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THE LIVER AS THE BODY'S MATBAKH (KITCHEN): A COMPARATIVE STUDY OF KABID IN UNANI MEDICINE AND HEPATIC FUNCTION IN MODERN SCIENCE

Dr. Uzma Rahat and Dr. Hina Tarranum Afridi

Associate Professor, Tashreeh ul Badan
AUMC and ACN Hospital Aligarh (U.P.) India
Associate Professor, Ilaj bit Tadbeer
AUMC and ACN Hospital, (U.P.) India

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ABSTRACT

This paper aims to explore the role of the liver, referred to as Kabid (liver) in Unani medicine, comparing its conceptualization and function in both Unani and modern biomedical sciences. The Kabid, often termed the "Matbakh" (kitchen) of the body in Unani medicine, plays a central role in digestion, metabolism, and detoxification. In modern science, hepatic function is equally revered due to the liver's vital role in metabolic regulation, toxin removal, and synthesis of biochemicals essential for digestion. By drawing parallels between the two systems of understanding, this paper attempts to create a bridge between traditional and modern medicine, focusing on the relevance of ancient concepts in the context of modern science. The study will also examine how the integrative approach can enhance liver health management.

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INTRODUCTION

The Kabid (liver) is considered one of the most crucial organs in both Unani and modern medical sciences. In Unani medicine, it is described as the central organ for metabolism and purification, much like the kitchen of the body where all processing of nutrients and toxins occurs (8, 7). Modern biomedical sciences mirror this understanding but with a more detailed physiological and biochemical perspective (3, 5). The Kabid's (liver's) functions in metabolic homeostasis, detoxification, bile production, and synthesis of critical proteins highlight its importance in overall health. This research paper aims to juxtapose these two perspectives, highlighting similarities, differences, and potential areas of convergence between Unani and modern biomedical understandings of hepatic function.

1. Unani Concept of Kabid

1.1 Digestion

Eminent Unani scholars, including Ibn Sina (Avicenna), Ibn al-Nafis, and Hakim Ajmal Khan, view the Kabid (liver) as the center of the second stage of hazm thani (digestion). In this stage, digested food is further processed in the Kabid (liver) to be converted into various essential components like dam (blood), bile, and nutrients that nourish the body (7, 11). These scholars emphasize the Kabid's (liver's) critical role in transforming and distributing nutrients, ensuring that balance and health are maintained within the body's systems.

1.2 Metabolism

The Kabid (liver) is regarded as the primary organ for processing the four humors (akhlaat): dam (blood),

*Corresponding author: *uzmarahat@gmail.com*

balgham (phlegm), safra (yellow bile), and sauda (black bile). The Kabid (liver) ensures that these humors remain in balance, a crucial aspect of Unani health philosophy (8, 14).

1.3 Detoxification and Blood Purification
Detoxification is another essential function attributed to Kabid (liver) in Unani medicine. Harmful substances in the blood are neutralized in the Kabid (liver) before they can cause harm to other organs (2).

2. Hepatic Functions in Modern Science
Modern medicine acknowledges the liver as a complex and multifunctional organ that plays a central role in:

2.1 Metabolism
In modern biomedicine, the Kabid (liver) is primarily responsible for carbohydrate, protein, and fat metabolism. It regulates blood sugar levels by storing glycogen and synthesizing glucose during fasting states (9, 10).

2.2 Detoxification
The Kabid (liver) metabolizes drugs, alcohol, and other toxins, transforming them into less harmful substances that can be excreted through urine or feces. This parallels the Unani understanding of detoxification (13).

2.3 Protein Synthesis and Bile Production
The Kabid (liver) synthesizes important proteins such as albumin, clotting factors, and enzymes. It also produces bile, which aids in the digestion and absorption of fats (12).

3. Comparative Analysis: Kabid and Hepatic Function

3.1 Metabolism in Unani and Modern Science
Both systems emphasize the Kabid's (liver's) central role in metabolism. However, while Unani focuses on humoral balance, modern science dives deeper into specific biochemical pathways. For example, the concept of glucose storage and release aligns with Unani's broader understanding of nutrient management by the Kabid (liver) (8, 12).

3.2 Detoxification Processes
Detoxification in Unani medicine, explained through the lens of humoral theory, corresponds with the modern understanding of hepatic detoxification. Both traditions acknowledge that Kabid (liver) dysfunction can lead to a buildup of toxins in the body, though modern science explains this in terms of enzyme activity and metabolic pathways (13).

3.3 Blood Purification
In Unani medicine, the Kabid (liver) filters impurities from the blood, akin to the modern biomedical understanding of its detoxification role. However, the physiological processes such as the action of the cytochrome P450 enzymes provide a more detailed modern explanation of this function (15).

4. The Importance of Integrative Approaches
Given the overlapping understandings of Kabid (liver) function in both Unani and modern biomedical sciences, integrating the two systems may provide comprehensive solutions for liver health. Traditional Unani treatments involving diet, herbal remedies, and lifestyle adjustments can be evaluated and combined with modern treatments for liver diseases, including hepatitis, cirrhosis, and fatty liver disease (7).

5. Conclusion
The Kabid (liver) holds a significant place in both Unani and modern medicine, serving as the body's central hub for metabolism, detoxification, and purification. While Unani medicine provides a holistic view of the liver's function based on humoral theory, modern biomedicine explains its roles in molecular and physiological terms. Integrating the wisdom from both traditions could provide more effective liver disease management strategies, respecting both ancient insights and modern advances.

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