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A backyard entry to Thyroid Disorders with the help of Agni, Satwa and Sara

Review article

Sanjay Batra^{1*}, Raghavendra Udupa²

- 1.Asst.Professor, Dept.of Basic Principles, K.V.T.R.Ayurveda College, Boradi, Dhule (M.S.)
- 2. Prof. & HOD, Dept.of Basic Principles, Alva's Ayurveda Medical College, Vidyagiri Moodbidri (Karnataka)

*Corresponding Author: **Sanjay Batra**, Assistant Professor, Department of Basic Principles, K.V.T.R.Ayurveda College, Boradi, Dhule, Maharashtra, India – 425428 Email – sanjaybatra72@gmail.com; Phone. No. +919422780904

Abstract

Thyroid disorders are characterized by physical and mental abnormality. We do not have an exact term for thyroid gland in our classics. Therefore, it is not possible to get an explanation of physiology and pathology of thyroid gland from our ancient books. Some of the later Ayurvedic scholars tried to name the thyroid gland, but they could not compare many thyroid disorders with any of the ancient descriptions.

This is a conceptual paper. Here, a humble attempt is made in the following aspects:

- ➤ An Ayurvedic perspective on the importance of the location of thyroid gland and naming of thyroid disorders.
- Framing an overall idea about thyroid disorders with the help of the concept of *Agni* (Digestive fire). This is added with role of *Dhatu sarata* (Constitutional essence) *and Satwa* (Psyche).
- ➤ To plan the treatment modality, diet in thyroid disorders.
- > Some traditional remedies of Kerala which will be useful in thyroid dysfunctions.

Keywords: Thyroid Disorders, Ayurveda, Agni, Dhatu Sarata, Satwa

Introduction

Thyroid disorders are characterized by physical and mental abnormality. Previously it was thought that this group of disorders are sporadic in some places of India-for example goiter is common among the people of Himalaya region due to iodine deficiency. As medical aids reached the common man, it showed that these disorders are prevalent in almost every state of India. An increasing number of thyroidectomy, either partial or full, in hospitals is a visible evidence for it.

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An Ayurvedic perspective on importance of the location of thyroid gland and naming of thyroid disorders

The Thyroid gland is located in the anterior portion of the neck. Three doshas are present in each and every cell of human being and some structures are considered as special seats of doshas. Kantha (neck) is considered as one among the Kapha sthana (site of Kapha humours). Chakrapani in Charak Shareer mentioned that the structure "shleshma bhuva" (hard structures on both sides of throat) are two in number and located in the neck. It can be taken as thyroid gland (1).

Disorders pertaining to head & neck have been described in Ayurveda. Most of the diseases are explained on the basis of local symptoms, eg. Sheetad (bleeding from gums, destruction of gums).In Shankhaka (disorder of head), there is severe pain in the temporal region, redness, burning & swelling. It has the intensity of poison & obstructs the throat. The patient dies within three days (2).

If Shankhaka is a simple localized disorder, it would not have the intensity of poison and would not cause death quickly. The disease may contain many general symptoms but these are not explained in Ayurveda.

The case with thyroid disorders is the same. We can correlate goiter & some tumour pathology of thyroid to galganda (goitre) where thyroid functions may or may not be affected. But hypothyroidism & hyperthyroidism have the symptoms related to many portions of the body. It is very difficult to correlate these two entities with any of the disease mentioned in Ayurveda. Further, hypothyroidism & hyperthyroidism are not single disease entities, and many diseases are included under each heading. It is, therefore, better not to restrict thyroid dysfunctions to any one of the diseases. Similarly, these are not mere localized disorders.

In such a situation, Ayurvedist need not to give a roga samina (disease name) to the thyroid disorders. He can treate the disease by knowing the condition of Dosha (Humours), Dhatu (Elementary tissues) & Agni (Digestive fire) components etc. and their interrelation (3).

"Vikaranam Akushalo **Jivhiyat** na Kadachan

Na hi Sarva Vikaranam Namato asti Dhruva sthiti" C.S.Sutra 18/44

Framing an overall idea about thyroid disorders by Dhatu sarata and Satwa which are added with description of Kayagni

The features of hyperthyroidism and hypothyroidism are (4):



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Table no.1: Features of Hyperthyroidism and Hypothyroidism

