Anti-Aging Drugs in Unani Medicine

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Abstract

Aging is a process of gradual, progressive and generalized impairment of functions resulting in the loss of adaptive response to stress and in increasing the risk of age-related diseases. According to Unani concept, aging is the result of tahleel by Quwwatehadima that maintain balance or homeostasis. Geriatric care is mentioned in unani literature under the heading of tadabeermashaikh. The concept of protection of an organ, stimulation of Hararate-gharizia and augmentation of vital force of important organs is the distinguishing feature of Unani medicine. The concept aims at maintaining the vitality of organs by protecting it from untoward stimuli and strengthening it to be able to cope with the diverse physiological climate. A number of drugs like Amla, Zanjabeel, Garlic, Kalonji categorize to possess such effects are frequently used in unani medicine. Some of the drugs studied in recent years demonstrate promising effect.

Keywords: Unani medicine; Anti-aging drugs; Antioxidant activity

Introduction

According to Tibbeunani, the people of above 60 years of age are considered as mashaikh. Unani scholars were well aware about the aging process and categorize the mashaikh under abdanezaeefa [1]. According to modern theory, Aging is a process of gradual, progressive and generalized impairment of functions resulting in the loss of adaptive response to stress and in increasing the risk of age-related diseases [2]. While according to unani concept, aging is the result of tahleel by Quwwatehadima to maintain the organism in functional state and inadequate Compensation of tahleel by Quwwatehadima that maintain balance or homeostasis. Due to increased tahleel of ratoobat, Hararate-gharizia weakens because ratoobat, Hararate-gharizia provide matter for hararate-gharizia. Quwwatehadima also get weakened due to weakness in hararate-gharizia, ultimately resulting in decreased formation of akhlat and ratoobat, and decreased availability of the substitute of tahleel. Decrease in hararate-gharizia changes the mizaj to barid; gradual increase with age in baroodat results in decline of quwa (faculties) thereby afaal (functions) of the body. As all quwa requires hararat for performing afaal (function). Depravity of humours or dryness continues neutralizing the ratoobat of the body until the form ceases to have a capacity for life. Thus, healthy aging can be secured by the safeguarding of innate moisture from too rapid dissipation, and maintaining it at such a degree of strength that the original type of constitution peculiar to the person shall not change even up to the last moment of life [3-8]. A number of single and compound drugs like Amla, Zanjabeel, Asgandh, Garlic, Zafran, Kalonji, Tiriyaqwabai, Majoonfasfa etc. categorize to possess such effects are frequently used unani medicine and now are proven to have anti-oxidant and immunomodulator properties. Scientific studies revealed that, antioxidants drugs have definite role in the prevention of geriatric diseases (Table 1).

Recent Studies on Various Drugs

Tiriyaqwabai

It is anunani compound formulation, ingredients are Elva, Mur-makki and Zafran in the ratio of 2:1:1. A randomized placebo controlled trial was conducted at NIUM hospital, Bangalore. 30 immunocompromised elderly persons were selected and randomly assigned, 20 in test and 10 in control group. Tiriyaq Wabai (Unani compound formulation) was given to test group 500 mg orally three times a week for 45 days. Placebo was given orally to the control group at a dose of 500 mg three times a week for 45 days. Response was assessed by TLC, lymphocyte percentage, Absolute lymphocyte count and CD4 count. The test drug showed statistically significant increase in TLC (P<0.001), Lymphocyte percentage (P<0.001), ALC (P<0.001) and CD4 count (P<0.001) in comparison to control group [9].

Asgand (Withaniasomnifera)

In a double-blind clinical trial, ashwagandha was tested in a group of 101 healthy males, 50-59 years old, at a dosage of 3 grams daily for one year. A significant improvement in hemoglobin, red blood cell count, hair melanin, and seated stature was observed. Serum cholesterol decreased and nail calcium was preserved. Erythrocyte sedimentation rate decreased significantly and 71.4 percent reported improvement in sexual performance [10].

Amla (Emblicaofficinalis)

Vitamin C in EO accounts for approximately 45-70% of the antioxidant activity. The administration of ethyl acetate (EtOAc) extract of Amla or Sun Amla (Taiyo Kagaku Co., Ltd., Japan) reduced the elevated levels of urea nitrogen and serum creatinine in the aged rats. Oral administration of this extract significantly reduced thiobarbituric acid-reactive substance levels of serum, renal homogenate and mitochondria in aged rats, suggesting that Amla would ameliorate oxidative stress under aging. The increase of inducible nitric oxide synthase (iNOS) and cyclooxygenase (COX)-2 expressions in the aorta of aging rats were also significantly suppressed by EtOAc extract of Amla or Sun Amla extract. EtOAc extract of Amla or Sun Amla reduced the COX-2 and iNOS expression levels by inhibiting NF-kappaB activation in the aged rats. Thus Amla would be a very useful antioxidant for the prevention of age-related renal disease [11].

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Honey

Honey contains many minor components with antioxidant activity, among which are amino acids and proteins, carotenoids, phenolic compounds and flavonoids, ascorbic acid and organic acids. It has demonstrated that cysteine, together with the B group of vitamins, strengthens cellular membranes from external attacks. Recent studies have demonstrated that cysteine, together with the B group of vitamins, can bind toxic molecules formed by disease processes and create ineffective and harmless compounds [13].

References