



## A Comprehensive Review of *Pippali* (*Piper Longum* Linn.) in *Brihadtrayee*.

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### ABSTRACT:

**Background:** *Piper longum* linn is one of the important medicinal plant of the family piperaceae. It is highly valued from time immemorial because of its vast medicinal properties.

**Material & method:** Detailed review with special references to various *Yoga of Pippali* single as well as formulations, its indication, *Kalpana*, *Rogadhikara* were compiled from *Bruhadtrayi* like *Charak samhita*, *Sushruta samhita* & *Astang hriday*. Various synonyms, its *Rasa panchaka*, *Roghnta* were reviewed from all *Nighantu* available in digital format.

**Result:** All compiled data has been presented in tabular form. The result has been mentioned with special reference to formulations, *Kalpana*, indications, internal or external *Yoga* etc.

**Conclusion:** After reviewing all the data it is found that *Pippali* is widely used as single drug as well as an ingredient of various formulations. In formulations it may be used in the form of *Trikatu* or *Panchkola* or single herb as bioenhancer or to potentiate the effect of formulations and to make more penetrate and easily digestible formulations. The present article provides its detailed review from *Bruhadtrai* with special reference to its various formulations, *Kalpana*, its use as internal or external, indication etc. Findings of this review may help academicians and researchers as already reference.

**Keywords:** *Piper Longum* Linn, *Pippali*, Synonyms, *Bruhadtrayi*

## INTRODUCTION

Ayurveda is one of the ancient medicinal culture which has its roots in India. Ayurveda has always prioritized prevention than cure. *Pippali* is one of the widely used immunomodulator described in Ayurveda. It is also one of the best bioavailability enhancer. *Pippali* is also used as a home remedy for different health ailments. As we go

through the *Samhitas* and *Nighantus* it indicates that *Pippali* is very old Medicinal plant known to Indians for a long time. It is antiquity beyond 2000-3000 years.

Therapeutically, the drug *Pippali* covers large number of clinical managements where *Pippali* is employed various forms, modes and formulations in addition to a single drug as well as a component of *Trikatu* (comprising *Sunthi*,



*Marica and Pippali*) & *Panchkol* occupying significant role in therapeutics of indigenous system of medicine. *Pippali* also acts as *Rasayana*. It is used as *Prakshepaka dravya* in many formulations. It is highly valued from time immemorial because of its vast medicinal properties. *Pippali* is the maximum used herbal drug in different *Ayurvedic* formulations. In AFI (1,2 &3) out of 972 formulations 490 formulations contain *Pippali*. It is highly valued from time immemorial because of its vast medicinal properties. It is known for its *Deepana*, *Pachana*, *Medhya*, *Kanthy*, *Sanjnasthapana*, *Vedanasthapana karmas* and a well-known drug as *Yogavahi*, hence used extensively in therapeutics since *Vedic* period. The drug is described in detail in ayurvedic *Nighantus*. *Nighantus* have described drugs through their synonyms. *Nighantus* of later period have also written their properties and indications. Compiling the data about *Pippali* (*Piper longum*) will be a good resource for academicians and researchers. In this paper, the literature like synonyms, *Rasapanchaka*, various *Kalpans* used in *Bruhadtrayi*, actions and indications of *Pippali* has been compiled and the data obtained is presented systematically in tabular manner.

## MATERIALS AND METHOD

- Type of review – Narrative review
- In this review, information regarding *Pippali* is compiled from 23 classical texts of Ayurveda.
- Detailed review of drug *Pippali* where it is used in single drug as well as in various formulations with special reference to its various *Kalpans*, indication, internal or external formulations, *Rogadhikara* is done from *Bruhadtrayi* like *Charaka samhita*<sup>1</sup>, *Shushruta samhita*<sup>2</sup> & *Astang hridaya*<sup>3</sup>.
- Synonyms, properties, actions is compiled from 20 *nighantu* (lexicons) as available in digital format. Table 1: List of short abbreviations were created for different dosage form.

## RESULTS OF REVIEW

### **Vyutpati of Pippali:**

*Pru palana praranayo* Word *Pippali* is derived from *Pru Palana Praranayo Dhatu*.

*Pippali*: It gives nourishment to body.

### **Nirukti of Pippali:**

*Pirpathi paalayathi purusham purayathi cha ksheenam dhatunithi pru palanapurano*<sup>4</sup>.

The drug which nurtures the patient or helps in the process of *Dhatu purana* by acting upon the *Agni* and *Strotasa*, is called *Pippali*.

