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Management of Sub-Clinical Hypothyroidism through Ayurveda- A Case Report.

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ABSTRACT:

Subclinical hypothyroidism is characterized by elevated thyroid-stimulating hormone (TSH) levels with normal free thyroxine (T4) levels, usually present no symptoms. general complaints like fatigue, weight gain, and cold intolerance maybe seen.in Ayurveda, this condition can be linked to imbalances of the Kapha and Vāta doṣa, while Pitta playing a role in specific symptoms. The management of subclinical hypothyroidism in āyurveda focuses on restoring hormonal balance through diet, lifestyle changes, herbal medicines, and Pañcakarma therapies and yoga. In This case report discusses the Ayurvedic management of a 30-year-old male presenting with symptoms like loss of appetite, fatigue, heaviness in the body, and intolerance to cold. After detailed assessment, the patient underwent Pañcakarma therapy along with medications, dietary adjustments, and lifestyle modifications. Over a 90-day treatment period, the patient showed significant improvement in symptoms and lab parameters, including a normalization of TSH levels. Ayurvedic treatments, including dīpana (digestive stimulants) and pācana (digestive therapies), along with Abhyamga (oil massage), were effective in alleviating symptoms related to Āma doṣa (toxin accumulation). The patient's overall vitality improved, and no fresh complaints were reported during the follow-up period. This case supports Ayurveda's potential as an effective approach in managing subclinical hypothyroidism. Further studies on larger populations are suggested to validate these findings.

Introduction:

Subclinical hypothyroidism is a condition in which the thyroid gland becomes underactive but does not cause obvious clinical signs. Subclinical hypothyroidism is usually diagnosed when a blood test shows free thyroxine (T4) within the normal range but thyroid-stimulating hormone (TSH) levels are elevated¹. Although some symptoms such as fatigue, weight gain, mood swings, and intolerance to cold may appear in an individual, there are no obvious symptoms of the disease. *āyurveda* considers this disorder to be caused by an imbalance in the *Kapha* and *Vāta doṣa*, with some involvement of Pitta in the specific symptoms.² *āyurveda* manages the hormonal balance through medication, diet, lifestyle changes and *yoga*. Worldwide, it affects between 4% and 10% of the general population, and the annual progression rate is 4% to 5%. Women, particularly postmenopause, are more affected than men, with a female-to-male ratio ranging from 2:1 to 8:1 and prevalence rates in women between 8% and 10%. In view of the age factor, older adults, especially over 60, show a prevalence between 6% and 20% but are rare in children. Geographically, iodine-deficient areas show higher rates. Special populations like pregnant women (2%–5% prevalence) and individuals with autoimmune thyroiditis, diabetes, or other comorbidities are more prone to disease. for the progression to overt hypothyroidism include TSH levels above 10 IU/mL, the presence of anti-TPO antibodies, and a positive family history to thyroid disorders.³

Patient information:

A 30-year-old male patient came in OPD with complaints of loss of appetite, generalised weakness, fatigue, burning sensation in abdomen, heaviness in body, feeling of mild fever, and intolerance to cold exposure. He had been suffering from these complaints for a year but not reported them to any healthcare system. There was no previous history of diabetes, hypothyroidism, hypertension, asthma, or tuberculosis. but was positive family history. History revealed that he has a sedentary lifestyle, frequent day sleep, and 1-3 times/week fast food and hotel food consumption. His appetite was not so good, the bowel was not proper, occasionally he suffered from unsatisfactory evacuation, urine was normal in frequency, and sleep was disturbed. He usually sleeps late at night, around 1-3 AM.

¹ Surks, M. I., & Ortiz, E. (2006). "Subclinical thyroid disease: Scientific review and guidelines for diagnosis and management." *JAMA*, 291(2), 228-238

² Pole, S. (2013). Ayurvedic Medicine: The Principles of Traditional Practice. Elsevier Health Sciences.

