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**Review Article** 

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# A BIRD EYE VIEW ON SEMATOGOGUE (SHUKRALA) DRUGS OF BHAVPRAKASH NIGHANTU: A LITERARY SURVEY

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#### **ABSTRACT**

Male infertility refers to a male's inability to conceive in a fertile female. It is a common problem now-a-days because of improper lifestyle and unhealthy food habits which causes Shukra dhatu kshaya in youngsters. Healthy Shukra is responsible for healthy off springs. Shukrala dravyas produce healthy shukra which is responsible for garbha dharan (conception). Seven dhatus make the human body. Out of seven dhatus sukra is the last and purest form of dhatus. According to Acharva Charaka, Shukra dhatus is of half Anjali (selfmeasurement). Shukrala karma is mentioned Acharya by Sharangadhara in Sharangadhara Samhita, Purvardha, 4th chapter, Deepan-Pachanadi Kathanam. Ayurveda has always given importance of having healthy offspring. Many drugs have been mentioned in our science for this karma. Here we have screened Bhavaprakasha Nighantu of Bhavamishra for Shukrala, Shukraprada, shukrakar, veeryakar dravyas.

**KEYWORDS:** Shukrala, Bhavaprakasha, Sematogogue, Literary review.

#### INTRODUCTION

*Shukrala* means brightness, clearness, light, flame, glow, heat as per the Sanskrit root word "shuch". *Shukra* literally means semen virile, sperm, lucid, clear in human physiology, *Shukra dhatu* is a body component having reproductive capacity.<sup>[1]</sup>

Shukra dhatu is described in two forms in Ayurveda classics

- The one that is ejaculated during the process of mating, which is responsible for fertilization of ovum and thus embryogenesis.
- The one that is formed from previous *Dhatus* that fills the *Majja Dhatu* (bony cavities). This in turn circulates all over the body both in males and females.

Reproduction and embryogenesis is the main function of *Shukra Dhathu* and first one stands for the semen in general and sperms in particular. The second form of *Shukra* stands for hypothalamic-pituitary-gonadal axis of hormones that circulate all over the body.

The Synonymsof Shukra Dhatu are Pumstvam, Paurusham, Retas, Beejam, Veeryam, Teja, Indriyam, Annavikara, MajjarasaShukra. It is comprised of four Mahabhutas (four elements) that is Vayu, Agni, Prithvi and Jala in equal proportion. It is originated from six Rasas (tastes).<sup>[2]</sup>

The pure virile *Shukra* (semen) is *Snigdha* (unctuous), *Ghana* (viscous), *Picchila* (slimy), *Madhura* (sweet). It does not cause *Daha* (burning sensation) in genital tract so it is *Avidahi* (without burning sensation). It looks like *Shukla* (white like crystal quartz).<sup>[3]</sup>

#### Formation and metabolism of Shukra dhatu

Shurkra dhatu takes its origin from the Snigdha part of Majja Dhatu, which is the previous to Shukra dhatu. Majja Dhatu (Marrow) is present in Asthi Dhatu (Bones). Action of Vayu and Akash Mahabhuta (2 Elements) creates Sukshma Chhidra (minute pores) in Asthi Dhatu (bones). Like water oozing out of new mud pot, Shukra oozes out of these pores by metabolic factors responsible for the formation of Shukra dhatu (Semen). Then it is circulated through Shukra vaha srotas (reproductive channels) to all over the body. Thus, Shukra dhatu is present all over body. [4]

The reproductive form of *Shukra Dhatu* (semen) is present in *Vrushana* (testicles). After maturation, at the time *Sukra Vega* (urge for ejaculation), the *Shukra* (semen) is discharged

through *Shepha* (penis). This process happens just like *ghee* is melted by heat.<sup>[5]</sup> The total quantity of *Shukra* is mentioned as half *anjali* (unit of measurement).<sup>[6]</sup> Anjali is a personified measurement unit. *Shukra* is formed on the seventh day by the transformation of *Ahara Rasa*(nutrient fluid). The *Vrishya*(aphrodisiac)food and medicines enhance the formation of *Shukra Dhatu* in a shorter time.<sup>[7]</sup> *Sushruta* opines that *Shukra Dhatu* is formed in a time span of one month. (18090 *kala*≈30days).<sup>[8]</sup> Functions of Shukra Dhatu (semen) areejaculation, strength of the body, enhance courage, pleasure, love, lust and affection.

# Etiology<sup>[9]</sup>

#### **Dietary causes**

Consumption of incompatible food, excessive consumption of dry, bitter, astringent, salty, sour, hot food.