System	Hyperthyroidism	Hypothyroidism
Gastro-intestinal	Weight loss despite normal or	Weight gain, Constipation, Illeus,
	increased appetite, Hyperdefecation,	Ascities, Anaemia
	Diarrhoea and steatorrhoea,	
	Anorexia, Vomiting	
Cardio-respiratory	Palpitations, Tachycardia, Ankle	Bradycardia, Hypertension,
	Oedema, Cardiac failure, Dyspnoea	Pericardial and Pleural effusion
	on exertion	
Neuro-muscular	Nervousness, Irritability, Emotional	Aches and pains, Muscle
	lability, Psychosis, Tremor, Muscle	stiffness, Deafness, Depression,
	weakness, Proximal myopathy	Psychosis
Dermatological	Increased sweating, Pruritis, Palmer	Dry Flaky skin & Hair, Alopecia,
	Erythema, Alopecia, Pigmentation,	Myxoedema
Reproductive	Amenorrhoea, Oligomenorrhoea,	Menorrhagia, Loss of libido,
	Spontaneous abortion, Infertility	Impotence, Infertility
Occular	Exopthalmos	Lid Retraction Affected
General	Heat intolerance, Fatigue, Thirst,	Cold intolerance, Tiredness,
	Goitre	Somnolence, Goitre

In hypothyroidism there is ascities, illeus, constipation & anaemia, which may be due to improper *Sara- Kitta Vibhajana* (essence-excretory digestive ferments) by *Pachkagni* (digestive fire).

The gastro-intestinal symptoms of hyperthyroidism resemble the features of *Atyagni* (intense digestive fire) mentioned by Charaka. This diagnosis cannot be taken for granted because we cannot call hypothyroidism as *Mandagni* (weak digestive fire). At present juncture; we can say that, functions of *Kayagni* (digestive fire) will be abnormal in both these conditions.

The state of *Kayagni* (digestive fire) is very important as for as remaining *Pitta* (Pitta humour), *Bhutagni* (fire of five elements) & *Dhatwagni* (fire of seven tissue elements) are concerned. It gives strength & nourishment to other *pittas*. It can be compared to the main electric source of the house. Even though the electric source is only one, it can be used for many purposes such as heaters, fans, bulbs, fridge etc. It is named accordingly. Similarly, *pitta* is divided into five types based on their locations and functions. Let us see the condition of *pittas* in thyroid dysfunctions



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Table No.2: Condition of *Pittas* (Pitta humour) in thyroid dysfunctions

Pitta	Hyperthyroidism	Hypothyroidism
Pachak Pitta	Increased Appetite, Hyperdefecation, Diarrhoea, Steatorrhoea, Anorexia, Vomiting	Constipation, Illeus, Ascities, Loss of Libido, Impotence
Sadhak Pitta	Nervousness, Irritability, Emotional Lability, Psychosis, Tremor, Muscle Weakness	Aches & Pains, Muscle Stiffness, Deafness, Depression, Psychosis
Alochak Pitta	Exopthalmos	Lid Retraction Affected
Bhrajak Pitta	Increased Sweating, Pruritis, Palmer Erythema, Alopecia, Pigmentation	Dry Flaky Skin & Hair, Alopecia, Myxoedema
Ranjak Pitta	Hot Flushes, Palmer Erythema, Intolerance to Heat, Alopecia	Anaemia

After observing symptomatology, it is clear that pachaka & sadhaka pitta (types of pitta humour) are severely vitiated. Functions of these two are hyper hyperthyroidism activated subnormal in hypothyroidism.

Decrease -Increase of tissue elements

"Swasthanasthasva kayagne ansha dhatushu sanshrita

Tesham sadatidiptibhyam dhatuvruddhi kshayodbhava" A.H.Sutra 11/34

Further, the condition Dhatwagni (fire of seven tissue elements) in hyper & hypothyroidism can explained. Dhatwgnis are considered as part of Kayagni and are located in Dhatus.Increase of Dhatwagni brings Dhatu kshaya (diminished tissue elements) & decreased Dhatwagni will lead to Dhatu vriddhi (increased tissue elements). In case of hyperthyroidism patient will lose weight. It is due to the increased Dhatwagni which cause Dhatu kshaya.In hypothyroidism, weight gain is due to decrease in Dhatwagni (5).

Some Ayurvedic scholars opines that functions of sadhaka pitta are related to harmones running in circulation and having the power to raise or lower the activity level of the body or certain organs. "Agnirev sharire pittantargat kupit akupit shubh ashubhani karoti tadyatha paktim apaktim darshanam adarshnam matra amatratwam ushman prakruti vikruti varnau shoryam bhayam kroadham harsha prasadam itvevam moham aadini chaparani dvandvaniti" C.S.Sutra 12/11

The functions ascribed to pitta in its normal and abnormal states of functioning are : digestion or indigestion; visual perception or its impairment; normal or abnormal body heat; normal or abnormal colour of the body; couragr, fear, anger, cheerfulness, confusion, lucidity and such other opposite trait (6).

It is better to revise the Dhatu Saralaxana (constitutional essence) in the



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advanced condition of thyroid dysfunction. We are not getting the features of *Dhatu* sarata (excellence of tissues) especially of Rasa (skin), Mamsa (muscle tissue), Asthi (bone & cartilage tissue) and Majja Sara laxana (marrow tissue) (7). This suggests that the bodily tissues are not in normal condition in disorders of the thyroid gland.

