Diagnostic Manifestations (*Istedlal wa Alamat*) of Anaemia (*Faqr al-Dam*) in Ancient Unani Literature - A Review

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DOI: https://doi.org/10.24321/2278.2044.202313

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How to cite this article:

Date of Submission: 2022-12-29
Date of Acceptance: 2023-02-08

ABSTRACT

Anaemia has a long history, as evidenced by 4,000-year-old bone samples from Thailand that showed advanced signs of the disease. Man has known the importance of iron in health and sickness since the dawn of humanity. Egyptians, Indians, Greeks, and Romans were among the first to use iron as a medicine. In the 17th century, iron was used to cure chlorosis (green disease), which was commonly caused by an iron deficiency. The molecule of haemoglobin requires iron to function properly. It is the most effective therapy for treating anaemia caused by a haemoglobin deficiency for over 2000 years. The aetiological factors (*Asbāb*), types (*Aqsaam*), pathophysiology, and clinical manifestation (*Istedlal wa Alȧmȧt*) of anaemia have been described in the Unani ancient literature which may be very useful for early diagnosis of anaemia. Data for this review article were collected from ancient Unani books and other manuscripts. It was found that there are several clinical manifestations (*Istedlal wa Alȧmȧt*) of *Faqr al-Dam* in ancient Unani literature that aid in the diagnosis and treatment of anaemia. This article may be quite helpful for the early diagnosis and treatment of anaemia through the Unani system of medicine.

Keywords: Anaemia (*Faqr al-Dam*), Aetiological factors (*Asbāb*), Clinical manifestation (*Istedlal wa Alȧmȧt*), Types (*Aqsaam*), Pathophysiology of anaemia, Prevention

Introduction

Ancient Unani physicians believed that derangement of the liver, *sū mizāj* and *Du‘f al-kabid* (weakness of hepatic faculties) or sometimes associated diseases results in impaired and improper production of blood causing anaemia.¹⁻³ The word *Sū‘al-Qinya* was coined by Ismail Jurjani (12th AD). *Sū* means defect and *Qinya* means treasure, therefore anaemia might be considered a treasury defect.⁴ Other vernaculars of anaemia stated by contemporary physicians are *Faqr al-Dam*, *Sū‘al-Qinya*, *Qillat-i-dam*, *khoon-ki-kami*, *khoon ki mohtaji* (ghareebi, nadari) and *Faṣād al-Dam*.⁵
The phrase Faqr al-Dam is a term that was coined in the 20 century. It means “shortage of blood”. The Arabic word “Sū’al-Qinya” refers to a shortage, change or deficiency of iron. According to the Unani system of medicine, Sū’al-Qinya is either caused by “Du’f al-jigar” (weakness of the liver) or by “Sū’-i-Mizāj” (a change in an individual’s temperament or temperament of the liver). Another terminology of anaemia in the Unani system of medicine is mentioned as “Ridhayate-dam,” which refers to changes in blood quality, such as concentration, odour, viscosity, temperature, and colour.6

Pathophysiology of Anaemia

According to Unani concepts, anaemia or Sū’al-Qinya occurs with either change in bodily mijaz (temperament) or when there is an abnormal humoral imbalance.7,8 Normal blood production requires proper vital power and functioning of vital organs related to digestion and elimination like stomach, kidneys, and spleen. When the liver’s function is disrupted as a result of a change in temperament, it has an impact on humour production, as well as its quality and quantity.9 It also impairs the Tabī’at Mudābbirā’i-s-ī-Badān (Medicatrix Natura) and also leads to a reduction in immunity.10

Classification of diseases in the Unani system of medicine is as follows:

Amrāḍ mufrada: Sū’ mizāj (temperamental disorder, especially of liver, with cold and wet temperament), sū’tarkeeb (derangement and disorder in formation) and tafarruq ittesal (malformation and disorder in attachment or connections especially in stomach, intestine, kidney, gall bladder etc.)

Amrāḍ murakkaba: Amrāḍ murakkaba implies when any two or more than two of these conditions are present at the same time.

Sū’ mizāj can be subdivided into sū’ mizāj sada and sū’ mizāj maddā. When temperament is altered from the physiological temperament, it can be sū’-i-mizāj sādā or sū’-i-mizāj maddā.11–14 The liver has a hot and moist temperament, and it is the body’s storehouse since food is metabolised in the liver and then changed into blood, which then nourishes the entire body.15,16 As a result, any change in its temperament will affect the quality and amount of akhlat (blood, dam). This alteration is known as Sū’al-Qinya. Furthermore, some Unani physicians described Sū’al-Qinya due to du’f al-kabid while others described it due to sū’ mizāj.17

Kabiruddin (1950 AD) further described Khizra (chlorosis) as a type of Soo-ul-Qinya, affecting women and described its aetiopathology as an alteration in the constituents of blood. He also added that the size of RBCs become small (microcytosis) and their red substance decreased (hypochromic) with increased fibrous material in the blood.5

Types of Anaemia in the Unani System of Medicine
1. Sawiul kurrivate (Normocytic anaemia)
2. Kurria kibriya (Macrocytic anaemia)
3. Fauladi (Hypochromic anaemia)18

Aetiological Factors (asbab)

The following causes of anaemia have been described in the Unani ancient literature:

Amrāḍ-i-kabid (Liver Disorders)

