

WORLD JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH

www.wjpmr.com

SJIF Impact Factor: 5.922

Review Article

ISSN 2455-3301 WJPMR

CONCEPTUAL STUDY OF GURVADI GUNA WITH SPECIAL REFERENCE TO RUKSHA GUNA OF VATA AND ITS ROLE IN DIFFERENT PATHOGENESIS(SAMPRAPTI)

*Vd. Mayuri Narayanrao Manwatkar and Vd.S.V.Suryavanshi

¹PG Scholar, Dept. of Kayachikitsa, Govt. Ayu. College, Nanded. ²Professor and Head of Department, Dept. of Kayachikitsa, Govt. Ayu. College, Nanded.

*Corresponding Author: Vd. Mayuri Narayanrao Manwatkar

PG Scholar, Dept. of Kayachikitsa, Govt. Ayu. College, Nanded.

Article Received on 02/09/2019

Article Revised on 23/09/2019

Article Accepted on 14/10/2019

ABSTRACT

Ayurveda is a science of life which basically emphasises on some *siddhantas* i.e principles for maintaining the healthy life. *Karya Karana vada* is one of the basic principle of Ayurveda where *Shat Karanas* i.e *Samanya, Vishesha, Guna, Dravya, Karma* and *Samvaya* are held responsible for the *Karya* i.e *Dhatusamya* in the body. The quotation of *Guna* prior to *Dravya* and *Karma* itself is a clear indication of vast application of *Guna* over *Dravya* and *Karma*. All *shat karanas* are responsible for successful treatment but the *Guna Pradhan chikitsa* is widely used in practice. Out of 41 *Gunas* described by Acharya Charaka, *Gurvadi gunas* should be considered priorly due to their wide use in *Chiktsa*. *The Gurvadi gunas* are most useful in causing, diagnosing and treating the disease. Many entities like *Panchamahabhutas, Tridoshas,Ahar dravya,Shadvidha Upakrama, Rasa,Veerya,Vipaka* are described with the help of *Gurvadi gunas* so they are important. *Vata dosha* being the most important of *Tridoshas* is considered mainly here. It is having 6 *Gunas – Ruksha, Laghu, Sheet,Khara,Sukshma* and *Chala*. For the precise diagnosis and treatment of any disease the *Anshansh bala vikalpa* i.e. the estimation of *Gunas* which are predominantly leading to the vitiation of that *Dosha* is necessary. Out of these *Vata gunas Ruksha* being the *Pradhana Guna* of *Vata* is studied here with regards to its contribution in *samprapti* of various diseases mentioned in *Bruhat trayi*.

KEYWORDS: Gurvadi guna, Anshansh bala vikalpa, Ruksha.

INTRODUCTION

In the process of evolution of the universe the first component to be evolved is *Mahat tatva* or *Buddhi* which is the property of the *Dravya*, *Atma*. It indicates that though the *dravya Atma* was present in unmanifestated state, its existence came first in the form of *Guna* or its property i.e *Buddhi*. With this concept it could be opined that the existence comes first in the form of *guna* and then a group of some specific *gunas* combine to form a specific dravya which exists in the materialistic state and the *guna* remains in it in the form of energy. *Guna* is what attracts the people and manifest the *dravya* action. It is responsible for the *Kshay*, *Vriddhi* or *Samya avastha* of *doshas* so it is of utmost importance. [2]

Total number of *gunas* mentioned in Charak Samhita are 41 which are divided in 4 categories-

- 1. Sarth guna 5
- 2. Gurvadi guna 20
- 3. Adhyatmik guna- 6
- 4. *Paradi guna* 10.^[3]

Out of these Gurvadi gunas are of utmost importance because

- 1. They are present in *Prithvi adi dravyas* commonly so called *Sadharan gunas*.
- 2. They are having *sankhya pradhanya* i.e are large in number
- 3. They are widely used in practice.^[4]

Vata being the Pradhan dosha out of the tridoshas. [5] and is having the capacity to move pitta and kapha anywhere with it so is considered for the study here. Out of the 6 gunas of vata Ruksha guna is mentioned firstly in almost every place depicting its pradhanya amongst the other gunas. [6]

The journey of a causative agent upto generation of disease is *Agati or Samprapti*. ^[7] So for the understanding of pathogenesis of disease it is important to understand the *guna pradhanya* or predominance of the *hetu* which further leads to vitiation of *dosha* accordingly. Once the predominance of *guna* in the *hetu* is understood it is easy to treat the condition by application of opposite *gunas*. ^[8] So for this purpose, the contribution of Predominance of *Ruksha guna* of *vata* in pathogenesis of various diseases mentioned in *Bruhat trayee* is studied here.

MATERIALS AND METHOD

Bruhat trayee of Ayurveda along with their commentaries were referred for the conceptual study. The discussion was made on the basis of conceptual study and conclusion was drawn by considering the study and discussion.

