



ISSN Print: 2664-7222
ISSN Online: 2664-7230
IJPPS 2024; 6(2): 84-91
www.pharmacyjournal.org
Received: 11-06-2024
Accepted: 16-07-2024

Dr. Shabnam
PG. Scholar, Department of
Saidla, Faculty of Unani
Medicine, Aligarh Muslim
University, Aligarh, Uttar
Pradesh, India

Dr. Huda Nafees
Assistant Professor,
Department of Saidla, Faculty
of Unani Medicine, Aligarh
Muslim University, Aligarh,
Uttar Pradesh, India

Dr. Qazi Zaid Ahmad
Assistant Professor,
Department of Saidla, Faculty
of Unani Medicine, Aligarh
Muslim University, Aligarh,
Uttar Pradesh, India

Corresponding Author:
Dr. Qazi Zaid Ahmad
Assistant Professor,
Department of Saidla, Faculty
of Unani Medicine, Aligarh
Muslim University, Aligarh,
Uttar Pradesh, India

An overview of Unani remedies for *Busoor-e Labaniyah* (Acne Vulgaris) and its principle of management

Dr. Shabnam, Dr. Huda Nafees and Dr. Qazi Zaid Ahmad

DOI: <https://doi.org/10.33545/26647222.2024.v6.i2b.127>

Abstract

Busoor-e-labaniyah (Acne Vulgaris) is a chronic and most common skin disorder of pilosebaceous unit that affects almost all adolescent age groups. Its etiopathogenesis, preventive measures and effective treatment are comprehensively elaborated in classical Unani literature along with its detailed remedial measures and effective treatment. According to the Unani Humoural pathophysiology, the condition caused due to *Madda-e-Sadidiyah* (Suppurative material), which may be due to indigestion, menstrual abnormalities, spicy food, and excess of morbid matters in body. In the Unani system of medicine many drugs having properties like *jali* (Antiseptic), *daf-e-taffunn* (Antibacterial), *muhallil* (Resolvent) and *musaffi- e- dam* (blood purifier) found to be quite safe, effective and being successfully used by unani physician in the treatment of *Busoor-e-labaniyah*. As we aware of the prolonged use of comedolytic agents, systemic antibiotic and steroids cannot administered more often as the problem is mostly recurring due to their adverse effect. As the world turnings towards globalization, there is a need of the hour to explore these traditional drugs, formulations and topical regimens from the treatise of Unani Medicine to provide the proper cure & combat the challenge.

Keywords: Busoor-e-labaniyah, Madda-e-sadidiyah, daf-e-ta'ffun, Unani Medicine Propionibacterium acne, Staphylococcus epidermidis

Introduction

Busoor-e-labaniyah (Acne Vulgaris) is a genetic or acquired condition of the pilosebaceous units that derives its name from the Greek word "akme," which meaning peak or apex. Acne vulgaris is the official designation for the condition. The affected patients, between 70% and 80%, range in age from 11 to 25. [Bezalwar *et al.*, 2014] ^[18]. Inflammatory and non-inflammatory lesions of the hair follicles and sebaceous glands, often known as the pilosebaceous unit, are the hallmark of acne vulgaris. [Degitz *et al.*, 2007] ^[26]. At adolescence, some acne is common, but severe occurrences can leave scars long after treatment and can have an unpleasant appearance. Open comedons (Blackheads) and closed comedons are two different types of non-inflammatory lesions (White heads). Papules, pustules, cysts, and nodules are the outward signs of inflammatory lesions. (Daud *et al.*, 2013; Sawarkar *et al.*, 2010) ^[25, 59]. *Busoor-e-labaniyah* (Acne Vulgaris) sufferers levels of social, psychological, and emotional impairments are comparable to those reported by patients with more severe conditions like asthma, epilepsy, diabetes, back pain, or arthritis, according to comparisons with other chronic illnesses. [Mallon *et al.*, 1999] ^[47] Every year, it costs at least 2.5 billion dollar in the United States and affects around 40–50 million individuals. *Busoor-e-labaniyah* (Acne vulgaris) accounts for 0.3% of all diseases worldwide and roughly 16% of all dermatological diseases. [Anjum *et al.*, 2021] ^[6]. A systemic analysis for the global Burden of Disease study indicated that acne was the eighth most prevalent disease globally in 2010. Patients with acne has a profound impact on a patients emotions as self-embarrassment, unworthiness, self-esteem, annoyance owing to physical symptoms like itching and pain. (Tasoula *et al.*, 2012; Hayashi *et al.* 2004) ^[8, 34].

Busoor-e-labaniyah (Acne Vulgaris) in Unani System of Medicine

Renowned Unani scholars have detailed a dermatological disorder called *Busoor-e-Labaniyah* in their illustrative literature, which is clinically similar to Acne vulgaris today. Creditable unani scholars named as *Abu al-Hasan Ali ibn Sahl-Rabba-al-Tabari* described in his famous book '*Firdous al-Hikmat*' (Paradise of wisdom) a full explanation of sebaceous glands. *Abu Bakr Muhammad ibn Zakariyya Al-Razi* explained the treatment of *Busoor-e-Labaniyah* (Acne vulgaris) in his famous book *Al-Hawi* (The Virtuous Life) [Rhazi, 1994] ^[54]. In 980-1037 AD *Abu Ali al-Husayn ibn Abdullah Ibn-Sina* (Avicenna) in his renowned book *Al-Qanun fi'l Tib* (The Canon of Medicine) had explained the clinical presentation and etiopathogenesis of *Busoor-e-Labaniyah* according to him it is found on cheeks and face known as "*Nuqta-e-labaan*" (Acne vulgaris) due to its resemblance. [Sina, 2010] ^[61]. *Ibn Hubal* (1122-1213 AD) explained in his famous book '*Kitab- al-Mukhtarat- fil- tib*' about the cause and clinical presentation of *Busoor-e- Labaniya*. [Baghdadi 2007] ^[16]. *Muhammad Akbar Arzani* and in 1813-1902 AD, *Mohammad Azam Khan* had explained the clinical presentation of *Busoor-e-Labaniyah* in their famous book '*Tib-e-Akbar*', '*Mizann-al-Tib*' and '*Aksir-e-Azam*' [Khan 191; Arzani, 2002; Arzani, YNM,] ^[12].