## Historical Review<sup>5,6,7,8</sup>

### **Veda**

- *Pippali* was originated at the time of *Samudra Manthan* along with *Amruta*.
- In *Jaiminiya Bramhana* it has been mentioned that *Vasishthamuni*'s son was consumed *Pippali* fruit for more progeny.
- Synonyms like *Atividdha bhesaja*, *Kshipta bhesaja*, *Vatikruta bhesaja* has been found in *Atharvaveda* & also has been quoted that it is useful in *Dhanurvata*, *Akshepaka* etc.
- *Pippali* mentioned in context of *Ardit*, *Dhanurvata*, *Akshepaka*, *Pakshaghat* etc.
- **Purana**
- *Pippali* was growing in backyard of the house during that time.
- *Pippali* was grouped under *Katurasa varga*.
- *Agnipurana* mention *Trikatu* in many places.
- *Pippali* is one of the religious thing used in *Vrata* also.
- *Pippali* is reported as *Vrushya*.

### **Synonyms of Pippali as per various classics:**

The drug is described in all ayurvedic *Nighantus*. *Nighantus* have described the phatmacognostic and pharmacological properties of plants by their synonyms.

### **A) Acc. to Habitat**

- 1)*Vaidehi*: One which grows in *Vaideha Desha*.
- 2)*Magadhi*: It is abundnaty available in *Magadha Desha*.
- 3)*Upkulya*: It grows near or alongside of water stream.

### **B) Acc. To morphology**

- 1)*Kana*: Fruits of *Pippali* are looks like small berries.
- 2)*Krishna*: It is black in colour.
- 3)*Kola*: It is pungent in taste.
- 4)*Shoundi*: It resembles with the trunk of elephant.
- 5)*Shyamahva*: have black coloured fruit when dried.
- 6)*Krishna phala*: it has black coloured fruits.
- 7)*Kali*: Fruits are black in colour
- 8)*Shyama*: Fruits are black in colour
- 9)*Bahubeeja*: Have lots of seeds

### **C) Acc. to pharmacological action**

- 1)*Pippali*: Its usage restores & maintains good health.
- 2)*Chapala*: By suppressing the diseases it brings healthy status so it is called as *Chapala*.
- 3)*Ushana*: Because of its *Rasa* it cause burning sensation on tounge.
- 4)*Tikshna*: Very potent drug.

- 5) *Vishwa*: Used widely.
- 6) *Vrishya*: it is used as aphrodisiac
- 7) *Tiktatandula*: Seeds have *Tikta Rasa*.
- 8) *Kshudratandula*: Seeds are small sized.
- 9) *Ushnaphala*: Fruit having *Ushna Guna*.
- 10) *Krushnaphala*: it has black coloured fruits.
- 11) *Katukandarasa*: Stem has *Katu Rasa*.

**Rogagnata of Pippali according to Various Classics:**

It is also found that *Pippali* has been indicated in 19 clinical conditions like *Shwasa*<sup>4,9,10,11,12</sup> *Kasa*<sup>4,9,10,11,12</sup> *Trushna*<sup>13</sup> *Jwara*<sup>13,4,9,10,11</sup> *Udara*<sup>4,10,13</sup> *Jantuamaya*<sup>13</sup> *Kustha*<sup>4,10</sup> *Prameha*<sup>4,9,10</sup> *Gulma*<sup>4,9,10</sup> *Arsha*<sup>4,9,10</sup> *Aama-Marutana*<sup>4,10</sup> *Pleeha*<sup>4,10,12</sup> *Shoola*<sup>4,10</sup> *Ajirna*<sup>4</sup> *Aruchi*<sup>4</sup> *Hridroga*<sup>4</sup> *Pandu*<sup>4</sup> *Krumi Roga*<sup>4,13</sup> *kshay*<sup>11</sup>

Table no:2. *Rasapanchaka* of *Pippali* According to various classics

**Classical Review of Pippali**

**Samhita kala:** The exhaustive information of *Pippali* in this period is seen.

In *Charaka Samhita Shadvirechanashatashritiyaadhyay* frequency index of *Pippali* is 9 times next to *Yastimadhu* (11times). *Acharya Charaka* in *Vimanasthana* has elucidated *Yogavahi karma* of *Pippali* due to this special property it is used in various formulations as a medicine and adjuvant. In *Atreybhadrakapya adhyaya* where *Katu Rasa Dravyas* are described as *Avrishya Dravya* but *Pippali* and *Sunthi* are exception to them.

