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A REVIEW ON VAJEEKARAN FORMULATIONS AS DEPICTED IN BHARAT BHAISHAJYA RATNAKAR

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ARTICLE INFO	ABSTRACT					
Article History:	Vajeekarana is one of the eight specialties of Ashtang Ayurved dealing with the various					
Received 14 th January, 2020	disorders related to Shukra dhatu. When Shukra gets vitiated due to some etiological					
Received in revised form 29 th	factors, it leads to disease like infertility; loss of libido, premature ejaculation etc. By					
February, 2020	proper use of Vajeekaran formulations, one becomes endowed with good physique,					
Accepted 05 th March, 2020	potency, strength and complexion and sexually exhilarated and sexually potent. Herbal and					
Published online 28 th April, 2020	Herbomineral combinations are administered as per the nature of a person according to					
	- fundamental principles of Ayurved. In this review, attempt has been made to compile the					
Key words:	Vajeekar/ Vrushya formulations mentioned in Bharat Bhaishjya Ratnakar- Ayurved					
Vajeekaran, Aphrodisiac, Formulations,	classical book for formulations. These formulations are combinations of various plant					
	drugs, minerals, metals and animal originated and act by its specific action. These					
Ayurved	formulations may initiate or enhance either spermatogenesis or androgen synthesis or both,					
	improve ejaculation or improve the action of androgens. Their pharmacological action is					
	classified at Psychic level and at Somatic level.					

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INTRODUCTION

Ayurved being the science of life deals with the health and illness of human beings. Physiology of Ayurved is based on *Dosha* [regulatory functional factors of the body], *Saptadhatidhatus* [seven major structural components of the body], *Mala*[waste product], *Agni* [digestive/ metabolic factor], *Triguna* [three primary attributes], *Ojas* [essence of all seven *dhatu*] and *Srotasa*[structural or functional channels]. Healthy life has three main pillars- *Ahar* [balanced diet], *Nidra* [proper sleep] and *Brahamcharya* [celibacy]^[1]. The importance and relevancy of the third pillar has been mentioned among the eight specialized branches of Ayurved known as *Vajeekarana Tantra*. It is one of the eight specialties of *Ashtang Ayurved* dealing Science of aphrodisiacs, virility and improving health of progeny. It deals with the management of defective semen and spermatogenesis along with sexual potentiation^[2].

Literally the *Vajeearan* is not exactly aphrodisiac but the current connotation meaning is same. In Ayuved the Vaji means horse, the symbol of sexual potency and performance and *Vajeekaran* means making a person like horse by use of drugs and therapy^[3].

Today the importance of *Vajeekaran* has increased because of various disorders related to seminal parameters and sexual dysfunction are reported. There are various references for *Vrishya* and *Vajeekarana* therapy for various problems related to sexual life^[4].

Corresponding author:* **Dr. Manasi Deshpande Professor and Head of Department DravyagunaVigyan, Bharati Vidyapeeth Deemed to be University, College of Ayurved, Pune, India-411043 It enhances not only the quality and longevity of one's individual life but also the health and vitality of his or her offspring. So there is growing need to look for aphrodisiacs more from natural remedies or herbal in origin as opposed to synthetic compounds which are known to cause severe unwanted side effects.

Numerous compound formulations derived either from herbs, metals or animal sources have been described in the *Bharat Bhaishjya Ratnakar[BBR]*. This review aims at enlightening and summarized the Vajeekaran formulations mentioned in Bharat Bhaishjya Ratnakar.

MATERIAL AND METHODOLOGY

The present review was mainly focused on compilation of *Vajeekaran* formulations mentioned in *Bharat Bhaishjya Ratnakar* [part 1to 5], Hindi translation by Shree Nagindas Chhaganlal Shah, for understanding of the formulations ^[5].Various scientific research and review articles published from 2001 to 2020 were also identified through PubMed and Google scholar websites using MeSH terms.

