CONCEPT OF HYPERLIPIDAEMIA IN THE LIGHT OF UNANI SYSTEM OF MEDICINE

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ABSTRACT

Hyperlipidemia is a term that encompasses various genetic and acquired disorders that describe elevated lipid levels within the body. Hyperlipidemia itself does not typically lead to critical symptoms itself; however, having this underlying pathology will often lead to serious illnesses that may ultimately lead to death. To lower morbidity and mortality rates associated with this disorder, it is critical to establish an early diagnosis and prevent the progression of the disease. Unani System of Medicine is familiar of management of hyperlipidemia by various methods. The present paper describes the concept of hyperlipidemia (Fart-e-Tadassum fid-dam) and management with reference to the Unani concept.

INTRODUCTION

The Concept of hyperlipidemia (Farte-e- Tadassum-Fid-Dam) is new and based on the biochemical changes in the blood i.e. distributed lipid metabolism and as a result there is increase concentration of lipids in blood.⁴ It is also known as hyperlipoproteinemia or dyslipidemia. It results either from increase in synthesis or decrease in degradation of lipoproteins, which transport cholesterol & triglycerides. ⁴ ⁵ There are two types of proteins, or lipoproteins that transport cholesterol to the cells: Low-density lipoproteins (LDL), or bad cholesterol, and high-density lipoproteins (HDL), or good cholesterol. LDL has damaging effects on health. HDL, however, counteracts the

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effects of LDL. HDL is good for health as it carries excess cholesterol back to the liver for excretion. The liver then eliminates cholesterol through bile. LDL that remains in the bloodstream damages health, because it allows excess cholesterol to build up in the blood. Triglycerides are another type of fat in the blood. They are not a type of cholesterol but have a strong association with heart disease.

In Unani system of medicine, renowned Unani scholar Abu Sahal Maseehi had given the concept of dosoomat-e-khoon (oily substance in blood). The Hippocrates, Razes, and Avicenna described the obesity (Saman-e-mufrit), which is due to the excessive phlegm (Khilt-e-Balgham).

A person can develop hyperlipidemia if they have one or a combination of the following:
- high LDL levels
- high HDL levels
- elevated levels of triglycerides
- The following table highlights the ideal cholesterol levels

<table>
<thead>
<tr>
<th>Overall cholesterol</th>
<th>Under 200 milli grams per deciliter (mg/dl)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL cholesterol</td>
<td>Men: More than 40 mg/dl</td>
</tr>
<tr>
<td></td>
<td>Women: More than 50 mg/dl</td>
</tr>
<tr>
<td>LDL cholesterol</td>
<td>Otherwise healthy people: Less than 100 mg/dl</td>
</tr>
<tr>
<td></td>
<td>People with heart disease or diabetes or poorly controlled risk factors: Less than 70 mg/dl</td>
</tr>
<tr>
<td>Triglycerides</td>
<td>Less than 150 mg/dl</td>
</tr>
</tbody>
</table>

ETIOLOGY: 
- Hyperlipidemia can be caused by some genetic abnormalities but it can also happen due to some other disorders that change the lipid metabolism of the body. One other main cause of hyperlipidemia is eating foods which contain high quantities of saturated fats, trans-fats and cholesterol. These fatty and oily foods can cause an increase in the levels of lipids inside the body resulting into hyperlipidemia.

- Most of the causes of obesity (Saman-e-Mufrat) described by ancient Unani physicians are very similar to the causes of hyperlipidemia (Farte-e-Tadassum-Fid-Dam)

1. Hereditary (Virasat, Khilqi): The obesity which is present in a family (genetic origin) is called hereditary obesity or primary obesity.

2. Exercise (Riyazat) & lifestyle: lack of exercise and sedentary lifestyle.

3. Diet (Ghiza): Use of excessive amount of carbohydrate, fat, and other dietary substances that produce excessive amount of Khilt-e-Balgham in body.

