

1 Gold Standard Diagnostic Analysis And Management Of Shwasa Roga In 2 Different Pathological Conditions

3 **Abstract-** *Shwasa roga* is multi-factorial respiratory diseases, with increasing global burden due
4 to death and co morbidities. In india, due to increasing civilization and urbanization with
5 poverty, as well as increasing medical expenses in a middle and lower class family, creating a
6 mental and social pressure over the population. This study is analyzing a proper diagnosis and
7 management of *Shwasa roga* in different pathological conditions and providing a cost specific
8 *Ayurvedic* management in a very scientific and in very systemic way.

9 **Introduction-** *Shwasa roga* is respiratory disorder which includes mild to severe symptoms of
10 dysnea and cough which ultimately leads to death in severity of the diseases. This is having
11 multi-factorial direct respiratory and extra-respiratory causes and risk factors. In present, the
12 most of the respiratory illnesses are difficulty curable; some are palliative and other few rare and
13 chronic disorders in their severity become incurable.

14 Due to the increasing environmental changes and faulty life style, the burden of respiratory
15 diseases in form of asthma, is increasing in present population. WHO estimates show that 300
16 million people currently suffer from asthma. Asthma deaths will increase in the next 10 years if
17 urgent action is not taken. [1] Increasing the respiratory illness burden and increasing poverty,
18 and increasing patient's dependency on the medication, need to find out the reliable management
19 of *Shwasa Roga*, which is cheaper in price and easily available to the all the patients.

20 Present study is looking in to account all those long standing difficulty curable causative factors
21 and try to find out the simplest management protocol as mono-therapy (single formulation) or bi-
22 therapy (dual formulation) to the *Shwasa roga*. Here we are discussing about most of the factors
23 causing these respiratory illness and their management.

24 **Material and methods-**

25 *Ayurvedic* textbooks- *Charak samhita*, *Bhaisajya Ratnawali*, and Research papers.

26 We tried to explore all the formulation from text book of *Bhaisajya Ratnawali*, *Charak Samhita*
27 and already published research work in peer review journals, related to each causative factor of
28 the *Shwasa roga* and their role in the management of *Shwasa roga*.

29 **Results and observation-**

30 There are so many factors which are responsible to cause dyspnea which are described in *Charak*
31 *Samhita*. [2]

- 32 i. **Environmental factors:** Dust, smoke and wind, residing in cold place, use of cold water.
- 33 ii. **Physical stress:** Excessive exercise, excessive sexual intercourse, excess walking,
- 34 iii. **Food habits:** Intake of dry food, *vishamashana* (food in excessive or less quantity at
35 irregular time)
- 36 iv. **Various diseases and condition causing Shwasa Roga :** Accumulation of *ama*,
37 *anaha* (constipation associated with flatulence), dryness in the body, excessive depletion
38 (*apatarpana*), weakness, injury to *marmas* (vital points), rapid change in exposure to heat

- 39 and cold, diarrhea, fever, vomiting,
 40 rhinitis, *kshata* (injury), *kshaya* (wasting), *raktapitta* (bleeding
 41 disorder), *udavarta* (upward movement of *vata*), *visuchika* (enteritis), *alaska* (sluggish
 42 bowel), *pandu* (anemia) and intake of poisons can result in *hikka* and *shwasa*.
 43 v. **Quality of food:** Regular intake of *nishpava* (beans), *masha* (black gram), *pinyaka* (oil
 44 cake), *tila taila* (sesame oil), *pishta* (cakes and pastry), *shaluka* (lotus stem), *vishtambhi*
 45 *anna* (food aggravating *vata*), *vidahi* (food causing burning sensations), heavy to digest
 46 food, flesh of aquatic and marshy animals, curd, raw milk, *abhishyandhi* (ingredients
 47 leading to obstruction of channels), food aggravating *kapha*
 48 vi. **Injury:** Injury to throat and chest.
 49 vii. **Others:** Various types of *vibandha* (obstructions)