OBSERVATIONS

Concept of Shukra dhatu and shukra vaha srotasa^[6]

Shukra is the last *Dhatu[tissue]* which is formed from of Majja Dhatu and also considered the essence of all the dhatus and hence it is said to be one among the *Dashapranayatana* [place of life].Action of Shukra is *Garbhotpadana* [reproductive], *dhairya* [courage], *chyavana* [ejaculation],

preeti [lust], dehabala [strength], harsha [pleasure].Through the various Srotas[channels]nutrient and other substances are transported in and out of the body. Healthy functioning of shukravaha Srotasa plays pivotal role in maintaining the harmony and happiness in marital life. Due to causes like malnutrition diet, behaviors, psychological factors, injuries and iatrogenic factor it will affect the beeja and vitiated the dosha. Itgets contained in Shukravaha sira and produced various disorders.

Vajeekaran Treatment

Vajeekarantantra is one of the eight branches of Ayurveda which is meant for providing affluence, purity, increase and secretion in case of little, defective, deficient, and dried semen respectively and also for producing exhilaration. *Vrushya* karma acts both as aphrodisiac and spermatopoietic medicine. Sexual dysfunction is the difficulty experienced by an individual or a couple during any stage of a normal sexual activity, including physical pleasure, desire, preference, arousal or orgasm. Sexual dysfunctions can havea profound impact on an individual's perceived quality of sexual life.

 Table 1 Vajeekarana as described in classical texts
 [7]

Ayurved classical texts	Interpretation
	Therapy which improves potential of a man for getting offspring, treats all types of disorders of
Charaka Samhita ^[8]	<i>Shukra</i> (semen); causes instantaneous sexual excitation, performance and nourishes the tissue elements
Sushruta Samhita ^[9]	Shukra pravartakam i.e. which promotes movement of Shukra out of the body.
AshtangaHridya ^[10]	The medicines or therapy by which the man becomes capable of sexual intercourse with greater strength, and nourishes the body of the person. It is the best promoter of strength and vigor.

Pharmacological activities related to Shukra:

Vrishya/ Vajeekar drugs have been classified by different scholars on the basis of their mode of action and effect on the Sukradhatu.

Table 2 Classification of Vajeekar/Vrishya drugs [[]	7, 11, 12, 13]
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According to Chakrapani	According to Dalhana	According to Sharangdhara		
Shukravriddhikara	Shukrajanak	Shukrala		
Shukrasrutikara	Shukra pravartaka	Shukrajanaka		
Shukrasrutivridhikara	Shukra janaka pravartaka	Shukra rechaka		
	-	Shukra stambhaka		
		Shukra shoshak		

Definition of terms

The terms *Vrishya* and *Vajeekarana* are sometimes used interchangeably, but different definitions have been given in classical texts.

- 1. *Vajeekaran*-This is said to revitalize all the seven *dhatus* (body elements), therefore, restores equilibrium and health. It is mainly related with therapies concerning specific remedies for male infertility and impotence as well as female infertility.It is Aphrodisiac, improves sexual desire.
- 2. *Vrushya* It has been described as '*Sukrajanakam*' meaning any substance which increases spermatogenesis. *Vrishy a* drugs increase and potentiate the *Shukra* in the body.

Difference between Vajeekar and Vrushya

These drugs may act as *Vajeekara* also, but all *Vajeekaradravyas* do not possess *Vrishya* property, because stimulant action is predominant in *Vajeekaradravyas* while *Vrishya* is beneficial mainly in increasing the Sukra in quantitative and qualitative measures.

- 3. *Shukrasthambhaka/Viryasthambhak* -Delays time of ejaculation, Drugs which help in improving the capability of ejaculatory control during sexual act.
- 4. *Shukral, Shukrajanan, Viryavardhan*-It improves quantity of semen. The drugs which facilitate and increase the production of *Shukra Dhatu*qualitatively and quantitatively are termed as *Shukrajanan*.
- 5. Vandhyatwanashak/ Napusankatanashak- They provides healthy offspring instantaneously and useful in Infertility and impotency.
- 6. *Kamottejak, Kamashaktivardhak* amativeness the arousal of feelings of sexual desire. Some drugs cause irritation of urogenital tract andstimulation of nerve impulses, thus, help to improve the circulation as wellas stimulate the local nerve endings to enhance the tumescence and rigidityfor erection of penis at the time of copulation.
- 7. *Vajikaran rasayana* -They give health and power to the body, improve the reproductive system and enhance sexual function

Classical Formulations as Vajjeekar/ Vrushya

A number of classical and significant formulations in the various dosage forms are mentioned in Bharat Bhaishjya Ratnakar for different pharmacological actions as *Vrushy* and *Vajeekar*. A total of about 254 compound formulations are described. The list of these formulations and actions for which they are used are presented in Table 3.

