***BAKUCHI* (*Psoralea* *corylifolia* L.) IN THE CLASSICAL TEXTS OF *AYURVEDA*: A COMPREHENSIVE REVIEW**

**Abstract: *Introduction (Background):*** *Bakuchi* (*Psoralea* *corylifolia* L*.*) is a wonder drug being used in the treatment of *Kustha* (Leprosy) and *Shwitra* (Vitiligo) both internally and externally since ancient times. Its use in the management of *Kustha* and *Shwitra* is described broadly in *Ayurveda* classics. *Acharya* *Charaka* classifies it under *Tikta* *skandha* whereas *Acharya* *Vagbhatta* considers it a *Rasayan*. The review aims to compile formulations containing *Bakuchi* as an ingredient in skin diseases as well as other systemic diseases both internally as well as externally. ***Material and Methods:*** This review portrays the wide usages of *Bakuchi* in the form of internal and external administration from 61 different classical texts consisting of treatise and compendias. Description about *Bakuchi*, its synonyms, properties, actions and various formulations containing *Bakuchi* with their *rogadhikara* were compiled from 9 *samhita*, 19 *chikitsa* *grantha* and 33 *rasa* *grantha*. ***Results and Discussion:*** In available classical Pharmacopoeias, *Bakuchi* is found to be used as an ingredient of more than 520 formulations, among which 407 are indicated for internal administration in 35 disease conditions and 109 for external application in 15 disease conditions. Among these disease conditions, maximum are indicated for the management of *Kustha* (disease of skin), followed by *Shwitra* (vitiligo) other skin diseses and *Jwara* (fever) and *Prameha*(Urinary disorder)etc. ***Conclusion:***  *Bakuchi*, a wellknown drug to combact skin diseases is also found to be used in more than 15 systemic diseases. Present data may encourage researcher to think over the usage of drug in pharmaceutical and clinical research in aspects other than skin diseases.

**Keywords:** *Avalguja*, *Bakuchi*; *Kustha*, *Psoralea* *corylifolea*; *Somaraji*, *Shwitra*.

**INTRODUCTION**

Bākucī *(Psoralea corylifolia L)* is an excellent remedy for skin diseases, particularly Kuṣṭha and Świtrasince ancient times. The Ayurveda classics broadly describe its use in other systemic diseases as well. Bākuci single seeded fruit powder is an ingredient of formulations indicated in diseases of every *Srotas.* Bākucī Śāka is considered beneficial in Arśa and Atisāra [1]. Its active constituent Psoralen is now utilised for the PUVA therapy, very common for the treatment of psoriasis and vitiligo. A single hand information on all the formulations containing Bākucī as an ingredient is not available except a preliminary review of the drug. [2].Hence, a meticulous review work was undertaken to create an exclusive database on the formulations of Bākucī indicated for both internal and external administration and their respective Rogādhikāra (disease wise indications) of Āyurvedic pharmacopoeias or compendias.

 

 Figure 1

It is a small, erect, annual herb growing up to 60–120 cm in height throughout sandy, loamy plains of Central and East India. Seeds are brownish black in color, oblong, and flattened. The seeds are kidney shaped, 2–4 mm long, 2–3 mm broad, and 1–1.5 mm thick, hard, smooth, exalbuminous with straw-colored testa, with an agreeable aromatic odor and a pungent-bitter taste.They have grooved and gland-dotted stems.Leaves are simple, broadly elliptic, rounded, and mucronate at apex, clothed with white hairs on both surfaces, covered with numerous black dots, 5 main nerves springing from the base.Flowers are dense, corolla yellow or bluish purple,axillary, 10–30 flowered racemes. Flowering time is from August to December.Fruit is small, 5 mm long, subglobular, slightly compressed, pitted black, beaked without hairs, indehiscent, one-seeded pod, which is adhering to the pericarp [65].

**MATERIAL AND METHODS**

The formulations containing Bākucī were compiled from nine Samhitā, nineteen Cikitsā grantha and 31 Rasa grantha along with recent texts of Medicinal plants. Various synonyms were used to search for the drug including Avalgujā, Bākucī, Candralekhā, Candrashaklā, Candraprabhā, Indulekhā, Indurāji, Vākucī, Shashilekhā, Sashanklekhā, Somārajī, and Suparnikā. The Samhitā referred included, Caraka Samhitā[3],Suṣruta Samhitā[4], Aṣṭānga Saṅgraha[5],Kāśyapa Samhitā[6],Aṣṭāṅga Hṛdaya[7], Bhela Samhitā[8], Hārita Samhitā[9], Śāraṅgdhara Samhitā[10],and Bhāva Prakāśa Samhitā[11]. The compendias include Vṛnda Mādhava[12], Cikitsā Kalikā[13], Rāja Mārtaṇda[14], Cakradutta[15], Gada Nigraha[16], VaṅgSena[17], Vaidyaka Camatkāra Cintamaṇi[18], Vaidya Jīvana[19], Vaidya Manoramā[20],Yoga Cintāmaṇi[21],Vaidya Cintāmaṇi[22], Bāsavrājīyam[23], Vaidya Rehasya[24], Yoga Ratnāker[25], Bheṣajya Ratnāvali[26], Nighaṇṭu Ratnāker[27], Siddha Bheṣaj Maṇi Mālā[28], Sahasrayogam[29] and Anupāna Mañjarī[30]. Rasa Granthas include Rasendra Mangala[31], Rasa Hṛdaya Tantra[32], Rasārṇava[33], Rasendra Cūḍāmaṇi[34], Rasa Prakāśa Sudhākar[35], Rasa Ratna Samuccaya[36], Rasa Paddhati[37], Ānanda Kanda[38], Rasa Cintāmaṇi[39], Rasa Mañjirī[40], Rasa Sanketa Kalikā[41], Rasendra Cintamaṇi[42], Rasendra Sāra Saṅgraha[43], Rasa Kaumudī[44], Rasa Kāmdhenū[45], Yoga Taraṅgiṇī[46], Arka Prakāśa[47], Āyurveda Prakāśa[48], Bṛhat Rasa Rāja Sunder[49], Rasa Rāja Mahodadhi[50],Rasāyana Sāra[51],Rasa Yoga Sāgara[52],Rasa Jala Nidhi[53], Rasāmṛtam[54], Rasopniṣata[55], Rasamitra[56], Rasa Taraṅgiṇī[57], Rasendra Sambhav[58], Abhinava Navajīvanīyam[59], Bhārata Bheṣajya Ratnākar[60], Rasa Dīpīkā[61], Rasendra Purāṇam[62]. Formulations containing Bākucī or its parts, as an ingredient, were critically studied and recorded in a specially designed information sheet. The formulations found repeated in various texts were removed from the list.Various Āyurvedic technical terms were presented with equivalent English terms in referring well accepted dictionaries [63].English equivalent of various disease conditions and dosageforms were referred from AFI (Ayurvedic Formulary of India) [64]. Indications of Bākucī, on various diseases, were categorized according their disease and were presented accordingly. Abbreviations are made for dosage forms of the formulation and are presented in parenthesis and presented in order of maximum to minimum findings.

The categories have been formed according to Carak’s classification of *Kustha* wherein there are seven types of *mahakustha* namely *Kapala, audumbara, mandala, Rishyajeeva, Pundarika, Sidhma, and Kakanaka.* Similarly eleven types of *Ksudra* *kustha* namely *ekkustha, charmakustha, kitima, vipadika, alsaka, dadru, charmadal, pama visphota, shataru* and *vicarcika.* The referred formulations have been specifically placed in these categories as mentioned in the referred classical texts. Further, a separate category is formed for formulations wherein only *Kustha* and *switra* is mentioned in the text.