Table 3: Name of the *Samhitha Gana/varga*

Table 4: Name of *Nighantu* and *Varga*:

Table 5: Total no of formulations of *Pippali* in *Bruhadtrayi*

**Some of the significant formulations have been compiled and presented below:**

**Internal Yoga-** *Bruhad Shatavri Ghruita Yoga*<sup>18</sup>(*Yonivyapada*), *Pippalyadi Yoga*<sup>19</sup>(*Yonivyapaad*), *Urustambh Nashaka Yoga*<sup>20</sup>(*Urusthabh*), *Pippalyadi Rasakriya*<sup>21</sup>(*Netraroga*), *Pipplyadi Churna*<sup>22</sup>(*Mukhroga*), *Trayushnadi Ghruit*<sup>23</sup>(*Swas*), *Patoladi Vaman Yoga*<sup>24</sup>(*Visarpa*), *Pipplyadi Pramthya*<sup>25</sup>(*Atisara*), *Kshara Vati*<sup>26</sup> (*Udara*), *Dhatri Avleha*<sup>27</sup>(*Pandu*), *Mandoor Vataka*<sup>28</sup>(*Pandu*), *Nagkeshara Ghruit*<sup>29</sup>(*Pandu*), *Duralabhaasava*<sup>30</sup>(*Grahni*), *Kiratyadhya Churna*<sup>31</sup>(*Grahani*), *Dashmooladhya Ghruit*<sup>32</sup>(*Grahani*), *Nagaradi Ghruit*<sup>33</sup>(*Arsh*), *Shatpal Ghruit*<sup>34</sup>(*Udara*), *Sarpi Modaka*<sup>35</sup>(*Kshatkshin*), *Eladi Gutika*<sup>36</sup>(*Kshatkshina*) etc.

**External Yoga-** *Prapoundrikadi Tail*<sup>37</sup>(*Palitya*), *Triphaladi Kwatha*<sup>38</sup>(*Mukhroga*), *Shigruvadi Lepa*<sup>39</sup>(*Vatik*

*Galgand*), *Tutthadi Churna*<sup>40</sup>(*Mukhroga*), *Pippalyadi Churna*<sup>41</sup>(*Jalaarbuda*), *Mamsyadi Anjan*<sup>42</sup>(*Timir*), *Triphaladi Lepa*<sup>43</sup>(*Vatrakta*), *Manhshiladi Anjana*<sup>44</sup>(*Jwara*), *Pipplyadi Varti*<sup>45</sup>(*Yonishodhana*), *Churnanajana*<sup>46</sup>(*Netraroga*), *Kapitthadi Yoga*<sup>47</sup>(*Visha*), *Pippalyadi Yoga*<sup>48</sup>(*Visha*), *Pipplyadi Anjana*<sup>49</sup>(*Visha*), *Trikatuadi Gharshan Churna*<sup>50</sup>(*Visha*), *Prapoundrikadi Dhup Yoga*<sup>51</sup>(*Kasa*), *Pippalyadi Pralep*<sup>52</sup>(*Arsh*), *Shirishbijadi Pralepa*<sup>53</sup>(*Arsh*), *Devdarvyadi Pradeha*<sup>54</sup>(*Udara*), *Avalgujadi Lepa*<sup>55</sup>(*Kushtha*), *Anah Varti*<sup>56</sup>(*Udara*), *Vranropana Kwatha*<sup>57</sup>(*Bhagandar*), *Phalavarti*<sup>58</sup>(*Udavarta*), *Mahaagad*<sup>59</sup>(*Vishachikitsa*) etc.

**As a primary ingredient-** *Vardhman Pippali Prayoga*, *Pippali Rasayan*, *Haritakyadi Rasayan*, *Pippalyadi Churna*(*Jalaarbuda*), *Patoladi Churna*(*Visarpa*), *Triphaladi Churna*(*Visarpa*), *Pippalyadi Churna*(*Pandu*), *Gudadi Vatika*(*Pandu*), *Pippali Kalka*(*Udara*), *Gulma Nashaka Yoga*(*Gulma*), *Saindhvadi Churna*(*Gulma*), *Pippalyadi Kwath*(*For Shodhan*), *Pipplyadi Varti*(*Yonishodhana*), *Pippalyadi Yoga*(*Yonivyapaad*), *Urustambh Nashaka Yoga*(*Urusthabha*), *Pippalyadi Rasakriya*(*Netraroga*), *Pipplyadi Churna*(*Mukhroga*), *Trayushnadi Ghruit*(*Swasa*), *Patoladi Vaman Yoga*(*Visarpa*), *Pipplyadi Pramthya*(*Atisara*), *Gud Pippali Ghruit*(*Kasa*), *Pipplydi Leh Yoga*(*Kasa*), *Vidangadi Churna Yoga*(*Kasa*), *Pippalyadi Ghruit Yoga*(*Kasa*), *Pippalyadi Ghruit 1/2/3*(*Arsh*), *Pipplyadi Yavagu*(*Arsh*), *Hapushadhya Churna*(*Udara*), *Panchkola Yavagu*(*Sotha*) etc.

