

Review Article

Geriatric Care and Concept of Anti-Aging in Unani System of Medicine and Western Perspective: A Review

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Abstract

According to UnaniSystem of Medicine, human life (ages) is classified into four categories i.e. Sin-e-Namu, Sin-e-Shabab, Sin-e-KahulatandSin-e- Shaikhukhat (Mashaikh), which have own specific MizajandKaifiyat according to their age. Basically, when Kaifiyat changes; its leads to derangement of their Mizaj. When mizaj deviates from normal to abnormal path then, it causes changing in their ages chronically. For this, tahleel (diminished) RatoobatGhareeziya and HararateGhareeziya advocate the process of aging.UnaniAtibba described different types of regimes (tadabeer) for the care of mashaikh (i.e. Riyazat, Dalk, Hammam,Nutool, Hijama,Naghma, Safar, Fasd, Ghiza) and management through (Plant, Mineral and animal origin drugs) which delayed the process of aging. UnaniAtibba also mentioned the organ specific and generalized care. Specific care of an organ stimulates the vitality, which is responsible for the maintenance of HrarateGhareeziya. USM is the only system of medicine which also mentioned the organ specific treatment (i.e. immunomodulator, antioxidant and nootropic activity). Some Murakkabat which delayed the process of aging are ItriphalSagheer, ItriphalKabir, MajoonWaj,MajoonBladur,MajoonBarhami, Majoon Bolas, MajoonFlasafa, JawarishJalinus, TiryaqeFarooque, TiryaqyeWabai, ItriphalUstokhuddus.

Keywords: Anti-aging; Geriatric care; Mashaikh; Unanimedicine

Introduction

According to Unani System of Medicine, Human life is categorized into four stages viz; Sin-e-*Namu* (*Mizaj* is *HaarRatab* and ages upto 30 years), *Sin-e-Shabab*(*Mizaj* is *HaarYabis*and ages 30 to 40 years), *Sin-e-Kahulat*(*Mizaj* is *BaridYabis* and ages upto 60 years) and *Sin-e-Shaikhukhat*(*Mizaj* is *BaridRatab*and ages 60 years to onwards) [1].

Sin-e-Shaikhukhat is the period in which the lacking of quantity of *RatoobateGhareeziya* occurs and it is lesser than the quantity required for the preservation of *HararateGhareeziya* for the continuing the bodily normal metabolism and dominated by *RatoobateGhareebaBala* (abnormal metabolic products). In this period deterioration in the powers and faculties of the body is noticeable. *RatoobateGhareeziya* and *HararateGhareeziya* markedly reduced; hence the mizaj becomes *Barid* and *Ratab* [1-3].

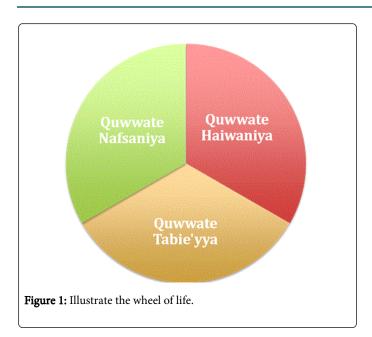
Aging is a universal biological process that leads to progressive and deleterious changes in organisms [4]. In western perspective of aging is "*a persistent decline in the age-specific fitness components of an organism due to internal physiological degeneration*" [5].

Anti-aging wisdom is definitely not a new research area but also cited by ancient Unani Scholars in their old classical text like, *Firdaus Al Hikmat*(810-895A.D), *Al Havi Fit Tibb*(850-923 A.D), *Kamil-us-Sana*(930-999 A.D), *Al-Qanoon*(980-1037A.D), *ZakheeraKhuwarzamShahi*(1041-1136A.D), *Al-Mukhtarat Fit-Tibb*(1121-1213A.D), *Kitab Al-Kulliyat*(1126-1198 A.D), *KulliyateNafeesi*(15thcentury A.D), *Al-Akseer*(1813-1902A.D). Nowadays, the meaning of anti-aging has been changed from simply prolonging lifespan to increasing health span, which emphasizes more on the quality of life [4].

Health is totally depending upon three faculties, which maintain the *HararteGhareeziya*and regulates the all functions of the body [1]. Basically life is a wheel which is composed of three spokes (faculties) i.e. *QuwwateNafsaniya*, *QuwwateTabie'yya*and *QuwwateHaiwaniya*(Figure 1). When disturbances occur in these three faculties it leads to degenerative changes and finally end of life. Initially when *QuwwateNafsaniya*; weak, it creates neurological associated problems such as *Nisyan*(Dementia), Alzheimer's disease and Parkinson's disease etc. *QuwwateTabie'yya*is responsible for production of pure humours and maintains balance of *RatoobateGhareeziya*and *HararateGhareeziya*. *QuwwateHaiwaniya* is responsible for circulation of blood and protects the body from free radicals. Free radicals also initiate the process of aging.