#### Psychological causes

Anxiety, distress, distrust, apprehension, rage, exorcism.

#### • Causes related to coitus

Excess intercourse, untimely coitus, coitus other than in vagina, or complete abstinence from it (suppression of discharge of semen), unaware of female desire, untimely ejaculation etc.

**General decline**: Reasons for the decline are not known with certainty, but it may be associated with chemical exposure or maternal smoking during prenatal development or pesticide exposure or lifestyle changes during adulthood.

Age: Although it is possible for men to be father in old age, but the genetic quality of sperm, as well as its volume and motility, all typically decreases with age. In other words, older sperm are less likely to result in a successful pregnancy and, moreover, the cumulative fragmentation of sperm DNA over timeincreases the likelihood that a small fraction of men will pass on achondroplasia and transmit multiple genetic and chromosomal defects. While advanced age can be a possible factor in sperm motility and health, the sperm of men below 20 years of age has likewise been linked to an increase in birth defects such as neural tube defects, hypospadias, cystic kidney, and Down syndrome.

#### Heat

Sperm are heat-sensitive, and cannot endure high temperatures. Increase of 2–3 °C are associated with increased DNA fragmentation. Placement of a laptop computer over the groin for extended use and fever raises the body temperature, which can affect sperm quality. In the same way, sperm quality can be low in the summer.

#### Physical trauma

A blow from outside does not affect the sperm quality of already produced sperm cells. Furthermore, the testes are well protected in the scrotum.

#### Chemicals

There is suspicion that many toxic substances, including several types of medication (antibiotics) and hormones (steroids), and also constituents of the diet, influence sperm quantity and quality.

Environmental mutagens that are associated with decreased semen quality include the following

- Cadmium, causing damage to Sertoli cells, thereby impeding spermatogenesis.
- Lead, causing reduced spermatogenesis and abnormal spermatozoa.
- Mercury, being highly damaging to spermatogenesis.

Many pesticides, causing decreased semen quality as well as sperm chromosome anomalies.

#### Medications

- Many psychoactive drugs, including antidepressants, antiepileptics (e.g. lithium), and propranolol
- Opioid analgesics
- Calcium channel blockers
- Phosphodiesterase inhibitors (e.g. caffeine, theophylline, pentoxifylline)
- Statins
- Calcium chelators (e.g. EDTA).

Also, numerous products that are intended for exposure to spermatozoa have only a general assumption of safety based on the absence of evidence of actual harm.

#### Diet

- Drinking over 1 L of aerated drinks a day might decrease sperm quality by up to 30%
- Soy products decrease sperm quality due to the high content of a type
  of phytoestrogen called isoflavones. Theoretically, this exposure to high levels
  of phytoestrogen in men may alter the hypothalamic-pituitary-gonadal axis. A few studies
  on animals have shown that such a hormonal effect may be significant and decrease
  fertility.
- Gossypol has been associated with reduced sperm production. It is present in crude cottonseed oil, and potentially the organ meats from animals poisoned with it.
- Diets rich in processed meat, fried foods, potatoes, full-fat dairy products, caffeine, alcohol and sugar-sweetened beverages have been inversely associated with the quality of semen.

#### Other causes

Excess exercise, senility, improper usage of surgical instruments, *Kshara* (alkali), *Agni*(heat), emaciation due to other diseases, *Vega Dharan* (suppression of natural urges), injury, morbidity causing vitiation of *Dhatus*, Doshas individually or collectively reaching Retovahasrotas (reproductive system) leads to acute disorders of the *Shukra* (semen).<sup>[10]</sup>

# **Abnormalities of Semen**<sup>[11]</sup>

Aspermia – lack of semen, Asthenozoospermia – sperm motility below lower limit, Azoospermia – absence of sperm in ejaculate, Hyperspermia – semen volume above higher limit, Hypospermia – Semen volume below lower limit, Oligozoospermia – total sperm count below lower limit, Necrozoospermia – Absence of living sperm in the ejaculate, Teratozoospermia – percent normal forms below lower limit.

#### **Abnormal states**

The increase or decrease in quality and/or quantity of shukra dhatu can lead to various abnormal conditions. The states can be assessed by the following clinical features.

# Signs of decrease<sup>[12,13,14]</sup>

- Debility
- Dryness of mouth
- Pallor
- Asthenia

- Fatigue/giddiness
- Impotency
- Pain in penis and testes
- Delayed ejaculation, absence of ejaculation
- Scanty semen, Semen mixed with blood
- Burning sensation in penis.