When the Dhatus of the body are in normal condition (Dhatu Samyavastha), the Satwa (Psyche) of the person attains normality. Ayurvedic theory repeatedly stresses the correlation of body & mind. In thyroid disorders, the Dhatus are not in normal condition and, if not treated properly, they will lead to involvement of *Satwa* (8). That is why we psychological symptoms such as depression & psychosis in hypothyroidism anxiety & irritability hyperthyroidism. Further certain thyroid disorders such as myxoedema, cretinism etc come under Ashta Nindita Purusha (eight despicables).In Ashta Nindita Purusha the *Dhatus* are not developed properly and, in clinical practice, they usually exhibit abnormal psychic patterns.

To plan the treatment modality, diet in thyroid disorders

Our body is governed by two factors: Agneya & Sheeta (hot & cold).In thyroid disorders, mainly the Agneya (hot) factor will be affected. Imbalance of Agneya factor can be inferred by disturbed functions of pitta & condition of Dhatus. In hyperthyroidism, the function of pitta is hyper activated and the patient shows exaggerated mental symptoms. So the pitta upakrama (regimen of Pitta humor) can be followed.

Mriduvirechana (mild laxative), food & medicines of Tikta, Kashaya and Madhur rasa (bitter, astringent& sweet taste) are to be adopted. Food of madhur rasa is useful to stabilize the Pachaka pitta (type of pitta humour) & Tikta dravyas (bitter drugs) are useful to penetrate the *Dhatus*, thereby nourishing them. External body applications of drugs like *Karpoora* (Camphor), Chandana Ushira sandlewood) (Indian and (Khuskhus grass) will give symptomatic relief to the patient.

As a regimen, the patient should Greeshma follow the rutucharya (Regimen of Summer season) & regimen such as residing in cool place, wearing gems, taking rest in pleasant place along with agreeable people, etc should be followed (9).

Hypothyroidism shows the features of Kaphavriddhi (increase of Kapha humour) & subnormal mental symptoms. Therefore, drugs which are teekshna (penetrating power) and which increase the psychical factor should be administered.

Diet in Thyroid Disorders

Considering food for victims of thyroid disorders, there should be a food plan separately for hyper hypothyroidism. For hyperthyroidism, food possessing vata & pittahara (Vata & pacifying) qualities, Pitta snigdha (unctuous), sheeta (cold), manda (slow), guru (heavy) food that reduces heat & thirst and which can give symptomatic relief to the patient should be planned. For hypothyroidism, the food should be kaphahara (Kapha pacifying), ushna (hot), teeksna (penetrating) and those stimulating the nervous system should be advised (10).

Some traditional remedies of Kerala which will useful in thyroid be dysfunctions

Traditional remedies can be divided into two groups: local application and internal medicine.

Local application

Paste of shigru bark (Drumstick plant) mixed in water. A cloth piece is dipped in this water and after completely dry; the cloth is tied loosely round the neck of the patient for 15 days, during



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night. By this application the size of the thyroid gland will be reduced. But application for longer durations may cause emaciation of neck muscles.

Shwetha sarshapa kalka (paste of white mustard) is widely used conditions where symptoms such localized redness, burning sensation, etc are absent.

External application of Krishnadi gulika is another effective formulation.

Doshagna lepam can be used for local application.

Coconut prepared oil with parantimoola & onion, is used for application overhead.

Internal medicine

Kashaya (decoction) is one of the most popular forms of medicines in Kerala. Traditional practitioners use the following medicines thyroid in dysfunction cases.

- Drakshadi kashaya
- Mahatikta kashaya mixed with dhatri swarasa
- Tiktaka kashya
- Tiktaka & Mahatikta kashayas are useful in correcting the action of rasa dhatwagni (fire of rasa tissue), thereby helping proper formation of dhatu. Similarly; Mahatiktaka ghrita can also be used.
- Trayantyadi kashaya
- Kanchnar Guggulu
- hypothyroidism cases, traditional practitioners recommend using the powder of vacha, hingu, daruharidra, and jatamansi & shweta shankhapushpi.

Disscussion:

Thyroid disorders are hormonal comprising disorders, of group symptoms involving different systems of There is no direct reference available about anatomy, physiology and pathogenesis of Thyroid gland & its disorders in ayurvedic classical texts.

Hence there was an intense need to clarify the subject with Ayurvedic perspective. The same has been done successfully by comparing the symptomatology of Thyroid disorders mentioned in modern medical books to that of Ayurveda terminology.

Conclusion:

Hence Ayurveda always stress that if you won't find the name of particular disease in texts, in such a situation fit all the symptoms of that disease in its basic principles and then only treat as per Avurvedic principles of treatment. So it can be concluded that Ayurvedic system of medicine can also provide a relief to the patients suffering from Thyroid disorders and patient can take benefits of Ayurveda medicines for healthful longevity.

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