***Dosage Form***

Among the formulations for internal applications, dosages form and their abbreviations are as follows: Rasa kalpa(Rk), Cūrṇa(Powder)(Cr), Kwātha(Decoction)(Kw), Vaṭī(Tablets)(Vt), Avaleha(Confection)(Al), Parpaṭī(Pt), Ghṛta(Medicated Ghee)(Gr), Guṭikā(Pills)(Gt), Vaṭaka(VT), Kalka(Paste)(K), Arista (medicated spirituous liquid)(Ar), Taila(Oil)(Tl), Piṅḍī(Pi), Pāna(Pn), SehaPāna(Pn), Jalukā Yoga, Asava(medicated spirituous liquid)(As), Modaka(Bolus)(Md), Agada(Ad), Lehya(Linctus)(L), Snehapāka(SP), Druti(D), Abhaya(Abh), Guḍa(G) and Sneha.

Among the formulations for external applications, Lepa(Lp), Taila(Tl), Ghṛta(Gr), Udvartana(Uv), Abhyanga(Ab), Nasya(Ns), Kalka(paste)(Kl), Poultice, Rasa Kalpa as Anjana, Karna purana, Tutha Prayoga and Suci Yoga(Injection).

**RESULTS:-**

On keen observation, it is noted that Bākucī has been used internally in a total of 502 formulations out of which 98 were found repeated. So after excluding these total 404 formulations were selected for critical analysis.

As regards the external administration, it is used in a total of 140 formulations. Out of which 31 were found repeated so remaining 109 were critically analysed in this study.

4 formulations are found to be used both internally as well as externally.

***Dosage form:-***

Among the formulations for internal applications, maximum dosages form are of (Rk)(151) followed by (Cr)(108), (Kw)(24), (Vt)(20), (Al)(3), (Pt)(3), (Gr)(2), (Gt)(8), (VT)(5), Kl(2), (Ar)(2), (Tl)(11), (Pi)(3), (Pn)(2) and one each of Pn, (As), (Md), (Ad), (L), (SP), (D), (Abh), (G) and Sneha. Among the formulations for external applications, Lp(50), Tl(40), (Gr)5, (Uv)4, (Ab)3, (Ns)2 and one each of Kalka, Poultice, Rasa Kalpa as Anjana, Karna purana, Tutha Prayoga and Suci Yoga(Injection).

The details of the dosage forms of various formulations are presented in Table 1 to Table 8

**INDICATIONS**

**1. Mahā Kuṣṭha *(Group of major skin diseases)***

In the management of various Mahā Kuṣṭha, a total of 23 formulations containing Bākucī as an ingredient are described for internal administration. Of these, 17 are Rasa formulations, 3 are Kaṣāya 2 Cūrṇa and 1 Ariṣṭa.

In the management of various Mahā Kuṣṭha, 4 formulations are described for external administration. Out of which 3 are Taila and 1 is Udvartana form.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Formulation** | **Dosage form** | **Reference** | **Administration**  |
| 1. | Khadirārīṣṭa | Ar | 27 | I |
| **Kapāla Kuṣṭha** |  |
| 1. | Pañca Nimbādi Mahā Kaṣāya  | Ky | 10 | I |
| 2. | Someśwara Rasa | Rk | 58, 20, 21, 50 | I |
| 3. | Nīli Nirgundyādi Taila | Tl | 27 | E |
| **AudumbaraKuṣṭha(lepromatous leprosy)** |  |
| 1. | Nimbādī Mahā Kaṣāya  | Ky | 58 | I |
| **MaṇḍalaKuṣṭha(lepromatous lesion)** |  |
| 1. | Brahma Rasa | Rk | 47, 56 | I |
| 2. | Brahmī Rasa | Rk | 58, 50, 40 | I |
| 3. | Kāmdhenu Rasa | Rk | 20, 43 | I |
| 4. | Rājrājeśwara Rasa Pratham | Rk | 50 | I |
| 5. | Sarveśwara Rasa | Rk | 44, 20 | I |
| 6. | Tālmantreśwara Rasa | Rk | 43, 50 | I |
| 7. | Vidhyādhara Rasa  | Rk | 21 | I |
| **ṚṣyajihvaKuṣṭha** |  |
| 1. | Pañca Nimbādī Mahā Kaṣāya  | Ky | 10 | I |
| 2. | Śailendra Rasa | Rk | 21, 20 | I |
| 3. | Vīrchanḍa Rasa | Rk | 43 | I |
| 4. | Vīrchanḍeśwara Rasa | Rk | 50 | I |
| **PuṇdarīkaKuṣṭha** |  |
| 1. | Bākucī Bīja Yoga | Cr | 58 | I |
| 2. | Rasendra Maṅgala Rasa | Rk | 43, 38, 50 | I |
| 3. | Pundarīka Kuṣṭha cikitsā pūrvakarma | Cr | 6 | I |
| **SidhmaKuṣṭha** |  |
| 1. | Candrakānta Rasa | Rk | 43 | I |
| 2. | Sūryakānta Rasa | Rk | 20 | I |
| 3. | Vetāla Rasa | Rk | 50 | I |
| 1. | Āraghavadādi Tailam | Tl | 34 | E |
| 2. | Āraghavadādi Tailam | Tl | 58 | E |
| 3. | Śyāmādi Udvartana | Uv | 58 | E |
| **KākaṇakaKuṣṭha** |  |
| 1. | Candrakānta Rasa | Rk | 43 | I |
| 2. | Sūryakānta Rasa | Rk | 20 | I |

**Table 1**: Bākucīas an ingredient of various formulations indicated in MahāKuṣṭha

**2. Kṣudra Kuṣṭha *(Group of minor skin diseases)***

In the management of various Kṣudra Kuṣṭha*,* a total of 33 formulations containing Bākucī as an ingredient are described for internal administration. Out of these, 22 are Rasa formulation 4 are in the form of Kaṣāya,5 Cūrṇa, 2 Parpaṭī and 1 in the form of Vaṭī.

In the management of various Kṣudra Kuṣṭha, 10 formulations are described for external administration. Out of these 6 are Lepa and 4 are Taila form.