50 According to the causative factors, various formulations are indicated for Shwasa Roga in
 51 Bhaishjya Ratnawali and Charak Samhita

Sr. no.	Causative factors	Treatment
Respiratory causes		
1.	Rajas/ dhoom yukta vayu	<i>Sameerpannage rasa</i> [3] <i>Haridrakhand</i> [4] <i>Shirishadi kwath compound nasal intilation</i> [5]
2.	Gramya dharma (excessive sexual intercourse)	<i>Chyawan prash</i> [6]
3.	Marma aghat (injury to vital organs)	<i>Abharak bhasma</i> [7]
4.	Dwandwa (rapid change in exposure to heat and cold,)	<i>Sameerpannag rasa</i> [8]
5.	Pratishayay (rhinitis)	<i>Laxmivilas rasa</i> [9]
6.	Kshata (injury) and kshat-ksheena	<i>Vasaawaleha</i> [10] <i>Eladi gutika</i> , [11] <i>nagbala-rasayan, mulethi rasayan</i> [12]
7.	Visha (poison intake)	<i>Shishiradrhista</i> [13]
8.	Kanth urash pratighatat (mechanical or pathological injury to the throat and chest)	<i>Nagarjun abhra rasa</i> [14] <i>Vyaghri haritaki awaleha</i> , [15]
9.	Kasa (bronchitis)	<i>Adraka swaras 5-10 ml + Madhu</i> [16] <i>Chandramrit rasa 1 gm (without kajjali formulation) with pippali churna 1gm or adraka swarsa 5-10ml + Madhu 5-10 ml followed by vasa kantkari guduchi nagarmotha bharngei kwath 60 ml</i> [17]
10.	Rajyakshma (tuberculosis)	<i>Vasa awaleha</i> [18] <i>Sitopladi churna</i> [19] <i>Talishadi churna</i> [20] <i>Lavangadi churna</i> [21]
Extra-respiratory causes		
GIT Causes		

11.	Amapradosha (indigestion)	<i>Shankh vati no. 3 [22]</i>
12.	Anaha (distention of abdomen)	<i>Hingwadi churna [23]</i>
13.	Aptarpan (excessive emaciating works)	<i>Vyoshadh saktu [24] Ashwagandha churna [25]</i>
14.	Udavarta (GERD)	<i>Dwi-uttar-Hingwadi churna [26]</i>
15.	Visuchika (AGE)	<i>Sankha vati [27]</i>
16.	Alsaka (obstructive gastrum)	<i>Ushna saindhavodak vaman followed by phala guda varti and deepan pachana by hingwastaka churna [28]</i>
17.	Atisar (diarrhea)	<i>Sootshekara rasa, [29] Panchmooli baladi kasaya [30]</i>
18.	Amalpitta (GERD)	<i>Sootshekhar rasa with madhu [31]</i>
19.	Jalodara (Ascites)	<i>Punarnavastak kwath or punarnavadi kwath [32] Jalodarari rasa 1 or 2 with takra [33] Pippali vardhman prayoga [34]</i>
20.	Chhardi (vomiting)	<i>Tamlaki swaras [35,36]</i>
21.	Vibandha (obstructive bowel)	<i>Lawanbhaskar churna [37] Vaishwanar churna, [38]</i>
Cardiac causes		
22.	Hrid roga (Cardiac disorder)	<i>Dashmoola kwath + saidhav + yavakshar [39] Lawanbhaskar churna [40] Puskar moola churna + madhu [41] Chintamani rasa, Vishveshvar rasa Shankar vati, Kalyansundar rasa, Ratnakar rasa [42] Agatsya haritaki awaleha [43]</i>
23.	Rakta gata vata (hypertensive disorder)	<i>Nagarjun abhra rasa, vishveshwar rasa [44] Arjun ksheer paka [45]</i>
24.	Urahstoya a/w raktasthivan/raktapitta (Pleural effusion associated with bleeding from lungs due to heart failure)	<i>Kalyan sundar rasa (with gold) baidyanath pharma [46]</i>
	Jwara janya varidosha (pleurisy)	<i>Sudarshana churna [47]</i>
Hepato-biliary causes		
25.	Kamla (jaundice)	<i>Navayas lauha [48] Chandraprabha vati no. 2 (karpur yukta)with narikel jala [49] Shilajatu vatak [50]</i>
Urinary causes		
26.	Mutrakriccha (urinary tract infection)	<i>Chandraprabha vati no. 2 (karpur yukta)with narikel jala [51]</i>
Hematological causes		
27.	Raktapitta (coagulating disorder)	<i>Aatrushaadi kwath (Vasa patra + Mridwika + Haritaki)=kwath with madhu [52]</i>

