaria and similar allergic conditions those are kapha pitta pradhana. A paste of bark is also applied on skin diseases, particularly eruptions and glandular affections. Tinduka is atisaraghna due to its Sangrahi karma and kashaya rasa. These classical uses open a room for innovation for exploration of role of the drug, Tinduka in modern day diseases like I.B.S., female disorders, as antiseptic, and as antimicrobial agent. Tinduka is found to be of enormous therapeutic uses as stated in the Ayurvedic and contemporary texts. The drug can be explored further for its uses. The various varieties of Tinduka like *Diospyros malabarica*, *D. cordifolia* etc can be compared amongst themselves for their therapeutic uses.

## REFERENCES

1. Sastri k, Chaturvedi GN. The Charak Samhita of Agnivesha revised by Charaka and Dridbala with elaborated vidyotini hindi commentary. Varanasi: Chaukhamba Bharti Academy.2021;
2. Sastri k, Chaturvedi GN. The Charak Samhita of Agnivesha revised by Charaka and Dridbala with elaborated vidyotini hindi commentary. Varanasi: Chaukhamba Bharti Academy.2021;Sutrasthana
3. Sastri k, Chaturvedi GN. The Charak Samhita of Agnivesha revised by Charaka and Dridbala with elaborated vidyotini hindi commentary. Varanasi: Chaukhamba Bharti Academy.2021;Vimansthana
4. Sastri k, Chaturvedi GN. The Charak Samhita of Agnivesha revised by Charaka and Dridbala with elaborated vidyotini hindi commentary. Varanasi: Chaukhamba Bharti Academy.2021;Shareersthana

5. Sastri k, Chaturvedi GN. The Charak Samhita of Agnivesha revised by Charaka and Dridbala with elaborated vidyotini hindi commentary. Varanasi: Chaukhamba Bharti Academy.2021; Chikitsasthana
6. Sastri k, Chaturvedi GN. The Charak Samhita of Agnivesha revised by Charaka and Dridbala with elaborated vidyotini hindi commentary. Varanasi: Chaukhamba Bharti Academy.2021; Kalpasthana
7. Shastri KA. Sushruta Samhita of Maharishi Susruta. Varanasi:Chaukhamba Bharti Academy.2017;
8. Shastri KA. Sushruta Samhita of Maharishi Susruta. Varanasi:Chaukhamba Bharti Academy.2017;Sutrasthan
9. Shastri KA. Sushruta Samhita of Maharishi Susruta. Varanasi:Chaukhamba Bharti Academy.2017; Chikitsasthana
10. Vagbhatarimad- Ashtanga hridyam with Hindi Commentary edited by Dr. Brahmanand Tripathi. Delhi Chaukhamba Sanskrit Pratisthan. 2022;
11. Vagbhatarimad- Ashtanga hridyam with Hindi Commentary edited by Dr. Brahmanand Tripathi. Delhi Chaukhamba Sanskrit Pratisthan. 2022; Sutrasthan
12. Vagbhatarimad- Ashtanga hridyam with Hindi Commentary edited by Dr. Brahmanand Tripathi. Delhi Chaukhamba Sanskrit Pratisthan. 2022; Chikitsasthana
13. Vagbhatarimad- Ashtanga hridyam with Hindi Commentary edited by Dr. Brahmanand Tripathi. Delhi Chaukhamba Sanskrit Pratisthan. 2022; Kalpasthana
14. Vagbhatarimad- Ashtanga hridyam with Hindi Commentary edited by Dr. Brahmanand Tripathi. Delhi Chaukhamba Sanskrit Pratisthan. 2022; Uttartantra
15. Amarkosha Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Vanaushadi varga.
16. Dhanwantari Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Amaradi Varga.
17. Sodhala Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Amaradi Varga.
18. Madanpala Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Phaladi Varga.
19. 8.Kaiyadeva Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Aushadi Varga.
20. Bhavparkash Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Aamradi Phala Varga, anekarthanama varga.
21. Raj Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Aamradi Varga.
22. M U, Anjali & P, Shrikanth & Aithal, Ravikrishna. (2020). Insight on Tinduka – A Classical Medicinal Plant.
23. Nighantu adarsh, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Tindukadivarga
24. Anonymous, Ayurvedic Pharmacopoeia of India, Part 1, volume 5, Delhi, first edition reprinted, the controller of publications,2001, p.195
25. Nighantu adarsh, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Tindukadivarga
26. Sharma PV. Dravyaguna Vijnana. 12<sup>th</sup> ed. Varanasi Chaukhamba Orientalia, 1991; Vol-2 p.190-192
27. Dhanwantari Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Amaradi Varga.

28. Raj Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Aamradi Varga.
29. Kaiyadeva Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Aushadi Varga.
30. M U, Anjali & P, Shrikanth & Aithal, Ravikrishna. (2020). Insight on Tinduka – A Classical Medicinal Plant.
31. Madanpala Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Phaladi Varga.
32. Vaidya Bapalal, Nighantu Adarsh, Varanasi Chaukhamba Bharati Academy Purvarda 1<sup>st</sup> ed. 1968; Tindukadi varga verse no 917
33. Vaidya Bapalal, Nighantu Adarsh, Varanasi Chaukhamba Bharati Academy Purvarda 1<sup>st</sup> ed. 1968; Tindukadi varga verse no 917
34. M U, Anjali & P, Shrikanth & Aithal, Ravikrishna. (2020). Insight on Tinduka – A Classical Medicinal Plant.
35. Sharma PV. Dravyaguna Vijnana. 12<sup>th</sup> ed. Varanasi Chaukhamba Orientalia, 1991; Vol-2 p.190-192
36. Anonymous, Ayurvedic Pharmacopoeia of India, Part 1, volume 5, Delhi, first edition reprinted, the controller of publications,2001, p.195
37. Kaiyadeva Nighantu, e-Nighantu, Collection of Ayurvedic. Lexicons, CCRAS, New Delhi, Edition:2012, Aushadi Varga.