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| --- | --- | --- | --- | --- |
| **Sr.No.** | **Formulation** | **Dosage form** | **Reference** | **Administration**  |
| **CarmaKuṣṭha** |  |
| 1. | Bākucī Cūrṇa (single) | Cr | 58 | I |
| 2. | Candrāntaka Rasa | Rk | 43 | I |
| 3. | Carmabhedī Rasa | Rk | 43, 58 | I |
| 4. | Carmāntaka Rasa | Rk | 58 | I |
| 5. | Kuṣṭhānta Parpaṭī Rasa | Rk/ Pt | 34 | I |
| 6. | Lankeśwara Rasa | Rk | 20 | I |
| 7. | Pancāmṛta Parpaṭī Dwitīya | Pt | 50 | I |
| 8. | Guñjādi Udvartana | Lp | 23 | E |
| 9. | Guñjādi Lepa | Lp | 20 | E |
| **Kitibha(Psoriasis)** |  |
| 1. | Kitibhārī Rasa | Rk/ Vt | 50 | I |
| 2. | Vajrapāṇī Rasa | Rk | 20, 21 | I |
| **Vaipādika(Scaly lesions on palm and soles)** |  |
| 1. | Bākucī Cūrṇa with Mahākāla Rasa | Cr | 21 | I |
| 2. | Kuṣṭhankuśa Rasa | Rk | 43 | I |
| 3. | Mahā kāla Rasa | Rk | 43, 20, 21, 58 | I |
| **Dadrū(Taeniasis)** |  |
| 1. | Bākucīka Yoga | Cr | 14 | I |
| 2. | Dadrū Yoga | Cr | 12 | I |
| 3. | Dwitīya Pāna Nimbādī Mahā Kaṣāya  | Ky | 10 | I |
| 4. | Guhya Dadrūhar Yoga | Cr | 13 | I |
| 5. | Kuṣṭhaghno Rasa I | Rk/ Vt | 50 | I |
| 6. | Rājrājeśwara Rasa | Rk | 40 | I |
| 7. | Śunṭhyādi Mahā Kaṣāya  | Ky | 10 | I |
| 8. | Tāmra Parpaṭī Dwitīya  | Pt | 50 | I |
| 9. | Tāmra Parpaṭī Rasa | Rk | 23 | I |
| 10. | Tṛtiya Nimbādī Mahā Kaṣāya  | ky | 10 | I |
| **External** |  |
| 1. | Dadrūkandvādi Lepa | Lp | 8 | E |
| 2. | Daradādi Lepa | Lp | 20,23, 24,  | E |
| 3. | Sūryapāka Tailam | Tl | 14 | E |
| **Pāmā (Eczema)** |  |
| 1. | Atula Mahā Kaṣāya  | ky | 10 | I |
| 2. | Candraprabhā Vaṭī | Vt | 58 | I |
| **External**  |  |
| 1. | Bākucī Taila | Tl | 20 | E |
| 2. | Gandhakādi Lepa | Lp | 26 | E |
| 3. | Maricyādi Tailam II | Tl | 15 | E |
| 4. | Treatment of Pāmā Kuṣṭha | Tl | 21 | E |
| **Visphoṭa** |  |
| 1. | Kanak Sankoca Rasa I | Rk | 43, 58 | I |
| 2. | Kuṣṭhāntaka Rasa | Rk | 58 | I |
| 3. | Kuṣṭhāntaka Rasa I | Rk | 43 | I |
| **Śatāru** |  |
| 1. | Candraśekhara Rasa  | Rk | 43 | I |
| **Vicarcīkā(Eczema)** |  |
| 1. | Kuṣṭha Nikrita Rasa | Rk | 20 | I |
| 2. | Kuṣṭhāntaka Rasa  | Rk | 21 | I |
| 3. | Pañca Nimba Cūrṇa  | Cr | 10 | I |
| 4. | Rājarājeśwara Rasa | Rk | 43 | I |
| 5. | Udayabhāskara Rasa  | Rk | 43 | I |

**Table 2:** Bākucīas an ingredient of various formulations indicated in Kuṣṭha

**3. Kuṣṭha *(Diseases of skin)***

In the management of Kuṣṭha as a general, a total of 122 formulations containing Bākucī as ingredient are described for internal adminitration. Out of these 37 are Rasa formulations, 23 are Cūrṇa formulations, 9 Vaṭī, 7 Kwātha, 4 Vaṭaka, 4 Guṭikā, 2 Ariṣṭa, 3 Piṇḍi, 2 each as Taila, Ghṛta and Sehapana, 1 each as Asava, Parpaṭī, Modaka, linctus, Lauha, bolus, Druti and snehapāka.

In the management of Kuṣṭha, a total of 28 formulations containing Bākucī as ingredient are described for external administration. Out of these, 14 Lepa, 7 Taila and 2 each Ghṛta, Udvartana and Abhyanga and single Suci Yoga.

