

# FALIJ ( PARALYSIS) - CAUSES AND TREATMENT, UNANI CONCEPT REVIEW

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### **Abstract:**

Falij has been a major topic in Unani literature since centuries. The aspects of diagnosis and treatment based on Usoole Ilaj have remained a hallmark in the management of Falij. The packaged treatment of Falij includes almost all modalities of treatment- Ilaj Bil Ghiza, Ilaj Bid Dawa, and even surgical intervention. Unani medicine has dealt the disease management in stepwise, rational manner.

The treatment strategies vary from the day patient seeks treatment and duration of the disease in the patient. Emphasizing on administration of Maul-Asal / usool in the initial days, munzij mushil therapy in the mid-course along with drugs for tabreed and taqwiyat administration in the later days is regarded as the standard treatment guideline for Falij. Along with this guideline rules related to Ayaame buhran which depend on the Mizaj of the person and the deranged khilt are taken into consideration for individualisation of the treatment is very evident. Since the treatment of any disease needs to be dealt keeping various features in view, so framing of usoole Ilaj has got paramount importance. The paper details the pharmacological basis of the treatment along with Usoole Ilaj of various phases of treatment delineating the Unani mechanism of action underlying each Afa'al (pharmacological actions) of Unani drugs.

**Keywords:** Falij, Unani drugs, Usoole Ilaj.

#### Introduction

The term *Falij* is derived from Arabic word "*Falaja*" means divide into two symmetrical part. Generally, word *Falij* is used for *Istirkha*. In particular, *Falij* means *Istirkha* or paralysis of half body from head to toe longitudinally. It has two types; one involves head and other spares it .Loss of movement, if developed in whole body is called *Istirkha* and if only one part is involved,





is known as Falij .Ancient physicians of Unani medicine were considering Falij as a disease in which one side of body is paralysed from head to foot. But according to Sahibe Kamil Falij is known as a disease in which one side of body excluding head is paralysed. Falij is sometimes referred as loss of both motor and sensory functions. The differentiation between these two functions is described by Ibne Rushed: "Often if any one of these functions (hissand harkat) is lost other is also lost, though it is not mandatory" as mentioned by Galen also.

## Causes of Falij

- Nazfe Dimaghi (Brain haemorrhage)
- Obstruction of arteries of brain or clotting of blood.
- Brain tumour
- Epilepsy
- Talayyune Dimagh (Softness of Brain)
- Chorea
- Hysteria

# Pathological Basis of Falij:

## According to Galen:

- (1) If posterior part of brain is injured Falije Nisfi (Hemiplegia) occur, if whole brain is injured saktah (Quadriplegia) occur.
- (2) If first part of *mabda-un-nukha* (spinal cord) is affected whole body is paralyzed, if one side of spinal cord is affected same side of body is paralyzed.
- (3) If both side of brain near spinal cord is affected *Saktah* (Quadriplegia) occur, if one side of Brain is affected *Falije Nisfi* occur.

Common cause of *amraze Asaab mizaji* or temperamental neurological disease is *buroodat*; either *buroodat* alone or associated with *Balgham*. *Sauda* is next to *Balgham* and *Safra* hardly causes neurological disease due to its fast dissolving nature .The dominance of *buroodat* and *rutoobat* in any organ often interrupts the sensory and motor functions. Buroodat is opposite to Mizaj of *Rooh*. Therefore, it produces *Takhdeer* or decline of sense in





Rooh. Rutoobat makes that organ blunt and insensitive .Besides dominance of Buroodat and rutoobat,

pathology in brain is also considered as a cause of movement disorders. According to *Ibne Sina* "loss or diminution of movement anywhere in the body is often because of lesion in the brain" .According to *Nafeesi* "if the *jarme urooq* (vessel wall) is *sulb* or hard and blood is in excess quantity, rupture may occur in brain or heart vessels causing haemorrhage. It does not happen in other organs of body" .The cause of *Falij* may be *Sudda*(any obstruction) in the course of nerves due to contamination of *Khilte Balghami Ghaleez* in

brain or neurons, compression or dislocation of spinal cord, injury to these structures and residual effects of acute diseases like Meningitis .Initially *Imtila* occurs in the part of *Butoone Dimagh* or Ventricles of brain, then suddenly it

is dissolved from there and these *Barid Balghami* wastes descends to either left or right side of the body, whichever side is weaker Usually occurs in elderly when their brains are occupied with *Khilte Barid* (cold humours) and suddenly they come in contact with either hot or cold temperature which melt this *Khilt*,

carrying it up to the root of nerves. Mostly this condition develops in persons with *Zaeef* (weakened) nerves.