³ Vanderpump, M. P. J. (2011). "The epidemiology of thyroid disease." British Medical Bulletin, 99(1), 39-51

on general examination, observed made that Agni was found Mamda (weak), Kostha was mṛdu. Bala (strength) was found to be Alpa (less) and śarīrika Prakṛti (body constitution) was dominance of Kapha-Vāta. After history taking, he was advised biochemical investigations, CBC, erythrocyte sedimentation rate (ESR), lipid profile, and thyroid profile. His ESR and S. TSH were found raised and lipid profile deranged.

On march 7, 2024, the patient was come in OPD, he advised prior to oral medication performing whole-body oleation (*abhyanga*) for the 7 days, for *koṣṭha Shuddhi Eraṇdabhṛst harītaki* advised before sleep. *Dhānyaka Siddha Jala* (medicated water) for whole days. *Dashmūla kvāth* 50ml BD empty stomach, a combination of *copacīnī Curṇa* 3 g, *punarnava mandūra* 250 mg, and *akīk pisṭī* 125 mg BD advised after food.

After assessing the Bala (body status) of the patient, he was advised to take Mudgayūṣa (soup made of green gram) for lunch and dinner.

After completion of treatment, tests were performed for thyroid function and lipid profile, CBC, and ESR.

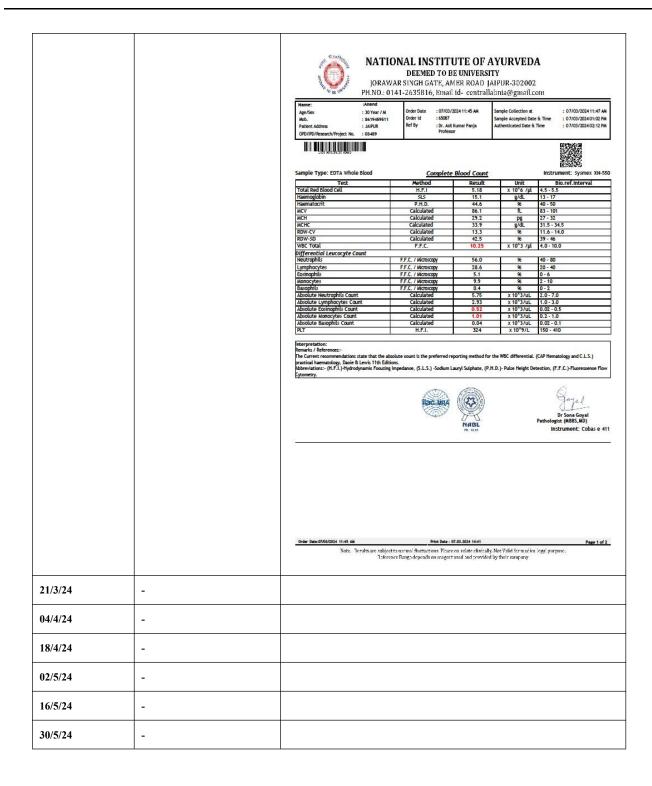
Duration	Consequences
visited NIA OPD on 07/3/2024	loss of appetite, generalised weakness, fatigue, burning sensation in abdomen, heaviness in body, feeling of mild fever, and intolerance to cold exposure.
• Follow-up at 15 days	Improvement in fatigue & sleep
• follow-up at 30th day	Appetite slightly improved, bowel motion improved.
• Follow-up at 45th day	Burning sensation slightly persist
• Follow-up at 60th day	No fresh complaints.
• follow-up at 75th day	No fresh complaints
• follow-up at 90th day (6/6/2024)	No fresh complaints

Follow-up- Laboratory tests were conducted after two to three months to reassess the patient's condition, and the patient was advised to visit the hospital every two weeks. There was an uneven follow-up period. on repeating the thyroid profile, which revealed a trend of restoration to normalcy, he did not report any complaints.