Single formulation of Ghṛta and Cūrṇa are used both internally and externally.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No.** | **Formulations** | **Dosage form** | **Reference** | **Administration** |
|  | Āṭruṣakādi Kwātha | Kw | 24 | I |
|  | Amṛta Bhallātaka Avaleha | Al | 9 | I |
|  | Avalguja Cūrṇa | Cr | 24 | I |
|  | Avalgujādya Cūrṇam | Cr | 58 | I |
|  | Bākucī Bīja Cūrṇa  | Cr | 47,23, 10,15 | I |
|  | Bākucī Cūrṇa  | Cr | 13, 24 | I |
|  | Bākucī Cūrṇa with Asanādi Gad Kaṣāya | Cr | 3 | I |
|  | Bākucī Vaṭī | Vt | 50 | I |
|  | Bākucī Yoga | Cr | 58, 14 | I |
|  | Bākucīkādya Cūrṇam | Cr | 14,50 | I |
|  | Bākucīkādya Tailam | Tl | 14 | I |
|  | Bākucyadi Leha | Al | 14, 50 | I |
|  | Bhallātaka Avaleha | Al | 23 | I |
|  | Bhallātakādya Cūrṇa  | Cr | 14 | I |
|  | Brahma Rasa | Rk | 43, 38, 41 | I |
|  | Bṛhat Mañjiṣṭhādi Kwātha | Kw | 9 | I |
|  | Candraprabhā Vaṭīkā(Rasa) | Rs/ Vt | 34 | I |
|  | Candrakalādi Vaṭaka | Vt | 5 | I |
|  | Candrakānta Rasa | Rk / Vt | 50 | I |
|  | Candrakānti Rasa | Rk | 41 | I |
|  | Candraprabhā Vaṭī Pañcamī | Vt | 50 | I |
|  | Candraśaklādi Vataka | VT | 3 | I |
|  | Canḍrūdro Rasa | Rk | 43 | I |
|  | Carmakanṭako Rasa | Rk | 47 | I |
|  | Devadāli Prayoga | Cr | 58 | I |
|  | Dhātryado Avaleha | Al | 14 | I |
|  | Dhatryavaleha | Al | 23 | I |
|  | Dwititya Khadirariṣṭa | Ar | 14 | I |
|  | Gandhaka Druti | D | 50 | I |
|  | Gandhaka Kalpa (Pañcādaśa) | K | 50 | I |
|  | Guducyādi Kwātha | Kw | 58 | I |
|  | Gulena Piṇḍi | Pi | 3 | I |
|  | Hema Sundara Rasa | Rk | 38 | I |
|  | Indudhara Rasa | Rk | 38 | I |
|  | Kākaṇghna Vaṭī | Vt | 58 | I |
|  | Kanaka Bindu Nāmaṛṣṭa | Ar | 15 | I |
|  | Kanakāṛṣṭa | Ar | 14, 23, 58 | I |
|  | Khadirādi Vaṭaka | VT | 3 | I |
|  | Khadirādi Vaṭīka | Vt | 14 | I |
|  | Khadirāsava | As | 14, 23 | I |
|  | Kṛmikāṣṭhānalo Rasa | Rk | 58 | I |
|  | Kuṣṭha Shailendra Rasa | Rk | 58 | I |
|  | Kuṣṭha Shailendra Vajro Rasa | Rk/ Vt | 50 | I |
|  | Kuṣṭhadālana Rasa | Rk | 43, 40 | I |
|  | Kuṣṭhādi Cikitsā Pānā | Pn | 10 | I |
|  | Kuṣṭhaghno Rasa II | Rk | 50 | I |
|  | Kuṣṭhanāśano Rasa | Rk | 50 | I |
|  | Kuṣṭhanikrinto Rasa | Rk | 47 | I |
|  | Kuṣṭhanikritāri Rasa | Rk | 43 | I |
|  | Kuṣṭhāntaka Rasa | Rk / Vt | 50 | I |
|  | Kuṣṭhe ekonvinśo Lauha Kalpa | Lo | 34 | I |
|  | Kuṣṭhahara Devdālī Kalpa(Caturtha) | Cr | 37 | I |
|  | Madhya Mañjiṣṭhā Kwātha | Kw | 9 | I |
|  | Mahā Tāleśwara Rasa | Rk | 41, 40 | I |
|  | Mahā Bhallātaka Avaleha | Al | 9 | I |
|  | Mahā Bhallātaka linctus |  | 15 | I |
|  | Mahā Mṛtyunjaya Rasa | Rk | 47 | I |
|  | Mahā Nīla Ghṛtam | Gr | 58 | I |
|  | Mahā Raudreśwara Rasa | Rk | 58 | I |
|  | Mahā Śleṣma Kālānalo Rasa | Rk | 47 | I |
|  | Mahā Trigandha Rasa | Rk | 43 | I |
|  | Mahā Vajrapaṇi Rasa | Rk | 58 | I |
|  | Mañjiṣṭhādi Kwātha | Kw | 43, 58, 56 | I |
|  | Mañjiṣṭhādi Kwātha (Madhyama) | Kw | 24 | I |
|  | Mañjiṣṭhādya Mahā Kaṣāya | Ky | 14 | I |
|  | Navāyasa Rasāyana | Al | 13 | I |
|  | Nimbādī Kalka | Kl | 23 | I |
|  | Pañca Nimbaka Avaleha | Al | 9 | I |
|  | Pañcanimba Cūrṇa | Cr | 13,23 | I |
|  | PañcaNimbādī Cūrṇa  | Cr | 20, 58 | I |
|  | Panchanana Rasa | Rk | 58 | I |
|  | Paśupati Cūrṇa  | Cr | 14 | I |
|  | Pathya Vaṭaka | VT | 14, 58 | I |
|  | Pathyādi Vaṭaka | VT | 3,15 | I |
|  | Pathyādi Yoga | Cr | 14 | I |
|  | Pittala Rasāyana | Cr | 49 | I |
|  | Pṛthupañcanimba Cūrṇa  | Cr | 14 | I |
|  | Rājrājeśwara Rasa | Rk | 41 | I |
|  | Rasa Parpaṭī ka āmayika praYoga | Pt | 55 | I |
|  | Rasāyana Vidhi | Cr | 3, 5 | I |
|  | Rasendra Cudamaṇi Rasa | Rk | 43 | I |
|  | Sarvānga Sundari Guṭikā | Gt | 23, 58 | I |
|  | Sarveśwara Rasa | Rk | 34,33 | I |
|  | Śaṣānkalekhādi leha | Al | 23 | I |
|  | SehaPānā | Pn | 56 | I |
|  | Śaṣānkalekhādi Avaleha | Al | 3,5,15,58 | I |
|  | Śaśilekhā Vaṭī | Vt | 23 | I |
|  | Śwetāri Rasa | Rk | 38 | I |
|  | Świtra Kuṣṭha Cikitsā (Kwātha) | Kw | 9 | I |
|  | Świtrāri Yoga | Cr | 58 | I |
|  | Siddhatāleśwara Rasa | Rk | 40 | I |
|  | Snehapāka | SP | 2 | I |
|  | Somānala Rasa | Rk | 58 | I |
|  | Somārāji Bīja Cūrṇa | Cr | 24, 13 | I |
|  | Somārājī Ghṛta | Gr | 9 | I |
|  | Somārājī Piṇḍi | Pi | 5 | I |
|  | Somārājī Rasāyana | Cr | 58 | I |
|  | Someśwara Rasa( Vaṭī) | Rk/Vt | 43 | I |
|  | Swayambhuva guggulu | Gu | 9, 14 | I |
|  | Tāleśwara Rasa | Rk | 58 | I |
|  | Tāleśwara Rasa (Dwitīya) | Rk | 38 | I |
|  | Tālaeśwara Rasa (Prathama) | Rk | 38 | I |
|  | Tālkeśwara Rasa | Rk | 33 | I |
|  | Tālkeśwara Rasa (ekonvinśati) | Rk | 50 | I |
|  | Tālkeśwara Rasa (Ṣoḍaśa) | Rk | 50 | I |
|  | Tālkeśwara Rasa (Vriddhādya) | Rk/Vt | 50 | I |
|  | Tilabākucya Yoga | Cr | 58 | I |
|  | Triphalā Guggulu | Gu | 58 | I |
|  | Triphalā Guṭikā | Gt | 23 | I |
|  | Triphalā Modaka | Md | 8, 23, 50 | I |
|  | Triphalādi Taila | Tl | 27 | I |
|  | Triphalādi Yoga | Cr | 58 | I |
|  | Triphalādya Guṭikā | Gt | 15, 19 | I |
|  | Tuvarasthi Vaṭaka | VT | 14 | I |
|  | Vīrchanḍeśwara Rasa | Rk | 47, 58 | I |
|  | Viḍangādi Modaka | Mo | 15 | I |
|  | Viḍangādi Piṇḍi | Pi | 5 | I |
|  | Viḍangādi Vaṭīka | Vt | 14 | I |
|  | Vijayarasa Guṭikā | Gt | 34 | I |
|  | VijayaVaṭī | Vt | 58 | I |
|  | VinsatitamoLauha kalpa | Vt | 34 | I |
|  | Yogarāja Rasāyana | Cr | 3 | I |
|  123. | Aidgajādi Udvartana | Uv | 14 | E |
|  124. | Avalguja Bīja in Gomūtra Lepa | Lp | 1 | E |
|  125. | Avalguja Bīja with Hastimūtra Lepa | Lp/ gharshana | 5 | E |
|  126. | Avalgujādi Lepa | Lp | 5,58 | E |
|  127. | Dārādi Lepa | Lp | 58 | E |
|  128. | Grahadhūmādi Lepa | Lp | 14,58 | E |
|  129. | Guñjādi Lepa | Lp | 58 | E |
|  130. | Haridrā Tailam | Tl | 57 | E |
|  131 | Haritakyādi Lepa | Lp | 12,14,58 | E |
|  132 | Kuṣṭha Rākṣasa Tailam | Tl | 58 | E |
|  133. | Kuṣṭha roge Somārājī Ahyanga | Ab | 22 | E |
|  134. | Kuṣṭhaghna Rasa | Rk | 33 | E |
|  135. | Kuṣṭhaghna Lepa | LpWith saindhav | 34 | E |
|  136. | Karvīrādi Lepa | Lp | 60 | E |
|  137. | Mahā MaricyādiTaila | Tl | 9 | E |
|  138. | Mahā Mārtaṇda Tailam | Tl | 58 | E |
|  139. | Maheśwara Ghṛta | Gr | 23 | E |
|  140. | Manahśilādya Tailam | Tl | 37 | E |
|  141. | Pathyādi Lepa | Lp | 9,22 | E |
|  142. | Pūrva Candra Lepa | Lp | 58 | E |
|  143. | Samudrafenādi Lepa | Lp | 2 | E |
|  144. | Śaśānkalekhādi Taila  | Tl | 10 | E |
|  145. | Śinśapā Sāra Taila | Tl | 14 | E |
|  146. | Świtra Kuṣṭha Cikitsā (Lepa) | Lp | 9 | E |
|  147. | Suchi Yoga |  | 56 | E |
|  148. | Somārājī Udvartana | Uv | 9, 58 | E |
|  149. | Viḍangādi Lepa | Lp | 13,24 | E |
| I&E |  |
|  150. | Nīla Ghṛta | Pn,Ab, Ns | 2 | I&E |
|  151. | Rasāyana Vidhi | Cr with khadira Kwātha | 3 | I&E |

**Table 3**: Bākucī as an ingredient of various formulationsindicated in Kuṣṭha

***4. Eighteen types of* Kuṣṭha*/ Sarva* Kuṣṭha:**

Bākucī was found as an ingredient in 35 formulations being indicated in 18 types of Kuṣṭha/Sarva Kuṣṭha and recommended for internal administration. The maximum being Rasa formulations 14, single formulations of Modaka, Abhayā, Ariṣṭa and Lauha and the remaining Cūrṇa (10)