The pathogenesis of acne is multi factored, involving seborrhea, microbial proliferation, inflammation, and abnormal desquamation of follicular epithelium. Excessive sebum production, brought about by hormonal changes (in particular, an increase in the production of androgens associated with the onset of puberty) is followed by abnormal desquamation of follicular corneocytes. The mixture of cells and sebum creates an environment for the proliferation of *Propionibacterium acnes*. [Thiobout *et al.*, 2009] ^[69]. Chemotactic factors released by *P. acne* attract lymphocytes and neutrophils, as well as producing other pro inflammatory molecules and causes papules, pustules, cyst, nodules. [Zouboulis, 2014; Das & Reynold, 2014; Charde, *et al.*, 2014] ^[55, 24, 22].

The main cause of *Busoor-e-Labaniyah* is inflammation of *Ghudud-e-duhaniya* (sebaceous gland) [Arzani, 1956] ^[13]. In Unani system of medicine, the etiology of this disease is considered to be *Madda-e-Sadidiyah* (Suppurative matter) which is removed in the form of vapours towards external surface of skin [Kabiruddin 2009, Tabri 1997] ^[40, 67] or *fasid madda* (morbid matter) which is separated from blood and removed through skin [Khan, 1917; Tabri, 1995] ^[42, 66]. It is also considered that these eruptions are seen on the external body when *tabiyat* (Medicatrix naturae) removes humours towards the skin from the body and they were named to different sites of eruptions. [Sina, 2010; Baghdadi, 2007] ^[61, 16].

Etiopathogenesis of Busoor-e-labaniyah (Acne Vulgaris)

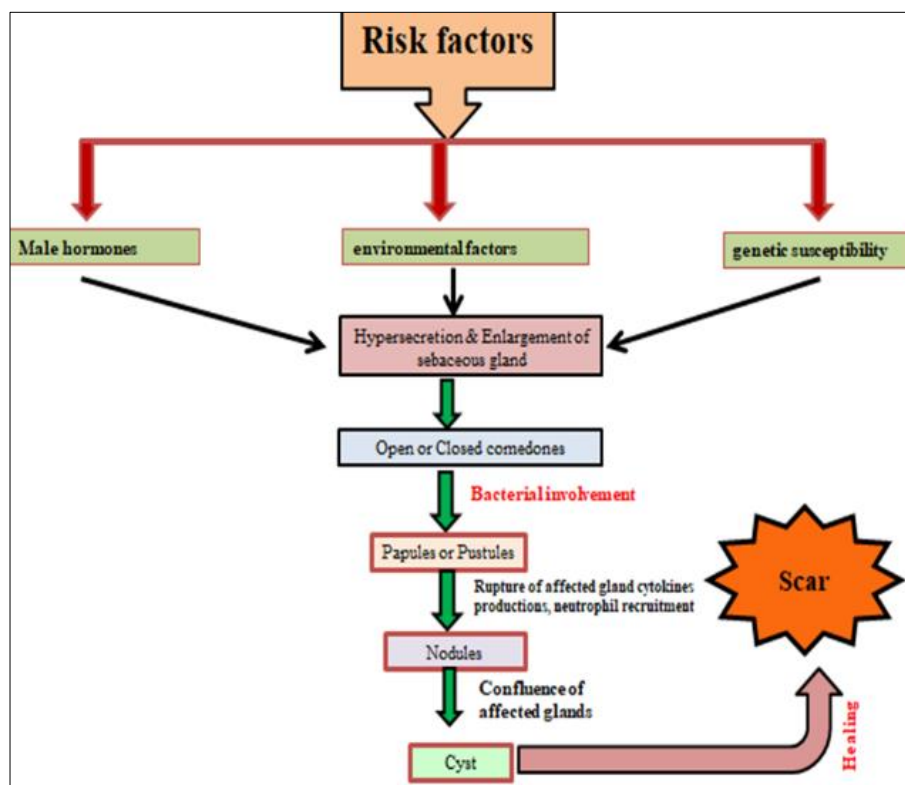


Fig 1: Etiopathogenesis of Acne vulgaris

Conventional treatment (William, 2012; Gupta, 2019; Burns *et al.*, 2008) ^[13, 31, 21]

- Skin Hygiene:** It is a necessary step but excessive use of soap for cleansing face causes dryness of skin and also exaggerate the inflammatory lesion.
- Counseling and support:** As reported the acne cause the negative impact on life so, there is a need to counsel

the patient and their relapse and also the duration of the disease.

