



FHED (India)'s
**Charak Samhita Research, Training and Skill
Development Centre (CSRTSDC)**
A MoU partner
Institute of Teaching and Research in Ayurveda
Jamnagar, India



Souvenir

Based on

Prof. M.S. Baghel

Memorial Lecture Series

[February 09, 2021 – January 09, 2022]

Edited by Dr. Gopal Basisht

Foreword by Vd. Rajesh Kotecha



<https://www.youtube.com/c/csrtcdc>



<https://www.facebook.com/csrtcdc>

Price : Free distribution

Contact: csrtcdc@gmail.com

**Website: www.charaksamhita.com, www.symbiohealth.com,
www.carakasamhitaonline.com**

- **Title: Souvenir based on Prof. M.S. Baghel Memorial Lecture Series**
- **Editor: Dr. Gopal Basisht , Orlando, U.S.A.**
- **ISBN: 978-81-948207-0-3**
- **First Edition, 2022**
- **Foreword by:**

Vaidya Rajesh Kotecha
Secretary
Government of India
Ministry of AYUSH
New Delhi – 110023 India

- **Published and Printed by:**

FHED (India) Trust's
Charak Samhita Research, Training and Skill Development
Centre
in collaboration with
Institute of Teaching and Research in Ayurveda
Jamnagar -361008 India
- **Contact:** csrtsdc@gmail.com
- **Website:** www.carakasamhitaonline.com
-  <https://www.youtube.com/c/csrtsdc>
-  <https://www.facebook.com/csrtsdc>
- **Price:** Free distribution
- **Copyright:** Content available under [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](#)
- **Disclaimer:** The contents of this souvenir can be referred for non commercial academic purpose after quoting the source. The content shall not be copied or reproduced in any form without prior permission of the publisher.

Editorial Board

Editor

Dr. Gopal K. Basisht

Project Director, Charak Samhita New Edition Project
Rheumatologist, Orlando, USA

Advisors

Prof. Anup Thakar
Director, I.T.R.A.
Jamnagar, India

Prof. S. K. Sharma Khandel
Director, Arogyalaxmi, Jaipur,
India

Prof. H. M. Chandola
Former Dean, I.P.G.T.& R.A.,
Jamnagar, India

Executive Editor

Dr. Yogesh S. Deole

Professor in Kayachikitsa, G. J. Patel Institute of Ayurvedic Studies and Research,
New Vallabhvidya Nagar, India

Prof. M. S. Baghel Memorial Research Fellows

Dr. Aneesh E. G.

Dr. Anagha Sivanandan

I.T.R.A.
Jamnagar, India

ISBN: 978-81-948207-0-3

Published and Printed by: FHED (India) Trust's

Charak Samhita Research, Training and Skill Development Centre in collaboration with
Institute of Teaching and Research in Ayurveda
Jamnagar -361008 India

Contact: csrtsdc@gmail.com , **Website:** www.carakasamhitaonline.com

Price: Free distribution

Copyright: Content availed from www.carakasamhitaonline.com under [Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License](http://creativecommons.org/licenses/by-nc-sa/4.0/)



वैद्य राजेश कोटेचा
Vaidya Rajesh Kotecha

सचिव
भारत सरकार
आयुष मंत्रालय
आयुष भवन, 'बी' ब्लॉक, जी.पी.ओ. कॉम्प्लेक्स,
आई.एन.ए, नई दिल्ली-110023

Secretary
Government of India
Ministry of Ayush
Ayush Bhawan, B-Block, GPO Complex,
INA, New Delhi-110023
Tel. : 011-24651950, Fax : 011-24651937
E-mail : secy-ayush@nic.in

FOREWORD

Prof. M. S. Baghel was a great visionary in the field of Ayurveda. He devoted his life for uplifting the standards of Ayurveda education and research. I remember him and pay tribute to his holy soul. He has been the founder member of the Charak Samhita New Edition Project initiated by Dr. Gopal Basisth with stalwarts of Ayurveda across India. This project is a milestone to change the views of scientists and researchers to read classical Ayurveda text to contemporary evidence-based Ayurveda on a single open-access platform. Prof. Baghel played a crucial role in establishing Charak Samhita Research, Training and Skill Development Centre in collaboration with I.P.G.T.& R.A.(now I.T.R.A.) Jamnagar. This Center is continuously involved in propagating Ayurveda across the globe. A lecture series, "Prof. M.S. Baghel Memorial Lecture Series," was organized to offer tribute to the legend. It included twelve lectures delivered by experts on the topics related to challenges in the healthcare field. The editorial team and speakers have converted the video lectures into articles to enrich the research database. It is a pleasure to read this souvenir of articles based on lectures delivered by international Ayurveda experts on critical areas of Ayurveda research and education.

