

ISSN 2456-3110 Vol 4 · Issue 4 July-Aug 2019

Journal of Ayurveda and Integrated Medical Sciences

www.jaims.in

Indexed

An International Journal for Researches in Ayurveda and Allied Sciences





Journal of Ayurveda and Integrated Medical Sciences

> **REVIEW ARTICLE** July-Aug 2019

A Critical Review of Katishoola in Ayurvedic Science

Dr. S. G. Chavan

Professor, Department of PG Studies in Kayachikitsa, Ayurveda Mahavidyalaya, Heggeri, Hubballi, Karnataka, INDIA.

ABSTRACT

Kati Shoola is one of the Vataja Nanatamaja Vikara explained by Acharya Charaka. Kati Shoola noticed in females and young population. Kati Shoola is not a harmful disease but it effects a large population. In primary stages it will subside with the basic therapies, folklore medicine and along with the bed rest.

Key words: Kati shoola, Vatavyadhi, Lumbago.

INTRODUCTION

Katishoola is one of the Vatavyadhi. Due to the improper food and activitiv Vata Dosha increases and minimizes lubricant present at the site of lumbar joints. Due to Vata Dosha increases, Kapha Dosha decrease taken place. Kapha Dosha not only lubricates but also it helps to provide nourishment of the lumbar joints. Decrease in the lubricant result in restricted and painful joint movement. Katishoola as a Apatarpanajanya Vyadhi, Santarpana Chikitsa is required.

The human body is supported by the vertical column. This provides mobility and stability. So the person can remain upright all the day. In generally vertebral column we call it as backbone of the person.

Lowback pain is a degenerative disorder, it may cause loss of normal spine structure and normal function. In this condition commonly involved parts are the lumbar vertebrae, joints, discs, ligaments, muscles

Address for correspondence:

Dr. S. G. Chavan

Professor, Department of PG Studies in Kayachikitsa, Ayurveda Mahavidyalaya, Heggeri, Hubballi, Karnataka, INDIA. E-mail: shivajichavan1671@gmail.com

Submission Date: 12/07/2019 Accepted Date: 05/08/2019

Access this article online	
Quick Response Code	
	Website: www.jaims.in
	Published by Maharshi Charaka Ayurveda Organization, Vijayapur, Karnataka (Regd) under the license CC- by-NC-SA

and nerves.

For Lowback pain, medical term is Lumbago. Aging is the major cause of this condition. But today we can notice incidences of this condition even at relatively young age. It is due to lifestyle and associated with mental and physical stress.

Lowback pain very commonly seen in women more than in men. It affects the lumbar spine in population after forty years of the age. Lumbar part carries most of the body weight. The repeated movements like heavy lifting, forward, backward, right and left lateral bending etc. these movements increases the Low backpain.

Katishoola due to abnormal activities, postural strain, obesity, stiff joints and some of systemic disorders. Lumbago is a main problem that a physician comes across in his day today general practice without satisfactory treatment. Katishoola itself is a symptom associated with disease like Parinamashoola, Gridhrasi, Bhagandhara and Mutrashmari etc.

The term Katishoola is composed of two words Kati + Shoola = Katishoola

Kati: Kati is considered as Hip, Buttocks and Lumbar.^[1] Acharya consider Kati as Shroniphalaka and Nitambha.^[2]

Shoola: Shoola is Ruja, Vyatha, Yama and Ruk.^[3]

Katishoola: Katideshasya Shoolasa Rogah^[4]

Shoola noticed in Kati Pradesha or Trikasthi is Katishoola.

ISSN: 2456-3110

REVIEW ARTICLE July-Aug 2019

Involved Doshas: Kati Deshasya Kapha Vatike Shoola Rogabheda^[5]

Prakupita Vata and *Kapha Dosha* are leading to *Katishoola*.

Synonyms: Katipida, Katibhagna, Kati Sandhigata Pida, Katigraha, Katisthambha, Trik Vedana.