PHYSIOLOGY OF LIPIDS:
Unani scholars were familiar about the presence of fat (shaham) in blood, so they have mentioned elaborately regarding obesity. “Fat (shaham and sameen) is a white and very soft entity which is most of the times found along or around fascia and nervous tissues. Temperament of fat is cold”. Ibne Rushd says that “fat (shaham) is the metabolic waste product (fuzla) of mature blood (nuzuzyafta dam) from which different organs of body obtains their nutrition. Average quantity of fat (shaham) is a sign of health and low level indicates immaturity of blood (Adam pukhtagi of dam) or the person is undernourished and excess of fat is not good for health. Sheikh Ibn-e-Sina (980-1030AD) in “Al Qanoon fit- Tib” has described “Fat is formed from wateriness and greasiness of the blood and cold coagulates it. This is why heat dissolves it”.

Allama Kabeeruddin in his book “Ifaada-e-Kabeer Mufassal” has quoted Abu Sahel Maseehi about the production of fat in the body he says that: ‘Factor responsible for the production of fat in the body is coldness and this is the reason why fat is not found or found negligible in and around hot entities.

CLASSIFICATION OF FAT (SHAHAM):
According to Abu Sahel Maseehi (970-1010 AD) fat is of two types:
1. Sameen: It is soft, semisolid and has less property to solidify.
2. Shaham: It is hard and is found in the body adherent to kidneys.

“Both shaham and sameen are formed by that blood which has the property of ‘Dasoomat’ (meaning oily substance)
and their dilatation is essential for the supply of Ghiza (nutrition) and Rooh (oxygen supply) to Aaza. In obesity, excessive accumulation of Shaham (fat) in body and Balgham in blood causes “Imtilai Kaifiyat” (increase in vasopressor) which causes loss of vasodilatation of vessels and finally decreases the Hararat Ghareezia.

Clinical Features:  
- First time Hippocrates describe the clinical features & complications in these words “when a person becomes extreme obese, Imtilai-dam may lead to sudden death because of hemorrhage (due to rupture of vessels) or due to loss of Hararat. Obese persons are prone to other diseases as well as death because of Narrowing.
- In extreme obesity, dyspnea (tangiye tanaffus) as well as palpitation (Ikhtilaj-e-qalb) develops.
- Duration of any disease in obese person is more prolonged in comparison to healthy people.

USOOL-E- ILAAJ (PRINCIPLES OF TREATMENT)
- Following Principles are very important in the treatment of obesity as follows:
  1. Weight reduction
  2. Maintenance of healthy state (Baqa-e-Sehat)
  3. Taqleel-e-Ghiza (Low diet)
  4. Kasrat-e-Riyazat (Exercise)
  5. Ishal (Diarrhoea)
  6. Idrar-e-baul (Diuretic)
  7. Tareeq (Diaphoresis)
  8. Dalak-e-Khashin (Rough massage)
  9. Massage with Mohallil Roghaniyat

Razi has classified all these treatment broadly into three categories as:
- Taqleel Ghiza (decrease in food intake)
- Riyazat Kaseera (too much exercise)
- Ishaal wa Idraar (Diarrhoea and diuretic), Fasad (venesection) and Istifrag (evacuation)

ILLAJ BIL DAWA (DRUG THERAPY)
- There are a large number of single drugs (Adviamufrada) which have been used by various Unani physicians for the treatment of obesity (Samanemufrat) in the ancient unani literature e. g. “Ajwayin Khurasani (Hyoscyamus niger) , Ajwain Desi (Carum copticum), Filfil siyah (Piper nigrum), Kalonji (Nigella sativa), Khardal (Brassica nigra),Lahsun (Allium sativum), Luk Maghsool (Coccus lacca), Marzanjosh (Oliganum vulgare), Namak Lahori (Sodium chloride), Nana (Mentha arvensis), Sirka (Vinegar), Zeera kirmani (Carum carvi)

Murakkab Advia (Compound Formulations):

REFERENCES