**As a subordinate ingredient -***Indrayavadi Churna*(*Arsh*), *Pilumooladi Lepa*(*Arsh*), *Sukumar Tail*(*Vatrakta*), *Prapoundrikadi Tail*(*Shiroroga*), *Pathyadi Tail*(*Pratishyay*), *Kasmardadi Ghruit*(*Kasa*), *Pathadi Kalk Yoga*(*Kasa*), *Kasagutika*(*Kasa*), *Jivaniya Ghrit*(*Hikka*), *Shatyadi Churna*(*Hikka*), *Kshara Vati* (*Udara*), *Dhatri Avleha*(*Pandu*), *Mandoor Vataka*(*Pandu*), *Nagkeshara Ghruit*(*Pandu*), *Duralabhaasava*(*Grahni*), *Kiratyadhya Churna*(*Grahani*), *Dashmooladhya Ghruit*(*Grahani*), *Nagaradi Ghruit*(*Arsh*), *Shatpal Ghruit*(*Udara*), *Sarpi Modaka*(*Kshatkshin*), *Eladi Gutika*(*Kshatkshina*) etc.

*Pippali* Used as an Ingredient in **Churna Yoga Like** *Pipaliyadi Churna*, *Trikatu Churna*, *Hingvadi Churna*, *Sadyasnehanyog*, *Dusivishariyog*, *Mahaagad*, *Tarkshryagad*, *Ksharagad*, *Mahasugandhiyog*, *Samanyog*, *Pratishravanyadravyam*, *Swasharyog*, *Sirispushpadiyog*, *Pathyadichurna*, *Laj Saktu Maghdhika Yoga*, *Pathyadi Churna*, *Kalingadi Yoga*, *Udavarthara*

*Yoga, Phalatrikadi Churna, Madhukadi Yoga, Krushnadi Churna, Shatyadi Churna, Balbilvadi Yoga, Shyamadi Churna, Vadvanal Churna, Kalingadi Churna, Bilvadi Churna, Dadimastak Churna, Hingvashtak Chuna, Saindhvadi Churna etc.*

**Ghruit-**Talishadi Ghruit, Nila Ghruit, Mahanila Ghruit, Dhanvantar Ghruit, Shatpal Ghruit, Triphaladi Ghruit, Krushnadi Ghruit, Himstradi Ghruit, Sauvarchaladi Ghruit, Pathadi Ghruit, Siddharathak Ghruit, Pachgavya Ghruit, Pippalyadi Ghruit, Vasadhya Ghruit, Bhallataka Ghruit, Mahapanchgavya Ghruit, Yastyahbvadi Ghrit, Amrutprash Ghruit, Sarpiguda Prayoga, Sarpi Modaka, Dadimadi Ghruit, Nagkeshradi Ghruit, Pippalyadi Ghruit 1, Pippalyadi Ghruit 2, Pippalyadi Ghruit 3, Chavyadi Ghruit, Nagaradi Ghruit, Tejovatyadi Ghruit, Jivaniya Ghruit, Darvyadi Ghruit, Guduchyadi Ghruit, Kasmardadi Ghruit, Gudpippali Ghruit, Chitrakadi Ghruit, Jivaniya Ghruit, Shishu Kalyanak Ghruit, Shishu Shosh Nashak Ghruit, Mahatriphaladi Ghruit etc.

**Ahara Kalpana-** Panchkola Sadhita Yavagu, Pipasagghni Yavagu, Kanthrogghni Yavagu, Laja Peya with Pippali, Mudga Yush with Pippali Prakshepa, Kulatthadi Yusha, Grahani Nashaka Yavagu, Nidigdihika Yush, Dashmooladi Yavagu, Pippalyadi Pramathya, Yavaniadi Peya etc.

**Kalka Yoga-** Chitrakadi Kalka, Pathyadi Kalk Yoga, Pipplai Kalk Yoga etc.

**Lavana-** Kalyanak Lavana etc.

**Kshira Yoga-** Dantyadi Kshir Yoga, Sharadi Panchmool Kshir Yoga, Pippali Sunthi Kshirpaka etc.

**Aasava-** Lodhrasava etc.

**Oil-** Pippaliyadi Gan Siddha Oil, Triphaladi Tail, Pathadi Tail, Tikta Ikshvaku Tail, Kanak Kshiri Tail, Pathyadi Tail, Mahanil Tail, Prapoundrikadi Tail, Mulakadi Tail, Sukumar Tail, Madhuyashtyadi Tail, Vidangadi Tail Dhatkyadi Tail

**Basti Kalpana-** Sampakadi Asthapana Basti, Guduchyadi Asthapana Basti, Bhadradi Asthapana Basti, Dashmooladi Asthapana Basti, Utkleshana Basti, Sidhdha Basti, Pippalyadi Anuvasan Basti, Pichhabasti, Sahcharadi Basti, Baladi Basti Yoga, Laghu Panchmooli Basti, Shalparnyadi Basti, Balya Basti, Dwipanchmooladi Basti, Mayuradya Basti, Nakuladi Basti, Surasadi Niruh Basti, Erandmooladi Basti, Yuktaratha Basti, Balaviryavardhak Basti etc.

