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Review Article

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Ashwagandha Ghrita in Bal Karshya (Childhood Undernutrition)

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ABSTRACT

Aim of study: Karsya is very common disease in children of age group 6months to 5 years.In ayurveda Karshya is described as *Apatarpanajanya vyadhi* & Due to *Rasavaha Shrotodusti* where vata dosha plays a very important role in the pathogenesis, along with that vitiated Pitta. Aim of article is to review antimicrobial activity against various organisms and nutritional value of drug.

Material and methods: Literary review was conducted with help of several important Ayurvedic and Modern text books, Research papers, Journals to collect information on *Ashwagandha Ghrita*. The description of Karsya clearly correlates with under nutrition. Karshya is described in almost all samhita from both point of view i.e. preventive as well as curative. *Ashwagandha Ghrita* is described in Chakra Dutta (63/70), Yog. Ratnakar (Bal rog Chi. 44), Bha. Rat. (71/132). This yoga contains Goghrita, Ashwagandha Kalka, Godugdha and Water. Karshya is directly related to recurrent infections. This literary review article shows antimicrobial activity against various organisms.

Conclusion: Ashwagandha contains alkaloid and steroids and ghrita has yogvahi and Sanskaranuvarti properties and these are responsible for Increase in body mass.

Keywords: Karshya, Undernutrition, Malnutrition, Apatarpanajanya vyadhi, *rasavaha Shrotodusti*, Antimicrobial activity, *Ashwagandha Ghrita*.

INTRODUCTION

According to recently released National family Health survey NFHS-4 carried out in 2015-2016, 36% of India's children under the age of three years are underweight, 38% are stunted, 21% are wasted. Almost 11 million children are estimated to die before they reach the age of five. [1] Both girls and boys have a similar prevalence of under nutrition. It is more prevalent in rural areas (46%) than in urban population (33%) during the first 6 months of life, 20-30% children are already malnourished, often because they were born with low birth weight. The proportion of under nutrition starts rising after six months age because of introduction

unhygienic food intake which leads increase in predisposition to under nutrition. [2] Food (Aahara) is considered as one of the three sub-pillars of life as per Ayurvedic classics and Ahara Dosha (faulty dietary habits) is the main predisposing factor for Karsya among which Alpashana (reduced intake of food) and Vishamashana (false habit of intake) are especially responsible in the development of Karshya. Under nutrition is a major contributing factor for inadequate physical, psychological and intellectual development. Recent several researches suggest that major disorder of later life including Heart disease, Hypertension, & type-2 D.M. originate in children suffering from under nutrition.

MATERIAL AND METHODS

The literary review was conducted with help of several important Ayurvedic and Modern text books, Research papers, Journals to collect information on ASHWAGANDHA *GHRITA* which is used for the management of Bal Karsya (Childhood Undernutrition).

Undernutrition: Under nutrition is a condition in which there is inadequate consumption, poor absorption or excessive loss of nutrients. [2] Term Mal nutrition refers to both under nutrition and overnutrition. However, sometimes the terms Mal nutrition and PEM are used interchangeably with undernutrition.

Causes of Mal-nutrition:

- Low dietary intake
- Low Birth weight
- Recurrent Infections Diarrhea, Pneumonia, Other Infection

Acharya Dalhan has explained the Ati-Karshya as its literally meaning is reduction in Upachaya, Rupa and Bala. [3]

Causes of Karshya: [4]

Dietary cause: Kashaya rasa atisevan, Langhana, Pramitasan, Rukshaannapan Vatalaahara etc.

Viharaja cause: Atisnanabhayas, AtiVyayama, AtiVyavaya, Dhyana, Nidra Nigraha, Kshudha Nigraha, Pipasa Nigraha, RukshaUdvartan.

Manasik Nidan: Bhaya, Chinta. Krodh .Shok

Samprapti/Pathogenesis: Karshya is the disease correlated with under nutrition which may be Swatantra Vyadhi (independent disease) or it may appear along with other diseases as a prestige symptom of complication. It Apatarpana Janya Vyadhi (disease caused due to under nourishment) where Vata dosha (bio-humor) plays an important role in the pathogenesis, [5] along with that vitiated Pitta (bio-humor). Pachaka Pitta (sub type of *Pitta*- digestive enzymes) leads to Agni Dushti (improper digestion) as a result of which the Dhatus (tissues) are not nourished properly leading to *Anuloma Kshaya* (depletion of whole body tissues). This altered function of *Vata dosha* and *Agni* leads to insufficient production of *Rasa Dhatu*. Insufficient production of *Rasa Dhatu* takes place leading to *Dhatu-kṣhaya* chronologically.

Samprapti Ghatak:

- Dosa Vata
- Dusya Rasa dhatu
- Agni- Jatha-ragni (Mandagni)
- Ama- formation of Ama due to Agnimandya
- Vyadhi-Sthan -Amasaya
- Srotas affected -Rasa vaha, Raktavaha, Medavaha and Mamsavaha,
- Type of Srotodusti -Sanga
- Rogamarga Abhyantar-rogamarga
- Vyaktasthan -Sphiga, Udar, Uriba Twak, Asthi
- Vyadhiprakar Chirakari.
- Sadhyasadhyata Kricchasadhya

Rupa (Clinical features of Karshya): [6]

Aacharya Charaka, Sushruta and Vagbhatta have described almost identical symptoms of Karshya as *Shushk Sphiga Udar Griva* (Emaciated buttock, abdomen, neck region), *DhamanijalaSantatah* (Prominent venous network), *Twak-Asthi Shesh* (Skin bone appearance)

SthulaParva (Prominent joint), Patient can't tolerate-AtiVyayama (excessive exercise), KshutPipashaOushadha (Hunger, Thirst, Medicines), AtiShita Ushnamaithuna (excessive cold- hot, sexual intercourse).