References available in classics

- Bhela has mentioned Katishoola is one of the Vatavyadhi. He was included in the heading of Ekanga Roga in Sutrasthana 26th chapter. He has described Kati Prustagata Vata.^[6]
- Sushruta has described in Nidanasthana 1st chapter, Katishoola is one of the Lakshana in Bhagandhara. And in Chikitsasthana for Katibhagna, Basti Karma is indicated.^[7]
- Harita has explained Katishoola is symptom of Gridhrasi Vata.^[8]
- According to Sharangadhara, he was included Katishoola in Vataja Nanatmaja Vikara.^[9]
- Kashyapa Maharshi, he was a authority of Bala Rogas, even though he explained different Karanas of Katishoola in Khilasthana.^[10]

Causes for Lumbago

Kashyapa has explained "*Ati Chankramana*" (excessive walk) as one of the cause for lumbago.^[11]

For *Katishoola* there is no direct reference about *Nidana, Poorvaroopa, Roopa* and *Upadrava*. It is one of the *Vatavyadhi* and under *Ekanga Roga*. Some of the *Vata Roga Karanas* are considered here. *Acharya Charaka* in *Chikitsasthana* explained *Vatavyadhi Karanas* under the heading of *Aharaja, Viharaja* and *Anya Karanas*.^[12]

Aharaja Karanas: Vatavardhaka Aharas like Chanaka, Jamba, Uddhalaka, Tinduka, Harenu, Nishpava etc.

Viharaja Karanas: Fasting, excessive intercourse, sleep on uncomfortable bed, heavy load carrying, swimming, running, sleeping late night etc.

Other *Karanas***:** History of fall, injury to spine, excessive blood loss and suppression of natural urges.

Bhela explained *Panchakarma Vyapath* especially *Vamana* and *Virechana Atiyoga* are leads to *Katishoola*.^[13]

Type of lumbago based on duration^[14]

- Acute lumbago: Pain noticed in auto driver, two wheeler rider, tractor driver, horse rider, cleaning housewife, gardener. Pain duration within 2 weeks.
- Chronic lumbago: Backpain is due to obesity, degenerative changes of spine, pregnancy, injury of bone and joints. Pain duration more than 3 weeks.

Causes of Lowback Pain

- Eating less food.
- Fasting for prolonged time.
- Excessive intercourse
- Excessive swimming
- Excessive walking
- Too much of physical activity
- Heavy load carrying
- With holding of natural urges (*Vega Dharana*)

Common symptoms of Lowback Pain

- Lower back pain
- Stiffness at lumbar region
- Muscle weakness
- Difficulty in movements

Complications of Lowback Pain

- Limited motion
- Tingling type of pain
- Partial paralysis in affected areas of the body
- Gait dysfunction
- Loss of balance
- Loss of bowel control
- Loss of bladder control

Dr. S. G. Chavan. A Critical Review of Katishoola in Ayurvedic Science

ISSN: 2456-3110

REVIEW ARTICLE July-Aug 2019

Complications of Lumbago (Katishoola)

In Ayurveda, there is no direct reference of complication of *Katishoola*. *Katishoola* itself is the complication found in *Vamana* and *Virechana Vyapat*.^[15]

Samprapti

The knowledge of *Samprapti* helps in better understanding the *Dosha-Dushya* involvement and *Avastha* of the disease and its better treatment. The *Samprapti* of *Katishoola* is not available in the classics. Here an attempt is made to build up the *Samprapti* of *Katishoola*. The term *Kati* is having group of *Avayavas*, these are *Kasherukasti, Sandhi, Snayu, Peshi* and *Kandara*.

Due to Vata Prakopaka Ahara, Vata Vruddhi and Kapha Kshaya will take place. Especially Vyana Vata and Apana Vata Prakopa is there. Kati Pradeshagata Khavaigunya is produces Prakupita Vata takes Sthana Samshraya in Kati leading to Katishoola.

Samprapti Ghataka

Dosha: Vata: Vyana vata and Apana Vata

Kapha: Shleshmaka Kapha

Dushya: Mamsa, Asthi.

Agni: Jatharagni, Mamsa and Asthi Dhatwagni.

Aama: Jatharagni Manda Janya Ama, Mamsa and Asthi Dhatwagni Janya Ama.

Udbhava Sthana: Pakwashaya

Sanchara Sthana: Rasayani

Srotas: Mamsavaha and Asthivaha

Srotodusti Prakara: Sanga and Vimarga Gamana

Dosha Gati: Tiryak Gati

Rogamarga: Madhyama

Adhisthana: Kati Pradesha

Vyakta Sthana: Kati Pradesha

Vyadhi Swabhava: Chirakari

Schematic representation of Katishoola

Vatavikara Ahara \rightarrow Agni Vaishamaya \rightarrow Vata Sanchaya \rightarrow Apanavata Prakopa \rightarrow Apana Vata Prasara to Kati Bhaga \rightarrow Dusti of Asthi, Sandhi, Kandra and Snayu \rightarrow Vyana Vata also Prakopa \rightarrow Limited movement of the spine (Kati) \rightarrow Kati Shoola (Katigraha).