Conceptual Study

Importance of *guna* – it plays a vital role

- 1. As a karana in avasthantar of dravya.
- 2. As a *karana* in *avasthantar* of *sharir avastha* by virtue of change in *dhatu guna*. ^[9]
- 3. In expressing *karma* of a *dravya*. [10]
- 4. As a identification character of *dravya*. [11]
- 5. In predicting *sadhya asadhyata* of disease. [12]
- 6. In *srotodushti*^[13]
- 7. In Swastha vritta^[14]
- 8. In Ahar dnyana^[15]

Gurvadi guna – They are 20 in number i.e Guru, Laghu, Sheet, Ushna, Snigdha, Ruksha, Manda, Teekshna, Sthir, Sara, Mrudu, Kathin, Vishad, Picchil, Shlakshna, Khar, Sthula, Sukshma, Sandra and Drava. [16] These are described in pairs having opposite nature of each other. These are used to describe entities like

- Panchamahabhoutik constitution of dravya e.g Vayviya dravya is having laghu,sheet,ruksha,khar etc. [17]
- 2. Tridosha e.g Pitta Snigdha, teekshna, ushna, laghu,etc. [18]
- 3. Ahar dravya e.g Mudga Ruksha, sheet, laghu. [19]
- 4. Shadvidha Upakrama- e.g Rukshan -ruksha,khar ,vishad. [20]
- 5. Rasa e.g Madhur rasa Snigdha, sheeta, guru. [21]
- 6. Veerya- e.g Ushna, sheeta, ruksha. [22]
- 7. Vipaka e.g Madhur vipaka Snigdha,guru. [23]
- 8. Rutu vivaran e.g Greeshma Ruksha. [24]
- 9. Vaya Avastha e.g Vriddha avastha– Ruksha
- 10. Prakruti vivaran e.g Kapha prakruti Snigdhanga due to snigdha guna. [25]

They are also responsible for causing the disease. *Ahara* is responsible for maintaining the health of body as well as for causation of disease. [26] *Ahara* is classified on the basis of 20 *gurvadi gunas* also. [27] The *dravyas* having same *gunas* as that of *doshas* will lead to its vitiation causing the disease. [28] e.g *ushna guna* leading to vitiation of *pitta* causing *Raktapitta samprapti*.

Gurvadi gunas are helpful in diagnosis of the disease. The Anshansha bala vikalpa i.e the estimation of guna predominance in the hetus leading to vitiation of doshas is expressed with gurvadi gunas e.g whether the vitiation of vata is by predominance of ruksha, sheet,laghu guna,etc. [29]

Once the *guna* predominance causing the vitiation of *doshas* is understood it is easy to treat the condition by using the *dravyas* with opposite *gunas* e.g when the vitiation of *vata* is by *Ruksha*, *laghu* and *sheet guna* it is

treated with *taila* having totally opposite *gunas* like *snigdha,guru* and *ushna*. [30] In case where the *gunaviparit chikitsa* is not effective it is considered as a *raktaj vyadhi* and *raktamokshan* is done. [31]

Ruksha guna of vata – The dravyas manifestating shoshan karma in the body is supposed to be having ruksha guna. The Ruksha guna is having Aakash and Vayu mahabhutas predominantly. Roukshya is mentioned in Nanatmaj vata vikara i.e is caused by vata dosha alone without anubandha of pitta and kapha. Rukshana mentioned in Shat upakramas of chikitsa is having ruksha, khara and vishada guna out of which ruksha is pradhana where as khar and daruna are residing in it. The Ruksha guna is mentioned firstly in vata gunas almost everywhere in the classics depicting its pradhanya.

In present era due to strenous lifestyle people are following wrong health trends with faulty eating habits and disturbed daily routine. Also the stress factor, anxiety ,overuse of social media,chronic disease conditions are all leading to the development of *ruksha guna* now a days manifestating in the form of malnutrition, hairfall, osteoporosis, etc. so considering all these facts the contribution of *ruksha guna* of *vata* in pathogenesis of various diseases in *Bruhat trayee* should be studied.

Contribution of Ruksha Guna of Vata In Pathogenesis Of Various Diseases

- Vata gulma The aggravated vata enters the alimentary tract and become hard and round due to ruksha guna and then spreads and gets localised in heart, bladder, sides of chest or umbilical region and produces colicky pain and remains in round form so called as gulma. [36]
- 2. *Pittaj gulma* The *amashay* having the *roukshya* when accompanied by other *hetus* leads to vitiation of *vata* and *pitta* leading to *pitta gulma*. [37]
- 3. *Madhumeha Oja* by nature is *Madhur rasatmaka*. The *ruksha guna* of *vata* converts it into astringent taste and takes it into urinary bladder causing *Madhumeha*. [38]
- 4. Shosha emaciated individuals already having ruksha dominance if takes ruksha ahar and vihar then there is diminution of rasa present in hridaya i.e poshya rasa. [39]
- 5. Jwar , bhrama , $\mathit{Pralap}-\mathit{Ruksha}$ is the causative factor. [40]
- 6. Rajyakshma due to diminution of deha Sneha i.e due to excess ruksha guna. [41]
- Vataj visarpa predominance of ruksha guna leading to vitiation of vata further causing dushya dushti and spreads in the body leading to vataj visarpa. [42]
- 8. Kshayaj rajyakshma shukra kshay and excess rakta pravartana leads to roukshya in body leading further to symptoms of kshayaj yakshma. [43]