Bākucī was found to be an ingredient of seven formulations indicated for external administration. All 7 are in Taila form.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Formulations** | **Dosage** | **Reference** | **Administration** |
|  | Apar Tālakeśwara Rasa | Rk | 43 | I |
|  | Avalguja Bīja Cūrṇa  | Cr | 13 | I |
|  | Bākucyādi Cūrṇa  | Cr | 50 | I |
|  | Bhallātaka Rasāyana | Cr | 57 | I |
|  | Bṛhat Mañjiṣṭhādi Kwātha | Kw | 23, 8 | I |
|  | Caturtha Nimbādī Mahā Kaṣāya  | Ky | 10 | I |
|  | Haritāleśwara Rasa | Rk | 43 | I |
|  | Khadirāriṣṭa | Ar | 24 | I |
|  | Kuṣṭhānkuśo Rasa | Rk/Vt | 50 | I |
|  | Kuṣṭha Kālānala Rasa | Rk | 24 | I |
|  | Kuṣṭhanāśana Rasa | Rk | 34,50 | I |
|  | Laghu Mañjiṣṭhādi Kwātha | Kw | 20 | I |
|  | Mahā Raudeśwara Rasa | Rk | 43 | I |
|  | Mahā Tāleśwara Rasa | Rk | 34, 43,8 | I |
|  | Mahā Tiktaka Ghṛta | Gr | 14 | I |
|  | Mañjiṣṭhā-Abhyā | Ab | 23 | I |
|  | Mañjiṣṭhādi Kwātha  | Kw | 27 | I |
|  | Mañjiṣṭhādi Kwātha (Bṛhat) | Kw | 24 | I |
|  |  Pañca Nimba Cūrṇa | Cr | 22 | I |
|  | Pañca Nimbādī Cūrṇa  | Cr | 15 | I |
|  | Sarva Kuṣṭhanśa Cūrṇam | Cr with madhu Ghṛta | 34 | I |
|  | Śailendra Rasa | Rk | 50 | I |
|  | Śaṣānkalekhādi Cūrṇa  | Cr | 13,57 | I |
|  | Śunṭhyādi Mahā Kaṣāya  | Ky | 10, 20 | I |
|  | Śweta Kuṣṭhari Rasa | Rk | 37 | I |
|  | Somānalo Rasa | Rk | 43 | I |
|  | Somarājī Ghṛta | Gr | 15 | I |
|  | Somarājī Yoga | Cr | 43 | I |
|  | Tāleśwara Rasa | Rk | 58 | I |
|  | Tālakeśwara Rasa | Rk | 9,43,58,47 | I |
|  | Tāmra Yoga | Cr | 58 | I |
|  | Trigandh Rasa | Rk | 50 | I |
|  | Triphalādi Modaka | Md | 58,48, 15 | I |
|  | Vajradhāra Rasa | Rk | 34, 43 | I |
|  | Yogarāja Loham | Lo | 50 | I |
|  | Citraka Taila. | Tl | 43 | E |
|  | Kandarpasāra Taila | Tl | 24 | E |
|  | Kuṣṭhari Tailam | Tl( Ab,Lp) | 34 | E |
|  | Mahā Triṇaka Taila | Tl | 24, 58 | E |
|  | Manahśilādi Tailam | Tl | 43 | E |
|  | Somarājī Taila I | Tl | 24 | E |
|  | Somarājī Taila II | Tl | 24 | E |

**Table 4:** Bākucīas an ingredient of various formulationsindicated in SarvaKuṣṭha*/* 18 types of Kuṣṭha

**5.Śweta Kuṣṭha *(leukoderma/ vitiligo)***

Bākucī was found as an ingredient in 55 formulations being indicated in Sweta Kuṣṭha/ Świtra and prescribed for internal administration and 26 formulations for external administration. Internally, the Rasa formulations being 22, Cūrṇa(16) and single formulations of Avaleha, Guṭikā, and Guḍa.Among the external formulations, 19 in the form of Lepa, 4 Taila, 2 ghrita and single tutha prayoga.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Formulations** | **Dosage form** | **Reference** | **Administration**  |
|  | Avalgujādi Guṭikā | Gt | 24, 13 | I |
|  | Bākucī Bīja Cūrṇa  | Cr | 14, 15 | I |
|  | Bākucī Bījādi Yoga | Cr | 14 | I |
|  | Bākucī Prayoga | ky | 58, 12 | I |
|  | Bākucyādi Leha | Al | 58 | I |
|  | Bhṛngādi Cūrṇa  | Cr | 20 | I |
|  | Bibhītakādi Kwātha | kw | 24, 27 | I |
|  | Candraprabhā Vaṭī | Vt | 20 | I |
|  | Candraprabhā Vaṭī I | Vt | 43 | I |
|  | Candraprabhā Rasa  | Rk | 21 | I |
|  | Candraprabhā Vaṭī pañcami | Vt | 50 | I |
|  | Dhātri Khadira Kwātha | kw | 10,13, 8 | I |
|  | Dhātryādi Kwātha II | kw | 24 | I |
|  | Dhātryādi Yoga | Cr | 14 | I |
|  | Falguādi Kalka Pānā | K | 14 | I |
|  | Kākodumbara Avalguja Curna | Cr | 9 | I |
|  | Kākodumbarādi Yoga | Cr | 14 | I |
|  | Kākodumbarīkādi Kwātha | Kw | 27 | I |
|  | Khadirādi Kaṣāya  | ky | 23 | I |
|  | Kuṣṭha Nāśana Prayoga | Cr | 37 | I |
|  | Laghu Tāleśwara Rasa | Rk | 37 | I |
|  | Mahā Bhallātaka Guḍa | G | 10 | I |
|  | Mahā Nili Ghṛta | Gr | 15 | I |
|  | Mañjiṣṭhādi Kwātha- Madhyama | kw | 58 | I |
|  | Mitrapañcak Yoga | Cr | 43 | I |
|  | Nīla Ghṛta | Gr | 11 | I |
|  |  Paśupati Cūrṇa  | Cr | 20 | I |
|  | Rasāyana Vidhi | Cr with Gomūtra | 3 | I |
|  | Sankoca Rasa Dwitīya | Rk/Vt | 50 | I |
|  | Sarweśwara Rasa | Rk | 43 | I |
|  | Śashāṅka Rasa | Rk | 43, 50 | I |
|  | Śaśilekhā Rasa | Rk | 43, 58 | I |
|  | Śaśilekhā Vaṭī | Vt | 40 | I |
|  | Śweta Kuṣṭhāri Rasa | Rk | 39, 58, 43 | I |
|  | Śwetāri Rasa | Rk | 58,40,24 | I |
|  | Śwetārikā Rasa | Rk | 43 | I |
|  | Świtra Nāshana Yoga | Cr | 37 | I |
|  | Świtra Kuṣṭhāri Rasa | Rk | 34, 56,58 | I |
|  | Świtrāntaka Rasa | Rk | 34 | I |
|  | Świtrāri Yoga(Dwitīya) | Rk | 50 | I |
|  | Świtrāri Yoga (tritiya) | Cr | 37 | I |
|  | Singh Rasa | Rk | 50 | I |
|  | Somarājī Rasāyana 2 | Cr | 57 | I |
|  | Somarājī Yoga | Cr | 58 | I |
|  | Somnāth Rasa Caturtha | Rk/Vt | 50 | I |
|  | Suryaprabhā Rasa | Rk | 33 | I |
|  | Świtra Nāśana Rasa | Rk | 43 | I |
|  | Świtra Nāśano Yoga (Kwātha) | kw | 16 | I |
|  | Świtrāri Rasa | Rk | 43 | I |
|  | Tālaka Yoga Dwitīya | Cr | 50 | I |
|  | Tāleśwara Rasa (Vriddha) | Rk | 37 | I |
|  | Tālakeśwara Rasa | Rk | 58 | I |
|  | Tālakeśwara Rasa(Vriddhādya) | Rk/ Vt | 50 | I |
|  | Udayādi Rasa | Rk | 8 | I |
|  | Udayāditya Rasa | Rk | 43, 34 | I |
|  | Avalguja Bīja Cūrṇa Lepa | Lp | 5 | E |
|  | Avalguja Bīja in Gomūtra Lepa | Lp | 1 | E |
|  | Avalguja Bīja Pralepa | Lp | 13 | E |
|  | Avalgujādi Lepa | Lp | 2,44 | E |
|  | Bākucī Bījādi Lepa | Lp | 3,22 | E |
|  | Bākucīkādi Lepa | Lp | 14,58 | E |
|  | Bākucyādi Lepa | Lp | 15,43 | E |
|  | Citrakādi Lepa | Lp | 22 | E |
|  | Gajleṇdajādi Guṭikā | Lp | 2,3 | E |
|  | Guñjādi Lepa | Lp | 19 | E |
|  | Haridrādi Lepa | Lp | 43 | E |
|  | Haritakyādi Lepa | Lp | 43 | E |
|  | Hartālādi Lepa | Lp | 8, 43 | E |
|  | Katukādi Taila | Tl | 15 | E |
|  | Kākodumbarikādi Lepa | Lp | 3 | E |
|  | Kuṣṭha Rākṣasa Taila | Tl | 24 | E |
|  | Mahā Nīla Ghṛtam | Gr | 2,58 | E |
|  | Pañcanan Taila | Tl | 24 | E |
|  | Sarva Świtrahar Lepa | Lp | 8 | E |
|  | Savarnakar Lepa | Lp | 24,40 | E |
|  | Savarnakartā Lepa | Lp | 58 | E |
|  | Świtra Cikitsā Lepa | Lp | 10 | E |
|  | Świtrahar Taila | Tl | 37 | E |
|  | Somarājī Ghṛta | Gr | 58 | E |
|  | Tālakādi Lepa | Lp | 58, 20 | E |
|  | Tuthādi Prayoga |  | 22 | E |