- Topical treatment:** It is highly acceptable by patient and first line of treatment of acne as use of retinoids, antibacterial formulation.
- Systemic treatment:** Oral antibiotic, isotretinoin, OCPs.

e) **Surgical intervention:** As the advancement of science there are many therapies for treating active acne lesions and scarring

Fate of Conventional medicine in the treatment of *Busoor-e-labaniyah* (Acne Vulgaris)

For its treatment, pharmacological therapies involve topical and systemic therapy. Topical agents include benzoylperoxide, retinoids, azelaic acid, and clindamycin, while systemic treatment includes antibiotics (Tetracycline, clotrimoxazole, azithromycin), retinoids (Isotretinoin) [Zaenglein, 2018] [75] hormonal therapy (Contraceptives), and anti-inflammatory medications. While surgical intervention includes incision and curettage of cysts. [Anjum *et al.*, 2021] [6]

Long-term use of these therapeutic modalities is frequently accompanied by unwanted side effects, such as erythema,

irritation, peeling, burning, drying, and bleaching of the hair; isotretinoin use has teratogenic effects, cheilitis, paronychia, hepatitis, and tetracycline use results in gastrointestinal distress and diarrhoea; hyperpigmentation; and other side effects. [Anjum *et al.*, 2021; Lone *et al.*, 2012] [6, 46]. Also the retinoids are contraindicated in pregnancy [Yentezer *et al.*, 2009] [74]. Resurfacing, punch excision, laser surgery, dermabrasion, usage of fillers, photodynamic therapy, cryoprobe, cryopeel, cryoslush, and superficial chemical peeling are surgical treatments for acne. [Hirsch & Lewis, 2001; Sakamoto *et al.*, 2010] [35, 56]. Erythema hypo or hyper-pigmentaion, secondary infections, and hematoma can all result from improper approach. These therapies are not free from side effects and are cost effective. Patients can't afford these therapies or if they join, but due to some reason not able to complete their sittings.

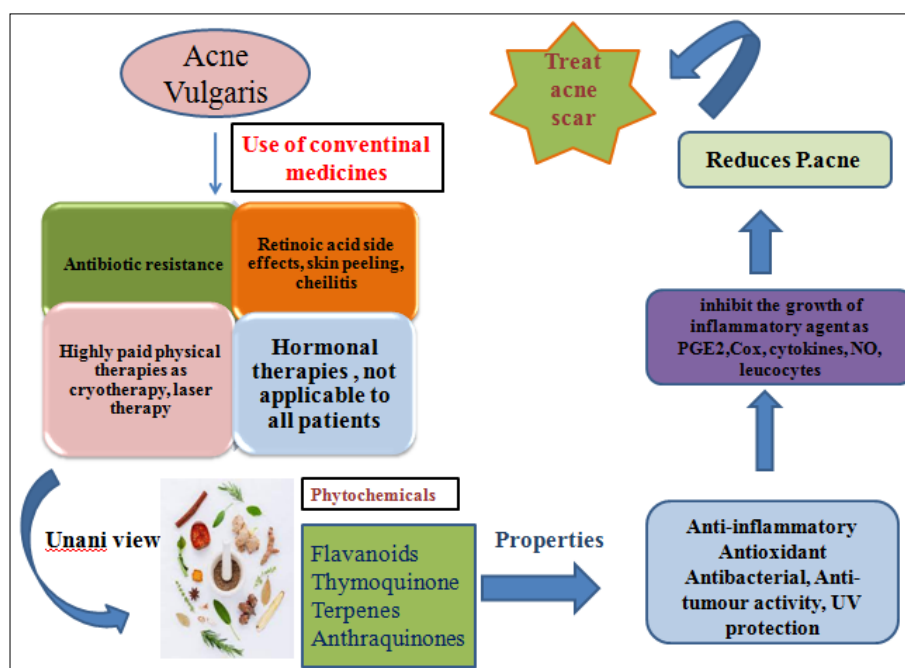


Fig 2: Treatment aspect of Acne Vulgaris

Usool-e-Ilaj (Principles of Treatment): There may be two types of treatment for *Busoor-e-Labaniyah* (Acne vulgaris) in Unani system of medicine

- Treat the main cause [Samarqandi, 2007; Aleem, 2002; Bhat *et al.*, 2016] [58, 4, 19]
- Treat constipation related issues [Samarqadi, 2007; Hasan *et al.*, 2002] [58, 32]
- Use of *Muaddilat wa musaffi dam* (Blood purifier) for systemic therapy [Ahmad, 2004; Hasan, 2002] [2, 32]
- Use of *muhallilat* (Resolvent) internally [Ahmad, 2004] [2]
- Topical therapy with *Daf-e-taffun* (Antiseptic) and *mohallil jali* (Detergent) drugs etc. [Samarqandi, 2007; Aleem, 2002; Khan, A 1917] [58, 4, 42]
- *Tanqiya-e-Dimagh wa Batan* (Evacuation of body and brain) [Samarqandi, 2007; Arzani, 2002] [58, 12]
- Consumption or application of *Tahlil wa Tajfif* (Resolution and Desiccation) medications. [Samarqandi, 2007; Sina, 2010] [58, 61]
- Treat women with problems linked to menstruation. [Samarqandi, 2007] [58]

- Steer clear of hot, spicy foods and too much sun exposure. [Samarqandi, 2007; Aleem, 2002] [58, 4]

Ilaj (Treatment): may be of two types for treatment of *Busoor-e-Labaniyah* (Acne vulgaris) in Unanni system of medicine

1. Topical treatment
2. Systemic treatment
 - a. *Tanqiya-e-badan* (Evacuation of body)
 - b. Dieto therapy
 - c. Internally use of resolvent and blood purifier medications [Anjum *et al.*, 2021] [6]

Mujarrib nuskhajat (Commonly used topical formulations)

1. *Kaf-e dariya alone/with haldi* [Ghani, 2010; Khan, 2006; Anonymous, 2005] [29, 43, 8]
2. *Husn-e-yusuf, tukhm-e-khashkhash, daarcheeni* mix the powder of these drugs with goats milk and apply at night and wash off with besan in morning. [Aleem, S., 2002] [4].