Upadrava of Karshya: [7]

The patients of *Karshya* are prone for developing following diseases like *Pleeha*, *Kas*, *Kshaya*, *Swas*, *Gulma*, *Arsha*, *Udar*, *Grahani*.

CHIKITSA SUTRA (PRINCIPLE OF MANAGEMENT):

1. *Laghu-Dravya-SantarpanChikitsa* should be advised in *Karshya-Rogi*. ^[8]

2. In chronic *Karshya* patients the refreshing therapy should be administered slowly depending upon the physical constitution, digestive power, Doshas vitiated, nature of therapy, dose, season and time of administration. For such patients, Mansa Rasa, Ksheer and Ghee of different animals. different types of Brinhana Basti, abhyanga and nourishing drinks are useful.

Yuktivyapashraya Chikitsa:

Vidarikandadi Churna [with milk & honey.]

Talamkhana with goat milk.

Laja-Adi Yog (combination) is useful in malnutrition. [10]

According to Charak Bringan Chikitsa is helpful in Karshya^{-[11]}

Vidarikandadi Yog is a useful drug due to its Bringhaneeya effect [12]

Indigenous diet, drug Shoshjit Yog along with standard diet is a good alternative for the treatment of malnutrition as it enhances absorption of nutrients & increase the total serum protein. [13]

The roots of Withania Somnifera are used extensively in Ayurveda, categorized as a Rasayana which is used to promote physical and mental health and to provide defence against diseases [14]

Table 1: Antimicrobial property of Ashwagandha Ghrita			
Sr.	Reference	Name of Micro	Results
No.		Organism	
1	African Journal of microbiology Research vol 6 [22] pp. 4810-4815, 14 June 2012.	E.coli K. pneumoniae S. pyogenes B. subtilis Methicillin Resistant Staphylococcus aureus P. aeruginosa	This drug is effective against these bacteria
2	International Journal of Current Pharmaceutical Research ISSN- 0975-7066. Vol. 7 Issue 4, 2015 page 76-78.	B. anth racis S. typhi C. pneumoniae C. albicans C. vaginitis B. dermafoidis (Fungus) E. coli B. thruengenesis P. aeruiginosa	This drug has inhibitory effects against these bacteria and fungus
3	Antibacterial effect of Withania Somnifera root extract on <i>E.Coli</i> , Veterinary World , EISSN; 2231-0916 VOL.8(1): 57-60 JAN 2015	E. coli	Aquous root extract of W. Somnifera has excellent potential as an antibacterial Agent against E. Coli.
4	Journal of Chemical and Pharmaceutical research 2011, 3 (3): 260.263 ISSN No: 0975-7384	E. coli P. aeruginosa Staphylococcus aureus S. mutans Candida albicans	Methanolic Aq. root Extract of W. sominifera might be exploited as natural drug for treatment of several important diseases cause by these organism

Panchakarma Therapy (Purification)

Karshaya (under prominent Dosha is Vata. So Basti is the best therapy to win over the *Vata dosha*. ^[15] Combination of Kshira Paka and Kshira Basti therapy in Karshya is better than individual therapy. Best result obtained in patients of Karshya due to the synergistic effect of Kshira Paka and Kshira Basti [16]

Different forms of drugs and combinations used in malnutrition:

Ghrit – Ashwagandhaadi, [17] Shishu Shosh Nashak, [18] Kalyank, Shatpal, Trivrith, Brahmi ghrit. [19]

Tail - Lakshaadi Taila, Shosh-Nashak Taila, [18] Raj Taila^{. [19]}

Kwatha - Kakoli, Shirkakoli with goat milk.

Churna - *Swarn Bhasm* with *Ghee &* honey, [15] *Kusta Churna* [17]

Pathya- Apathya: (Congenial and Non congenial diet)

Pathya: [20] (Congenial diet)

Aahar: Freshly harvested rice, *Mansa rasa* of domestic marshy aquatic animals,

Dadhi, Ghee, milk, Sugarcane, Shali rice, Masa, Wheat, Sugar and candy preparations etc.

Vihar: Sleep, joy, comfortable bed, abstinence from anxiety, sexual act and physical exercise, pleasant sight, regular oil massage, unctuous unction bath, use of perfume and garlands etc.

Ousadh: Enema consisting of unctuous and sweet drugs, elimination of Dosas in time and administration of rejuvenating and aphrodisiac drugs. Payashya, Aswagandha, Salparni, Shatavari, Bala, Atibala, Nagbala, etc. Madhura drugs should be administered.

Apathya: (Noncongenial diet): Intake of pungent, bitter and astringent substances, oilcake of mustard and til, honey, sexual indulgence, night awakening, excessive physical and mental exercise etc should be avoided in Karshya.

CONCLUSION

Karshya is a disease caused by nutritional deficiencies in which the body gets slowly emaciated. Mainly the gluteal region, abdomen and neck show gross bulk muscle loss and subcutaneous fat depletion. This condition is very much similar with under nutrition. Efficacy of Ashwagandha Ghrita on Shishu Karshya (Underweight Children) is described in many Ayurvedic Samhitas (Chakradutta 63/70 Page 273, Yog Ratna Balroga Chi. (443), Bha. Rat. 71/132). This drug contains natural steroids that enhances the protein synthesis and lipophilic activity that allows it to penetrate the cell membranes. An Increase in the capacity of internal organs, with increasing power of lungs probably due to increased amounts of alveolar line proteins of lungs. Ashwagandha contains alkaloid and steroids and ghrita has yogvahi and sanskaranuvarti properties and these are all responsible for Increase in body mass.

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