		<i>Vasa swaras + tallish churna + madhu [53]</i> <i>Eladi gutika [54]</i> <i>Vasa awaleha [55]</i> <i>Sitopladi churna according to sharangdhar [56]</i> <i>Kushmanda khand avaleha[57]</i>
28.	Pandu roga (anemia)	<i>Dhatri arista, [58]</i> <i>Lohasava [59]</i> <i>Shilajatu vatak [60]</i>
Infectious causes		
29.	Jwara (fever) With pleurisy	<i>Sudarshana churna [61]</i> <i>kapha ketu rasa with ardraka swaras for nava jwara [62]</i> <i>Visham jwarantak lauha no. 1,2,3,4 [63]</i> <i>Trilokya-chintamani rasa by rasendra sara sangrah [64]</i>
Metabolic causes		
30.	Kshya (dhatu kshya) loss of body tissues	<i>Mrigank vati [65]</i>
31.	Sthaulaya (Obesity)	<i>Vyoshadi shaktu [66]</i> <i>Staulaya hari peya [67]</i> <i>Shilajeet with Agnimantha Kwath [68]</i> <i>Vidangadi lauha with milk [69]</i> <i>Navak guggulu [70]</i>
32.	Madhumeha (diabetes)	<i>Chandraprabha vati (with karpur) [71]</i> <i>Brihat Vangeswar rasa no. 4 [72]</i>
Autoimmune causes		
33.	Amavata (autoimmune disorder)	<i>Singhnaad guggulu with punarnavadhrista [73]</i> <i>Singhnaad guggulu no. 1, & 2 [74]</i> <i>Shankar vati [75]</i>
Endo-crinological cause		
34.	Galagand (goitre)	<i>Chandraprabha vati with kanchnar chhal kwath and gomutra [76]</i> <i>Kanchnaar guggulu [77]</i>

52

53 **Discussion-** Here, we have discussed 34 causative factors causing the *Shwasa roga* as respiratory
54 illness. All these factors cause the respiratory illness as *Shwasa roga* directly or indirectly. These
55 indirect causes are due to other systemic disorders rather than the respiratory system as a
56 symptom or as complication. So, we tried to evaluate the specific systemic disorder in relation to
57 *Shwasa roga* and found some specific formulations which work for the management of particular
58 diseases as well as for the management of *Shwasa roga*.

59 We have classified all these causes in to two categories respiratory and extra respiratory causes.
60 All these cause have some specific mode of action to develop the *Shwasa* as a symptom. The

61 direct respiratory causes affect the respiratory system due to some allergens present in the
62 environment like dust, smoke, very cold and hot environmental changes, mechanical injury/
63 pathological injury by any contagious infection to the respiratory system, upper respiratory
64 system pathology of nose and throat. All these causes develop either inflammation or mechanical
65 blockage in the respiratory tract; cause the difficulty in gaseous transportation, increases the
66 respiratory tissues injuries and ultimately the development of *Shwasa Roga*.

67 The other systemic illnesses also play an important in development of *Shwasa roga* as a
68 symptom or as a complication. The GIT systemic illnesses play a very important role in
69 development of *Shwasa* as a symptom or complication. As the *Aama* is main factor develop first
70 in *Aamashya* (gastrointestinal tract) which causes the *Sanga (Marga-avarodha)* in *Anna-vaha-*
71 *strotas* and leads to the *Vimag-gaman* of the *Dosha*. This *Vimag-gaman* leads to the increasing
72 abdominal pressure over the diaphragm and make the respiration difficult.