The critical and challenging topics for Ayurveda clinical research and education are comprehensively described in this souvenir. This publication is a quality content with a mix of experience and evidence by eminent specialists of Ayurveda. I congratulate Dr. Gopal Basisth and Dr. Anup Thakar for conducting this unique lecture series and transforming the lectures into documentary evidence. I am sure that this Souvenir will be read and referred by the learners and scholars seeking knowledge of Ayurveda as a science.

२१ जून २०२२

(Rajesh Kotecha)

New Delhi
23rd February, 2022



Institute of Teaching and Research in Ayurveda

(Institute of National Importance)

Ministry of AYUSH, Government of India

Opp. B – Division Police Station, Gurudwara Road, Jamnagar – 361 008

(O) +91 – 288 – 2552014

itra.ac.in

Tel. Fax: +91 – 288 – 2676856

No. ITRA/Dir/2021-22/

Date: 02.03.2022

Preface

Prof. M. S. Baghel is immortal through his teachings and practical approach towards Ayurveda. He envisioned propagating Ayurveda on the global platform and devoted his life to this purpose. He played a significant role in uplifting the status of Ayurveda as a scientific evidence-based healthcare system. He has been instrumental in developing Charak Samhita New Edition on the wiki platform. This website is viewed in more than 180 countries and read by more than 15K readers per month. Prof. Baghel was the founder member and advisor of Charak Samhita Research, Training and Skill Development Centre (CSRTSDC). When he left the physical world on January 09, 2021, it was a heavy loss of all Ayurveda fraternity. The center's Advisory board decided to pay homage through a lecture series in his memories. It was decided to organize a monthly lecture on 9th day of every month till his first death anniversary.

The Prof.M.S.Baghel Memorial Lecture Series included twelve talks by eminent speakers on important healthcare topics. As Prof. Baghel was an internationally renowned personality, the experts on specific issues readily accepted the invitation. All the lectures were streamed live on the Facebook Page of the Centre. These lectures were well received by the global audience and have more than 10K views. The series was successfully completed on January 09, 2022. The video recordings were edited and posted on the YouTube channel. The team of CSRTSDC transformed these lectures into research-based documents with the help of speakers and published them online on the website for readers. A comprehensive collection of all these important articles is being published in this souvenir.

The critical and challenging topics for Ayurveda clinical research and education are elaborately described in this souvenir. We acknowledge the support of all speakers Prof.S.K. Sharma Khandel, Vaidya DilipGadgil, Prof. H. M. Chandola, Dr.Mukund Sabnis, Dr. Rohit Sane, Dr. S. H. Acharya, Dr. S.R. Narahari., Dr. Narayan Prakash, Prof. Vd. Upendra Dixit, Vaidya Ram Manohar and Prof. Dr. S.N. Gupta for their timely deliberations and expert talks. We hope this souvenir will be helpful for all learners of Ayurveda and serve the purpose of a reference manual on major challenges in the healthcare field. Ayurveda can provide a better solution in these areas, as discussed in the respective articles.



(PROF. ANUP THAKAR)
DIRECTOR

Gopal K. Bassisht, MD

gopalbasisht@gmail.com

Editorial

Prof. M. S. Baghel was a great teacher and researcher. I was impressed with his thoughtful deliberations. Being a modern physician, I was a new learner of Ayurveda. But, Prof. Baghel made the learning simplified. He encouraged me to learn fundamental principles of Ayurveda and include them in my clinical practice. We discussed many aspects of education and research in Ayurveda and healthcare. He was a key person who led me on the path for publication of Charak Samhita New Edition Project. He guided from time to time and made all his resources available for proper project implementation. Unfortunately, we lost him in mid-way. He will be remembered forever in the form of his contribution and dedication to this project.