- Sū’-i-Mizāj-i-Kabid: Anaemia is caused by the weakness of the quwate muallide khoor, which is caused by the sū’ mizāj bārid of liver, which inhibits haemopoiesis; resulting in slow or impure blood formation and leads to anaemia.19
- Du’f al-Kabid: weakness of liver, leading to defective haemopoiesis, which in turn, results in defective cellular nutrition in liver, and leads to anaemia.20,6

Amrāḍ-i-ṭiḥāl (Splenic Disorders)

- Du’f al-ṭiḥāl ba sabab baroobat: It is the weakness of the spleen due to coldness. It leads to its enlargement, congestion (warm) profuse discharge of black bile from spleen and impaired absorption of black bile produced in the liver which may lead to anaemia.13,21

Amrāḍ-i-mi’da-o-am’ā (Gastrointestinal Disorders)

- Foṣad e medi (distemperament of stomach): Impaired function of the stomach may lead to anaemia.
- Du’f al-miḍa (weakness of stomach): Anaemia may be caused due to weakness in the stomach.22,6
- Darab-o-khilfa (frequent motions/ diarrhoea)19
- Didan al-am’ā (intestinal worms)23
- Mi’da ka amal-i- jarraḥī (GIT surgery)
- Qay’al-dam (blood in vomiting)
- Purana Qābz (old constipation)5
- Sū’-i-Mizāj (cold type)14

Amrāḍ-e-gurda (Kidney Diseases)

- Bawle-damvi (blood in urine)
- Warm-i-gurda muzmin (chronic inflammation of nephrons) also leads to anaemia.5

Acute Communicable Diseases

- Diqq-e-riwi wa digar sil (pulmonary coach and extrapulmonary tuberculosis)
- Acute haemolysis occurred in malaria5

Amrāḍ-i-aḍā’a-tanasul (Genital Disorders)

- Kasrat al-ṭamth (menorrhagia)10,23
- Ihtibās al-ṭamth (amenorrhoea)24,6,22
- Kasrat al-Jimā (excessive coitus)
- Jalaq (masturbation)23
- Usr al-ṭamth (dysmenorrhoea)
Improper Uses of Unani Drugs of draja-e-charraum (4th-grade Drugs of Toxicological Importance and Animal Poisons)

- Murakkab-e-Simab (compounds formulation with mercury)
- Safeda (Pb)
- Kasrat-e-sharab Noshi (alcohol abuse)
- Poisons from insect

Badhazmi (Indigestions)

- Middi (gastric)
- Kabidi (hepatic)
- Uraqi (vascular)
- Udwi (cellular)

Mutafarreqat (Miscellaneous)

- Nazf-al-dam (severe haemorrhage): As a result of Nazf-al-dam, the liver becomes cold and depleted of blood, which can lead to anaemia.
- Ghayr sihhat Bakhsh rehaish (unhygienic living conditions)
- Faqar-o-faq (poverty and starvation)
- Mitti khane ki aadat (calcium deficiency), especially in children
- Ghayr munazzam ghidhā (improper diet)
- Naqs-i-taghdhiya (malnutrition)
- Ghayr mammati mehnat-o-riyādat (extreme exertion and exercise)
- Tofaqurāt (anxiety)
- Malabsorption of faulad (iron)
- Lahmean ka naqse Taghdhiya (PEM)
- Ghayr tabai ‘ī tīhāi mikāniyāt (impaired metabolism of spleen)
- Zulkhasa (unknown aetiology)
- Nuqs e hayātān A, B12, and C
- Zauf-e-muallif dam (impaired haematopoietic weakness)
- Bad hadmi (dyspepsia)
- Ghayr mammoli harkat (over-activity)
- Nafsīyāt awaamil (psychogenic disorders)

Clinical and Diagnostic Manifestations (Istedlal wa Alāmāt)

Clinical manifestations of anaemia are described in the Unani system of medicine as follows:

- Pale and white colour of skin
- Swelling on face, eyelids, extremities or whole body
- Intermittent loose motion and constipation
- Feeling of air with fullness in stomach

Source of Data Collection

The data were collected from 21 ancient Unani books as well as other published research papers.

Conclusion

Anaemia is a widespread clinical condition that affects the vast majority of school-aged children, adults, women of childbearing age, and pregnant women. There are many diagnostic tests available in modern medicine in India, such as Mean corpuscular volume (MCV), Mean corpuscular haemoglobin (MCH), serum ferritin level, and so on, but the majority of the population in India is from low socioeconomic groups and may not be able to afford cost-effective diagnostic tests. There are several clinical manifestations (Istedlal wa Alāmāt) of Faqr al-Dam in the ancient Unani literature that help to diagnose and treat anaemia. Unani medicine promises a cure for anaemia without any adverse effects.

Funding

Books manuscripts and literature were available in NIUM Bengaluru and other libraries.

Acknowledgements

Dr Saferd Husain, Dr Ashfaque Ahmad, and Dr Chand Bibi collected the data and developed the idea for this article, as well as wrote and submitted the manuscript. Editing, guiding, and approval of the final draft and other contributions were done by Dr Arish Mohammad Khan Sherwani, Professor and HoD, NIUM Dept of TST (Community Medicine, NIUM Bengaluru), and Prof Dr Abdul Wadud, Director, NIUM Bengaluru, provided facilities for literature survey in NIUM Library. The authors are thankful...
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