73 Over or diminished cardiac activity both causes the diminished cardiac output, leading the reduce
74 oxygen transportation of oxygen by blood, compensatory respiratory efforts increase, and which
75 ultimately develops *Shwasa roga*.

76 **Conclusion-** After discussion, we can conclude, the only treating the *Shwasa roga* as a symptom
77 is not beneficial in permanent management of the *Shwasa roga*. Analyzing the causes followed
78 by deciding a particular drug can help to eliminate the risk factors and causes responsible for the
79 development or prolongation of any diseases. This study will help to every scholars for the better
80 understanding in the management of *Shwasa roga* and will help to add new formulation in
81 respect of their causes.

82 **References-**

- 83 1. Bousquet J, Khaltaev N, editors. Geneva: WHO Press, World Health Organization; 2007.
84 World Health Organization. Global Surveillance, Prevention and Control of Chronic
85 Respiratory Diseases: A Comprehensive Approach.
- 86 2. Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
87 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
88 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, hikka shwasa Chikitsa Adhyaya , page
89 no.509,vers.11-16
- 90 3. Mashru, Mayur & Ruknuddin, Galib & Shukla, Vinay & Ravishankar, Basavaiah &
91 Prajapati, Pradeep. (2013). Effect of Sameera Pannaga Rasa (arsenomercurial
92 formulation) in the management of Tamaka Shwasa (bronchial asthma) - Randomized
93 double blind clinical study. Ayu. 34. 346-51. 10.4103/0974-8520.127692.
- 94 4. Bhowmik R, Shaharyar MA, Kanakal MM, Sarkar A, Farhana SA, Hussain SM, Khan A,
95 Mandal P, Roshan S, Mitra A, Karmakar S. Ayurvedic herbal formulations Haridra
96 Khanda and Manjisthadi Kwath (brihat) in the management of allergic rhinitis: A
97 pharmacological study. Heliyon. 2024 May 28;10(11):e31937. doi:
98 10.1016/j.heliyon.2024.e31937. PMID: 38868043; PMCID: PMC11167347.
- 99 5. Kajaria D, Tripathi J, Tiwari S. Anti-asthmatic effect of Shirishadi compound through
100 nasal spray actuation. Ayu. 2014 Jul-Sep;35(3):261-9. doi: 10.4103/0974-8520.153738.
101 PMID: 26664235; PMCID: PMC4649564.

- 102 6. Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
103 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
104 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Rasayan Chikitsa Adhyaya, Part 1, page
105 no.17, vers.70-74.
- 106 7. Mali Ramavtar, Dongre Sushma. A Classical Review on Pharmaceutical and Analytical
107 Study of Abhrak Bhasma. International Journal of Ayurveda and Pharma Research.
108 2023;11(10):34-39. <https://doi.org/10.47070/ijapr.v11i10.2998>
- 109 8. Mashru, Mayur & Ruknuddin, Galib & Shukla, Vinay & Ravishankar, Basavaiah &
110 Prajapati, Pradeep. (2013). Effect of Sameera Pannaga Rasa (arsenomercorial
111 formulation) in the management of Tamaka Shwasa (bronchial asthma) - Randomized
112 double blind clinical study. Ayu. 34. 346-51. 10.4103/0974-8520.127692.
- 113 9. Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
114 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
115 no.449, ch.15,ver.130-137
- 116 10.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
117 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
118 no.409, ch.14,ver. 37-39
- 119 11.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
120 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
121 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Kshatksheen Chikitsa Adhyaya , page
122 no.343, vers.21-24.
- 123 12.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
124 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
125 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Kshatksheen Chikitsa Adhyaya , page
126 no.351, vers.91-92.
- 127 13.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
128 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
129 no.1106, ch.72,ver. 71-73
- 130 14.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
131 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
132 no.669, ch.33,ver. 35-37
- 133 15.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
134 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
135 no.453, ch.15,ver. 167-170
- 136 16.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
137 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
138 no.439, ch.15,ver. 16
- 139 17.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
140 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
141 no.444, ch.15,ver. 56-64
- 142 18.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
143 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
144 no.409, ch.14,ver. 37-39
- 145 19.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
146 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy

- 147 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Rajyakshma Chikitsa Adhyaya , page
148 no.296, vers.103-104.
- 149 20.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
150 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
151 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Rajyakshma Chikitsa Adhyaya , page
152 no.297, vers.145-147.
- 153 21.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
154 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
155 no.406, ch.14,ver. 23-25
- 156 22.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
157 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
158 no.354, ch.10,ver. 191-192
- 159 23.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
160 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
161 no.645, ch.31,ver. 31
- 162 24.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
163 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
164 Varanasi, Reprint 2016.; Part 1, Sutra Sthana, Santarpaniya Adhyaya , page no.438,
165 vers.19-24
- 166 25.Pandey, Ajai. (2018). *A CASE STUDY OF BRINGHANA THREAPY BY*
167 *ASHVAGANDHA CHURNA (WITHANIA SOMINIFERA) AND RSHYGANDHA*
168 *CHURNA (WITHANIA COAGULANS) IN A PATIENT OF TAMAKASHWASA ROGA*
169 *(BRONCHIAL ASTHMA). European Journal of Biomedical AND Pharmaceutical*
170 *sciences. 5.*
- 171 26.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
172 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
173 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Trimarmiya Chikitsa Adhyaya , page
174 no.720, vers.20
- 175 27.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
176 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
177 no.354, ch.10,ver. 191-192
- 178 28.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
179 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
180 no.341-342, ch.10,ver. 50-59
- 181 29.Sharma, Karunanidhi & Kumar, Sanjay & Paul, Vd & Swami, Kanchan & Rajput,
182 Dhirajsingh. (2019). *Critical Review Of Sootashekhara Rasa.*
- 183 30.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
184 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
185 no.242, ch.7,ver. 59-60
- 186 31.Sharma, Karunanidhi & Kumar, Sanjay & Paul, Vd & Swami, Kanchan & Rajput,
187 Dhirajsingh. (2019). *Critical Review Of Sootashekhara Rasa.*
- 188 32.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
189 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page no.
190 732-733, ch.40,ver. 30-32

- 191 33.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
192 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
193 no.737, ch.40,ver. 72-76
- 194 34.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
195 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
196 no.735, ch.40,ver. 53
- 197 35.Kodoli, R.S., Galatage, S.T., Killedar, S.G. *et al.* Hepatoprotective activity
198 of *Phyllanthus niruri* Linn. endophytes. *Futur J Pharm Sci* 7, 97 (2021).
199 <https://doi.org/10.1186/s43094-021-00243-1>
- 200 36.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
201 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
202 Varanasi, Reprint 2016.; Part 1, sutra Sthana, shadshatvirechaniya Adhyaya , page no.
203 93, vers.16
- 204 37.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
205 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
206 no.343, ch.10,ver. 79-87
- 207 38.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
208 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
209 no.599-600, ch.29,ver. 46-49
- 210 39.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
211 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
212 no.668, ch.33,ver. 27
- 213 40.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
214 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
215 no.343, ch.10,ver. 79-87
- 216 41.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
217 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
218 no.667, ch.33,ver. 17
- 219 42.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
220 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
221 no.670-671, ch.33,ver. 42-46, 47-49, 50-54, 55-57,58-65
- 222 43.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
223 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
224 no.453, ch.15,ver. 171-176
- 225 44.Naresh Dalal Et Al: Clinical Efficacy Of An Ayurvedic Formulation Nagarjunabhra Ra-
226 Sa In A Post-Mi Patient: Case Study. *International Ayurvedic Medical Journal* {online}
227 2017 {cited February, 2017} Available from:
228 http://www.iamj.in/posts/images/upload/393_398.pdf
- 229 45.Ramesh P, Palaniappan A. *Terminalia arjuna*, a Cardioprotective Herbal Medicine-
230 Relevancy in the Modern Era of Pharmaceuticals and Green Nanomedicine-A Review.
231 *Pharmaceuticals* (Basel). 2023 Jan 13;16(1):126. doi: 10.3390/ph16010126. PMID:
232 36678623; PMCID: PMC9865560.
- 233 46.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
234 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
235 no.671, ch.33,ver. 55-57