**Table 5:** Bākucī as an ingredient of various formulationsindicated in Śweta Kuṣṭha/Świtra

***6. Other Twaka* vikāra *(skin diseases)***

Bākucī as an ingredient is also described in formulations indicated in other minor skin diseases such as Galata Kuṣṭha, Visarpa, Kaṇḍu, Kilāsa, śītapitta etc.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Formulations** | **Dosage form** | **administration** | **Reference** |
| **Galata Kuṣṭha** |
| 1. | Candraśekhara Rasa | Vt | I | 50 |
| 2. | Kuṣṭhebha kesarī Rasa | Rk | I | 37 |
| 3. | Mahā Kālo Rasa | Rk | I | 43 |
| 4. | Nāgeśwara Rasa | Rk | I | 46 |
| 5. | Phaṇi Yoga | Cr | I | 43 |
| 6. | Somarājī Rasāyana III | Cr | I | 57 |
| 7. | Somarājī Yoga | Cr | I | 58 |
| 8. | Tānḍava Rasa | Rk | I | 58, 43 |
| **Visarpa(Erysepales)** |
| 1. | Mahā Nīla Ghṛta | Gr | I | 11 |
| 2. | Visarpahara Taila | Tl | I | 34 |
|  3. | Ankolādi Lepa | Lp | E | 43 |
|  4. | Visarpnāśama Tailam | Tl/Lp | E | 34 |
| **Kaṇḍu(Itching)** |
|  1. | Avalgujādi Yoga | Cr | I | 14 |
| 2. | Laghu Mañjiṣṭhādi Mahā Kaṣāya  | Ky | I | 10 |
|  3. | Mahā Mañjiṣṭhādi Kwātha(Yoga Ratnāker) | Kw | I | 44 |
| 4. | Mañjiṣṭhādi Kaṣāya  | Ky | I | 20 |
|  5. | Mañjiṣṭhādi Kwātha | Kw | I | 19 |
|  6. | Aidgajādya Udvartana | Uv | E | 58 |
|  7. | Avalgujādi Lepa | Lp | E | 58, 24 |
|  8. | Avalgujādi Yoga | Lp | E | 23 |
|  9. | Cakramardādi Lepa | Lp | E | 22 |
|  10. | Kuṣṭhado Pāradadi Lepa | Lp | E | 22 |
|  11. | Lingādi Pīdikā | Poultice | E | 34 |
|  12. | Mahā Mārtanḍa Taila | Lp/ Tl | E | 34 |
| **Kilāsa(Vitiligo)** |
| 1. | Avalgujādi Cūrṇa | Cr | I | 3 |
| 2. | Avalgujādi Kwātha | Kw | I | 3 |
|  3. | Bākucī Cūrṇa  | Cr Gomūtra | I | 34 |
|  4. | Kāsisbaddha Rasa(with madhu) | Rk | I | 34 |
| 5. | Kilāsa Nāshana Rasa | Rk | I | 58, 34, 56 |
|  6. | Avalguja Bīja in Gomūtra Lepa | Lp | E | 01 |
|  7. | Ayorajādi Lepa | Lp | E | 58, 20,23, 43 |
|  8. | Mahānīla Ghṛta | Gr | E | 3 |
| **Śītapitta:** |
|  1. | Amṛtādi Lepa | Lp | E | 58 |
|  2. | Viḍangādi Taila | Tl | E | 24, 58 |
| **Kachchu Kuṣṭha (Itching)** |
|  1. | Avalgujādi Yoga | Cr | I | 14 |
| **Śyāmaka, Vaṅga(Localised hyperpigmentation of skin)** |
|  1. | Bākucī Cūrṇa  | Cr | I | 21 |
| **Prasupti Kuṣṭha** |
|  1. | Brahma Rasa | Rk | I | 24 |
| **Treatment of Carmadala due to Vāta:** |
|  1. | Lepa to be anointed on breast | Lp | E |  4 |
| **Jihvaka Kuṣṭha** |
|  1. | Nārāca Rasa Saptama | Rk / Cr | I | 50 |
| **Dhātu, Twaka gat Doṣa** |
|  1. | Nīla Ghṛta | Gr | I | 2 |
| **All skin disorders:** |
|  1. | Mahā Tri Taila | Tl | E | 13 |
|  2. | Mañjiṣṭhādi Mahā Kaṣāya  | Ky | I | 15 |

**Table 6:** Bākucī as an ingredient of various formulationsindicated in other twakvikaar

***7. Other than skin Diseases:***

***(a) Major Diseases:***

For internal administration, Bākucī is also found to be an ingredient of the formulations used in 16 other major diseases such as twelve in Vatarakta(gout), ten in Viṣa(poison) seven in Rasāyana(rejuvenation), six in Jwara(fever), six in Medoroga(obesity), six in Prameha(Diabetes), five in Vata Vikara(neuromuscularanomalies), five in Kṛmi (worminfestation), four in geriatric disorders, four in Kapharoga chikitsa, three in Vājikaraṇa(aphrodosiasis), three in Bhagandara(fistula), three in vali-palita(wrinkling and greying of hair), two in Ksudra rogas, two in Badhirya(deafness), two in Kasa(cough).

For external administration, one each in Jwara(anjana), Vali-palita(Taila), Prameha(Lepa) and bhagander(Ghṛta) and two in vatarakta(Taila and Lepa) are described.