Poorvaroopa

In Ayurveda, Acharyas have not explained the Poorvaroopa of Katishoola. Katishoola itself is Poorvaroopa in some other disorders like Vatarakta,^[16] Bhagandhara^[17] and Vruddhi Roga.^[18]

Roopa

Roopa gives the meaning of sign and symptoms of the disease. *Roopa* is very essential for the differentiation of the disorders. Proper diagnosis of the disorders, prognosis and treatment of the disorders.

Shoola in Kati Pradesha due to various causes has been considered as a Pratyatma Lakshana. Katishoola as associated symptom in various disorders, these are Pakwashayagata Vata, Vataja Atisara, Ashmari, Amavata, Pandu Roga, Gridhrasi, Parinama Shoola, Gudagata Vata, Vataja Arsha, Vataja Anaha etc.

Blood Investigations

RA Test, Complete blood count, Uric acid, ESR, Serum calcium, Phosphorous, Acid phosphate.

X-ray: L.S. Spine AP and Lateral view.

Scan: Computerized Tomography (CT) and Magnetic Resonance Imaging (MRI)

Upashaya - Anupashaya

Through examination of the disease as *Roga Nidana*, *Lakshana, Samprapti* and *Sapeksha Nidana* there may be still a doubt to proper diagnosis of the disease. *Upashaya* which diagnose the disease with the help of *Ahara, Vihara* and *Oushadha*.

Upashaya

Ahara: Rice, Wheat, Milk, Hot water, Alcohol.

Vihara: Bed rest, Hot water bath.

ISSN: 2456-3110

Oushadha:

Internal: Painkiller tablets.

External: Massage, pain killer ointmemts (spray), Use of electric pads, Use of lumbo sacral belts.

Anupashaya

Ahara: Dried Meat, Dried Fish, Using Icecream, Chilled water.

Vihara: Long sitting, standing, repeated bending, heavy lifting, *Ratri Jagarana*, *Atimaithuna*, *Ati Chankramana*.

Oushadha: Mutter (Green peas), *Karela* (Bitter guard), *Puga Phala* (Betal nut).

Treatment of Katishoola

Effective management of *Katishoola* requires patient education, physical therapy, mental therapy, behavioral modification, internal medication and external therapies.

Shamana Chikitsa for Katishoola

Abhyantara Shamana

- Choorna: Sudarshana Choorna,^[19] Ajamodadi Choorna,^[20] Bhallataka Choorna,^[21] Hingwadi Choorna.^[22]
- Kashaya: Dashamoola Kashaya,^[23] Shunthyadi Kashaya,^[24] Rasna Shunthyadi Kashaya.^[25]
- **3.** *Guggulu*: Trayodashanga Guggulu,^[26] Chandraprabha Guggulu,^[27] Vatari Guggulu,^[28] Simhanada Guggulu.^[29]
- 4. Ghrita Prayoga: Chitrakadi Ghrita.^[30]
- Taila Prayoga: Moolaka Taila,^[31] Vyagraha Taila,^[32] Nakula Taila.^[33]

Bahya Shamana

Abhyanga, Swedana, Mardana, Vestana (Traction), Lepa, Kati Basti, Coin Therapy, Mud Therapy.

Shodhana Chikitsa for Katishoola

 Poorvakarma: Deepana, Aama pachana, Vata and Mala Anulomana, Snehana and Swedana.

REVIEW ARTICLE July-Aug 2019

- Pradhana Karma: Mrudu Virechana, Nirooha Basti, Anuvasana Basti.
- Paschat Karma: Samsarjana Krama.

Indication of Basti in Katishoola

- 1. Ksheera Basti^[34]
- 2. Eranda Basti^[35]
- 3. Vaitarana Basti^[36]
- 4. Pipplyadi Anuvasana Basti^[37]

Recommended Diet (Pathya)

Rice, Wheat, Moong (Green gram), Kulattha (Horse gram), Tila (Sesame), Go-ghrita (Cow's Ghee), Godugdha (Cow's milk).

