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Study the Effect of Yashtyadyam Ghrita in the Management Of Balashosha W.S.R. To Undernutrition							
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Introduction

Equilibrium of *Doshas* and freedom from all the disease is health for this purpose thesages studied the sacred *Ayurveda*.

Ayurveda gives importance to *Kaumarbhritya* because this age determines how the person will become later on in his life.*Balashosha* is result of improper nutrition. *Balshosha*which can be correlated with undernutrition (P.E.M.) is one of such disease occurring in children due to hampered nutrition or *Dhatuposhana*. Thus, *Balashosha* can be defined as a condition in which child is emaciated acharya *Vagbhata* has mentioned three main causative factors for *Balashosha* viz excessive sleep in hr excessive intake of cold water and excessive intake of *kapha* vitiated breast milk¹.

Undernutrition contributes to 60% of the 10million death globally that occurs every year among children under five years of age. The prevalence of underweight children in India is among the highest in the world. Undernutrition includes both protein-energy malnutrition and micronutrient deficiencies².

YashtyadyamGhrita mentioned in *Ashtanghridya* by *Vagbhata* is best in *Balshosha*. Hence an attempt was made to study the effect of *YashtyadyamGhrita* in the management of *Balshosha*³ (undernutrition). In a present study the anabolic effect of *Ayurvedic* drug i.e. *YashtyadyamGhrita* was studied in the under nutrients children and the results were found very encouraging and promising.

Aim And Objectives

AIM: -

• To study the effect of *YashtyadyamGhrita* in the management of *Balashosha*w.s.r. to undernutrition.

Objectives: -

- To study the *Balashosha* and undernutrition (according to Ayurveda & Modern text.)
- To study the effect of *YashtyadyamGhrita* in undernutrition.
- Efforts to avoid severe consequences of malnutrition in children.
- To establish beneficial effect of ancient mode of treatment in modern era.

Review Of Ayurvedic Literature

Utpatti:-

The term *Balshosha* is used by *AshtangHridya* and *AshtangSangraha*¹. In other *Ayurvedic* text it might have been described in another way.

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Acharya Charaka in AshtounidatakiyaAdhaya has condemned eight types of condition in human being, which is extreme at its own. One of them is Karshya i.e. extreme emaciation⁴.

In ShoshapratishedhtyaAdhyaya, Sushruta has defined Shosha as- Shrivelingof Rasa, Rakta, etc. Dhatus is called as "Shosha"⁵.

In KashyapaSamhitadescription of VyadhijanyaFakka has similarities with Balshosha⁶.

In *Madhav Nidan* the babies fed with breast milk which is vitiated by *VataDosha* shows symptoms similar to *Balshosha* i.e. *Krushangata, Kshamswar*, constipation⁷, etc.

Saindhantik Vivachan Of Balshosha: Causes of Balshosha⁸

- Excessive sleep
- Excessive intake of water
- Intake of breast milk vitiated by KaphaDosha.

Purvaroop:

- o Anorexia
- o Pratishyaya
- o Fever
- o Cough

Roop:

- Excessive emaciation.
- Wasting of muscles of thighs, buttocks and arms.

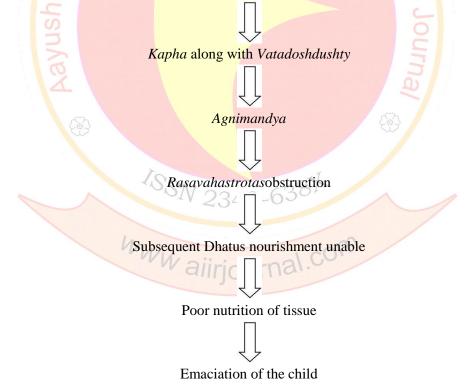
Excessively emaciated person is unable to tolerate excessive physical exercise, hunger, thirst, cold and hot climate⁹.

• Such people are often subjected to chronic diseases, cough, wasting and dyspnoea

Samprapati flow Chart¹⁰:

Excessive Sleeping during day time, excessive consumption of cold water

and breast milk vitiated by Kapha



Treatment:

Balshosha is disease related with dhatu and its nourishment. Hence the treatment should be aimed atagitation of *Jatharagni* i.e. *DeepanPachan* along with proper nourishment i.e. *Brimhana*.

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Modern Review Of Literature

Undernutrition:

It is a condition in which there is an inadequate consumption and poorabsorption or excessive loss of nutrients¹¹.

Malnutrition:

It is a condition that develops when the body does not get the properamount of protein, energy, vitamins and other nutrients which needed formaintaining healthy tissues and function of organs¹¹.

Protein Energy Malnutrition:

It is manifested primarily by inadequate dietary intake of protein and energy either because of the dietary intake of these two nutrients are less than required for normal growth¹²

Kwashiorkor:

weight loss and oedema are accepted as the main criteria to identify Kwashiorkor.Growth retardation, skinchanges (lesions), abnormal hair, swollen belly, lack of growth, lack of stamina,loss of muscle tissue, vomiting, diarrhoea, hepatomegaly and children have a well-nourished appearance with some retention of body fat and even though sometissue wastage and weight loss are present, it may be over shadowed by theoedema¹³.

Marasmus:

growth retardation and muscle wasting without oedema.UnderweightThe child is malnourished but does not have any features of marasmus orKwashiorkor¹³.