Both internally and externally, single Taila formulation is described.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Fomulations** | **Dosage form** | **Reference** | **Administration**  |
| **Jwara(Fever)** |
| 1. | Ānanda Bhairavī Guṭikā | Gt | 41 | I |
| 2. | Bhūtnātha Bhairava Rasa | Rk/Vt | 43 | I |
| 3. | Bhūtnātha Bhairavo Rasa  | Vt | 50 | I |
| 4. | Jwarakesarī Rasa | Rk | 50 | I |
| 5. | Mahābhra Vaṭī | Vt | 24 | I |
| 6. | Śṛiṅgyādi Kwātha | Kw | 10, 23,9 | I |
|  7. | Ardhanāriśwara Rasa | Rk/An | 43,58 | E |
| **Vātavikāra(Neuromuscular anomalies)** |
| 1. | Asgandhādi Cūrṇa  | Cr | 48, 5, 14 | I |
|  | Bākucī Cūrṇa  | Cr | 21 | I |
| 2. | Bākucyādi Cūrṇa  | Cr | 20 | I |
| 3. | Somarājī Ghṛta | Gr | 24 | I |
| 4. | Swayambhav Guggulu Vaṭī | Vt | 58 | I |
| 5. | Vyoṣādya Guṭikā | Gt | 14 | I |
| **Rasāyana(rejuvenation)** |
| 1. | Ābhādi Cūrṇam | Cr | 58 | I |
| 2. | Kṣayādi Navam Lauha Kalpa |  | 34 | I |
| 3. | Mahābhra Vaṭī | Vt | 58 | I |
| 4. |  Nimba Cūrṇa  | Cr | 48 | I |
| 5. | Śweta Bākucī Bīja Cūrṇa(medhya) | Cr | 2 | I |
| 6. | Trayūṣaṇādya Cūrṇa  | Cr  | 58 | I |
|  7. | Triphalādya Vaṭaka | VT | 14 | I |
| **Vājikaraṇa(aphrodisiasis)** |
| 1. | Hema Sundara Rasa | Rk | 24, 41 | I |
| 2. | Jālukā Yoga Pratham | J | 50 | I |
| 3. | Śaśilekhādi Jalukā | J | 60 | I |
| **Jarā*/* Vriddhavasthā*/* Dīrghāyu(Geriatric disorders)** |
| 1. | Bākucyādi loham | Lo | 50, 58 | I |
| 2. | Devdāli Kalpa | Kl | 58 | I |
| 3. | Vāteśwara Rasa | Rk | 50 | I |
| 4. | Rasāyana Vidhi | Cr | 3 | I |
| **Vātarakta(Gout)** |
| 1. | Amṛta Bhallātaka Avaleha | Al | 20 | I |
| 2. | Bṛhat swayambhuvo guggulu | Gu | 14 | I |
| 3. | Bṛhat Guduci Taila | Tl | 58 | I |
| 4. | Guducyādi Kaṣāya  | ky | 20 | I |
| 5. | Kuṣṭhahar Devdālī kalpa (ashtam) | Kl | 37 | I |
|  6. | Mahā Mañjiṣṭhādi Mahā Kaṣāya  | Ky | 10 | I |
| 7. | Mañjiṣṭhādi Kwātha- Madhyama | kw | 58 | I |
| 8. | Nimbādī Cūrṇa  | Cr | 24 | I |
| 9. | Sarweśwara Rasa(with madhu Ghṛta) | Rk | 43 | I |
| 10. | Swayambhuvo Guggulu | Gu | 58 | I |
| 11. | Vajra Guggulu | Gu | 50 | I |
| 12. | Vātaraktāntaka Rasa | Rk | 41, 47, 56 | I |
|  13. | Rudraguduci Tailam | Tl | 58 | E |
|  14. | Saptāmṛta Lepa | Lp | 58 | E |
| **Medoroga(obesity)** |
| 1. | Trayūṣṇādi Lauha | Lo | 41, 40, 23, 43 | I |
| 2. | Trayūṣṇādi Lauham Dwitīya | Lo | 50 | I |
| 3. | Trayūṣṇādi Lauham Pratham | Lo | 50 | I |
| 4. | Trikatrayādi Lauham Tritiya | Lo | 50 | I |
| 5. | Trimūrtī Rasa | Rk | 20 | I |
| 6. | Trimurti Rasa Prathama | Rk / Vt | 50 | I |
| **Kṛmi(Worm infestation)** |
| 1. | Bākucī Cūrṇa  | Cr | 3 | I |
| 2. | Haridrākhanda | Al | 24 | I |
| 3. | Kṛmi Kāṣṭhānala Rasa | Rk | 41 | I |
| 4. | Kṛmighna Cūrṇa  | Cr | 57 | I |
| 5. | Śweta Kuṣṭhaar Cūrṇa  | Cr with mand ushna jala | 34 | I |
| **Kṣūdrarogas** |
| 1. | Candraprabhā Rasa | Rk/ Vt | 50 | I |
| 2. | Rakshash Rasa | Rk | 50 | I |
| **Valī-palita(Wrinkling in skin and greying of hair)** |
| 1. | Bhṛngādi Cūrṇa  | Cr | 50, 21 | I |
| 2. | Nimbādī Cūrṇa  | Cr | 21 | I |
| 3. | Somarājī Cūrṇa  | Cr | 15 | I |
|  4. | Mahā Nīla Tailam | Tl | 1,14,15 | E |
| **Badhirya(Deafness)** |
| 1. | Bākucī Cūrṇa  | Cr | 15 | I |
| 2. |  Muśalyādi Cūrṇa  | Cr | 34 | I |
| **Bhagander(fistula in ano)** |
| 1. | Pittaj Bhagander | Cr | 20 | I |
| 2. | Rasarāja Rasa  | Rk | 44 | I |
| 3. | Rasāyana Vidhi | Cr with katwang kutaja Kaṣāya  | 3 | I |
|  4. | Mahā Nīla Ghṛtam | Gr | 58  | E |
| **Kaas(Cough)** |
| 1. | Tāmra Parpaṭī Rasa | Pt | 20 | I |
| 2. | Vaśiṣṭokta Haritaki Rasāyana | Cr | 5, 3 | I |
| **Prameha(Urinary disorder)** |
| 1. | Candanādi Taila | Tl | 20 | I |
| 2. | Candraprabhā Vaṭī Dwitīya | Rk / Vt | 50 | I |
| 3. | Jalaja Amṛta Rasa | Rk | 20 | I |
| 4. | Meha Gaja Kesari Rasa | Rk | 20 | I |
| 5. | Trayūṣaṇādya lauha | Lo | 20,58 | I |
| 6. | Vang Avaleha Dwitīya | Al | 50 | I |
|  7. | Udumbarādi Lepa | Lp | 24 | E |
|  8. | Candanādi Taila | Tl | 20 | I&E |
| **Kapha roga chikitsa(Diseases due to kapha roga)** |  |
| 1. | Kṛmi Kāsthānala Rasa | Rk/ vt | 24 | I |
| 2. | Mahā Śleṣmakālānala Rasa | Rk | 40 | I |
| 3. | Mahā Śleṣmakālāntaka Rasa | Rk | 41 | I |
| 4. | Swachchanda Bhairav Rasa (ekadaśa) | Rk | 50 | I |
| **Visha/ Visha dagdha vrana( Poison/Poison burnt ulcer)** |
|  | Bākucī Cūrṇa  | Cr | 34 | I |
|  | Eksar Yoga (sarpa visha) |  | 2 | I |
|  | Khadiradi Ghṛta | Gr | 15 | I |
|  | Khadirādi Pancatikta Ghṛta | Gr | 58 | I |
|  | Payasyādi Kwātha | Kw | 34 | I |
|  | Mahā Gandh Hastināma Agada | Ag | 1,58 | I |
|  | Mahā Mṛtyuñjaya Guṭikā | Gt | 58 | I |
|  | Mahā Sugandhi Nāma Agada.  | Ag | 2 | I |
|  | Sūtasomarājī Yogam | Rk | 34 | I |
|  | Viṣaghna Yāvagu | Yāvagu | 57, 4, 01 | I |