3. *Aarad nakhud biryan* -6 ma'sha, *murdarsang* – 6 ma'sha, *safeda kashghari*-4 ma'sha 4 admixed with goat's milk and apply at night, in morning wash the face with *aab-e-neem*. [Samarqandi, 2007] ^[58].
4. Ash of grape wood with *sirka*. [Samarqandi, 2007] ^[58].
5. *Aarad baqla*, *tukhm-e-khashkhash*, *aarad turmus*, *maghz-e-tukhm kharpaza*, *maghz-e- badam talkh* (6 gm) all the ingredient and saffron 3gm admixed with water. [Kabiruddin, 2010] ^[39].
6. *Tukhm-e- kanar(ber)*, *beekh mehak*, *qust talkh* all are in equal quantity admixed with water and apply on face. [Anonymous, 2005] ^[8].
7. *Tukhm-e- turb*, *gul-e-banafsha*, *mako*, *kateera* all are in 6 gm quantity powder them and mixed with *aab-e kela* and *aab-e-barg khyar* make a paste and apply on face. [Anonymous, 2005] ^[8].
8. *bargh-e-neebe*, *beekh soosan*, *post saras*, *maghz-e-ghonghchi*, *safed namak sang* admixed with water and apply at night wash off in morning. [Anonymous, 2005] ^[8].
9. *Shoniz*, *bura Armani*, *naushadar* admixed with *sirka*. [Sultana et al., 2015] ^[62]

Tanqiya-e-Badan

Tanqiya of the entire body and brain by *Fasad and Ishal* was advised by a Unani scholar (Qarshi, 2011; Samarqandi, 2007) ^[53, 58]. Vessels in the nose and the *Fasad of Sararoo (Qifal)*. Purgation (*is'haal*) through the oral use of *Aftimun*, *Habb-e- Quqaya*, *Habb-e- Sibr*, or *Habb-i Ayarij* [Khattoon et al., 2021; Bhat et al., 2016] ^[45, 19]

Ilaj-bil-ghiza (Dieto therapy)

1. Avoid acidic, sugary food, *ghiza-e-kaseef* (Heavy diet as beef)
2. Use *ghiza-e-lateef* (Low calories diet) and readily digestible foods such as fruits. [Aleem, 2002; Bhat, et al., 2016; Anjum et al., 2021] ^[4, 19, 6]
3. Making use of *saada ghiza* (simple diet) to make *Turai*, *Kaddu*, *Palak*, *Arhar Daal*, *Moong*, and *Shalgham*. Steer clear of alcohol, fried, hot, and spicy meals, brinjal, and masoor. [Qarshi, 2011] ^[53]

Effective unani formulation to treat *Busoor-e-labaniyah (Acne vulgaris)*

Internally *musaffi dam* and *muhallil* (blood purifiers and resolvents) drugs are used. In unani system of medicine there is bountiful single drugs and formulations available which are having these properties and pharmacological actions. Some of them are mentioned in table 1.

Table 1: Effective Unani formulations

Name of formulation	Ingredients	Dose	References
<i>Sharbat Unnab</i>	Unnab	25 ml b.i.d	Kabiruddin, 2010 ^[39]
Majoon Ushba	Sana makki, chobchini, daarchini, barg-e-gauzaban, sandal surkh, sandal safaid. Bisfaj fastaqi, aftimoon wilayti, kababchini, sumbul tib, post halela zard, halela siyah	12 gm bed time	Anjum et al., 2021 ^[6]
<i>Habb-e-chobchini</i>	Chobchini, Heel kalan, Darchini, Bisbasa, Bekh Badiyan, Aaqarqarha, Jauzbua, Zanjabeel, Ood Hindi, Mastagi, Kateera	5-10 gm	Anonymous, 2001 ^[7]
<i>Itrifal mundi</i>	Post halela zard, halela siyah, post halela kabuli, post balela, amla khushk, tukhm-e-kishneez, barg-e-shahtara, asl-us-soos, ustukhuddus, gul-e- mundi, qand safaid, raughan-e zard	10-20 gm	Anonymous, 2001 ^[7]
<i>Itrifal shahatra</i>	Shahatra, post halela zard, post halela kabuli, post balela, berg sana makki, gul-e-surkh, maweez munaqqa	5-10 gm	Anonymous, 2006 ^[9]
<i>Decoction</i>	Unnab, sarphooka, muni, Shahtra, chiraita	6gm b.i.d with sharbat unnab 25 ml	Aleem, 2002 ^[4]
	Post halela zard, sarphooka, gul-e surkh, barg-e-shahtra, tukhm-e-kishneez, barg-e-hina, dhamaya, sandal surkh, sandal safaid, brahamdandi, neel kanthi, zeera safaid, filfil siyah, gul-e-kachnal, barg-e-bakayin, barg-e-neem	500 mg	Anonymous, 2001 ^[7] ; Kabiruddin, 2010 ^[39]
<i>Arq-e-mundi</i>	Mundi	6 taula (72 gm) with sharbat unnab	Kabiruddin, 2010 ^[39]
<i>Arq-e-ushba</i>	Ushba, chobchini	5-10 taula (60-120 ml)	Kabiruddin, 2010 ^[39]

Besides the compound formulations a number of single drugs which are commonly being used for the successful management of *Busoor-e-labaniyah* (Acne Vulgaris) by the

unani physicians since a long ago meanwhile recent scientific studies revealed the acclaimed unani single drugs are present in table 2 as under,

Table 2: Single drugs used in Acne with Active Pharmaceutical Ingredients (API)

