Antimicrobial Potential of Polyherbal Formulation Plashbijadi Churna - A Review

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ABSTRACT

Plants have been a source of herbal remedies throughout the history of mankind. Various medicinal plants have been used for years in daily life to treat diseases all over the world. Nature has provided a complete store house of remedies to cure all ailments of mankind. The natural or herbal remedies are still the backbone of medicines. These herbs or plants and their active ingredients are used in traditional herbal remedies. The easy availability, low cost and negligible side effects, natural products are popular in the nowadays in the world. Therefore antimicrobial potential of polyherbal formulation plashbijadi churna mention in the text is taken for review. The authentic subject material has been reviewed from Ayurveda and modern medical literature. Different research and review article were searched in different journals to establish the antimicrobial potential of plashbijadi churna.

Key words: Plashabija, antimicrobial, antibacterial, churna.

INTRODUCTION

Now a day’s multiple drug resistance has developed due to the indiscriminate use of commercial antimicrobial drugs commonly used in the treatment of infectious disease. In addition to this problem, antibiotics are sometimes associated with adverse effects on the host including hypersensitivity, immune-suppression and allergic reactions. Recently there is lots of attraction towards natural based herbs as an antimicrobial agent because of its ecofriendly and health hazardless nature.¹,²,³,⁴ The traditional Indian systems of Ayurveda and Siddha medicines support the importance of medicinal plants to treat diseases.⁵ In India 70% of populations are reported using traditional medicines for primary health care.⁶ There are several reports on the antimicrobial activity of different herbal extracts in different regions of the world.⁷ Therefore antimicrobial potential of polyherbal formulation plashbijadi churna mention in the text is taken for review.⁸
METHOD OF PREPARATION PLASHBIJADI CHURNA
Following ingredients are used for the preparation of vidangadi churna [8]

<table>
<thead>
<tr>
<th>S.No</th>
<th>Ingredients</th>
<th>Latin name</th>
<th>Family</th>
<th>Part used</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plasha</td>
<td>Holarhena antidysenterica</td>
<td>Apocynaceae</td>
<td>seeds</td>
<td>1 part</td>
</tr>
<tr>
<td>2</td>
<td>Indrayava</td>
<td>Embella ribes Burn</td>
<td>Myrtaceae</td>
<td>Fruit</td>
<td>1 part</td>
</tr>
<tr>
<td>3</td>
<td>Vidanga</td>
<td>Azadirachta indica</td>
<td>Meliaceae</td>
<td>seeds</td>
<td>1 part</td>
</tr>
<tr>
<td>5</td>
<td>Chrayata</td>
<td>Swertia chirata</td>
<td>Gentianaceae</td>
<td>Whole plant</td>
<td>1 part</td>
</tr>
</tbody>
</table>

The fine powder of all the ingredients are prepared separately and mixed together in the prescribed quantity.

Ingredients of plashbijadi churna and their pharmacological and therapeutic properties

<table>
<thead>
<tr>
<th>S.no</th>
<th>Name of the drug</th>
<th>Rasadi panchak &amp; ayurvedic properties</th>
<th>Pharmacological properties</th>
</tr>
</thead>
</table>
| 1    | Plasha           | Rasa – Katu, Kashaya, tikta  
Guna- ushna,singhdhu  
Virya – Ushna,  
Doshaghanta – tridoshnashak  
Karma – agnedeeppaka,vrushya,saraka,helps asthisanghataj, gulma,arsha,krimi and all gudaj vyadhi. [9] | Anthelmintic [18,21,22] |
| 2    | Indrayava        | Rasa – katu,kashaya  
Guna- ruksha  
Virya- sheeta  
Rogaghatna- arsha,atiser,kushta,jwara  
Karma- agnedeeppaka,pachaka [10] | Antibacterial [17,19] |
| 3    | Vidanga         | Rasa – Katu, Kashaya.  
Guna – Laghu, Rukska, Teekshna.  
Virya – Ushna, , Vipak – Katu,  
Karma – Krimighna, kushthaghna, Shirovirechana, Nadibalya, Deepana, Pachana, Anulomana, Garbh Nirodhaka, varnya, Rasayana [18] | Anthelmintic, [1],  
Antibacterial [18,19],  
Antifungal [20] |
| 4    | Neema           | Rasa- katu,tikta  
Guna- laghu,singhdha,grahi  
Virya – sheeta  
Prabhava- Tridoshshamak.  
Karma – shrama,tri.shka,kasa,vrana, chardhi,  
Kushta,bhullasa,aruchi passtitf gulma,krimi nashak,prameha nashak [21] | Antibacterial [21],  
Antimicrobial ,Antifungal [24,25],  
Antiviral [26] |
| 5    | Chrayata        | Rasa - katu,tikta  
Guna- laghu,rukska  
Veerya- sheeta  
Prabhava- kapha,pitta nashak  
Karma – saraka, sannipataj jwara,daaha,  
Trishna, kushthawara, vrana,kriminashak ,kasa  
Shothsh,vrananashak [27] | Antibacterial [28,29,30],  
Antifungal [32,38] |

CONCLUSION
This review has presented a collective knowledge on therapeutic, Pharmacological activities of plashbijaadi churna as, antibacterial, antihelmenthic, antifilarial, antiparasitic, antimicrobial .So this review will also facilitate to gain all about the past scientific research and the necessary information about the enormous pharmacological activities of this formulation which helps the researcher to explore this formulations for the promotion of health.

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