The lecture series organized in his memory and publication of this souvenir is an effort to pay tribute to the stalwart. In the current global pandemic Covid-19, the article "Principles of management of Infectious diseases through Ayurveda" by Prof. S.K. Sharma Khandel gives insight towards empowering defense strategies to fight infectious diseases. The article on management of Cancer by Vaidya Dilip Gadgil focuses on preventing and treating malignancies through Ayurveda. The writing on the management of acid peptic diseases by Prof. H. M. Chandola provides comprehensive information about the most typical health problem.

Dr. Mukund Sabnis, a renowned expert in obesity management, has poured experience-based views in his article on the management of metabolic syndrome and obesity in Ayurveda. Another well-known cardiologist, Dr. Rohit Sane, has given precise information with published evidence on the ayurvedic management of cardiac diseases. The article on the management of neurological disorders by distinguished professor Dr. S. H. Acharya elaborates the scopes of Ayurveda services in neurology. Dr. S.R. Narahari, a dedicated researcher in dermatology, has put his experience and evidence together in writing on the management of skin diseases in integrative medicine.

Dr. Narayan Prakash covers the scope of the fast-developing research field of Ayurveda psychiatry in the article on the management of psychiatric diseases. Prof. Vd. Upendra Dixit, an eminent physician, wrote the experience-based protocols for managing medical emergencies in Ayurveda.

In the article on the management of rheumatic diseases, Vaidya Ram Manohar has narrated the fundamental concepts very nicely. Prof. Dr. S.N. Gupta, a renowned expert in managing kidney diseases, put forward his clinical practice experiences with scientific evidence. Prof. Anup Thakar precisely answers the challenges of practicing panchakarma to preserve health in the modern lifestyle in his article. We thank all speakers for their active participation and kind support. I hope this souvenir will be helpful for the learners of Ayurveda.



Dr. Gopal K. Bassisht
Orlando, Florida, U.S.A.

CONTENTS

Sr. No.	Topic	Authors	Page no.
1.	Infectious diseases	S. K. Sharma Khandel	1-6
2.	Cancer	Dilip Gadgil	7-20
3.	Acid peptic diseases	H.M. Chandola	21-34
4.	Obesity and Metabolic syndrome	M. S. Sabnis	35-47
5.	Cardiac diseases	Rohit Sane	48-57
6.	Neurological diseases	S. H. Acharya	58-65
7.	Skin diseases in Integrative medicine	S. R. Narahari	66-79
8.	Psychiatric diseases	Narayan Prakash B.	80-87
9.	Emergency medicine in Ayurveda	Upendra Dixit	88-99
10.	Rheumatic diseases	P. Ram Manohar	100-109
11.	Kidney diseases	S. N. Gupta	110-119
12.	Panchakarma in modern lifestyle	A. B. Thakar	120-129

Psychiatric diseases

Dr. Narayana Prakash B.
Chief Consultant,
Hitayurveda Healthcare Center, Hassan, India.



Website link:

https://www.carakasamhitaonline.com/index.php?title=Psychiatric_diseases

Youtube link of recorded lecture: <https://www.youtube.com/watch?v=GOfjfrTRlkY>

This article is based on a lecture delivered by Dr. Narayana Prakash B, Chief consultant, Hitayurveda Health care, KR Puram, Hassan, Karnataka, India., in Prof. M. S. Baghel Memorial Lecture Series on Sep 09, 2021.

Ayurveda considers body and mind as interconnected entities. It does not separate one from the other in the holistic concept of Purusha. The treatment for body and mind is mentioned by ancient scholars for almost all diseases. Health is the foundation of virtue, wealth, enjoyment, and salvation; diseases are the destroyers of it.

General causes for the diseases of the mind

Any abnormal interactions (excess, absent or erroneous) of mind, time, senses, and sense objects are primary causes of diseases. Rajas (representing activity or passionate involvement) and tamas (representing delusion or inhibition) are the most important pathogenic factors for vitiation of the mind. Abnormal sleep pattern also results in disorders of the mind. The inability to control negative impulses like anger, rash speech etc. may cause diseases of the mind. Severe physical injury may also cause diseases of the mind. Volitional transgression or intellectual errors (prajnaparadha), knowingly indulging in improper food and lifestyle habits, is the root cause for almost all diseases especially that of mind.