Abbreviation

- 1. Vajeekaran- aphrodisiac
- 2. Vrushya- aphrodisiac
- 3. Shukrasthambhak, Viryasthanbhak improving the capability of ejaculatory,
- 4. Shukral, Shukrajanan, Viryavardhak- improves quantity of semen
- 5. Vandhyatvanashak, Napusankatanashak provides healthy off spring,
- 6. Kamottejak, Kamashaktivardhak- amativeness
- 7. Vajikaranrasayana- rejuvenating the reproductive system

The above table provides information of 254 formulations used in various actionsas mentioned above. It is also observed that some formulations are specific to only particular action where as other covers broad range of various conditions. The specificity of formulations in the treatment is due to unique properties of individual plant drugs. Out of 254 formulations maximum formulations indicted as stimulant and aphrodisiac. Among the formulations, maximum dosages form are of *Raskalpa* [Metal & mineral preparation-83], *Churna* (powder-51),*Guti* [Tablet-44], *Avaleha* [electuary-41], *Taila* [oil- 19], *Ghrut* [06] and Kalpa [02] [fig.1]. Table 3 Classical Vajeekar Formulations

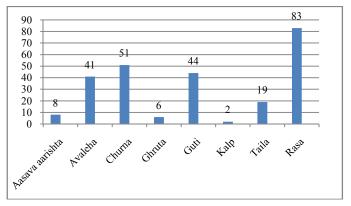
	Table 3 Classical	-						
Sr. No.	. Formulations 1 GUTI	1 Kali	2 PANA	3	4	5	6	7
1	IJGU II Anangmekhalagutika	KALI ✓	ANA	~				
2	Anangmekhalamodak	~		√				
3	Abhravatika 1	\checkmark						\checkmark
4	Arjakadivatika		\checkmark	\checkmark				
5	Ekshwadimodak	✓						\checkmark
6	Kasturigutika					\checkmark		
7	Kamadevvati	✓						\checkmark
8	Kamadevsundarmodak	\checkmark						
9	Kamagni-	~						~
	sandipanomodak	,						
10	Kameshwaromodak	√ √						~
11	Kameshwaromodak 2	*						
12 13	Godhumadipupalika Chan duannah havati	v	./					./
13 14	Chandraprabhavati Jatiphaladivati		•	1				•
15	Jatiphaladivati							
16	Tryushanadigutika						~	
17	Bhogpurandarigutika	✓		✓				
18	Madanvardhanomodak	✓					\checkmark	
19	Mahamadanmodak						\checkmark	
20	Maharativallabhomodak					✓		
21	Mashadimodak						\checkmark	
22	Madanmanjirigutika						\checkmark	
23	Madananandamodak	√						
24	Rasendragutika 2	✓	,					
25	Lavangadigutika		~					
26	Vallabhagutika Vajackarangutika	v			./	¥		
27 28	Vajeekarangutika Vanarigutika	*			v	v		
28 29	Vanarigutika Viryasthambhakarivati	•		~				
29 30	Viryasthambhakvati			✓				
31	Vrushyagutika			•			~	
32	Brumhanigutika		~		~			
33	Vajeekarovatak		~		✓			
34	Vajeekarovatak	✓				~		
35	Shukrasanjivanimodak				\checkmark			
36	ShukraShtambakarivatika			✓				
37	ShatavariModak						\checkmark	
38	Suranmodak		\checkmark					✓
39	Suranvatak		\checkmark					\checkmark
40	Stambhanvatika 1			√				
40	Stambhanvatika 2			v				
41	Stambhanvatika 3			~			,	
42	Swayamguptadimodak	1					~	1
43 44	Uchhatadyamodak Kasturimodak	v	./		./			•
44	2] AASAV	1	, 1915 и т		•			•
45	Dashamoolaarishta 1	1 AAI	XISH17	•	~	~		
46	Dashamoolasav 1				\checkmark			
47	Drakshasava 2						\checkmark	
48	Drakshasava 5				\checkmark			
49	Narikelaasava					✓		
50	Mahadarakshaaasava				\checkmark		\checkmark	
51	Mrutasanjivanisura 2	✓			\checkmark		\checkmark	
52	Haritakyasava				\checkmark		\checkmark	
	3] GHRUT	A KA	LPANA					
53	Ashwagandhadighrutam	~			/		/	
54	Mahakalyanakghrutam 6				v		~	
55	Mashadighrutam		/	/	~			
56 57	Vijayaghrutam Shitakalyanakghrutam	v	• -⁄	v				
57 58	Shitakalyanakghrutam ShatavariGrutam 8		• -			v		
50	ShatavariGrutam 8 4] KALP	KAT	PANA					
59	Nirgundikalp 1	nnL.					~	
60	Triphalakalp						~	
-	5] AVALEI	IA KA	LPAN	4				
61	Ashwagandhapak				\checkmark			
62	Ahiphenpak						\checkmark	
63	Aamrapak	\checkmark						
64	Kalyangud		-			\checkmark	~	-
65	Kushmandkhand		\checkmark					\checkmark
66	Kapikachchupak				\checkmark			
67	Kuberpak		,				~	
68	Kaunchpak		*					/
	Khandashunthi Cudhuahman da mualah a	./	~					~
69	Gudkushmandaavaleha	v						
69 70		✓						
69 70 71	Gokshuradilep	1						
69 70 71 72	Gokshuradilep Gokshuradipaka	1						
69 70 71 72 73	Gokshuradilep Gokshuradipaka Gokshurpaka	1 1 1					~	
69 70 71 72 73 74	Gokshuradilep Gokshuradipaka Gokshurpaka Gokshurpaka	$\begin{array}{c} \checkmark \\ \checkmark \\ \checkmark \\ \checkmark \\ \checkmark \end{array}$	~				✓	
69 70 71 72 73 74 75	Gokshuradilep Gokshuradipaka Gokshurpaka Gokshurpaka Chuharapaka	√ √ √	✓		~		~	
69 70 71 72 73 74 75 76	Gokshuradilep Gokshuradipaka Gokshurpaka Gokshurpaka Chuharapaka Jeevantiyamak	* * *	~		✓ ✓		✓	
69 70 71 72 73 74 75 76 77	Gokshuradilep Gokshuradipaka Gokshurpaka Gokshurpaka Chuharapaka Jeevantiyamak Dhatripaka	* * *	√		√ √		✓ ✓	
69 70 71 72 73 74 75 76	Gokshuradilep Gokshuradipaka Gokshurpaka Gokshurpaka Chuharapaka Jeevantiyamak	* * * * *	V		* *	✓	✓ ✓	