**Vati-** Navayas, Eladi Gutika, Kshara Gutika, Kshara Vati, Mandoor Vatak Yoga, Ypgraja Yoga 2, Shilajitu Vataka, Mandoor Vatak 2, Kasa Gutika, Dhatryadi Raskriya etc.

**Kshara-** Pippalyadi Kshara, Bhallatakadi Kshara,

Triphaladi Kshara etc.

**Takrakalpa-** Takra with Pippali Churna in Sannipatodara, Baddhodara Takra Prayoga etc.

**Kwatha-** Vranaropana Kwatha, Panchsara Kwatha, Patol Mooladi Prayoga, Chandanadi Kwatha, Vachadi Kashay, Bhootikadi Kwatha etc.

**Varti-** Falvarti, Anaha Varti, Bramhadi Varti, Pippalyadi Varti, Anantmooladi Varti, Nikumbhadi Varti etc.

**Modaka-** Triphaladi Modaka, Trivrutadi Modaka, Haritakyadi Modaka etc.

**Arista-** Loharista, Vrushchiradi Aristam, Duralabhadyarista, Abhayarista etc.

**Avleha-** Dhanyak Avleha, Bharagyadi Avleha, Bramha Rasayana-1, Bramha Rasayan-2, Chyavanprasa, Vidaga Avleha, Endra Rasayan, Duhshparshadi Leha, Chitrakadi Leha, Agtsya Haritaki Leha, Yavaniadi Peya, Kharjuradu Leha Yoga, Drakshadi Leh Yoga, Pippalyadi Leha Yoga, Kapha Nashak Leha, Haritaki Leha, Drakshadi Leha, Chitrakadi Leha Yoga, Udumbaradi Leh Yoga, Twakadi Avleha, Devdarvyadi Avleha, Vashishta Haritaki Avleha, Balbilvadi Leha, Danti Haritaki Avleha, Nishothadi Avleha, Vidariadi Avleha etc.

**Lepa Kalpana-** Utkarika, Avalgujadi Lepa, Devdarvyadi Pradeh, Pippalyadi Pralepa, Shirishbijadi Pralepa, Madhulika Utkarika, Kapitthadi Lepa, Snuhiadi Lepa, Pilumuladi Lepa etc.

**Dhoop Yoga-** Prapoundrikadi Dhum Yoga etc.

**Yonivyapada-** Baladya Yamak Sneha, Pippalyadi Yoga, Vrushikadi Churna, Bruhadshatavari Ghruit, Pippalyadi Varti etc.

**Udararoga-** Shatpal Ghruit, Pippalyadi Churna, Devdarvyadi Pradeh, Panchkola Ghruit, Hapushadya Churna, Chitrakadi Kalka, Pippalyadi Kshara, Kshara Vati etc.

**Kasa-** Pippalyadi Ghruit, Trayushnadi Ghruit, Vidangadi Churna, Duhshparshadi Leh, Chitrakadi Leh, Agtsya Haritaki Leha, Prapoundrikadi Dhum Yoga, Yavaniadi Peya, Kharjuradu Leh Yoga, Drakshadi Leh Yoga, Sharadi Panchmool Kshir Yoga, Kasa Gutika, Pathyadi Kalk Yoga, Pipplai Kalk Yaga, Pippalyadi Leha Yoga, Kapha Nashak Leha, Guduchyadi Ghruit, Kasmardadi Ghrit, Gudpippali Ghruit, Haritaki Leha, Drakshadi Leha, Chitrakadi Leha Yoga, Yavaniadi Peya, Twakadi Avleha Devdarvyadi Avleha, Vashishta Haritaki Avleh, Kasmardadi Ghruit etc.

**Netraroga-** Vyoshadya Anjana, Naktamaladi Varti, Churnanajan Yoga etc.

**Jwara-** Patoladi Niruh Basti, Agruvadi Tail, Trayushnadi Ghruit, Pippali Triphala Ghrit, Shunthiyadi Peya, Bruhadananchmooladi Peya, Vyaghriadi Churna,



Karvelakadi Yush, Pippali Ksheerpak, Patoladi Basti, Jivantadi Basti, Triphaladi Churna, Manahshiladi Anjana etc.