Role of intellect (buddhi)

Thoughts are objects of the mind. The mind is continuously involved in process of thinking. The intellect (buddhi) controls the mind and regulates its thinking. It differentiates good and bad thoughts. Continuous indulgence of the mind in harmful thinking and the inability of intellect to control it results in diseases.

Role of sense organs (indriya)

Excessive or improper interaction of objects of senses with sense organs results in vitiation of mind. E.g. excessive usage of mobile phones results in mobile phone addiction, diseases of the eyes and brain, etc. Overuse, disuse, and misuse of sense organs lead to abnormality in rajas and tamas, which ultimately results in diseases. Gain or loss of desirable or undesirable things can cause psychic diseases.

Role of inherent spiritual components (atmaja bhava)

Spiritual (atmaja) and psychological (sattvaja) components present at the time of birth are responsible for the growth and development of each individual. 'Spiritual (atmaja)' refers to the genetic or ancestral components. Psychological (sattvaja) includes factors related to the strength of one's mind.

Importance of food in mental health

The use of incompatible dietetics (viruddhaaahara), can cause psychic disorders. If food is proper, the mind will be healthy. Dietary regulations (aharavidhi) shall be followed while taking food. Then only does it nourish the body and mind. Food plays important role in the manifestation of many psychological diseases.

Mental disorders in children

In the pediatric age group, the mind is seldom afflicted. The psychic abnormalities start by the influence of surroundings as the child grows. The positive or negative inputs from the surroundings lead to nourishment or deprivation of the mind.

Excess food intake in childhood may result in laziness or heaviness of the body. This leads to accumulation and further acquisition and greed which is the cause of all abnormalities. When they reach adolescence, anger, lust, cruelty, aggression, anxiety, distress may also happen.

Diagnosis of mental disorders

All the physical abnormalities must be ruled out before labeling a person as a psychiatric patient. In many physical diseases like hypothyroidism, psychiatric manifestations like depression are present. Careful observation of the patient is needed for proper diagnosis. Tools for a mental examination of a patient are described by ancient scholars. For example, the state of grief should be inferred by despondency, joy by exhilaration, pleasure from a sense of satisfaction, fear from dejection, etc.

Mental strength

The condition of mind (sattva) is also important for mental health. A person with good mental strength (pravara sattva) seldom suffers from any mental disorders. People with medium and low mental strength people suffer from psychic disorders. This influences the prognosis of diseases, too. Diseases occurring in a medium mental strength person can be easily cured, but the treatment is difficult in a person with low mental strength.

Types of mental patterns

Table 1: Types of mental patterns

Sattva	Types
Shuddha (purity)	7
Rajasa (aggression)	6
Tamasa (inhibition)	3

The 7 types of shuddha sattva (pure-minded) people are productive for society. Rajasika and tamasika persons are harmful to society due to their destructive tendencies.

Major psychiatric diseases

Insanity (unmada)

It is an unstable condition of mind, understanding, consciousness, perception, memory, inclination, character, behavior, and conduct. [Cha.Sa. Nidana Sthana 7/5]

Etiopathogenesis of insanity

The weak-minded or timid person is more susceptible to insanity. When his mind is afflicted by raja and tama, dosha vitiation due to unwholesome diet, chronic physical illness, excess passion, anger, greed, excitement, fear, attachment, exertion etc. this condition may result in insanity.

Clinical features

The affliction of mind: Leads to illusions, delusions, and hallucinations.

The affliction of intellect: Leads to poor decision making or failure to decide.

The affliction of consciousness: Loss of orientation towards person, place, and time is lost.

Impairment of memory (smruti vibrama): Loss of immediate, recent, and/or remote memory.

Impairment in desires (bhakti vibhrama): Excessive interest, withdrawal symptoms or very odd interests are observed that are different from past interests.

Impairment of habits (sheela vibhrama): Inappropriate reactions like exaggerated emotions at improper places and times are observed. E.g. Laughing by hearing the sad news. This is seen in general anxiety disorders, stress headaches, etc.

Impairment in body activity (cheshta vibhrama): Controlled and relevant motor activity gets impaired. There might be hyperactivity or hypoactivity.

Impaired social activity (achara vibhrama): The behavior and social attitude of the patient would be unfair, improper, and irrelevant. He may violate all ethics and manners. For eg. the patient may remain undressed, unhygienic, or have odd dressing.