# Qualities of semen required for fertility<sup>[15]</sup>

- 1. Volume of semen per ejaculation must be at least 2ml
- 2. Sperm count must be at least 20 million per ml
- 3. Number of sperm in each ejaculation must be at least 40 million
- 4. 75% of sperm per ejaculation must be alive
- 5. 50% of sperm must be motile
- 6. 30% of sperm must have normal shape and structure.
- 7. Sperm with head defect must be less than 35%
- 8. Sperm with midpiece defect must be less than 20%
- 9. Sperm with tail defect must be less than 20%.

# MATERIALS AND METHODS<sup>[16]</sup>

Bhavaprakash nighantu of Shri Bhavamishra which is translated by Prof K.C Chunekar has been used for screening out the dravyas (drugs). Bhavaprkash nighantu has been thoroughly foraged to find the Sukraladravya and the result is listed out from each Varga (group). The terms Sukral and Veerya (synonyms of Sukra) are screened out. Those drugs are made into tables and are examined.

Sr.No	Name of Varga (group)	No of sukrala dravya (sematogogue drugs)	Percentage
1	Haritakyadi Varga (group)	4	4.76%
2	Karpuradi Varga (group)	6	7.14%
3	Guduchyadi Varga (group)	12	14.28%
4	Pushpadi Varga (group)	1	1.19%
5	Vatadi Varga (group)	1	1.19%
6	Aamradi Varga (group)	13	15.47%
7	Dhatuvadi Varga (group)	2	2.38%
8	Dhanya Varga (group)	6	7.14%
9	Saka Varga (group)	7	8.33%
10	Mamsa Varga (group)	11	13.09%
11	Krutanna Varga (group)	11	13.09%
12	Vari Varga (group)	1	1.19%

13	Dugdha Varga (group)	5	5.95%
14	Dadhi Varga (group)	1	1.19%
15	Takra Varga (group)	0	0%
16	Navneeta Varga (group)	1	1.19 %
17	Ghrita Varga (group)	0	0 %
18	Mutra Varga (group)	0	0 %
19	Taila Varga (group)	0	0 %
20	Sandana Varga (group)	0	0 %
21	Madhu Varga (group)	0	0 %
22	Ikshu Varga (group)	2	2.38 %
	Total Drugs	84	100 %

Table 1: Shukrala Drugs in HaritkyadiVarga (group).

Sr.No	Sanskrit Name	Latin Name	Family	Karma (action)	English Name	Reference
1	Ashtavarja	-	-	Shukrala	Group of eight drugs	B.P.N.1/120-144
i.	Kakoli	Roscoea purpurea Smith	Zingiberaceae	Shukrala	Roscoe's Lily	B.P.N.1/122
ii.	Kshirkakoli	Lilium polyphyllum D. Don	Liliaceae	Shukrala	White Himalayan lily	B.P.N.1/122
iii.	Jeevak	Crepidium acuminatum D. Don	Orchidaceae	Shukrala	The gradually tapering Malaxis, Jeevaka	B.P.N.1/122
iv.	Rishbhak	Malaxis muscifera Lindl.	Orchidaceae	Shukrala	Snake mouth orchid	B.P.N.1/122
v.	Meda	Polygonatum verticillatum Linn.	Liliaceae	Shukrala	Whorled Solomon's Seal	B.P.N.1/122
vi.	Mahameda	Polygonatum cirhifolium Wall.	Liliaceae	Shukrala	King's Solomon's Seal	B.P.N.1/122
vii.	Riddhi	Habenaria intermedia D.Don	Orchidaceae	Shukrala	White wild orchid	B.P.N.1/122
viii.	Vriddhi	Habenaria edgeworthii Hook	Orchidaceae	Shukrala	Edgeworth's Habenaria	B.P.N.1/122
2	Yasthimadhu	Glycyrrhiza glabra Linn.	Leguminosae	Shukrala	Liquorice Root	B.P.N.1/146
3	Kutha	Saussurea lappa C.B. Clarke	Compositae	Shukrala	Costus Root	B.P.N.1/173
4	Palandu	Allium cepaLinn.	Liliaceae	Veeryakar	Onion	B.P.N.1/227

Table 2: Shukrala Drugs in KarpuradiVarga (group).