Pathology of Aging

Excessive use of those substances which are responsible for the production of phlegm (Milk, vegetables, *Hareesa*, Ice water), excessive use of sour foods (Curds, Tamarind, Pickles), excessive coitus, excessive *Hammam, Amrazemuzmina* (*SilwaDiq, Sartan, ZiabetusShakri, Siman-e-mufrit*), *AmrazeAsaab* (*Sara, Sarsaam, Sakta, Jamood, Falij, Istirkha*), mal-nutrition, geneticalcause,psychological cause, *Tafarruqwaittesal, Sue Mizaj, ZofeDimagh*, inadequate sleep [6-17].



Mechanism of Aging in Unani Perspective

RatoobateGhareeziyaplay key role for the equilibrium of HararateGhareeziya. When Quantity and quality of RatoobateGhareeziyachanged, it directly affects the HararateGhareeziya. Excess diminishing (tahleel) of HararateGhareeziyaaffects in two wavs i.e. (i) Dimnished HararateGhareeziyaleads to change in HuzoomeArba', if changing occurs in HuzoomeArba' then leads to abnormal humours or ratoobat which advocates the change in their Mizajwhich is prominent factor for aging and (ii) Dimnished HararateGhareeziyaalso diminished the power or faculties. Diminished powers unable to performs in proper function that is also promotes the process of aging [8,18-20]. According to author of Kamil Al-Sana'a, Ali Ibn Abbas Majoosi coated regarding death as "Death occurs in living organisms, when Fasaadoccurs in HararateGharizia(Figure 2)."

Preventive Measures of Aging

Avoid sharp and sour taste food items

Avoid excessive coitus

Drinking cold water is contraindicated immediately after coitus

Moderate exercise and massage regularly

Use of ZoodHazmand JayyadulKaimusGhiza

Eatfood with proper mastication

Avoid excessive Hammam

Avoid excess use of Charparidiets

Avoid cold drinks just early morning (Neharmunh)

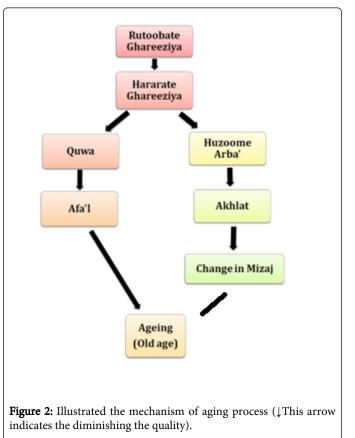
Daily use of GaramRoghaniyat(i.e.RoghaneAmla)- delayed aging

Daily consumption or intake of *ItriphalSagheer*, *MurabbaAm*la and *MurabbaZanjabeel*- delayed aging

Use of meats which prepared by aromatic spices like; *Qaranphal, Jaiphal, Javetry, ZeeraSiyah, Khulanjan, Sirka-* delayed process of aging

Use of Chuqandar with Rai- delayed process of aging

Avoid ArqeGhulab on face and head [6,19,21].



Management of Aging

Unani*Atibba*also mentioned the medicament, which delay the process of aging and balance the health are of three types viz; Plant origin, Mineral origin and an Animal origin(Tables 1 and 2). These drugs are mostly *Haarmizaj* exceptAmla(which has *BaridMizaj*) and most of the drugs have been proved as antioxidant, immune-modulator, nootropic, anticancer, free radical scavenging, Kaya Kalp/Rasayain/Aabe Hayat/Elixir of life/*Iksir-e-Badan*[6,11,22-44](Tables 3 and 4).

Common name	Botanical name	Family
Aakhrot	Juglansregia	Juglandaceae
AjwainKhurasani	Hyoscyamusniger	Solanaceae