Complaints	Intervention	Duration		
loss of appetite, generalised weakness,	Dhānyaka Siddha Jala (5gm in 3 Liter water reduce to 2.5 litre)	15 days		
fatigue, burning sensation in abdomen, heaviness in body, feeling of mild fever,	copacīnī Curṇa 3 gm BD			
and intolerance to cold exposure.	akīk pisţī 125mg BD			
	pun <i>arnava mandūra</i> 250mg BD			
	Dashmūla kvātha 50ml BD empty stomach			
	Eraṇdabhṛst harītaki 5gm HS			
	Pañcakarma therapy- sarvasarīra abhyamga for 7 dyas.			
loss of appetite, generalised weakness,	Madhusnuhī rasāyana 10gm od in morning.	15 days		
burning sensation in abdomen and intolerance to cold exposure.	Other same medicine			
	Pañcakarma therapy- Siroabhyanga with kṣīra balā taila.			
burning sensation in abdomen,	copacīnī Curṇa 3 gm BD	15 days		
intolerance to cold exposure	akīk pisţī 125mg BD			
	punarnava mandūra 250mg BD			
	Pravāla pistī 125mg BD			
Sore throat, cough	Stopped all previous medicine	15 days		
	Sitopaladi curna 3gm BD			
	Godantī Bhasma 250mg BD			
	Gojivadi kvatha 50 ml BD empty stomach			

No fresh complaints	copacīnī Curṇa 3 gm BD	15 days
	akīk pistī 125mg BD	
	punarnava mandūra 250mg BD	
	Dashmūla kvātha 50ml BD empty stomach	
	Eraṇdabhṛst harītaki 5gm HS	
No fresh complaints	Madhusnuhī rasāyana 10gm od in morning.	15 days
	Kācanāra tvaka Extract 1000mg Cap. 1 OD	
No fresh complaints	Madhusnuhī rasāyana 10gm od in morning.	15 days
	Kācanāra tvaka Extract 1000mg Cap. 1 OD	
No fresh complaints	Madhusnuhī rasāyana 10gm od in morning.	15 days
	Kācanāra tvaka Extract 1000mg Cap. 1 OD.	

Follow-up date	Investigation advised	Lab. Investigation reports
7/3/24	CBC, ESR, LIPID PROFILE, THYROID PROFILE	NATIONAL INSTITUTE OF AYURVEDA DEEMED TO BE UNIVERSITY JORAWAR SINGH GATE, AMER ROAD JAIPUR-3D2002 PH.NO.: 0141-2635816, Email id-centrallabmia@gmail.com Name
		Sample Type: Serum <u>Lipid Profile</u> Instrument: COBAS C 311
		Test Method Result Unit Bio.ref.Interval
		TOTAL CHOLESTEROL Enzymatic 205.1 mg/dL Desirable: < 200 Dorderline: 200 - 239 High: > 240
		HOL CHOLESTEROL Homogeneous enzymatic 34.7 mg/dL No Risk: > 55 Moderate Risk: 35 - 55 High Risk: < 36 - 55 High Risk: < 38 - 55
		LDL CHOLESTEROL Homogeneous entrymatic colorimetric assay mg/d. Optimal: c: 100 Mear optimal: 100 - 129 Borderline High: 130 - 159 High: 100 - 189 Yery High: 130 - 159
		VLDL CHOLESTEROL Calculated 37.28 mg/dL Up to 80
		TOTAL CHOLESTEROL : HDL Calculated 4.67 3 - 4 : 1 CHOLESTEROL RATIO
		Becrease: MaIntrition, Hyperthyroidism, Hyperparathyroidism, malabsorption syndrome. TOTAL CHOLESTEDU. Increase: Pregnancy, Obesity, Smoking, Alcohol, Renal Failure, Hypothyroidism. Becrease: Acute illnesses such as heart attack, Mainutrition, Liver disease, Myeloproliferative diseases, Chronic anaemias, infection, and stress. SID. CHOLESTEDU. Increase: Hyperalphalioproteinemia, Regular physical activity or exercise, Weight loss, Chronic liver disease Decrease: Uncontrolled diabetes; Hepatocellular disease, Chronic renal failure, nephrosis, uremia, Cholestasis Dr. Sons Goyal Pathologyst (MBBS, MD)
		Order Date of Anna State Office on the State Office of Anna State Office



