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RESEARCH ARTICLE OPEN ACCESS

EFFICACY OF AYASTILADI CAPSULES IN THE MANAGEMENT OF PANDU W.S.R TO IRON DEFECIENCY ANAEMIA

VIVEK¹ MORE ANAND² MANDAL S.K.³ RAI SHALINI⁴

ABSTRACT

Pandu roga can be closely correlated with anaemia based on similarities in the signs, symptoms and lauh yogas (iron formulations) mentioned in the treatment of disease. Anaemia is the most common nutritional disorder with very high prevalence in India. Prevalence of anaemia in Indian subcontinent is around 53.2%⁽¹⁾ and more than half of all anaemia are secondary to iron deficiency⁽²⁾. Oral iron supplementation is the main treatment protocol for the management of iron deficiency anaemia but it has various side effects especially gastric irritation and constipation. Ayurveda with its large range of lauh yogas can provide effective management of iron deficiency anaemia with least or no side effects as compared with oral iron supplements. Two female patients with moderate anaemia were enrolled in the study and prescribed with oral administration of ayastiladi capsules for a period of month. After one month of administration there was significant response in symptoms as well as investigation values.

Keywords: Pandu, iron deficiency anaemia, Ayastiladi capsules, haemoglobin

¹PG Scholar, ²Professor and HOD, ⁴Assistant professor, Dept. of Roga Nidan Evum Vikriti Vigyan,
All India Institute of Ayurveda, New Delhi, India

³Professor, Dept. of Vikriti Vigyan,IMS-Banaras Hindu University, U.P, India

Corresponding Email id: *vivekbams2013@gmail.com* Access this article online: *www.jahm.co.in*Published by Atreya Ayurveda Publications under the license CC-by-NC-SA.

INTRODUCTION

The most prominent diagnostic feature of pandu roga is yellow discolouration of the skin, Pitta dosha which is responsible for the normal colour of the body due to Nidan sevan(consuming etiopathological causes) it gets vitiated and causing dushti of dushyas (kapha,vata,asrak,twak,mams) and causes yellow discolouration of the body. The symptoms described in the text of pandu roga are bhrama(giddiness),aarohan aayas(breathlessness on exertion), hat anala (loss appetite), gatrashool (Bodyache), which shows its close proximity with the anaemia.

Anaemia is defined as the condition having lower than normal number of red blood cells or quantity of hemoglobin, it can be due to quantitative (as in haemolytic and hemorrhagic anaemia) as well as qualitative (as in sickle cell anaemia and thalassemia) deficiency of blood. As both the components are responsible for the oxygen carriage to the cells the lack of which imparts yellow, blue discolouration to the skin and development of the symptoms like fatigue, breathlessness etc.

Anaemia is a most common nutritional disorder worldwide and its prevalence in India is very high which is due lack of balanced diet especially in rural areas. According to NHFS V data the prevalence of anaemia in urban children is 66.3% and in rural children is 70.7%.

Oral iron supplementation is the main treatment approach for the management of iron deficiency anaemia but the iron supplements have a lot of side effects especially gastric irritation, constipation etc. On the other hand, ayurvedic lauh(iron) formulations are very effective with no side effects.

CASE REPORT

Patient 1

A 26 yrs old female having: -

Chief complaint - Breathlessness on exertion x

1month

Past medical history - not significant

Past surgical history- not significant

Family history -not significant

On Examination- G.C good

Height: -5'1"

Weight: -46

Pallor-Absent

Icterus - Absent

R. R = 16 min

PR-72/min

BP - 110/70 mm Hg

Temp -98.2°F

Table 1. Effect of Ayastiladi yoga on CBC

	Before intervention (1/3/2021).	After intervention (6/4/2021)
НВ	10.6 gm/dl	11.9gm/dl
TRBC	4.35 lac/cumm	4.82 lac/cumm