Types and Clinical features

Vata dominant unmada:

Constant wandering; sudden spasm of eyes, eyebrows, lips, shoulder, jaws, forearms, and legs; constant and incoherent speech; patient continuously smiles or laughs or dance; play musical instruments in inappropriate situations; froth comes out of mouth, etc.

Pitta dominant unmada:

Anger and irritation; inflicting injury to themselves and others; ferocious look, desire for shade, cold water, and foods.

Kapha dominant unmada:

Observance of silence; desire for solitude; discharge of saliva and nasal secretions; aversion towards cleanliness; aversion towards food etc.

Sannipatika unmada:

All clinical features are observed in this type.

Agantuja unmada (exogenous type):

Intellectual errors (prajnaparadha) are the root cause of this disease. Sinful activities in a past life are also one of the causes. Various behavior patterns are observed in this type. The person may start behaving like deva (god), rakshasa (demons), etc. The association of a specific dosha cannot be seen in this condition. The person may exhibit superhuman powers like excessive physical strength and energy; unnatural power of retention and memory etc. Certain conditions like devonmada, gandharvonmada, and yakshonmada do not require treatments as they do not cause any harm.

Different disorders in conventional psychiatry like acute mania, bipolar disorders, manic disorders, depression, schizophrenia can be understood under the broad umbrella of unmada.

Atattvabhinivesha

Abnormal thinking pattern is observed in this condition. The impaired intelligence, and abnormal psychic pattern, as in obsessive-compulsive disorders (OCD) is seen.

General principles of treatment

Preventive measures

Proper diet is needed for proper mental health. A wholesome food should be taken as per dietary guidelines (aharavidhi). Re-vitalization through a code of conduct (achara rasayana) is also a preventive measure. This can be considered behavior therapy in Ayurveda. Rejuvenation (rasayana) and aphrodisiac therapy (vajikarana) are very important for the prevention as well as treatment of all sorts of psychic disorders. Brain tonics, memory boosters, nootropics, and vitalizers (medhya rasayana) should be taken daily for the improvement of intellect and prevention of psychic disorders.

Three types of treatments

The three major types of treatment for mental disorders are

1. Divine/ spiritual therapy (daivavyapashraya)
2. Rational therapy based on reasoning (yuktivyapashraya)
3. Psychotherapy (sattvavajaya)

Divine/ spiritual therapy (daivavyapashraya): This includes incantations (mantra), medicine, wearing gems, auspicious offerings, oblations, offerings to the sacred fire, following spiritual rules, fasting, obeisance to gods, etc. The worship of Lord Rudra is specially mentioned and is in practice also.

Rational therapy based on reasoning (yuktivyapashraya): This consists of a proper dietetic regimen and medication.

Psychotherapy (sattvavajaya): It includes the restraint of the mind from harmful/unwholesome objects. It is specifically implemented in anxiety and depression.

All these therapies are used in the comprehensive management of psychic disorders.

General treatments for unmada

Panchakarma treatments like oleation (snehana), fomentation (swedana), emesis (vamana), purgation (virechana), enema (basti), venesection (siravyadha) are indicated according to the condition. Some other specific treatment modalities like tying (bandhana),

confinement (avarodhana), frightening (vitrasana), forgetfulness (vismapana), etc. are also mentioned to control the violent tendencies of patients.

Treatment of vata dominant unmada

- Intake of ghee (snehapana) with purana ghrita, lashunadya ghrita, kalyanaka ghrita, mahakalyanaka ghrita, mahapaishachika ghrita, ashwagandha ghrita etc.
- Mild purification
- Unctuous enema (sneha basti) preferably with a combination of two unctuous preparations
- Oil application on the head: This helps to induce sleep and calms down the patient.
- Nasal application with Anu taila or ghee preparations.
- Collyrium with Brahmyadi varti
- Mineral (rasa) preparations: Manasamitra vati, Unmadagajakesari, Brahmi vati, Bruhatvatachintamani, Vatagajankusha rasa, Mahavatavidwansa rasa, Sameerapannaga rasa.
- Fermented preparation (Asava/arishta): Saraswatarishta, ashwagandharishta, balarishta
- Decoctions (kashaya): Kalyanaka/ Varavishaladi kashaya, Brahmadrakshadi kashaya, Mamsyadi kashaya
- Electuaries (lehya): Ashwagandhadi, Ajashwagandhadi, Ajamamsa rasayana, Brahma rasayana
- Powders (churna): Saraswata, Brahmyadi, Sarpagandadi churna, combination of *Convolvulus prostrates* (shankhapushpi), *Bacopa monnieri* (brahmi), *Tribulus terrestris* (gokshura) and *Rauvolfia serpentine* (sarpagandha).