- 236 47.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
237 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
238 no.128, ch.5,ver. 436-445
- 239 48.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
240 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
241 Varanasi, Reprint 2016.; Part 2, chikitsa Sthana, pandu roga chikitsa Adhyaya, page no.
242 498, vers.70-71
- 243 49.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
244 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
245 no.706, ch.37,ver. 96-105
- 246 50.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
247 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
248 Varanasi, Reprint 2016.; Part 2, chikitsa Sthana, pandu roga chikitsa Adhyaya , page no.
249 500, vers.87-92
- 250 51.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
251 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
252 no.706, ch.37,ver. 96-105
- 253 52.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
254 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
255 no.392, ch.13,ver. 39
- 256 53.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
257 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
258 no.391, ch.13,ver. 24
- 259 54.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
260 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
261 Varanasi, Reprint 2016.; Part 2, Chikitsa Sthana, Kshatksheen Chikitsa Adhyaya , page
262 no.343, vers.21-24.
- 263 55.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
264 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
265 no.409, ch.14,ver. 37-39
- 266 56.
- 267 57.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
268 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
269 no.397, ch.13,ver. 95-101
- 270 58.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
271 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
272 no.385, ch.12,ver. 116-118
- 273 59.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
274 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
275 no.386, ch.12,ver.124-129
- 276 60.Pt.Kashinath Shastri & Dr. Gorakshnath Chaturvedi., elaborators. Agnivesha, Charaka,
277 Drindhabala. Charaka Samhita, Vidyotani Hindi Teeka,: Chaukhambha Bharti Academy
278 Varanasi, Reprint 2016.; Part 2, chikitsa Sthana, pandu roga chikitsa Adhyaya , page no.
279 500, vers.87-92

- 280 61.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
281 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
282 no.128, ch.5,ver. 436-445
- 283 62.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
284 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
285 no.163, ch.5,ver. 842-843
- 286 63.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
287 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
288 no.188-189, ch.5,ver. 1125-1148
- 289 64.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
290 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
291 no.185, ch.5,ver. 1095-1097
- 292 65.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
293 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
294 no.464, ch.16,ver. 61-64
- 295 66.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
296 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
297 no.723, ch.39,ver. 5-10
- 298 67.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
299 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
300 no.723, ch.39,ver. 12
- 301 68.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
302 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
303 no.723, ch.39,ver. 12
- 304 69.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
305 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
306 no.725, ch.39,ver. 22-25
- 307 70.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
308 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
309 no.726, ch.39,ver. 42
- 310 71.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
311 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
312 no.706, ch.37,ver. 96-105
- 313 72.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
314 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
315 no.712, ch.37,ver. 158-163
- 316 73.Byadgi, P.S., & Tripathi, A.C. (2008). Effect of Simhanada Guggulu and Punarnavarista
317 in Tamakashwasa (Bronchial Asthma) - A Clinical Study. *Ayu (an International*
318 *Quarterly Journal of Research in Ayurveda)*, 29, 25.
- 319 74.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
320 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page no.
321 610, ch.29,ver.176-184, 185-190
- 322 75.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
323 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
324 no.670-671, ch.33,ver. 50-54

- 325 76.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
326 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
327 no.706, ch.37,ver. 96-105
- 328 77.Sen.Govind das, edited by Mishra siddhi nandan ,siddhprada hindi commentator of
329 Bhaisajyaratnawali,chaukhambha surbharti prakashan ,Varanasi,edition 2017, page
330 no.806, ch.44,ver. 60-62, 63-68

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