Lifestyle: Gentle massage with medicated oil, Fomentation and Bed rest.

To avoid Diet (Apathya)

Barley, Chana, Mutter (Green peas), Karela (Bitter guard), *Puga Phala* (Betal nut), Dried meat, Dried Fish, Chilled water, Using Ice cream, Cold drinks.

Lifestyle: Excessive sexual activity, Exposure to too cold, Use of Air condition car or room etc.

Care to be taken for Lowback pain

- Weight to be kept under control.
- Fomentation with hot water bag or electrical pads.
- To avoid lifting heavy load.
- To avoid repeated bending.
- To maintain a good sitting and standing posture.
- Avoid any jerks during journey.
- Avoid heavy exercise during pain.
- To maintain the proper position for sleeping and to getting out of bed.
- Should not wear the high heel shoes.

Use of Yogasanas

- Shavasana
- Uttana Padasana

ISSN: 2456-3110

- Sputa Vajrasana
- Bhujangasana

DISCUSSION

Katishoola is most commonly seen in male and female population, specially women after forty years commonly notice this condition. Nowadays we notice this *Katishoola* problem in young population also. If a person is suffering from *Katishoola*, early diagnosed the disease, then early treatment has to be taken, finally he will be early retirement from the disease.

Katishoola is one of the Vataja Nanatmaja Vyadhi. It is a Paratantra Vyadhi because most of the disorders, Katishoola is explained as a symptom. But ongoing through its Nidana, Lakshana and various kind of remedies called it as Swatantra Vyadhi.

CONCLUSION

Katishoola is considered as a separate disease. Hard work kills nobody. But it will produce Low back pain. *Katishoola* is not a dangerous disease, but it effects a large population. *Katishoola* is a clinical and national problem, because four out of every five people are suffering from this condition.

REFERENCES

- Sanskrit- English Dictionary by Sir Monier Williams, Bharatiya Granth Niketan, New Delhi, Edition-2007, Page No.243
- Naamalinga Anushasana or Amarakosha of Amarasimha with Ramashrami commentary of Bhanuji Dikshita, Edited by Pt. Haragovinda Shastri, Chaukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2008, 6th chapter Manushyavarga, Sloka No.73, Page No.293
- Shabda Kalpadruma by Raja Radha Kanta Deva, Chaukhambha Sanskrit Series Office, Varanasi, Third Edition-1967, 5th volume, Page No.130
- Shabda Kalpadruma by Raja Radha Kanta Deva, Chaukhambha Sanskrit Series Office, Varanasi, Third Edition-1967, 2ndvolume, Page No.9
- Vachaspathya- A Comprehensive Sanskrit Dictionary, Compiled by Taranatha Tarkavachaspati, Kavya Prakasha Press, Calcutta-1873, Part-II, Page No.1620

 Bhela Samhita, Translated in English By Dr.K.H.Krishnamurthy, Edited By Prof.Priyavrat Sharma, Chaukhambha Vishwabharati, Varanasi, First Edition:2000, Sutrasthana, 10th Chapter, Sloka No.3, Page No.46