**Table 7:** Bākucī as an ingredient of various formulationsindicated in other than skin disease:

***(b) Minor disease conditions:***

Bākucī as a single drug with various anupāna (adjuvant) or as an ingredient in certain formulations indicated for both internal as well as external administration is described in the management of various diseases. The details have been described in table 8.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Formulation** | **Dosage form** | **Disease condition** | **Reference** |
|  | Āma Parpaṭīka | Pt | Saṅgrahṇi(malabsorption syndrome)Atisāra(Diarrhoea) | 24,51 |
|  | Ārdrakādi Cūrṇa  | Cr | Swara | 21 |
|  | Agnimukha Cūrṇa  | Cr | Guda k roga(ano rectal disease) | 48 |
|  | Aṣṭaṅga Ghṛta | Gr | Bāla upcaraṇiya adhyāya(Vāka, medhā, buddhi smṛti kṛta) | 5,14 |
|  | Avalguja sneha | Sn | Sharkarā, Aśmarī ( Calculus) | 2 |
|  | Bākucyādi Cūrṇam | Cr | All disorders | 58 |
|  | Bhallātaka Avaleha | Al | Arsa (Piles) | 14 |
|  | Bījapura Varti |  | Mukh roga( Diseases of mouth) | 15 |
|  | Citrakādi Pāna | Pn | Nāḍi Vraṇa ( Sinus) |  |
|  | Gulmagajakesari Rasa  | Rk / Vt | Vāta Gulma shūla(pain due to lymph due to vata doṣa)  | 50 |
|  | Kāmalāhara Yoga(Kwātha) | kw | Treatment of various diseases | 16 |
|  | Kṛmi Ghātini Vaṭī | Vt | Hṛllāsa,(Nausea) Śotha (Inflammation) | 24 |
|  | Mahā Mañjiṣṭhādi Kwātha( sharangdher) | kw | Upadaṅśa(Syphilis)Ślīpada (filariasis) | 44 |
|  | Nimbādī Mahā Kaṣāya  | ky | Pāṇḍu.(anaemia) | 15 |
|  | Pañca nimba Cūrṇa | Cr | Treatment of all disorders.  | 8,19 |
|  | PrabhākarGuṭikā | Gt | Treatment of all disorders | 19 |
|  | Rasāyana Vidhi | Cr with Uṣṇodaka | Gulma (Abdominal lump) | 3 |
|  | Rasāyana Vidhi | Cr with ikshurak, gokshura | Asśmari (Calculus) | 3 |
|  | Rasāyana Vidhi | Cr with viskira Rasa | Apatantraka (Hysteria with loss of consciousness) Aptānaka (Tetanic convulsions) | 3 |
|  | Rasāyana Vidhi | Cr with Gomūtra | Udara roga (Diseases of abdomen) | 3 |
|  21. | Rasāyana Vidhi | Cr with triphala Kwātha | Jalodara (Ascites) | 3 |
|  22. | Rasāyana Vidhi | Cr with sidhu | Śopha (Oedema) | 3 |
|  23. | Rasāyana Vidhi | Cr with ikshurak | Vardhamāna roga | 3 |
|  24. | Rasāyana Vidhi | Cr with Ghṛta in ritu kaal | Pūtravatī (Conceiving male child) | 3 |
| 25. | Śṛiṅgyādi Kwātha | kw | Tandrā (Drowsiness) | 24 |
| 26. | Sitasitādi Cūrṇa  | Cr | V-K Arśa ( Piles due to vitiation V-K ) | 58 |
| 27. | Somarājī Rasāyana 1 | Cr | Āhāra vaiṣamya jana roga | 57 |
|  28. | Somarājīkādi Vaṭaka | VT | Dantashūla ( Toothache) | 57 |
|  29. | Tilādi Cūrṇam | Cr with madhu Ghṛta | Pāda Dāha (Burning sensation of feet) | 34 |
|  30. | Vaśiṣṭhamuniprokta Rasāyana | Cr | Kṣata Kṣaya Cikitsā (emaciation due to injury) | 3 |
|  31.  | Vāyasi mūla Kwātha | Kw | Plīha Roga (splenic disorders) | 60 |
| External  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  1. | Mahā Nīla Tailam | Tl | Śiro Roga (Disorders of the head) | 14 |
|  2. | Mañjiṣṭhādya Tailam | Tl | Śiro Roga (Disorders of the head) | 14 |
| Karna roga (diseases of the ear) |
|  1. | Mahā Sneha | Ab | Paripota. | 2,3 |
|  2. | Tālapatrāyadi Taila | Tl | Unmantha, paali roga Cikitsā  | 2 |
|  3. | Unmantha Cikitsā  | Ns | Karna roga pratishedha | 5 |
| Other diseases: |
|  1. | Guñjādya Tailam | Tl | Apacī (Chronic Lymphadenopathy) | 58 |
|  2. | Guṭikā Pānā and Lepa | Gt | Ghrana roga (Diseases of the nose) | 43 |
|  3. | Śaśigirivarādi Lepa | Lp | Nāsā Arśa (Bleeding disorders of nose ) |  |
|  4. | Somrājyādi Pralepa | Lp | Yoni roga (Diseases of female genital tract) | 34 |
|  5. | Somarājī Taila | Tl | Nadi vrana (Sinus) | 13, 15, 58 |
|  6. | Syandan Taila | Tl | Vrana shaodhan ropana (Healing of wound) | 20 |
|  7. | Tālakādi Nasyama | Ns | K doṣa pradhāna Kṣaya (Emaciation due to vitiation of Kapha doṣa) | 58 |
|  8. | Unmattādi Dhāraṇa | Kpu | Unmāda (Psychosis) | 20 |
|  9. | Vyoṣādi Taila | Tl | Nasa Arṣa. (bleeding disorders of nose) | 15 |
| I&E |
|  1. | Suparṇīkā Kwātha and Mūla | Pn, Lp | Anidra (Insomnia) | 7 |

**Table 8:** Formulations containing Bākucī as an ingredient in certain specific disease condition:

**DISCUSSION**

There is no classical reference for *shodhana* of *Bakuchi.* Its *shodhana* has been indicated by Ayurveda experts in *Gomutra,* and *Ardraka swarasa* by *nimajjana* (dipping) for seven days [66]

From the above study, it is clear that Bākucī is an ingredient of formulations used not only for skin diseases but for other systemic disease as well. It is an ingredient of formulation indicated in almost all the major and minor skin diseases both internally and externally. The maximum number of formulations is indicated internally in skin diseases, particularly in different types of Kuṣtha and Świtra. Among coumarins Psoralen, isopsoralen, Bakuchicin are known to possess anti oxidant, anti microbial and anti inflammatory activity. [67] *Psoralea corylifolia* has been reported for pharmacological activities like anti-oxidant and antibacterial activity, anti-inflammatory, antifungal activity, antihelminthic activity etc [68].

Other than skin diseases, it is also an ingredient of major systemic diseases viz Vāta Rakta, Jwara, Rasāyana, Vājikaraṇa, Prameha, Viśa, Medo Roga etc. Coumarins have been reported to possess anti cancer, osteoblastic, hepatoprotective activity[67] In Valī-Palita and Bhagander; it is an ingredient of formulations indicated both internally and externally. Suṣruta has indicated Bākucī Cūrṇa as Medhya. Isopsoralen is reported to have anti depressant activity [67]. Aṣṭāṅga Sangraha has indicated the use of its Cūrṇa in various specific disease conditions along with different anupāna (adjuvant) viz Gulma, Aśmarī Udara roga and even for *Punsavan* (good progeny). Hence Bākucī can be considered a good Rasāyana drug too. Clinical trials have found its effectiveness in Vitiligo, Psoriasis and Acne Vulgaris[65] *Psoralea corylifolia* has been reported for other pharmacological activities like anti-oxidant, anti-tumour, antibacterial activity, anti-inflammatory, antifungal activity, anti-filarial, anti depressant, pesticidal and anti tumour activity etc [68]

**CONCLUSION**

In available classics, Bakuci is found to be used as an ingredient of more than 520 formulations, among which 407 are indicated for internal administration in 35 disease conditions and 109 for external application in 15 disease conditions. Present data may encourage researcher to think over the usage of drug in pharmaceutical and clinical research in aspects other than skin diseases.

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