*Usoole- Ilaj* of *Falij*:

Betterment of moakhar Dimagh: In all the diseases of nerves betterment of Moakhar dimagh is aimed primarily.

Taadeel-e Mizaj: Normalisation of Mizaj if only Kaifiyat is altered.

Tanqiyah: Elimination of causative matter if there is excess *khilt*. Sue-Mizaj Maddi is relieved by two courses; Istifraghe Mawad (elimination of causative matter) and Islahe Mizaj (correction of temperament). Sue- Mizaj Maddi is alleviated by drugs having Mulattif, Muqawi, Muarriq, Mulayyen, laxative and

Muddirre baul properties. For Istifraghe Mawad two methods are used: first is Fasad or Venesection while second includes using Mushil or purgative drugs, Muqi or emetic drugs and Huqnah mushilah]. It is mandatory to use Mulattif drugs e.g. Anisoon, Tukhme Shibat, Ajwain, Tukhme Karafs, Beekh Badyan, Beekh Karafs, Beekh Izkhar, Aslussoos etc. In joshanda (Decoction) with Gulqand daily morning and after 4th, 7th or 14th day Mushil is given.





Mushil regime: while using mushilat (purgatives) following things should be taken into account.

- Addition of *Mugawi Qalb* (heart tonic): to potentiate and stabilize *Roohe Haiwani*.
- Muddirrat (Diuretics) not to be used in major quantity as it hinders the effect of mushily.
- Causative material is *khilte balghami* so *munzije balgham* drugs having *talteef*, *Taqtee* and *Tehleel* properties to be used. Drugs like *turbud* and *ustookhoodus* are added for effective elimination.

Taqwiyat: following Tanqiyah potentiation is provided to nerves and body massage with HaarMizaj oils having Muhallil and Muqawie A'asaab actions, to dissolve the causative matter and potentiate the nerves.

## Drugs used according to usoole ilaj:

•For *Tadeele Mizaj*: Renowned Unani Physician *Zakariya Razi* (Rhazes 850-923 AD) advocated a prescription based on the principles of treatment (*Usoole Ilaj*). "The treatment has to be started with *Habbe Muntin* for *Tanqiyah* (containing *Ayarij Feqra* 3.5 g, *Shahme Hanzal*, *qunturiyoon Daqeeq*,

Usaara Qissul Hima, 1.75 g each, Farfiyun, Jund bedastar, Filfil, Hilteet,Sakbeenaj, jaosheer, Sheetraj Hindi, Khardal 0.35 g each

with Aabe Suddab and any of Samaghiyat) for one day following massage with Roghane Qust, and orally Maul Asal and 7gm of Balazri (containing Zanjabeel, Aaqar Qarha, Shoneez, Qust, Filfil, Dare filfil, Waj 10 parts each, Barghe Suddab khushk, Hilteet, Juntiyana, Zarawand, Habbul ghaar, Junde bedastar, Sheetraj, Khardal and Baladur 5 parts each fried with Roghane Akhrout, with

Asale khalis and Samaghiyat) for three days to be used for Tadeele Mizaj and this treatment cycle is to be given 10 times".

•For Talteefe Mawad: In first seven days Gulqand + Maul buzoor or Gulqand + Maul usool is preferred.

Maul Buzoor: Aneesoon, Soya, Ajawain desi, Tukhme Karafs.

Maul Usool: Beekhe Badayan, Beekhe Karafs, Beekhe Izkar, Beekh Aslusoos.

•For Tanqiyah Mawad: No mushil should be given in initial stage of treatment, as Allama Nafeesi said "Mawad of falij is raw, not suitable for effect of mushil drugs and not able to excrete. If Mushil drug is given these raw matters become active and may be dangerous". So, after Talteefe Mawad and





Nuzj, elimination of causative matter is done with Mushil (Purgatives) drugs like Soya, Murznajosh, Nakhoona, Methi, Tukhme Arand, Injeer, Aslusoos, Shahad, Kanji, Roghane zaitoon, Tukhme hanzal and some Ours like habbe sheetraj, habbe muqil etc. are used.