Diagnostic criteria for Malnutrition

Classificationaccording to the Indian academy of paediatrics(IAP):

5	Grade Of Malnutrtion	Weight For Age	
-	NORMAL	>80%	
2	Grade I	71-80%	5
5	Grade II	61-70%	2
	Grade III	51-60%	11
2	Grade IV	<50%	ā

Age Independent Indices to diagnose undernutrition:

- 1. Mid Upper Arm Circumference (M.U.A.C.)
- 2. Skin Fold Thickness

Clinical Sign Of Malnutrition¹⁴:

SITE	SIGNS V 2349-6301	
Face	Moon face (kwashiorkor), simian facies (marasmus)	
Eye	Dry eyes, pale conjunctiva, periorbitaloedema	
Mouth	Angular stomatitis, glossitis, spongy bleeding gums	
	(vitamin C), parotid enlargement	
Teeth	Enamel mottling, delayed eruption	
Hair	Dull, sparse, brittle hair, hypopigmentation, broomstick	
	eyelashes, alopecia	
Skin	Loose and wrinkled (marasmus), shiny and oedematous	
	(kwashiorkor), dry, follicular hyperkeratosis, patchy hyper and	
	hypopigmentation (crazy paving or flaky paint	
	dermatoses), erosions, poor wound healing	
Nails	Koilonychia, thin and soft nail plates, fissures or ridges	
Musculature	Muscle wasting, particularly buttocks and thighs; Chvostek or	

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	Trousseau signs (hypocalcaemia)	
Skeletal	Deformities, usually as a result of calcium, vitamin D, or vitamin C deficiencies	
Abdomen	Distended: hepatomegaly with fatty liver; ascites may be	
	Present	
Cardiovascular	r Bradycardia, hypotension, reduced cardiac output, small	
	vessel vasculopathy	
Neurologic	Global developmental delay, loss of knee and ankle reflexes,	
	impaired memory	
Hematologic	Pallor, petechiae, bleeding diathesis	
Behaviour	Lethargic, apathetic, irritable on handling	

Management Of Malnutrition¹⁵:

Management of Mild - Moderate Malnutrition:

The patients are best managed in their own homes. The parents of such children are educated about the inadequacy inchild's intake and guided how to correct it.

Management of severacute malnutrition:

- 1. Stabilization phase: Focus restoring homeostasis and treatingmedical complications and usually takes 2 to 7 days of inpatient treatment.
- 2. Rehabilitation phase: focus on rebuilding wasted tissues and maytake several weeks.

Materials & Methods

60 diagnosed patients of *Balshosha* (undernutrition) attending OPDof *Kaumarbhritya* department of *AyurvedRugnalaya* were selected randomly and divided equally into two groups.

Drugs: -

Group A: Trial Group - *YashtyadyamGhrita* Group B: Control Group – *Goghrita*.

Preparationof Yashtyadyamghrita:

YashtyadyamGhrita containing Yashtimadhu, Pippali, Lodhra, Padmaka, Utpal, Chandan, Talishpatra, Sariva and Goghrita is prepared by the procedure given in Sharangdhar SamhitaSneha Kalpana Adhyaya¹⁶.

Plan Of Study:

Selection of patients:

Open randomized controlled trail design was studied.Patients with the clinical features of *Balshosha*coming under grade I & IIwere selected after screening with inclusion and exclusion criteria.

- \circ Group A Trail group.
- Group B Control group

Study period: 8 weeks (60 days)

Follow ups: Assessment on 0 – 15th –30th- 45th and 60th days.

Crieteria For Selection Of Patient:

Inclusion Criteria: -

- 1. Children age between 1 5 yr.
- 2. Children from grade Ist and IInd undernutrition according to IAP classification.
- 3. Children of either sex, irrespective of religion socioeconomic status and food habit.

Exclusion Criteria:-

- 1. Severely malnourished children (gradeIIIrd andIVth malnutrition of IAP).
- 2. Children suffering from infectious and chronic systemic disorder.
- 3. Children with chromosomal, genetic, metabolic or congenital disorder. Other systemic illness like T.B & HIV etc.

Subjective Criteria:-

- Daurbalya.
- 0 KshudhaAlpata.

Objective Criteria:-

- Weight for age.
- Mid arm circumference.

Drug Regimen

	Group - A (Trail Drug)	Group-B (Control Drug)	
Drug Name	YashtyadyamGhrita.	Goghrita	
Time	Twice in a day.	Twice in a day.	
21.	before a meal.	before a meal.	
Number of patient.	30	30	
Anupan 💦	KoshnaJal.	KoshnaJal.	
Dose	2 - 10 Gm.	2 - 10 Gm.	
Rout of administration.	orally	Orally	

Observations

Wilcoxon sign rank test and Paired t test for subjective and objective criteria respectively are used.

Result

Comparatively the effect of *YASHTYADAMGHRITA* (Group A) issignificant than *GOGHRITA* (Group B) for *Daurbalya*, *Kshudhaalpata*, Weight, and Mid Arm Circumference of *BALASHOSHA*. Discussion

*Balshosha*which can be correlated to undernutrition (PEM) of modernscience is one of such disease i.e. occurring in children due to hamperednutrition or *Dhatuposhana*. Regarding to *Sampraptiof Balshosha*, there are two main entities i.e. *Vata-Kapha, Prakopa* and *Strotorodha*, which ultimately leads to improper nutrition and emaciation of *Dhatu*. The goal of treatment is to provide adequate calories for dualpurpose to replace the losses and build up nutrition to promote growth. *Yashtyadyamghrita* mentioned in *Ashtanghridya* by *Vagbhata* is the best in *Balshosha*.

Conclusion

Most of the patients of *Balshosha* are between the ages of 1-5 years and male and female are equally affected by *Balshosha*. Statistical analysis showed that there is significant improvement inweight, height, mid upper arm circumference, *Daurbalya* and *Kshudhaalpata* in both groups. But trial group shows overall betterresults as compare to control group.

It concluded that comparison between trial and control groups, showed insignificant results on most of the parameters. This may bedue to around same, mean score found in both groups. It means that the result of control group was as good as the results of trial group. Trial Group shows better results individually.

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