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81	Pishtipak	v						
82 83	Pugakhanda 2 Pugapak	v	./		./	./		v
83 84	Badampak		v		v	v		
85 85	Madhupakwaharitaki 2	*						
86	Malaipak Malaipak	· ·			1			
87	Mushalipaka	•			•		~	
88	Methipak 1				√			
89	Mahakushmandpaka	~						
90	Mushali pakal				\checkmark		\checkmark	
91	Methipaka						\checkmark	
92	Rativallabhapugapaka	\checkmark			\checkmark			
93	Vajeekaroleh 1						\checkmark	
94	Vajeekaroleh 1						\checkmark	
95	Vajeekaroleh 1						\checkmark	
96	Vajeekaroleh 4				\checkmark			
97	Rasonpak 1						\checkmark	
98	Shunthikhanda		~					
<i>99</i>	Sitadivrushyayog		\checkmark	,	\checkmark		\checkmark	
100	Stambhanavaleha			\checkmark	,		,	
101	Khandabhrakam	17.11	D 4 NT 4		✓		~	
102	6] TAILA	A KAL	PANA		/			
102 103	GandhakTailam Gandhak tail patanam				v		./	
103	Chandanaditailam					./	v	
104	Dashamooladitailam 4				1	•		
105	Dashangtailam 2							
107	DadimadyamTailam		✓					
108	Narayan tailam 1	~						
109	Narayan tailam 3					\checkmark		
110	PaneenashakTailam					\checkmark		
111	Balatailam 1				\checkmark			
112	Balatailam 4				\checkmark			
113	BruhatiTailam		\checkmark					
114	Mahasugandhatailam 1				\checkmark	\checkmark		
115	MahasugandhaTailam				~	\checkmark	\checkmark	
116	Mehamihirtailam		\checkmark		\checkmark			
117	RativallabhaakhyamTaila					\checkmark	✓	
	m	,						
118	Ralatailam	V					/	
119	Shatavaritailam 1	/					v	/
120	Sidharthaktailam		T DANIA					v
121	7] CHURN Ashwagandhadichurnam	A KA	LFANA	•				
122	Eladichurnam	•		~				
123	Kamadevchurnam	✓		•	✓			
124	Kumkumadichurnam	~						
125	Kharjuradichurnam		\checkmark		\checkmark			
126	Godhumadiprayog						\checkmark	
127	Guduchyadichurnam	\checkmark					\checkmark	
128	Gokshurchurnam	\checkmark						\checkmark
129	Gokshuradichurnam	\checkmark						
130								
	Gokshuradichurnam	\checkmark						
131	GokshurKalpa	~					~	
132	GokshurKalpa Gandhakyog	~					√ √	
132 133	GokshurKalpa Gandhakyog Churnaratnam	•	✓				✓ ✓	√
132 133 134	GokshurKalpa Gandhakyog Churnaratnam Trikantakadichurnam	√ √	✓		,		✓ ✓	✓
132 133 134 135	GokshurKalpa Gandhakyog Churnaratnam Trikantakadichurnam Trikantakadiprayog	√ √	√		✓		* *	~
132 133 134 135 136	GokshurKalpa Gandhakyog Churnaratnam Trikantakadichurnam Trikantakadiprayog Talbhasmaprayog	✓	√ √		•		✓✓	~
132 133 134 135 136 137	GokshurKalpa Gandhakyog Churnaratnam Trikantakadichurnam Trikantakadiprayog Talbhasmaprayog Dashamoola	✓	✓ ✓ ✓	~	*		√ √	✓ ✓
132 133 134 135 136 137 138	GokshurKalpa Gandhakyog Churnaratnam Trikantakadichurnam Trikantakadiprayog Talbhasmaprayog Dashamoola Nagaballadtamchurnam	√	✓ ✓ ✓	✓	✓		✓ ✓ ✓	✓ ✓
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161	Vidaryadichurnam				~			