•For Taqwiyat-e-Asaab: After Tanqiyahe Mawad potentiation of nerve should be focused with application (Massage) of Haar Mizaj oils on vertebra and diseased part like Roghnae Arand, Roghane Zaitoon, Roghane Klakalnj, Roghane Sumbul Romi, Roghane Qust, Roghan Soya etc.

Mamool-e-matab nuskha

In initial phase of treatment for first seven days nothing is given in the form of diet except *Maul Asal. Saqeel*, indigestible, flatulent and food, drinks and drugs of cold temperament should be avoided.

## Preparation of Maul-Asal

- 20 ml Asale khalis boiled with water or Arge Gao zaban 20 ml.
- *Ustukhuddoos, Badranjeboya* boiled in water then *Asale khalis* (20 ml) is mixed. After seven days *Nuskha Munzij* is given for 12 days.

Nuskha Munzij: Badyan, Beekh Badyan, Beekh Izkhar, Beekh Kibar 7 g each,

Parsiyaooshan, Aslussoos muqasshar, Goazaban, Ustukuddoos 5 g each, Injeer zard(3 adad), Maweez munaqqa (9 dana) soaked overnight in warm water, filtered in the morning and mixed with Khamira banafsha 40 ml. After 12 days-Mushil (purgatives) drugs are added with Munzijat.

Mushilat (purgatives): Sana makki, turbud safed 7 g each, Maghze amaltas, shire khisht 40 ml each, Turanjabeen, shakar surukh 40 ml

each, Sheerah maghz badam shsirin-5 in number each with Gulqand 40 g.

After 12 days when *Tanqiyah* is completed, *Taqwiyate Asaab* (potentiation of nerves) is focused with administration of *Khustae gaudanti 2 mg, Majoon Seer* or *Majoon Azaraqi* or *Majoon Jograj gogul 5* g with *Arqe Gaozaban* 120 ml in the morning and *Khamira Abresham Hakeem Arshad wala, Dawaul Misk* 

Haar Jawahar wali with Arqe Gao zaban 20 ml in the evening.

Local Application: For better result after *Tanqiyah*, massage with *Roghane Qust* or *Roghane Surkh* on paralysed organ is done.

### Scientific studies related to some commonly used drugs:





Aslussoos: Roots and rhizomes of G. glabra have been studied; study suggested that the aqueous extract of roots 250 and 500 mg/kg possess a Cerebro protective effect in sod. Nitrite induced hypo toxic rat which may be mediated by its anti-oxidant effect.

Beekh Badyan: In vivo, both essential oil and Anethole (the main component of oil) orally administered in a sub-acute treatment to mice (30 mg kg per day for 5 days) showed significant anti thrombotic activity preventing the paralysis induced by collagen-epinephrine i.v. injection (70-83%) protection respectively

Ustukuddoos: L stoechus flowers were studied for its possible Anti-convulsant, Anti spasmodic activity. It increased the latency of convulsions induced by pentylene tetrazole. Lavender from Lavandula angustifolia also decreases the tone in the skeletal muscle preparation of phrenic nerve- diaphragm of Rats. Aneesoon: Neuro protective effect of Anise oil was observed.

*TukhmeKarafs:* Apigenin was studied on the contraction of rat thoracic aorta, it wasconcluded that Apigenin relaxes rat thoracic aorta mainly by suppressing the Calcium influx through both voltage receptor-oriented calcium channel.

Ood Saleeb: sedative, anti-inflammatory activities were assessed, and it has blocking effect on neuromuscular junction.

*Barge Goazaban:* Leaves were tested for flavonoids, coumarins, sterols and tannin, produced a contraction- dependent relaxation of spontaneous and k+ (80 mm) induced contraction in isolated rabbit jejunum preparation, suggestive of calcium antagonist effect.

Barge Sana: Cassia angustifolia contains anthraquinone, carbohydrates, flavonoids, glycosides. Senna is a potent laxative and its use in chronic constipation patient has been assessed.

*Turbud:* Anti-secretory, ulcer protective, anti-inflammatory, hepatoprotective, anti-bacterial and anti-oxidant activity was confirmed.

Roghan Malkangni: Borrelli et al. proved that extract of Celastrus paniculatus seeds exerts a powerful myogenic and L-type calcium dependent relaxing effect in the isolated Rat and the human ileum is sensitive to the inhibitory effect of its extracts.

## **Conclusion:**

The present study revived the treatment guidelines of Falij in Unani medicine. It also attempted to rationalise the same by documenting various scientific reports of the drugs used in Falij. Further studies in clinical setting are required to validate the treatment guidelines.



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