July-Aug 2019

REVIEW ARTICLE

- Sushruta Samhita of Sushruta with Nibandha Sangraha commentary of Sri Dalhanacharya and Nyayachandrika Panjika of Sri Gayadasacharya, Edited by Vaidya Jadhavji Trikamji acharya, Chaukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2010, Chikitsasthana 3rd chapter, Sloka No.28, Page No.417
- Harita Samhita, Translated in Hindi and Edited By Prof. Hariharaprasad Tripathi, Chaukhambha Krishnadas Academy, Varanasi, Second Edition-2009, Thritiya Sthana, 22nd chapter, Sloka No.1-2, Page No.363
- Sharangadhara Samhita of Sharangadharacharya, Edited by Pandit Parashuram Shastri, Vidyasagar, Chaukhambha Orientalia, Varanasi, Sixth Edition-2005, Prathama khanda, 7th chapter, Sloka No.105-114, Page No.103-106
- Kashyapa Samhita of Vriddha Jivaka, Revised by Nepal Rajaguru Pandit Hemaraja Sharma and Sri Satyapala Bhishagacharya, Cahukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2010, Siddhisthana, 5th chapter, Sloka No.8, Page No.162
- Kashyapa Samhita of Vriddha Jivaka, Revised by Nepal Rajaguru Pandit Hemaraja Sharma and Sri Satyapala Bhishagacharya, Cahukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2010, Siddhisthana, 5th chapter, Sloka No.8, Page No.162
- Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary, Volume-II, Edited By Vd. Harishchandra Singh, Kushwaha, Chaukhambha Orientalia, Varanasi, Reprint Edition-2012, Chikitsasthana, 28th chapter, Sloka No.15-18, Page No.732
- Bhela Samhita, Translated in English By Dr.K.H.Krishnamurthy, Edited By Prof.Priyavrat Sharma, Chaukhambha Vishwabharati, Varanasi, First Edition:2000, Siddhisthana, 4th Chapter, Sloka No.27, Page No.533
- French's Index of Differential Diagnosis An A-Z, Edited by Mark T.Kinirons and Harold Ellis, CRC Press, Taylor and Francis group, 16th Edition-2016, Page No.45
- 15. Bhela Samhita, Translated in English By Dr.K.H.Krishnamurthy, Edited By Prof.Priyavrat Sharma,

Dr. S. G. Chavan. A Critical Review of Katishoola in Ayurvedic Science

ISSN: 2456-3110

REVIEW ARTICLE July-Aug 2019

Chaukhambha Vishwabharati, Varanasi, First Edition:2000, Siddhisthana, 4th Chapter, Sloka No.27, Page No.533

- Madhava Nidanam of Madhavakara with Madhukosha commentary, Translated into English by Prof.K.R.Srikantha murthy, Chaukhambha Orientalia, Varanasi, Reprint Edition-2009, 23rd chapter, Sloka No.7, Page No.91
- Sushruta Samhita of Sushruta with Nibandha Sangraha commentary of Sri Dalhanacharya and Nyayachandrika Panjika of Sri Gayadasacharya, Edited by Vaidya Jadhavji Trikamji acharya, Chaukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2010, Nidanasthana 4th chapter, Sloka No.4, Page No.280
- Sushruta Samhita of Sushruta with Nibandha Sangraha commentary of Sri Dalhanacharya and Nyayachandrika Panjika of Sri Gayadasacharya, Edited by Vaidya Jadhavji Trikamji acharya, Chaukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2010, Nidanasthana 12th chapter, Sloka No.5, Page No.315
- Bhaishajya Ratnavali with Vidyotini commentary, Edited by Kaviraj Ambikadattashastri and Sri Rajeshwaradatta shastri, Chaukhambha Prakashana, Varanasi, Reprint Edition-2015, Jwara Adhikara, Sloka No.445-454, Page No.117
- 20. Sharanghdhara Samhita by Pandit Sharangadharacharya with the commentary Adhamalla's Dipika and Kasirama's Gudhartha-Dipika Edited with Foot notes by Pandit Parashurama Sastri and Vidyasagar. Chaukhambha Orientalia, Varanasi, Reprint Edition-2012, Madhyama Khanda, 6th chapter, Sloka No.113-117, Page No.191-192
- Yoga Ratnakara, Edited and Translated by Dr.Madham Shetty Suresh Babu, Chaukhambha Sanskrit Series Office, Varanasi, First Edition-2008, Volume-I, Poorvardha, Jwaratisara chikitsa, Sloka No.2-4, Page No.345
- Gada Nigraha of Sri Vaidya Sodhala with Vidyotini Hindi commentary, Edited by Sri Ganga Sahaya Pandey, Chaukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2011, Part-II, Shooladi Chikitsa, Sloka No.33, Page No.562
- Harita samhita, Translated in Hindi and Edited By Prof. Hariharaprasad Tripathi, Chaukhambha Krishnadas Academy, Varanasi, Second Edition-2009, Thritiya Sthana, 2nd chapter, Sloka No.104, Page No.191