06/06/24

CBC, ESR, LIPID PROFILE, THYROID **PROFILE**



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Name Age/Sex Mob. Patient Address OPD/IPD/Research/Project No.	: 30 Year / M : 8619459511 : JAIPUR : 03489	Order Date Order Id Ref By	: 06/06/2024 11:45 AM : 65087 : Dr. Acit Kumar Panja Professor	Sample Collection at Sample Accepted Date & Time Authenticated Date & Time	: 06/06/2024 11:47 AM : 06/06/2024 01:02 PM : 06/06/2024 02:12 PM
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Sample Type: EDTA Whole Blood	Complete Blood Count		Instrument: Sysmex XN-550		
Test	Method	Result	Unit	Bio.ref.Interval	
Total Red Blood Cell	H.F.I	5.3	x 10°6 /µl	4.5 - 5.5	
Haemoglobin	SLS	14.4	g/dL	13 - 17	
Haematocrit	P.H.D.	37.5	96	40 - 50	
MCV	Calculated	84.4	fL	83 - 101	
MCH	Calculated	31.3	Pg	27 - 32	
MCHC	Calculated	34.2	g/dL	31.5 - 34.5	
RDW-CV	Calculated	13.4	96	11.6 - 14.0	
RDW-SD	Calculated	44.6	96	39 - 46	
WBC Total	F.F.C.	7.46	x 10^3 /µl	4.0 - 10.0	
Differential Leucocyte Count	-	20.1001		•	
Neutrophils	F.F.C. / Microscopy	56.0	96	40 - 80	
Lymphocytes	F.F.C. / Microscopy	28.6	96	20 - 40	
Eosinophils	F.F.C. / Microscopy	5.1	96	0-6	
Monocytes	F.F.C. / Microscopy	9.9	96	2 - 10	
Basophils	F.F.C. / Microscopy	0.4	96	0 - 2	
Absolute Neutrophils Count	Calculated	5.75	x 10*3/uL	2.0 - 7.0	
Absolute Lymphocytes Count	Calculated	2.93	x 10 ³ /uL	1,0 - 3,0	
Absolute Eosinophils Count	Calculated	0.49	x 10^3/uL	0.02 - 0.5	
Absolute Monocytes Count	Calculated	1.00	x 10*3/uL	0.2 - 1.0	
Absolute Basophils Count	Calculated	0.03	x 10*3/uL	0.02 - 0.1	
D. T.	11.61	004		150 410	









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Discussion: Treatment of disease should be by addressing the underlying imbalances of doṣa, duṣya, and agni. The therapeutic strategy includes the use of nidāna parīvarjana (removal of causative factors) by dietary and lifestyle modification, medicines (śamśamana cikitsā), and Pañcakarma therapies, all aimed at restoring the body's doṣa, duṣya balance, and agni vardhan cikitsā, improving thyroid function.

Conclusion:

The patient in the present case study had no other main complaints related to hypothyroidism except poor appetite and constipation, fatigue, intolerance to cold. Keeping in view the concept of ama dosha, Samśamana Cikitsā was chosen for the treatment with Dīpana Pācana as the main therapy.

4Abhyamga was prescribed for the correction of Rasa Dhātu and the patient found that the symptoms related to the āma doṣa disappeared after Dīpana, Pācana and Pitta śamaka Cikitsā and the patient's appetite improved, body became lighter and other problems also disappeared and the hormone levels improved in the blood test. Keeping this in mind, the patient was continued with the treatment. In the meantime, he also got a cold for which symptomatic treatment was done and there was improvement. For a few days, the patient did not complain of anything and the hormone levels became normal. The patient was kept under observation for 45 days but the patient did not show any complaint. This shows that Ayurveda treatment can be an effective treatment for all clinical cases. This study was done on a newly diagnosed case and was found to be effective. To validate the findings, many such studies should be done on older cases and on a larger sample.

Declaration of patient consent

The data obtained from the patient was filled in with consent from the patient consent form. In the form, the patient has given his consent for his images and other clinical information to be reported in the journal. The patient understands and agreed that name and

Other confidential details will not be published, and due efforts will be made to conceal identity.

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⁴ Sushruta Samhita, Sutra Sthana, 46/462 Ashtanga Hridaya, Sutra Sthana, 13/25-29 Bhavaprakasha, Purva Khanda, Chapter 7