Unani name	Scientific name	Active Pharmaceutical Ingredient	Use in Busoor-e-labaniyah (Acne Vulgaris)	References
Neem	<i>Azadirachta indica</i> (Meliaceae)	Limnoid, Nimbin	Anti-inflammatory, Antieptic, Antimicrobial, Antifungal	Islas et al., 2020] ^[38] . [Biswas K 2002] ^[20] [Hashmat, I. 2012] ^[33]
Post Siras	<i>Albizia lebeck</i> (Fabaceae)	Cardenolide glycosides, anthraquinone glycosides, flavanoids and saponins,	Anti-inflammatory, Antibacterial	Mishra et al., 2010] ^[49] . [Bapu, N. P., 2009] ^[19]

Kalonji	<i>Nigella sativa</i> (Ranunculaceae)	Thymoquinone	Antibacterial, anti-inflammatory, antioxidant	Ahmad A <i>et al.</i> 2013 [1]
Daarchini	<i>Cinnamomum zeylanicum</i> (Lauraceae)	Cinnamaldehyde, benzaldehyde, Cinnamyl acetate	Antibacterial antioxidant	Unlu <i>et al.</i> , 2010 [71]
Tukhm-e-khashkhash	<i>Pappavar somniferum</i> (Papaveraceae)	Sanguinarine, quaternary benzo-phenanthridine alkaloid,	Anti-bacterial	Chaudhary <i>et al.</i> , 2013 [23]
Mulethi	<i>Glycyrrhiza glabra</i> (Leguminosae)	Glycyrrhizic acid, Glycyrrhetic acid; Glabridin, isoliquitygerine Lichochalcone, licocoumarine,	Lighten hand solar lentigines, Reduction of erythema, oedema, and itching scores, antimicrobial, antioxidant, anti-inflammatory	Postorina G. <i>et al.</i> 2018 [52]; Kaur <i>et al.</i> , 2013 [41]
Khaksi	<i>Sisimbrum irio</i> (Brassicaceae)	Flavanoids and phenolic compounds	Antibacterial, anti-inflammatory, Antioxidant	Tiwari <i>et al.</i> , 2022 [70]; Al Jaber <i>et al.</i> , 2011 [5]
Zarawand	<i>Aristolochia longa</i> (Aristolochiaceae)	Aristolochic acid, maaliol, limonine, palmitic acid	Antibacterial, anti-inflammatory, Antioxidant	Al-Idreesi <i>et al.</i> , 2020
Alsi	<i>Linum usitatissimum</i> (Linaceae)	Secoisolariciresinol diglucoside	Anti-oxidant, anti-inflammatory	Shim <i>et al.</i> , 2014 [60]
Rose	<i>Rosa damascena</i> Mill (Rosaceae)	Citronellol, geraniol, nerol	Anti-inflammatory, ant-oxidant	Mileva <i>et al.</i> , 2021 [48]
Banafsha	<i>Viola odorata</i> (Violaceae)	citronella, geraniol, salicylaldehyde and linalool	anti-inflammatory, healing and soothing	Akhbari, <i>et al.</i> , 2012 [13], Ansari, 2019 [10]
Post anar	<i>Punica granatum</i> (Punicaceae)	Ellagitannins, ellagic acid and punicalagin.	Anti-inflammatory	Houston <i>et al.</i> , 2017 [36]
Sibr	<i>Aloe barbadensis</i> Miller (Liliaceae)	Alain, emodin aloesin, Salicylic acid, saponins, auxins, gibberlins	Anti-Inflammatory. antitumour, antiseptic, anti-fungal, antibacterial, soothing	Surjushe, <i>et al.</i> , 2008 [64]

A number of clinical trials have been done on several Unani formulations for the management of *Busoor-e-labaniyah* which are found to be quite effective & safe. Some of the studies are mentioned below.

1. A study done by Lone, *et al.*, 2012 [46] in which a unani formulation known as *zimad-e-muhansa* was applied locally once at night on face for 45 days and to evaluate the severity of acne and the efficiency of treatment, the Cook's Acne Grading Scale was employed. Data showed that the Cook's acne grading scores of the post-treatment group dramatically decreased with no side effects or adverse effect. [Lone, *et al.*, 2012] [46].s
2. In another study which is done by Sultana, *et al.*, 2015 [62], the local use of a paste made of *Shoniz* (*Nigella sativa*), *Naushadar* (Ammonium chloride), and *Bura Armani* combined with *Sirka* (Vinegar) is advised in their clinical trial for the treatment of acne vulgaris. demonstrates that, when combined with *taqlil-e-ghiza tadabir*, the test medication formulation is both a safe and effective treatment for *Busoor-e-Labaniyah* (Acne vulgaris). The trial formulation can be suggested to treat mild to severe *Busoor-e-Labaniyah* because no pharmacological adverse effects were reported. [Sultana, *et al.*, 2015] [62].
3. Doni, *et al.*, in 2022 [27] in their single arm clinical trial, 31 clinically diagnosed patients with acne vulgaris received *Tila-e-Muhansa* (*Azadirachta indica* A. Juss., *Albizia lebeck* L., and *Iris ensata*) to be applied on the afflicted site every night and washed off with normal water after 20–30 min, of whom 30 completed the protocol therapy. The primary outcome measures were changes in subjective parameters such as comedones, papules, pustules, erythema, and itching, assessed on a 4-point grading scale, and change in investigator's global assessment (IGA) for overall disease severity, at baseline, 7th, 14th, and 21st days. Acne vulgaris was successfully treated in their clinical experiment with no negative side effects. [Doni, *et al.*, 2022] [27]
4. Parveen, *et al.*, in 2009 [51], conducted a study in which they compare to the control formulation of Azithromycin and Benzoyl peroxide gel and the test formulations including a dried aqueous extract of *Shahatra* and *Zimad Muhasa* were found to be more efficient and safe in the management of acne vulgaris in moderate to severe acne [Parveen, *et al.*, 2009] [51].
5. Salam, *et al.*, in 2020, in their clinical trial, *Itrifal Shahtara* and *Sharbat-e-Ummab* efficacy were assessed in acne vulgaris. It is found that, these above mention formulations are extremely significant for pustules, pruritus, macules, and papules, while the results for vesicle are only moderately significant, but they are simply observed to be safe and effective in treating acne vulgaris based on outcomes [Salam, *et al.*, in 2020] [57].
6. Azhar *et al.*, in 2020 [14] conducted a study in patients with acne vulgaris in which the patients advised to apply *Tila-i Muhasa* or 5% Benzoyl Peroxide (BPO) once daily for 6 weeks. A total of 60 patients (30 in each group) completed 6 weeks of treatment. The mean percentage reduction in GAGS(Global Acne Grading System) score at 6 weeks from baseline in Unani group (66.97%) and BPO group (59.09%) was statistically significant ($p < 0.0001$). After 6 weeks of therapy, the mean percentage reduction in PGA(Patient Global Assessment) score compared to baseline in Unani group