**Arsha-** Dhupan Yoga, Pippalyadi Pralepa, Shirishbijadi Pralepa, Trayushnadi Churna, Takrarishta, Pippaliyadi Yavagu, Pippalyadi Ghruit 1, Pippalyadi Ghruit 2, Pippalyadi Ghruit 3, Chavyadi Ghruit, Nagaradi Ghruit, Haritaki Anuloman Yoga, Pippalyadi Anuvasan Basti, Abhayarista, Changeri Ghruit, Snuhiadi Lepa, Pilumuladi Lepa, Anantmooladi Varti, Vadvanal Churna, Kalingadi Churna etc.

**Grahani-** Dashmooladya Ghruit, Pippalyadi Churna, Kiratyadi Churna, Duralabhasava, Pindasava, Madhvarista, Bhallatakadi Kshara, Triphaladi Kshara, Grahani Nashaka Yavagu etc.

**Pandu-** Dadimadi Ghruit, Navayas Churna, Mandoor Vatak Yoga, Yograja Yoga 2, Shilajitu Vataka, Dhatri Avleha, Mandoor Vatak 2, Nagkeshradi Ghruit etc.

**Gulama-** Hingwadi Churna, Mudga Yush with Pippali Prakshepa, Bhallataka Ghruit, Danti Haritaki Avleha, Nishothadi Avleha etc.

**Kushtha-** Tikta Ikshvaku Tail, Kanak Kshiri Tail, Avalgujadi Lepa etc.

**Sotha-** Gandiradya Arista, Astashat Arista, Phalatrikadyarishta, Kshara Gutika, Patol Mooladi Prayoga, Kulatthadi Yush etc.

**Rajyakshma-** Prapoundrikadi Ghruitam, Kharjuradi Ghruit, Sitopaladi Churna, Duralabhadya Ghruit, Jivantyadi Ghruit, Baladi Kshir Yukta Ghruit, Mukh Vairasya Nashak Yoga, Yavaani Shadav Churna, Talisadya Churna, Panchkoladi Ghruit, Rasnadi Ghruit, Harenukeadi Churna, Vachadi Kashay etc.

**Hikka Swas-** Nidigdika Yush, Dashmooladi Yavagu, Madhulika Utkarika, Shatyadi Churna, Tejovatyadi Ghruit, Jivaniya Ghruit, Lasunadi Nasya Yoga etc.

**Visa Chikitsa-** Dusivishariagad, Mahaagad, Tarkshryagad, Ksharagad, Mahasugandhiagad, Trikatuadi Gharshana Churna, Mrutsanjivan Agada, Pippalyadi Anjan, Pippalyadi Yoga, Kapitthadi Lepa, Amruita Ghrit, Karviradi Agad, Dashang Agad, Shigruvdi Churna etc.

**Rasayana-** Bramha Rasayana-1, Bramha Rasayan-2, Chyavanprasa, Haritkyadi Yoga, Amlaka Avleha, Vidaga Avleha, Endra Rasayan, Pippali Rasayan, Vardhman Pippali Rasayan, Triphala Rasayan, Indrokta Rasayan, Vidariadi Avleha etc.

**Vajikaran Yoga-** Bastand Vajikarana Yoga, Vajikarana Pupalika, Saddhya Snehana Yoga, Vajikarana Ghrita, Vrushya Ghruit, Vrushya Shatavari Ghruit, Apatryakara

Ghruit, Vrushya Gutika etc.

Table 6: formulations of Pippali according to external or internal Yoga & it used as primary or subordinate ingredient

Table 7: Formulation of Pippali according to various Kalpana

Table 8: Pippali according to Rogghnata

## DISCUSSION

Present reviews shows that the drug Pippali is popular medicine in Ayurveda since ancient time. It has multidimensional therapeutic applications. Maximum Ayurvedic classical text described about the *Katu Rasa* of Pippali, *Snigdha* and *Laghu Guṇa*. Maximum authors said about the *Madhura Vipaka* and *Anuṣṇa virya* of Pippali. Only few of them are described about *Sita Virya* or *Uṣṇa Virya* or *Ati Uṣṇa Virya*. Pippali is widely used drug in *Bruhadtrayi* in single drug as a part of formulations. Maximum no of formulations has been found in *Charaksamhita* that is 258 formulations followed by *Astanghriday* (198) and *Shushruta Samhita* (162) respectively. Among them highest number of external applicaton Yoga is given in *Shushruta Samhita* that is 38 followed by *Charakmahita* (17) and *Astanghriday* (15). Maximum internal Yoga has been found in *Charaksamhita* (243) followed by *Astanghriday* (183) and *Sushruta Samhita* (124). In *Bruhadtrayi* Pippali has been used in wide range of *Kalpana* like *Panchvidha Kashay Kalpana* and *Upakalpana* and *Aahar Kalpana* also. Various *Kalpana* like *Kalka*, *Kwath*, *Ghruit*, *Tail*, *Kshara*, *Avleha*, *Aasav*, *Arista*, *Kshirpaka*, *Modak*, *Vatak*, *Varti*, *Dhum*, *Basti*, *Lepa*, *Lavana* etc. It is also used in *Ahara Kalpana* like *Peya*, *Yush*, *Yavagu* etc. Among all this *Kalpana* in *Bruhadtrayi* maximum *Churna Kalpana* (206) of Pippali containing formulations is found followed by *Ghruit* (99), *Avleha* (42), *Kwath* (17), *lepa* (16), *Vataka* (15), *Arista* (12) respectively. Pippali is widely used in almost all the diseases as it *Agnideepaka*, *Aampachaka* and *Rasayana*. In *Charak Samhita* maximum no of Pippali containing formulations has been found in *Kasa*(30) followed by *Arsh* (20), *Rasayan* (16), *Udara* (14) and *Soth* (13) *Rogadhikara*. In *Sushruta Samhita* highest no of Pippali containing formulatios has been found in *Visha Chikitsa* (19) followed by *Kushtha* (10) and *Kasa* (8). In *Astanghriday* maximum number of formulations found in *Kasa* (26) followed by *Arsh* (15), *Jwara* (13) and *Udara* (11).

