Clinical Evaluation of Mizaj (Temperament) in Patients of Hypothyroidism

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Abstract

Unani system of medicine is based on the theory of Mizaj and Akhlat which is considered as the basics of Unani therapeutics. Mizaj is defined as the admixture of four humours (Akhlat), the quantity and quality of which determines the particular Mizaj of an individual. Every individual has its own unique Mizaj (temperament), hence reacts to various internal and external stimuli viz.air, water, diet, drug, climate, emotions, body reactions etc. differently according to temperament. Hence, Mizaj plays an important role in diagnosis and treatment of any disease. Since, Hypothyroidism is considered as one of the most common endocrine disorders in which patient has somnolence, fatigue, cold intolerance, constipation, loss of libido, gain in weight etc. According to the classical texts of Unani Medicine, it is the concentration, quality and quantity of humours which forms the base and cause of health and disease in an individual. As per Unani doctrine, Mar’d (Disease) is caused either due to Su’ Mizaj (abnormal temperament), Su’tarkib( abnormal composition/structure) or Taffaruk Ittesal (discontinuity). This study was conducted at Regional Research Institute of Unani Medicine, University of Kashmir, Srinagar Jammu & Kashmir to evaluate the Mizaj (Temperament) of patients of Hypothyroidism. Out of 60 patients enrolled for the study, 52 (86.6%) were Balghami, 03 (5%) were Damwi, 05 (8.3%) were Safdawi and none was of Sawdawi Mizaj. Thus, it was evident that Hypothyroidism is more common in Balghami Mizaj patients.

Keywords: Mizaj, Humours, Unani, Hypothyroidism, Mar’d, Temperament.

INTRODUCTION

Hypothyroidism in the simplest terms can be defined as deficient production of thyroid hormone. Primary hypothyroidism indicates decreased secretion of thyroid hormone by factors affecting the thyroid gland itself. A decrease in serum concentrations of thyroid hormone causes an increased secretion of Thyroid Stimulating Hormone (TSH), thus resulting in elevated serum TSH concentration [1-9].

The incidence of Hypothyroidism in India has a female to male ratio of 6:1.

The thyroid gland secretes two significant hormones, thyroxine and triiodothyronine commonly called as T4 and T3 that has the profound effect of increasing the metabolic rate of the body [10-13].

Hypo secretion of thyroid hormone decreases all the physiological activity of the body and causes loss of appetite, constipation, decreased heart rate, decreased respiration, weight gain, somnolence, loss of libido, menorrhagia, etc. which closely resemble with the symptoms and signs of su’ mizaj barid (impaired cold temperament) of Unani system of medicine [14-21].

Hypothyroidism can affect all organ systems, and these manifestations are largely interdependent of the underlying disorder but are a function of the degree of hormone deficiency. The clinical features include somnolence, fatigue, weight gain, cold intolerance, loss of appetite, constipation, hoarseness of voice, loss of libido, menorrhagia, polymenorrhaea, dyslipidaemia, polyarthalgias, myalgias, decreased reflexes etc [1, 22, 23-33].

Classical texts of Unani medicine have not described qillatt-i-ifraze darqia (hypothyroidism) directly, but the clinical features resemble with the symptoms and signs of Su’Mizaj Barid/Su’ Mizaj Balghami (impaired cold temperament/impaired...
The above discussed symptoms and signs of su'-mizaj barid /su'-mizaj balghami (impaired cold temperament/impaired phlegmatic temperament) somehow resemble with the clinical features of hypothyroidism described in modern medicine.

In this context, a hypothesis was drawn that su'-mizaj barid /su'-mizaj balghami (impaired cold temperament/impaired phlegmatic temperament) may be interpreted with the clinical features of hypothyroidism using modern scientific parameters.

OBJECTIVES OF THE STUDY
The objectives of the study are:

- To know the Mizaj of patients of Qillat-i-Ifraze-Darqia Ibtidai (Primary Hypothyroidism).
- To evaluate the role of Mizaj in the patients of Qillat-i-Ifraze-Darqia Ibtidai (Primary Hypothyroidism).

METHODOLOGY
The study was conducted on a sample size of 60 patients in the Deptt. Of Moa’lajat, Regional Research Institute of Unani Medicine Srinagar Jammu & Kashmir from November 2018–February 2019. The criteria for selection of patients was by history taking, clinical examination and investigations.

Inclusion Criteria
- Clinically diagnosed patients of Hypothyroidism.
- Sex-Male, Female, Transgender.
- Patient in age group of 20 to 60 years.
- Willingness to sign the informed consent, follow the protocol and participate in clinical trial voluntarily.

Exclusion Criteria
- Patients below 20 and above 60 years.
- Pregnancy and Lactation.
- Patients on iodine containing vitamins or minerals.
- Patients who have undergone thyroid surgery, taken radioactive iodine therapy.
- Diabetes mellitus.
- Renal dysfunction.
- Patients who fail to give consent.
- All complicated cases of hypothyroidism.
- Liver diseases.
- Gastrointestinal diseases (Peptic ulcer disease).
- IHD and hypertension.