162	Vidaryadiyog 1	~			,			
163 164	Vrushadichurnam Bruhatvarahikandachurnam			1	~			
165	Vrushyayog			•			~	
166	Shatavaryadichurnam 2	~			,			
167 168	Shatavaryadichurnam 3 Shatavaryadichurnam 6				~	~		
169	Hastikarnarasayanam						~	
170 171	Ucchatadichurnam Kamashuarahumam				√ √			
1/1	Kameshwarchurnam 8] RAS KA	ALPAN	ŇĂ		v			
172	Anangnigadoras	√ √						
173 174	Anangsundaroras 1 Abhrakbhasma	~	~		~	~		
175	Kanakandarparas						~	
176	Kandarpasundaroras	~	,					
177 178	Kantarasayanam Kamadeepakras	~	•					
179	Kamadutaras						✓.	
180 181	Kamdevras 1 Kamdevras 2						1	
182	Kamdevras 2 Kamdevras 3						* * * * * *	
183	Kamkalakhyoras						1	
184 185	Kaminidarpaghnaras Kaminisandipanoras				~		¥	~
186	Kaminimadbhanjanoras						~	
187 188	Kaminividravanoras			~			./	
188	Chandrodayoras TrikantakadyoRas	~					¥	•
190	Tarunandaras	~						✓
191 192	Tarasundarivati Tala vatika						~	
192	Divyamrutaras 1				•		~	~
194	Nageshwarvidhi						1	
195 196	Nariimattagajankusharas Nrupativallabharas	~					~	
197	Panchasayak						~	
198	Panchamrutaras 11		~	,	~			
199 200	Paradadiyog Purandarvati		~	•				
201	Pushpadhanvaras						~	
202	Purnachandrodayras Purnenduras	~						~
203 204	Pramadanandoras 2				~		¥ ✓	
205	Pramadebhankushras		~					
206 207	Trikantakadyoras Makardhwajo ras2	~					1	
207	Madankamadevoras 1		~				* * * * * *	
209	Madankamadevoras 2						1	
210 211	Madanakamoras Madanmunmadras						¥	
212	Madansundarras 1						~	
213	Madansundarras 2		~				,	
214 215	Madanodyaras Mahakanaksindurras						~	~
216	Mahakameshwaromodak	~						
217 218	Mahagandhakam Maharajvati 2	1						
218	Mahalakshmivilasras	¥						•
220	Maheshwarras 2						~	
221 222	Manikyaras 2 Mrutakandarpajeevanras				~		1	
223	Mrutyunjayras 3				~	~	•	
224	Mrutyunjayras 7	,					~	
225 226	Raktaras Ratnaprabhavatika	~	~					~
227	Rasa bhasmavidhi						~	
228	Rasendragutika 2	~			,			/
229 230	Rasendravati Lakshmana lauham 2	~	~		v			v
231	Lakshmi vilasras 1						~	
232 233	Lakshmi vilasras 4 Laghukameshwarguti				1	~	1	
233	Lilavilasras 2				•		~	
235	Lokanathras 4				,		1	
236 237	Vasantakusumakarras Vasantakusumakarras				1		~	1
238	Vijayaparpati	~			·			✓
239	VilasaniVallabharas	,		~				
240 241	Shashank ras 2 Shakravallabhoras	* *		~				
242	Shrungarabhram 1	~					~	
243	Shrungarabhram 2		٠ ٠				~	
244 245	Shreedamaranandabhram Sanjivanabhram		~					~
246	Sidhashalmalikalpa						~	
247 248	Sidhasuta Sinduradivati	1		~	~			
248 249	Sinauraaivati Suryachandraprabhagutika	·		•			~	
250	Swalpachandrodaymakardhwaj	~			~		,	
251 252	Harashashaankaras 2 Harashashaankaras 2						× ×	
253	Kshaykulantakras	~						~
254	Kameshwarras 1 Total	77	34	24	51	24	√ 93	√ 31
	101111	11	54	24	51	24	73	31