- 24. Sahasra Yogam, Translated into English By Dr.K.Nishteshwar and Dr.R.Vidyanath, Chaukhambha Sanskrit Series Office, Varanasi, First Edition-2006, Kashaya Prakarana, Yoga No.90, Page No.395-396
- 25. Sahasra Yogam, Translated into English By Dr.K.Nishteshwar and Dr.R.Vidyanath, Chaukhambha Sanskrit Series Office, Varanasi, First Edition-2006, Kashaya Prakarana, Yoga No.5, Page No.362-363
- Bhaishajya Ratnavali– Vidyotini Vyakhya, Edited by Kaviraj Ambikadattashastri, Chaukhambha Sanskrit Sansthana, Varanasi, Volume-II, Vatavyadhi adhikara, Sloka No.98-101, Page No.148-149
- Bhaishajya Ratnavali– Vidyotini Vyakhya, Edited by Kaviraj Ambikadattashastri, Chaukhambha Sanskrit Sansthana, Varanasi, Volume-II, Prameha adhikara, Sloka No.102-110, Page No.521-522
- Bhaishajya Ratnavali– Vidyotini Vyakhya, Edited by Kaviraj Ambikadattashastri, Chaukhambha Sanskrit Sansthana, Varanasi, Volume-II, Vatavyadhi adhikara, Sloka No.167-170, Page No.160
- Bhaishajya Ratnavali– Vidyotini Vyakhya, Edited by Kaviraj Ambikadattashastri, Chaukhambha Sanskrit Sansthana, Varanasi, Volume-II, Amavata adhikara, Sloka No.181-189, Page No.314-315
- Bhaishajya Ratnavali– Vidyotini Vyakhya, Edited by Kaviraj Ambikadattashastri, Chaukhambha Sanskrit Sansthana, Varanasi, Volume-II, Shotha rogadhikara, Sloka No.146-147, Page No.673
- Charaka Samhita, Ayurveda Dipika's Ayushi Hindi Commentary, Volume-II, Edited By Vd. Harishchandra Singh, Kushwaha, Chaukhambha Orientalia, Varanasi, Reprint Edition-2012, Chikitsasthana, 28th chapter, Sloka No.136-137, Page No.755
- 32. Bhaishajya Ratnavali with Vidyotini commentary, Edited by Kaviraj Ambikadattashastri and Sri Rajeshwaradatta shastri, Chaukhambha Prakashana, Varanasi, Reprint Edition-2015, Balaroga Adhikara, Sloka No.151-154, Page No.1086
- Bhaishajya Ratnavali– Vidyotini Vyakhya, Edited by Kaviraj Ambikadattashastri, Chaukhambha Sanskrit Sansthana, Varanasi, Volume-II, Vatavyadhi adhikara, Sloka No.536-544, Page No.222-223
- Astanga Hridaya of Vagbhata with Sarvanga Sundari commentary of Arunadatta and Ayurveda Rasayana commentary of Hemadri, Edited by Pt.Hari

Dr. S. G. Chavan. A Critical Review of Katishoola in Ayurvedic Science

ISSN: 2456-3110

REVIEW ARTICLE July-Aug 2019

Sadashivshastri paradhakara, Chaukhambha Sanskrit Samsthana, Varanasi, Reprint Edition-2010, Kalpasiddhisthana, 4th chapter, Bastikalpana adhyaya, Sloka No.20-25, Page No.756-757

- Kashyapa Samhita of Vriddha Jivaka, Revised by Nepal Rajaguru Pandit Hemaraja Sharma and Sri Satyapala Bhishagacharya, Cahukhambha Sanskrit Sansthana, Varanasi, Reprint Edition-2010, Khilasthana, 8th chapter, Sloka No.97-103, Page No.284-285
- 36. Vangasena Samhita, Translated in Hindi and Edited By Prof. Hariharaprasad Tripathi, Chaukhambha Sanskrit Series Office, Varanasi, First Edition-2009, Bastikarma adhikara, Sloka No.186-190, Page No.146
- 37. Astanga Hridaya of Vagbhata with Sarvanga Sundari commentary of Arunadatta and Ayurveda Rasayana commentary of Hemadri, Edited by Pt.Hari Sadashivshastri paradhakara, Chaukhambha Sanskrit Samsthana, Varanasi, Reprint Edition-2010, Chikitsasthana, 8th chapter, Sloka No.89-93, Page No.648

How to cite this article: Dr. S. G. Chavan. A Critical Review of Katishoola in Ayurvedic Science. J Ayurveda Integr Med Sci 2019;4:251-257.

Source of Support: Nil, Conflict of Interest: None declared.

Copyright © 2019 The Author(s); Published by Maharshi Charaka Ayurveda Organization, Vijayapur (Regd). This is an open-access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.