## CONCLUSION

*Piper longum* Linn. commonly named as "Pippali" is

known for its immense application in the treatment of various diseases in the traditional Ayurvedic text. The present work is an extensive review of “*Pippali*” in various Ayurvedic literatures. Compiled data reflects the therapeutic efficacy of the plant. This will be helpful for

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**Table 1: List of short abbreviations were created for different dosage form:**

Dosage form	Abbre.	Dosage form	Abbre.
<i>Kwatha</i>	<i>Kw</i>	<i>Modaka</i>	Md
<i>Varti</i>	<i>Vrt</i>	<i>Lavana</i>	Ln
<i>Kshirpaka</i>	<i>Krp</i>	<i>Avleha</i>	Av
<i>Kalka</i>	<i>Kl</i>	<i>Asava</i>	As
<i>Churna</i>	<i>Ch</i>	<i>Arista</i>	Ar
<i>Ghrita</i>	<i>Gh</i>	<i>Vataka</i>	Vt
<i>Tail</i>	<i>Tl</i>	<i>Basti</i>	Bst
<i>Yavagu</i>	<i>Yg</i>	<i>Lepa</i>	Lp
<i>Peya</i>	<i>Py</i>	<i>Yush</i>	Ys

**Table no.2. Rasapanchaka of Pippali According to various classics:**

<i>Shuska Pippali</i>	<i>Rasapanchaka</i>
<i>Rasa</i>	<i>Katu</i> <sup>1,2,3,4,9,10,11,13</sup>
	<i>Tikta</i> <sup>11</sup>
<i>Guna</i>	<i>Snigdha</i> <sup>3,13</sup>
	<i>Natisnigdha</i> <sup>1</sup>
	<i>Laghu</i> <sup>4,9,10</sup>
<i>Virya</i>	<i>Ushna</i> <sup>11</sup>
	<i>Sheeta</i> <sup>13</sup>
	<i>Anushna</i> <sup>4,9</sup>
	<i>Natiushna</i> <sup>1</sup>
	<i>Atiushna</i> <sup>10</sup>
<i>Vipaka</i>	<i>Madhura</i> <sup>3,4,9,10</sup>

**Table 3: Name of the samhitha Gana/varga:**

1.Charaka Samhita <sup>1</sup>	<i>Shirovirechan, Vamana, Dipaniya, Kanthya, Truptighna, Asthapanopaga, Shirovirechanopag, Hikkaniyrahana, Kasahara, Shoolaprashamana</i>
2.Sushutra Samhita <sup>2</sup>	<i>PippalyadiGana, Trikatu, Urdhwabhagahara, Shirovirechana. Amalakyadi Varga</i>
3.Astang Sangraha <sup>14</sup>	<i>Shirovirechan, Vamana, Dipaniya, Kanthya, Truptighna, Asthapanopaga, Shirovirechanopaga, Hikkaniyrahana, Kasahara, Shoolaprashmana, Sheetashamana, Pippalyadi Gana.</i>
4.Astang Hriday <sup>3</sup>	<i>Vamanopayogi Dravya, Vatsakadi Gana</i>