(57.44%) and BPO group (50.23%) was statistically significant ($p < 0.0001$). No serious adverse events were reported in both groups; however, mild adverse events occurred more frequently in BPO group (30%) compared to Unani group (10%). [Azhar *et al.*, in 2020]^[14].

Conclusion

The present review explored the Unani classical literature having its philosophical and temperamental layout and pathological changes occurred in *Busoor-e-labaniyah* (Acne vulgaris). The most effective single and compound formulations were rediscovered with special focus on the active constituents and researches recently carried out along with topical regimen. The core humoural philosophy of the treatment and etiopathogenesis was exclusively discussed at length. principle of treatment. The review is also substantiated with the experimental and clinical studies which have been carried out to demonstrate the efficacy of illustrated drugs to find out the pharmacokinetics of the active constituents of the single and compound drugs. Henceforth, the review reflects the Unani System of Medicine has a comprehensive regimen to combat the challenging disorder so that these effective remedies and regimen should be systematically designed and develop at the global standard for the better compliance, cost effective and safe management of *Busoor-e-labaniyah* (Acne vulgaris).

References

- Ahmad A, Husain A, Mujeeb M, Khan SA, Najmi AK, Siddique NA, *et al.* A review on therapeutic potential of *Nigella sativa*: A miracle herb. *Asian Pac J Trop Biomed.* 2013;3(5):337-352.
- Ahmad Z. *Moalijat Jild.* New Delhi: Net a zone computers; c2004. p. 51.
- Akhbari M, Batooli H, Kashi FJ. Composition of essential oil and biological activity of extracts of *Viola odorata* L. from central Iran. *Nat Prod Res.* 2012;26(9):802-809.
- Aleem S. *Amraz-e-Jild.* Aligarh: Mashkuwah computers Suleman hall; c2002. p. 78-9.
- Al-Jaber NA. Phytochemical and biological studies of *Sisymbrium irio* L. Growing in Saudi Arabia. *J Saudi Chem Soc.* 2011;15(4):345-350.
- Anjum S, Tabasum A, Manzoor F, Faisal MU. Concept of Busoore Labaniya (Acne Vulgaris) and its Management In Light of Unani System of Medicine. *J Drug Deliv Ther.* 2021;11(5-S):159-163.
- Anonymous. *National Formulary of Unani Medicine. Part III.* New Delhi: Ministry of Health and Family Welfare, Government of India; c2001. p. 13, 31, 91.
- Anonymous. *Qarabadeena azam wa Akmal.* New Delhi: CCRUM; c2005. p. 404.
- Anonymous. *National Formulary of Unani Medicine. Part I.* New Delhi: Ministry of Health & Family Welfare, Government of India; c2006. p. 96.
- Ansari S. History of acne vulgaris and topical drugs in Unani medicine. *Arch Med Health Sci.* 2019;7(2):293.
- Arzani A. *Tibe Akbar.* Deoband: Faisal Publications; 722.
- Arzani MA. *Mizanut-tib.* 4th ed. New Delhi: Idara Kitabal Shifa; c2002. p. 249.
- Arzani MA. *Tibb-e-Akbar.* Urdu translation by Hussain M. Vol. II. Lucknow: Tejkumar press; c1956.
- Azhar M, Uddin Q, Kazmi MH, Khatoon F, Husain N. Therapeutic Evaluation of a Topical Unani Formulation, Tila-i Muhāsā in Buthūr Labaniyya (Acne Vulgaris): A Randomized, Controlled Clinical Study. *CELLMED.* 2020;10(2):15-1.
- Babu NP, Pandikumar P, Ignacimuthu S. Anti-inflammatory activity of *Albizia lebbek* Benth, an ethnomedicinal plant, in acute and chronic animal models of inflammation. *J Ethnopharmacol.* 2009;125(2):356-360.
- Baghdadi ABA. *Kitabul Mukhtarat Fit-tib.* Vol. IV. New Delhi: CCRUM; c2007. p. 188-189.
- Baghdadi Ibn-e-Hubl. *Kitabul Mukhtarat Fil Tib.* Vol. 4. New Delhi: CCRUM; c2007. p. 188-189.
- Bezalwar PM, Gomashe AV, Gulhane PA. A quest of anti-acne potential of herbal medicines for extermination of MDR *Staphylococcus aureus*. *Int J Pharm Sci Invention.* 2014;3:12-17.
- Bhat MD, Irfan M, Malik R. Basoor Labniya (Acne Vulgaris) in Unani Medicine: A Review for its Better Management Strategy. *Res Rev: J Unani Siddha Homeopathy.* 2016, 3(3).
- Biswas K, Chattopadhyay I, Banerjee RK, Bandyopadhyay U. Biological activities and medicinal properties of neem (*Azadirachta indica*). *Curr Sci.* 2002;83(12):1336-1345.
- Burns T, Breathnach S, Cox N, Griffiths C, editors. *Rook's textbook of dermatology.* 7th ed. Chichester: John Wiley & Sons; c2008. p. 42, 38-44.
- Charde YM, Sharma PH, Choudhary NG, Avari JG. Development and evaluation of herbal formulation for the treatment of acne. *Int. J Pharm Sci Res.* 2014;5(6):2250-2260.
- Chaudhary SS, Tariq M, Zaman R, Imtiyaz S. The *In vitro* anti-acne activity of two Unani drugs. *Anc Sci. Life.* 2013;33(1):35.
- Das S, Reynolds RV. Recent advances in acne pathogenesis: implications for therapy. *Am J Clin Dermatol.* 2014;15(6):479-488.
- Daud FS, Wankhede S, Joshi M, Pande G. Development of herbal anti-acne gel and its evaluation against acne causing bacteria *Propionibacterium acne* and *Staphylococcus epidermidis*. *Int J Res Ayurveda Pharm.* 2013;4(5):781-786.
- Degitz K, Placzek M, Borelli C, Plewig G. Pathophysiology of acne. *J Dtsch Dermatol Ges.* 2007;5:316-323.
- Doni M, Patel MI, Khalid M, Husain N, Khan MQ, Ayesha B. Therapeutic evaluation of herbal formulation in acne vulgaris and its influence on quality of life-A single-arm clinical trial. *J Herbal Med.* 2022;34:100577.
- El Idrissi AEY, Khouchlaa A, Bouyahya A, Bakri Y, Tijane MH. Phytochemical Characterization, *In Vitro* Antioxidant, Cytotoxic, and Antibacterial Effects of *Aristolochia longa* L.
- Ghani N. *Qarabadeen Najmul Ghani.* New Delhi: CCRUM; c2010. p. 654.
- Ghani N. *Khazainul Advia.* Vol. 1 & 2. New Delhi: H.S offset press Idara Kitab-ul-Shifa; c2011. p. 255, 1260.

