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 Safravi 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.

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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 triodothyronine 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, polymenorrhea, dyslipidaemia, polyarthalgias, myalgias, decreased reflexes etc [1, 22, 23-33].

Classical texts of Unani medicine have not described gillatt-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...
phlegmatic temperament) which has been discussed in
classical texts in detail. As per the fundamentals of
Unani system of medicine, Mar’d (disease) occurs due
to Su’- Mizaj (impaired temperament), Su’-Tarkib
(abnormal composition/structure) or Tafarruq-i-Ittisal
(discontinuity). Su’-Mizaj (impaired temperament) has
again been divided into Su’-Mizaj Harr (impaired hot
temperament), Su’-Mizaj Barid (impaired cold
temperament) Su’- Mizaj Ratb (impaired moist
temperament), Su’-Mizaj Yabis (impaired dry
temperament). The clinical features of Su’-Mizaj Barid
(impaired cold temperament) include tahubbuj
(puffiness), kathra al-buzaq (excessive salivation),
kathra al-nawm (excessive sleep), kusul-wa-mandgi
(somnolence), du’f al-Ishtia (loss of appetite), kund
zehni (loss of intellectual functions), du’f al-bah (loss of
libido), nabd layyinn-wa-bati (pulsus mollis and pulsus
tardus) [14-21].

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,
occopation, 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
e 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
the 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) |
| BUILT               | Muscular & Broad  | Fatty & Broad         | Muscular & Thin   | Skeletal             |
| TOUCH               | Hot & Soft        | Cold & Soft           | Hot & Dry         | Cold & Dry           |
| HAIR                | Black & lusty thick. Rapid Growth. | Black & thin. Slow Growth. | Brown & Thin. Rapid Growth. | Brown & Thin. Slow Growth. |
| MOVEMENT            | Active            | Dull                  | Hyperactive       | Less Active          |
| DIET (Most Liked)   | Cold & Dry        | Hot & Dry             | Cold & Moist      | Hot & Moist          |
| WEATHER (Most Suitable) | Spring             | Summer                | Winter            | Autumn               |
| SLEEP               | Normal (6-8 hrs.) | In excess             | Inadequate        | Insomnia             |
| PULSE               | Normal (70-80/min)| Slow (60-70)          | Rapid (80-100)    | Slow (60-70)         |
| EMOTIONS            | Normal            | Calm & quiet          | Angry             | Nervous              |

Total =

Range of temperament in numbers
Sanguine: 7.5-10; Phlegmatic: 5.10-7.50; Bilious: 2.51-5.00; Melancholic: 0.00 – 2.50

- Damvi
- Balghami
- Safravi
- Sawdawi

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 balghami 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  | 5      | 8          |
| 3     | Safravi | 5     | 8.3        |
| 4     | Sawdawi | 0     | 0          |
| TOTAL |       | 60     | 100        |

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