**Table 4: Name of Nighantu and Varga:**

<i>Dhanvatari Nighantu</i> <sup>13</sup>	<i>Shatapushpadi varga</i>
<i>Shodhala Nighantu</i> <sup>15</sup>	<i>Shatapushpadi Varga</i>
<i>Hridaya Dipaka Nighantu</i> <sup>16</sup>	<i>Chatuspada Varga</i>
<i>Madanapala Nighantu</i> <sup>10</sup>	<i>Shunthyadi Varga</i>
<i>Raja Nighantu</i> <sup>11</sup>	<i>Pippalyadi Varga</i>
<i>Bhavaprakasha Nighantu</i> <sup>4</sup>	<i>Haritakyadi Varga</i>
<i>Saraswati Nighantu</i> <sup>17</sup>	<i>Chandanadi Varga</i>
<i>Shaligrama Nighantu</i>	<i>Haritakyadi Varga</i>
<i>Priya Nighantu</i>	<i>Pippalyadi Varga</i>
<i>Yadavji Trikamaji Acharya</i>	<i>Haritakyadi Varga</i>
<i>Guna Ratnamala</i>	<i>Pippalyadi Varga</i>

**Table 5: Total no of formulations of *Pippali* in *Bruhadtrayi*:**

<i>Charaka Samhita</i>	258
<i>Shushruta Samhita</i>	162
<i>Astang Hridaya</i>	198

**Table 6: formulations of *Pippali* according to external or internal *Yoga* & it used as primary or subordinate Ingredient:**

Name of <i>Grantha</i>	<i>Shushrutasamhita</i>	<i>Charakasamhita</i>	<i>Astang Hridaya</i>
Total no of formulations	162	258	198
External yoga	38	17	15
Internal yoga	124	243	183
<i>Pippali</i> used as primary ingredient	43	75	24
<i>Pippali</i> used as subordinate ingredient	119	183	174

**Table 7: Formulation of *Pippali* according to various *Kalpna*:**

<i>Kalpna</i>	<i>Shushrutasamhita</i>	<i>Charakasamhita</i>	<i>Astang Hridaya</i>	Total
<i>Churna Yoga</i>	98	49	59	206
<i>Varti</i>	8	3	2	13
<i>Tail</i>	4	4	4	12
<i>Kalka</i>	2	15	-	17
<i>Lavana</i>	2	-	-	2
<i>Ghruita</i>	18	48	33	99
<i>Modaka</i>	1	0	4	5
<i>Kwatha</i>	7	5	5	17
<i>Vataka</i>	1	10	4	15
<i>Avleha</i>	3	22	17	42
<i>Arista</i>	5	7	-	12
<i>Aasava</i>	-	3	-	3
<i>Kshirpaka</i>	-	2	2	4
<i>Basti</i>	-	2	6	8
<i>Yavagu</i>	1	7	-	8
<i>Lepa</i>	4	10	2	16
<i>Peya</i>	-	4	2	6
<i>Yusha</i>	-	3	4	7

**Table 8: *Pippali* according to *Rogghnata*:**

<i>Rogadhikar</i>	<i>Shushruta</i>	<i>Charaka</i>	<i>Astang hridaya</i>
<i>Vatvyadhi</i>	6	2	3
<i>Arsha</i>	3	20	15
<i>Asmari</i>	1	-	-
<i>Bhagandara</i>	3	-	2
<i>Kushtha</i>	10	5	5
<i>Prameha</i>	4	1	3
<i>Udara</i>	6	14	11
<i>Visarpa</i>	1	2	2
<i>Granthi</i>	3	-	1
<i>Mukhroga</i>	4	-	-

<i>Sopha</i>	1	13	2
<i>Anagat badha</i>	3	-	-
<i>Vajikarana</i>	3	7	3
<i>Rasayana</i>	1	16	9
<i>Visha chikitsa</i>	19	7	6
<i>Netra roga</i>	4	3	9
<i>Jwara</i>	4	10	13
<i>Gulma</i>	4	6	6
<i>Chardi</i>	1	3	3
<i>Kasa</i>	8	30	26
<i>Udavarta</i>	1	5	-
<i>Atisara</i>	3	6	6
<i>Shosha</i>	1	10	-
<i>Swasa</i>	9	12	10
<i>Swarbheda</i>	-	-	3
<i>Visuchika</i>	3	-	-
<i>Udavarta</i>	1	-	-
<i>Arochaka</i>	2	1	2
<i>Graha</i>	3	-	-
<i>Apsmara</i>	3	-	-
<i>Unmada</i>	1	2	-
<i>Shiroroga</i>	-	2	-
<i>Rajyakshma</i>	-	12	4
<i>Grahani</i>	-	12	2
<i>Pandu</i>	-	12	8
<i>Pratishyaya</i>	-	4	-
<i>Mukhroga</i>	-	2	6
<i>Urusthambha</i>	-	3	-
<i>Vatrakta</i>	-	3	1
<i>Yonivyapada</i>	-	3	-
<i>Raktapita</i>	-	-	3
<i>Madatyaya</i>	-	-	2
<i>Hridroga</i>	-	-	1
<i>Krumi</i>	-	-	1
<i>Balroga</i>	-	-	9
<i>Karna roga</i>	-	-	1
<i>Nasa roga</i>	-	-	1