31. Gupta LK. IADVL Concise textbook of Dermatology. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; c2019. p. 367-369.
32. Hasan A. Amraz-e-Jild. Danish offset printing press; c2002. p. 167-168.
33. Hashmat I, Azad H, Ahmed A. Neem (*Azadirachta indica* A. Juss)-A nature's drugstore: an overview. *Int Res J Biol Sci.* 2012;1(6):76-79.
34. Hayashi N, Higaki Y, Kawamoto K, Kamo T, Shimizu S, Kawashima M. A cross-sectional analysis of quality of life in Japanese acne patients using the Japanese version of Skindex-16. *J Dermatol.* 2004;31(12):971-976.
35. Hirsch RJ, Lewis AB. Treatment of acne scarring. *Semin Cutan Med Surg.* 2001;20(3):190-198.
36. Houston DM, Bugert J, Denyer SP, Heard CM. Anti-inflammatory activity of *Punica granatum* L. (Pomegranate) rind extracts applied topically to ex vivo skin. *Eur J Pharm Biopharm.* 2017;112:30-37.
37. Ibn-e-Sina. Al-Qanoon-fil-tib. 4th vol. New Delhi: Idara Kitabul Shifa; 2010. Urdu translation by Ghulam Hasnain Kantoori. p. 1432.
38. Islas JF, Acosta E, Zuca G, Delgado-Gallegos JL, Moreno-Treviño MG, Escalante B, Moreno-Cuevas JE. An overview of Neem (*Azadirachta indica*) and its potential impact on health. *J Funct Foods.* 2020;74:104171.
39. Kabiruddin M. Bayaz-e-Kabir. Vol. I. New Delhi: Idara Kitab-ul-Shifa; c2010. p. 42, 84, 86, 87, 94, 98, 104, 136.
40. Kabiruddin M. Tarjuma-e-Kabir. Delhi: Idara Kitab us Shifa; c2009. p. 243-244.
41. Kaur R, Kaur H, Dhindsa AS. Glycyrrhiza glabra: A phytochemical review. *Int J Pharm Sci Res.* 2013;4(7):2470-2477.
42. Khan A. Ikseer Azam. Lucknow: Munshi Nawal Kishore Press; c1917. p. 450.
43. Khan HMA. Rumooz-e-Azam. Vol. 2. New Delhi: CCRUM, Ministry of Health & Family Welfare, Government of India; c2006. p. 384.
44. Khanna N. Illustrated synopsis of dermatology and sexually transmitted diseases. 5th ed. New Delhi: Elsevier; c2016. p. 120-130.
45. Khatoon F, Azahar M, Jabeen A, Uddin Q, Khan S, Md Moin S, Ahmad K, Zaki MK. A comprehensive review on ButhūrLabaniyya (Acne vulgaris) with special references to the Unani system of medicine. *J Phytopharmacol.* 2021;10(6):468-477.
46. Lone AH, Habib S, Ahmad T, Anwar M. Effect of a polyherbal Unani formulation in acne vulgaris: A preliminary study. *J Ayurveda Integr Med.* 2012;3(4):180.
47. Mallon E, Newton JN, Klassen A, Stewart-Brown SL, Ryan TJ, Finlay AY. The quality of life in acne: a comparison with general medical conditions using generic questionnaires. *Br J Dermatol.* 1999;140(4):672-676.
48. Mileva M, Ilieva Y, Jovtchev G, Gateva S, Zaharieva MM, Georgieva A, *et al.* Rose flowers-A delicate perfume or a natural healer? *Biomolecules.* 2021;11(1):127.
49. Mishra SS, Gothecha VK, Sharma A. Albizia lebeck: A short review. *J Herbal Med Toxicol.* 2010;4(2):9-15.
50. Motamedi H. Antibacterial activity of hydroalcoholic extract of *Callistemon citrinus* and *Albizia lebeck*. *Am J Appl Sci.* 2010;7(1):13-16.
51. Parveen S, Zafar S, Qureshi MA, Bano H. Clinical trial of Unani herbomineral cream to evaluate its topical effects on acne vulgaris. [Unpublished]; c2009.
52. Pastorino G, Cornara L, Soares S, Rodrigues F, Oliveira MBP. Liquorice (*Glycyrrhiza glabra*): A phytochemical and pharmacological review. *Phytother Res.* 2018;32(12):2323-2339.
53. Qarshi HKM. Jam-ul-Hikmat. H.S. Offset Press; Idara Kitab-ul-Shifa; New Delhi; c2011. p. 994-995.