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1		
AqarQarha	Anacyclus pyrethrum	Asteraceae
Amla	Emblicaofficinalis	Phyllanthaceae
Asgand	Withaniasomnifera	Solanaceae
Azaraqui	Strychnosnuxvomica	Loganiaceae
Badam	Prunusamygdalus	Rosaceae
BadranjBoya	Mellisaofficinalis	Lamiaceae
Balela	Terminalia <i>balerica</i>	Combretaceae
Barhami	Bacopamonnieri	Scrophulariaceae
Bhilavan	Semecarpusanacardium	Anacardiaceae
BhuiAmla	Phyllanthusamarus	Phyllanthaceae
Bisbasa	Myristicafragrans	Myristicaceae
Darchini	Cinnamomumzeylanicum	Lauraceae
FilfilDaraz	Piper longum	Piperaceae
FilfilSiyah	Piper nigrum	Piperaceae
Gaozaban	Boragoofficinalis	Boraginaceae
Gilo	Tinosporacordifolia	Menispermaceae
Halela	Terminaliachebula	Combretaceae
Injeer	Ficuscarica	Moraceae
Jadwar	Delphinium denudatum	Ranunculaceae
Jaiphal	Myristicafragrans	Myristicaceae
Jatamansi	Nardostachysjatamansi	Valerianaceae
KababChini	Pipebercubeba	Piperaceae
Kalonji	Nigella sativa	Ranunculaceae
Kalmegh	Andographispaniculata	Acanthaceae
Khulanjan	Alpinia galangal	Zingiberaceae
Kishneez	Coriandrumsativum	Apiaceae
Kundur	Boswelliaserrata	Burseraceae
Lahsun	Allium sativum	Amaryllidaceae
Mastagi	Pistacialentiscus	Anacardiaceae
Ood	Aquilariamalaccensis	Thymelaeaceae
Qaranfal	Syzygiumaromaticum	Myrtaceae
Qust	Saussurealappa	Asteraceae
Rehan	Ocimum sanctum	Lamiaceae
Saad Kofi	Cyperusrotundus	Cyperaceae
Sazajhindi	Cinnamomumtamala	Lauraceae
ShahmeHanzal	Citrulluscolocynthis	Cucurbitaceae

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Sibr	Aloe barbadensis	Xanthorrhoeaceae
Tahlab	Spirulinaplatensis	Cynobacteria
Tambol	Piper betle	Piperaceae
TukhmKarafs	Apiumgraveolens	Apiaceae
WajTurki	Acoruscalamus	Acoraceae
Zafran	Crocus sativus	Iridaceae
Zaitoon	Oleume <i>uropaea</i>	Oleaceae
Zanjabeel	Zingiberofficinale	Zingiberaceae
Zarnabad	Curcuma zedoaria	Zingiberaceae
Zarnab	Taxusbaccata	Тахасеае

Table 1:Drugs which are plant origin.

Unaniname	Scientific name
Fizza	Argentum
Momiyai	Asphaltum
Sammul Far	Arsenic
Salajeet	Asphalt
Yaqoot	Red carborandum
ZaharMohra	Serpentine
Zamarrud	Emerald
Zahab	Aurum

Table 2:Drugs which are mineral origin.

Unaniname	Scientific name
Ambar	Ambragrasea
Asl	Apisindica
Luloo	Mytilusmargaritifera
Marjan	Coralliumrubrum
Mushk	Moschusmoschiferous
Sadaf	Pinctadamargaritifera
Sartan	Scillaserrata

Table 3: Drugs which are animal origin.

UnaniMurakkabat (Compounds) names	
Anooshdaru	
Habb-e-Azaraqui	
ItriphalKabir	
ItriphalKishneezi	

ItriphalSagheer
ItriphalUstakhuddus
JawarishJalinus
KhamiraGaozabanAmbariJawaharwala
KhamiraGaozabanSada
MajoonAtyab
MajoonBarhami
MajoonBladur
MajoonFlasafa
MajoonWaj
TiryaqeFarooque
TiryaqeWabaee

 Table 4:Compound formulation.

Conclusion

Human body totally depends upon all three vital faculties (*QuwwateNafsani*a, *QuwwateTabie'yya* and *QuwwateHaiwania*) which acting as a spoke of life wheel. For continuous motion of this wheel, maintained by interpedently of each other like; *RatoobateGhareeziya,HararateGhareeziya*, humours, temperament, faculties, action. When derangement occurs, it leads deviation from normal to abnormal which advocate the process of aging. Unani*Atibba* intensely depicted process of aging and care of it in the caption of *TadabeereMashaikh*. The regimes and drugs (single and compounds) which described by Unani Scholars in their old classical text for management of aging which are now proved scientifically (antioxidant, immune-modulator, nephro-protective, Cardio-protective, hepato-protective, anticancer, nootropic activity etc.,) as delaying the process of aging and also promote to maintain the balance health.

Most of the neurodegenerative disorders are cross-linked with a number of aging-associated conditions (Dementia, Insomnia, Alzheimer's, Parkinson, ZofeDimgh, Falij, Laqwa, Istirka, etc). So, most of the nootropicmurakkabat (*MajoonBaulas, MojoonWaj,MajoonFalasafa, JawarishJalinus, Itriphalat*etc.) mentioned by Unani scholars in their text are rewarding delayed the process of aging. After the exhaustive literature survey for shaping this review article, it seems to be more reasonable for the direction of geriatric care panorama.

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