DISCUSSION

Vajeekaran is an important treatment modality to revitalize all the seven *dhatus* [tissues], it increased sexual capacity, improving health of future progeny as well as in treatment of many common sexual disorders like infertility, erectile dysfunction and premature ejaculation. After review of total 9598 formulations from *Bharat Bhaishajya Ratnakar*, total 254 formulations are used as *vrushya* and *Vajeekar*. These formulations are combinations of various plant drugs, minerals, metals and animal originated and act by its specific action. *Shukral dravyas* are generally sweet in taste and post digestive effect, cold in potency and heavy, oily in physical properties. Due to similar properties they increase quantity and quality of *shukra dhatu. Kamottejak* [Stimulant] dugs are hot in nature and sharp in attributes, they acts by stimulating nervous system of reproductive system. *Shukra stambhaka dravyas* are bitter & astringent in taste. *Shukrajanaka* drugs may initiate or enhance either spermatogenesis or androgen synthesis or both, whereas *Shukrapravartaka* drugs either improve ejaculation or improve the action of androgens.^[14, 15]



Dosages form of various formulations as Vajeekar[Fig.1]

Rasayan drugs acts inside the human body by modulating the neuro-endocrino-immune system. *Vajeekaranrasayan* improves the reproductive system and enhance sexual function. They act on higher center of the brain, i.e., the hypothalamus and limbic system. *Vajeekaran* also claims to have anti-stress, adaptogenic actions, which helps to alleviate anxiety associated with sexual desire and performance ^[15]. In general the Vajeekarana therapy can be broadly classified into two groups on the basis of their pharmacological action as those acting at Psychic level and those acting at Somatic level.

CONCLUSION

In this review article, an attempt has been made to compile the *Vajeekar* formulations mentioned *Bharat Bhaishjya Ratnakar*. Currently the importance of *vajeekar/ Vrushya* formulations have been increased as more and more people are reporting with various disorders related to seminal parameters and sexual dysfunction. A combination of single herbs and formulations may be solutions to treat various conditions related to *shukra dhatu* in an effective manner. There is need of well-planned clinical trials to establish the safety and efficacy of Ayurved formulations.

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