54. Razi AMBZ. Al Hawi Fil Tib. Urdu translation by Hakeem MY Siddiqui. Part-2, Vol-23. Saba Publishers; Aligarh: AMU; c1994. p. 36-37.
55. Zouboulis CC. Acne as a chronic systemic disease. *Clinics Dermatol.* 2014;32(3):389-396.
56. Sakamoto FH, Lopes JD, Anderson RR. Photodynamic therapy for acne vulgaris: A critical review from basics to clinical practice: part I. Acne vulgaris: when and why consider photodynamic therapy? *J Am Acad Dermatol.* 2010;63(2):183-193.
57. Salam M, Khan Q, Sehar N, Alam I, Imam MH, Akhtar J. A preliminary study on the safety and efficacy of two Unani pharmacopoeial formulations (Itrifal Shāhtarāh and Sharbat-i-'Unnāb). *WJPMR.* 2020;6(4):85-89.
58. Samarqandi N. Sharah-e-Asbab Vol. III & IV. Urdu translation by Hakeem Kabiruddin. M.R. Offset Press; New Delhi; c2007. p. 244-245.
59. Sawarkar HA, Khadabadi SS, Mankar DM, Farooqui IA, Jagtap NS. Development and biological evaluation of herbal anti-acne gel. *Int. J PharmTech Res.* 2010;2(3):2028-2031.
60. Shim YY, Gui B, Arnison PG, Wang Y, Reaney MJ. Flaxseed (*Linum usitatissimum* L.) bioactive compounds and peptide nomenclature: A review. *Trends Food Sci Technol.* 2014;38(1):5-20.
61. Sina I. Al Qanoon fil tib. Urdu translation by Kantoori GH. 4th vol. Eijaz Publishing House; Delhi; c2010. p. 1432.
62. Sultana S, Zulkifle M, Ansari AH. Efficacy of local application of an Unani formulation in acne vulgaris. *Anc Sci Life.* 2015;35(2):124.
63. Sultana S, Zulkifle M, Ansari AH. Efficacy of local application of an Unani formulation in acne vulgaris. *Anc Sci Life.* 2015;35(2):124.
64. Surjushe A, Vasani R, Saple DG. Aloe vera: a short review. *Indian J Dermatol.* 2008;53(4):163.
65. Ṭabarī R. Firdaws-al-Hikmat. New Delhi: CCRUM, Ministry of Health and Family Welfare; c2010. p. 128.
66. Tabri M. Moalijaat Buqratiyah. New Delhi: CCRUM; c1995. p. 252.
67. Tabri M. Moalejat Buqratiyah. Urdu translation vol. 2. New Delhi: Ministry of Health and Family Welfare, Government of India, CCRUM; c1997. p. 252.
68. Tasoula E, Gregoriou S, Chalikias J, Lazarou D, Danopoulou I, Katsambas A, *et al.* The impact of acne vulgaris on quality of life and psychic health in young adolescents in Greece: results of a population survey. *An Bras Dermatol.* 2012;87:862-869.
69. Thiboutot D, Gollnick H, Bettoli V, Dréno B, Kang S, Leyden JJ, *et al.* New insights into the management of acne: An update from the Global Alliance to Improve

- Outcomes in Acne group. J Am Acad Dermatol. 2009, 60(5).
70. Tiwari M, Gupta S, Bhargava P. Virtual screening and molecular dynamics simulation studies to predict the binding of *Sisymbrium irio* L. derived phytochemicals against *Staphylococcus aureus* dihydrofolate reductase (DHFR). J Appl Nat Sci. 2022;14(4):1297-1307.
 71. Unlu M, Ergene E, Unlu GV, Zeytinoglu HS, Vural N. Composition, antimicrobial activity and *in vitro* cytotoxicity of essential oil from *Cinnamomum zeylanicum* Blume (Lauraceae). Food Chem Toxicol. 2010;48(11):3274-3280.
 72. Usmani MH. Tanquih-ul-mufradat. Marufi Computer; Azamgarh; c2008.
 73. Williams HC, Dellavalle RP, Garner S. Acne vulgaris. Lancet. 2012;379(9813):361-372.
 74. Yentzer BA, McClain RW, Feldman SR. Do topical retinoids cause acne to "flare"? J Drugs Dermatol. 2009;8(9):799-801.
 75. Zaenglein AL. Acne vulgaris. N Engl J Med. 2018;379(14):1343-1352.