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НСТ	32.5%	37.1%
MCV	74.5 fl	77.1 fl
МСН	24.2 pgs	24.7 pgs
МСНС	32.2 gm/dl	32.0 gm/dl
PLATELET	3.7 lacs/cumm	3.9 lac/cumm
TLC	7 thousand/cumm	7.7 thousand/cumm
ESR	60mm 1st hour	29mm 1 st hour

Patient 2 On Examination- G.C good

A 25 yrs old female having:
Chief complaint - Breathlessness on exertion x

Weight: -55

2months

Pallor-Absent

Loss of appetite x 2 weeks

Icterus - Absent

Bodyache (on-off) x 2 weeks

R. R = 18 min

Past surgical history- not significant BP - 120/70 mm Hg

Family history -not significant Temp -98.2°F

Table 2. Effect of Ayastiladi yoga on CBC

PR-75/min

	Before intervention (5/3/2021).	After intervention (16/4/2021)	
НВ	10.8 gm/dl	11.9gm/dl	
TRBC	5.15 lac/cumm	5.10 lac/cumm	
НСТ	34.5%	36.8%	
MCV	67.0 fl	72.1 fl	
МСН	20.2 pgs	23.1 pgs	
MCHC	31.2 gm/dl	32.0 gm/dl	
PLATELET	2.4lacs/cumm	2.8 lac/cumm	
TLC	6.5 thousand/cumm	9.0 thousand/cumm	
ESR	32mm 1st hour	29mm 1 st hour	

Therapeutic Intervention

Past medical history - not significant

Described in bhaishajya ratanavali under pandu rogadhikara.

Table 3. Contents of Ayastiladi capsules

NAME OF DRUG	BOTANICAL NAME	PART USED	PART

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Tila	Sesamum indicum	Beej	1
Shunthi	Zingiber officinale	Kanda	1
Marich	Piper Nigrum	Phala	1
Pippali	Piper longum	Phala	1
Loha Bhasm	Ferrum(Fe)		1
Suvarnamakshika	Copper iron pyrite		5

Procedure of preparation

All the ingredients of the formulations were taken in the mortar and given bhavana with *amalaki swaras* 3 times. After completion of three *bhavana* the dried powder was filled in the capsules. Each capsule weigh approximately 250mg.

Administration of therapeutic intervention

2 capsules twice a day with plain water after meals for the duration of 1 month.

DISCUSSION

Ayastiladi modaka consists of two lauh(iron) sources lauh bhasm and swarna makshika bhasma, which shows its application as oral iron supplementation, lauh bhasm contains iron as Fe203 and Fe3O4 compound⁽³⁾ and swarna makshika bhasm contain iron as Fe2O3 and FeS2 compounds⁽⁴⁾. The total iron content present in the lauh bhasm is approximately 85%(3) and that of Swarna makshik bhasma is approximately 32%⁽⁴⁾. The lauh bhasm consumed by the patient on a daily basis is 100mg and that of Swarna makshika bhasm is 500mg so the iron consumed from them are 85mg and 160mg respectively. The total compound iron consumed by the patient is approximately 245mg which shows its efficacy in such a low dose. Trikatu is Ushna-tikshana in

nature and having *katu rasa* and deepana-pachana properties. With these properties it will correct agni and does ama pachana and sroto sodhana that in turn increase the bioavailability of the drugs⁽⁶⁾. Amalaki swaras due to its sheet virya the formulation does not produce any gastric irritation and facilitates the absorption of iron due to its rich vit c content. Trituration decreases the particles size of the drugs which facilitates the absorption.

CONCLUSION

It is concluded that due similarity in clinical presentation and treatment principal pandu can be correlated with the iron defeciency anaemia.

Ayastilaadi capsules with Katu, Kashay Rasa,
Deepana, Pachana, Ushna, and Tikshna Guna,
along with high quantity of lauha and
Suvarnamalshik bhasma has enough potency to
disintegrate the etiopathogenesis of Pandu Roga.

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