The source for selection of cases was the Out-patient department of RRIUM Srinagar. History and clinical examination was the basis for enrolling patients for the study. Patients were asked complete history, present and past and general physical and systemic examinations were carried out. Specially designed case record forms were used for the recording of the details of the patients which included name, age, sex, address, occupation, marital status, socio economic status, dietary habits, educational background, income, chief complaints, history of present illness, past history, family history, treatment history etc. General examination include pulse, BP, temperature, respiratory rate, build, skin, hair, tongue, eyes, nails, legs and feet etc. Systemic examination was carried out to rule out any involvement of that particular system.

Particular attention was given to know about past history of other diseases like, diabetes mellitus, hypertension. Addison’s disease, Cushing’s-syndrome, PCOS, IHD, phaeochromocytoma, liver, kidney, spleen, intestinal diseases, etc. After history taking, a complete general and systemic examination was done for any findings.

INVESTIGATIONS
A set of investigations were carried out in all patients to include or exclude from the study and to assess the efficacy and effect of test and control drug on different parameters which included:

- Complete Blood Counts (CBC).
- Erythrocyte Sedimentation rate (ESR).
- Fasting Blood Sugar (FBS).
- Lipid Profile.
- Liver Function Test (LFT).
- Kidney function test (KFT).
- Urine examination.
- E. C. G.
- Thyroid function test (TSH, T4, T3).

All the above mentioned investigations were carried out in all patients the before the commencement of the study and after the completion of the study.
CONSENT OF THE PATIENT

Before enrolling the patients for the study, every patient was provided a set of specially designed Information Consent Form (ICF) which included all the relevant information about the study with all the options to ask any query regarding the study.

ASSESSMENT OF MIZAJ (TEMPERAMENT)

Temperament of each patient was assessed as per the specially designed questionnaire format prepared by Central Council for Research in Unani Medicine (CCRUM), Ministry of AYUSH, Govt. of India.

PARAMETERS | DAMVI (Sanguine) | BALGHAMI (Phlegmatic) | SAFRAVI (Bilious) | SAWDAWI (Melancholic)
---|---|---|---|---
COMPLEXION | Ruddy (Reddish/wheaty/brown) | Chalky (Whitish) | Pale (Yellowish) | Purple (Blackish)
| | 1 | 0.75 | 0.5 | 0.25
BUILT | Muscular & Broad | Fatty & Broad | Muscular & Thin | Skeletal
| | 1 | 0.75 | 0.5 | 0.25
TOUCH | Hot & Soft | Cold & Soft | Hot & Dry | Cold & Dry
| | 1 | 0.75 | 0.5 | 0.25
| | 1 | 0.75 | 0.5 | 0.25
MOVEMENT | Active | Dull | Hyperactive | Less Active
| | 1 | 0.75 | 0.5 | 0.25
DIET (Most Liked) | Cold & Dry | Hot & Dry | Cold & Moist | Hot & Moist
| | 1 | 0.75 | 0.5 | 0.25
WEATHER (Most Suitable) | Spring | Summer | Winter | Autumn
| | 1 | 0.75 | 0.5 | 0.25
SLEEP | Normal (6-8 hrs.) | In excess | Inadequate | Insomnia
| | 1 | 0.75 | 0.5 | 0.25
PULSE | Normal (70-80/min) | Slow (60-70) | Rapid (80-100) | Slow (60-70)
| | 1 | 0.75 | 0.5 | 0.25
EMOTIONS | Calm & quiet | Nervous | Angry | Nervous
| | 1 | 0.75 | 0.5 | 0.25

RESULTS AND OBSERVATION

On assessment of Mizaj of patients of Hypothyroidism by specially designed format, the result showed that out of 60 patients enrolled for the study, 52 patients were balghami mizaj (86.6%), 05 patients were safravi mizaj (8.3%), 03 were damvi mizaj (5%) and none of the 60 patients enrolled for the study was sawdawi mizaj. Hence, it became evident that Hypothyroidism is a balgham mar’d (Phlegmatic disease) and it mostly affects people with barid wa ratabb mizaj (cold and moist temperament).

| Table-1: Showing age of patients (%) in Hypothyroidism N=60 |
|---|---|---|---|
| S. No | Age in Years | Number | Percentage |
| 1 | 20-30 | 9 | 15 |
| 2 | 31-40 | 16 | 26.66 |
| 3 | 41-50 | 20 | 33.33 |
| 4 | 51-60 | 15 | 25 |
| TOTAL | 60 | 100 |

| Table-2: Showing Sex distribution in patients (%) of Hypothyroidism N=60 |
|---|---|---|---|
| S. No | SEX | Number | Percentage |
| 1 | Male | 13 | 21.66 |
| 2 | Female | 47 | 78.33 |
| TOTAL | 60 | 100 |

| Table-3: Showing Mizaj in patients (%) of Hypothyroidism N=60 |
|---|---|---|---|
| S. No | Mizaj | Number | Percentage |
| 1 | Balghami | 52 | 86.6 |
| 2 | Damvi | 3 | 5 |
| 3 | Safravi | 5 | 8.3 |
| 4 | Sawdawi | 0 | 0 |
| TOTAL | 60 | 100 |

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