Treatment of pitta dominant unmada

- Purgation (virechana) is the first principle of treatment. For internal oleation Tiktaka ghrita, Brahmi ghrita, Shatavari ghrita, Phalasarpri etc. are used.
- Pouring of medicated buttermilk (takradhara) or medicated milk (ksheeradhara)
- Anointing head (shirolepa) with Amalakyadi yoga
- Expressed nasal medication (avapeedana nasya)
- Mineral (rasa) preparations: Kamadugha rasa, pravalapanchamrita rasa, manasamitra vati, brahmi vati, pravalapishti, rajata bhasma.
- Fermented preparation (asava/arishta): Chittachandirasava, shrikhandasava.
- Decoctions(kashaya): Tiktaka, Brahmadrakshadi, Guduchyadi
- Powders (churna): Brahmyadi, chandanadi, avippattikara, shatavaryadi
- Electuaries (Lehya): Drakshamalaki, Amalaki rasayana, Drakshadi, Kushmanda rasayana

Treatment of kapha dominant unmada

- Emesis (vamana) and purgation (virechana) with purana ghrita, hingwadi ghrita, panchagavya ghrita, mahapanchagavya ghrita, lashunadi ghrita
- Powder nasal medication (pradhamana) with shwasakuthara rasa, smritisagara rasa, vachadi churna etc.
- Pouring of medicated buttermilk (takradhara) or medicated decoctions (kashayadhara)
- Mineral (rasa) preparations: Manasamitra vati, smritisagara rasa, brahmi vati, sameerapannaga rasa.
- Fermented preparation (Asava/arishta): Mritasanjeevani sura
- Powders (churna): Vachadi churna, kushthadi yoga

Treatment of atattvabhinivesha

Purification through panchakarma procedures is the principal treatment. Nourishment therapy is indicated with brain stimulants. Panchagavya ghrita with juice (swaras) of Bacopa monnieri (Brahmi) or other rejuvenating preparations are advised. Psychological counseling is also advised.

Some other related conditions and its treatments

Sleep disorders

Insomnia: Oil massage; bath; meat juices of domestic, marshy, and aquatic animals; milk, wine, cheerfulness of mind, perfumes, mild massage, application of medicated paste in head and face, use of comfortable beds are advised in insomnia.

Hypersomnia: Purgation (virechana), emesis (vamana), nasal medication (nasya), venesection (raktamoksha), worries, medicated smoke inhalation, fasting, uncomfortable beds are advised for those who have excessive sleep.

Other psychic disorders mentioned in Ayurveda

- Anxiety disorders (chittodvega)
- Phobic disorders (bhaya)
- Attention disorders (anavasthitachitta)
- Hypochondriasis (gadodvega)
- Dissociative disorders (smararoga)
- Personality disorders (rajasika and tamasika kaya)
- Chorea (tandavaroga)
- Substance abuse disorders (Madatyaya)
- Seizure disorders (Apasmara)
- Stress-related disorders (manodukhajonmada)

- Perverted sexual disorders (asyeka, kumbika etc.)

Conclusion

In Ayurveda, elaborate descriptions of mental disorders with their management is available. In day to day practice mental disorders are well managed by Ayurvedic interventions. It requires a holistic approach including management with medicines, counseling, and spiritual therapies.

Further reading

- Vagbhata, Ashtanga hridayam, Sarvanganasundara commentary by Arunadutta, Chaukambha Orientalia, Varanasi-2007, Uttara Tantra, Chapter 6, Unmada Pratishedhadhyaya.
- Sushruta, Sushruta Samhita, English translation and edited by Kaviraj Kunjalal Bhishagranta; published by Chowkhambha Sanskrit series, Vol.ll, Uttara tantra, Chapters 60, 61 and 62
- Yoga ratnakara, Vidyotini hindi commentary, edited by Sri Brahmashankara Shastri, Choukhambha Sanskrit Samsthana , Varanasi, Purvaardha, page 488-496