- 9. Vataj hridrog ahara and vihara having predominantly ruksha guna like upwas, shoka, ruksha ahara,shushka ahara, alpa ahar leads to vitiation of vata in hridaya leading to pain causing vataj hridrog. [44]
- 10. Ojakshay hetus like anashan, chinta, rukshapana, prajagara having predominance of ruksha guna leads to oja kshay in body. [45]
- 11. Atikarshya hetus like langhana,pramitashana, ruksha udvartana,shoka, veg nigraha having ruksha predominance leads to Atikarshya. [46]
- 12. Visham jwara The predominance of ruksha guna in dhatus due to jwar ushma leads to vishama jwara. [47]
- 13. Vataj udar the vitiation of vata in kukshi, hriday and basti,guda by ruksha predominant hetus like ruksha, alpa bhojana, veg Dharana leads to agnimandya and obstruction of path of vata by vitiated kapha leads to Udara. [48]
- 14. Vataj grahani Ruksha gunatmak hetus like katu,tikta,kashay, ruksha ahar,pramitashan, veg Dharana leads to agnimandya by the covering of agni by vata leading to Vataj grahani. [49]
- Kshudra shwas Ruksha predominant hetus leading to vitiation of vata in koshtha leads to Kshudra shwasa.^[50]
- 16. *Madatyay Ruksha guna* dominance leads to diminution of *Sneha guna* of *Oja*. [51]
- 17. *Udavarta Ruksha* dominant *ahar* like *kashay* , *tikta,katu rasa,ruksha bhojana*, *abhojana,vegdharana* leads to vitiation of *apana* in *pakwashaya* leading to *Udavarta* by obstruction of *adhoga srotasa*. [52]
- 18. *Kshayaj klaibya* If the emaciated person having *ruksha* dominance if indulges in *ruksha ahara*, *vihara* then the *rasa dhatu* residing in *hridaya* gets diminished leading to futher *dhatus* diminution leading to *kshayaj klaibya*. [53]

DISCUSSION

The medicine prescribed for any disease works by basic 5 principles i.e rasa, guna, veerya, vipaka and prabhav. The other 4 can be covered under the broad umbrella of Guna sankalpana. So the guna sankalpana is most important to study and to understand the action of given medicine on particular disease. Gurvadi gunas being used widely in clinical practice for diagnosing the disease firstly and then treating accordingly are important.

Vata being the prana of prani i.e of living organisms and is responsible for every action in the body it is considered for the study. [54] Ruksha as is the predominant guna of vata and also is the factor of causing roukshya which is one of the atmarupa or atma lakshana of vata is considered for the study. [55] In many patients having symptoms of vitiation of vata, ruksha guna predominance is observed mostly. The ruksha guna vitiates the vata dosha at various places in the body leading to mannifestations of symptoms accordingly causing various diseases.

CONCLUSION

The exact estimation of predominance of gunas leading to vitiation of doshas help us to understand the pathogenesis and treatment can be planned with the help of opposite gunas. Nidana parivarjana can also be adviced accordingly and pathya apathya can be suggested considering the guna predominance. Ruksha guna predominance is primarily observed in patients now a days due to wrong food habits like dieting for weight loss, eating sprouts recurrently, veg nigraha due to wrapped up life style, deprived sleep at night, fast food like wafers, chips, biscuits which might be accompanied by other gunas leads to vitiation of vata. So it is important to estimate the hetus of every individual and estimate the guna predominance out of it which leads to vitiation of doshas and generation of disease for proper diagnosis and effective treatment.

REFERENCES

- Yadavji Trikamji (Editor), Charak samhita of Charaka, Sharira sthan, Chapter 1, Verse no 66, edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 293.
- Kaviraj Ambikadutta Shastri (Editor), Sushruta Samhita of Sushruta, Sutra sthan, Chapter 46, Verse no 3, reprint edition, Varanasi, Choukhamba Publications, 2014; 241.
- 3. Yadavji Trikamji (Editor), Charak samhita of Charaka, Sutra sthan, Chapter 1, Verse no 48, edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 12.
- 4. Yadavji Trikamji (Editor), Chakrapani teeka,Charak samhita of Charaka,Sutra sthan,Chapter 1,Verse no 48, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017: 12.
- Kaviraj Ambikadutta Shastri (Editor), Sushruta Samhita of Sushruta, Nidan sthan, Chapter1, Verseno 8, 2014 reprintedition, Varanasi, Choukhamba Publications, 2014; 295.
- 6. Yadavji Trikamji(Editor), Chakrapani teeka,Charak samhita of Charaka, Nidan sthan,Chapter 1,Verse no 19, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 199.
- 7. Yadavji Trikamji(Editor), Chakrapani teeka,Charak samhita of Charaka,Nidan sthan,Chapter 1,Verse no 11, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 196.
- 8. Kaviraj Ambikadutta Shastri(Editor), Sushruta Samhita of Sushruta, Chikitsa sthan, Chapter 31, Verseno 55, 2014 reprintedition, Varanasi, Choukhamba Publications, 2014; 172.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Viman sthan, Chapter 8, Verse no 122, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 280.
- 10. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 1, Verse no 63, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 18.

- 11. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 6, Verse no 50, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 48.
- 12. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 10, Verse no 11-12, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 66.
- 13. Yadavji Trikamji(Editor), Charak samhita of Charaka, Viman sthan, Chapter 5, Verse no 23, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 252.
- 14. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 7, Verse no 41, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 52.
- 15. Yadavji Trikamji (Editor),Charak samhita of Charaka,Sutra sthan,Chapter 25,Verse no 35, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 130.
- 16. Yadavji Trikamji(Editor), Chakrapani teeka,Charak samhita of Charaka,Sutra sthan,Chapter 1,Verse no 48, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017: 12.
- 17. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 26, Verse no 11, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 138.
- 18. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 12, Verse no 4, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 12.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 27, Verse no 23, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 155.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 22, Verse no 10, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 120.
- Yadavji Trikamji (Editor), Charak samhita of Charaka, Sutra sthan, Chapter 26, Verse no 43, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017: 144.
- 22. Yadavji Trikamji (Editor),Charak samhita of Charaka, Sutra sthan,Chapter 26,Verse no 64, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan,2017:147
- 23. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 26, Verse no 62, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 146.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 6, Verse no 27, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 47.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Viman sthan, Chapter 8, Verse no 122, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 280.

- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 28, Verse no 45, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 181.
- 27. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 26, Verse no 9, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 136.
- 28. Yadavji Trikamji(Editor), Charak samhita of Charak, Viman sthan, Chapter 1, Verse no 7, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 231.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Nidan sthan, Chapter 1, Verse no 12, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 197.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 1, Verse no 62, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 17.
- 31. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 24, Verse no 17, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 125.
- 32. Hemadri(Editor), Ashtang Hriday of Vagbhata, Sutra Sthan, Chapter 1, Verse no 18, Reprint 2012, Varanasi, Choukhamba Surbharati Prakashan, 2012; 3.
- 33. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 20, Verse no 12, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 114.
- 34. Yadavji Trikamji(Editor), Charak samhita of Charaka, Viman sthan, Chapter 8, Verse no 122, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 280.
- 35. Yadavji Trikamji(Editor), Charak samhita of Charaka, Viman sthan, Chapter 1, Verse no 59, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 16.
- 36. Yadavji Trikamji(Editor), Charak samhita of Charaka, Nidan sthan, Chapter 3, Verse no 7, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 209.
- 37. Yadavji Trikamji (Editor), Charak samhita of Charaka, Nidan sthan, Chapter 3, Verse no 8, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 209.
- 38. Yadavji Trikamji (Editor),Charak samhita of Charaka,Nidan sthan,Chapter 4,Verse no 37, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 215.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Nidan sthan, Chapter 6, Verse no 8, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 220.
- 40. Yadavji Trikamji(Editor), Charak samhita of Charaka, Nidan sthan, Chapter 8, Verse no 25, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 228.

- 41. Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 8, Verse no 4, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 459.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 21, Verse no 29, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 560..
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 8, Verse no 25, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 460.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 17, Verse no 30, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 100.
- 45. Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 17, Verse no 76, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 103.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 21, Verse no 11, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 117...
- Yadavji Trikamji(Editor), Ksharpani teeka, Charak samhita of Charaka, Chikitsa sthan, Chapter 3, Verse no217, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 418.
- 48. Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 13, Verse no 23, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 492.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 15, Verse no 59, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 518.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 17, Verse no 65, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 536.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 24, Verse no 33, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 584.
- 52. Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 26, Verse no 5, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 597.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Chikitsa sthan, Chapter 30, Verse no 181, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 642.
- Yadavji Trikamji(Editor), Charak samhita of Charaka, Sutra sthan, Chapter 20, Verse no 12, 2017 edition, Varanasi, Choukhamba Surbharati Prakashan, 2017; 114.