Sr. No.		Sanskrit Name	Latin Name	Family	Karma (action)	English Name	Reference
1		Kasturi	-	-	Shukrala	Musk	B.P.N.2/8
2	Animal	Jabadaka sturi	-	-	Veeryajan aka	Civet cat	B.P.N.2/10
3	Origin	Nakha- Nakhi	-	-	Shukrala	Land snail	B.P.N.2/82
4		Dalchini	Cinnamomum zeylanicum	Lauraceae	Shukrala	Cinnamo n Bark	B.P.N.2/67
5	Plant origin	Thuner	Clerodendrum inforunatum Linn.	Verbenaceae	Shukrakar a	Hill glory bower	B.P.N.2/111
6	Origin	Prapondr ikam	Saussurea obvallata wall.ex C.B Clarke	Asteraceae	Shukrala	Queen of night	B.P.N.2/131

Table 3: Shukrala Drugs in GuduchyadiVarga (group).

Sr. No.	Sanskrit Name	Latin Name	Family	Karma (action)	English Name	Reference
1	Jeevaniya varga	-	-	Shukrakrud		B.P.N.3/58
i - x	Jivanti (out of 10, 9 drugs are mentioned in Astavarga and yastimadhu in Haritakyadi varga)	Leptadenia reticulata W.and A.	Asclepiadaceae	Shukrakrud	Cork swallow wort (all others are entioned in haritakyadi varga)	B.P.N.3/58
2	Mudagparni	Phaseolus trilobus Ait.	Leguminosea	Shukrala	Wild bean	B.P.N.3/53-58
3	Mashparni	Teramnus labialisSpreng.	Leguminosea	Shukral	Blue wiss	B.P.N.3/56-58
4	Sobhaanjan	Moringa pterygosperma Gaertn.	Moringaceae	Shukral	Drum stick tree	B.P.N.3/106
5	Varahikanda	Dioscorea bulbifera Linn.	Dioscoreaceae	Shukrathya	Air potato	B.P.N.3/179
6	Vidarikanda	Pueraria tuberosa DC.	Fabaceae	Shukrada	Indian Kudju	B.P.N.3/181
7	Shatavri	Asparagus racemosus Willd.	Liliaceae	Shukravardh aka	Asparagus	B.P.N.3/187
8	Ashwagandha	Withania somniera Dunal	Solanaceae	Atishukrala	Winter cherry	B.P.N.3/190
9	Vidhara	Argyreia speciosa Linn. f.	Convolvulaceae	Shukrala	Elephant Creeper	B.P.N.3/2
10	Shariva	Ichnocarpus	Asclepiadaceae	Shukrakar	Indian	B.P.N.3/238

		fruitescens R.Br.			sarsaparilla	
11	Kakamachi	Solanum nigrum Linn.	Solanaceae	Shukrada	Garden Nightshade	B.P.N.3/246
12	Jalapippli	Phyla nodiflora Greene	Verbenaceae	Shukrala	Purple Lippia	B.P.N.3/295

# Table 4: ShukralaDrugs in PushpaVarga (Group of Flower).

Sr. No.	Sanskrit Name	Latin Name	Family	Karma (actions)	English Name	Reference
1	Satpatri	Rosa Centifolia Linn.	Rosaceae	Shukrala	Rose	B.P.N.4/23

# Table 5: ShukralaDrugs in VatadiVarga (group).

Sr.No.	Sanskrit Name	Latin Name	Family	Action (karma)	English Name	Reference
1	Parish pipal	Thespesia populnea Soland ex Correa	Malvaceae	Shukraprad	Indian tulip tree	B.P.N.5/5

# Table 6: Shukrala Drugs in Aamradiphala Varga (group of fruits).

Sr. No	Sanskrit Name	Latin Name	Family	Action (karma)	English Name	Reference
1	Aamra (Pakva/Riped)	Spondias mangifera Willd.	Anacardiaceae	Sukravivard han	Indian hog plum	B.P.N.6/5
2	Panas	Artocarpus integrifolia Linn.f.	Moraceae	Shukraprad	Jack tree	B.P.N.6/26
3	Narkilela jala	Cocous Nucifera Linn.	Palmea	Shukrala	Coconut water	B.P.N.6/41
4	Tada	Borassus flabellifer Linn.	Palmea	Shukradam	The palmyra Palm	B.P.N.6/53
5	Badar	Zizyphus sativa Gaertn	Rhamnaceae	Shukralam	Jujube	B.P.N.6/73
6	Srangataka	Trapa bispinosa Roxb.	Trapaceae	Shukraprad	Water caltrops	B.P.N.6/93
7	Madhuka puspa	<i>Madhuca</i> indica J.F.Gmel.	Sapotaceae	Shukrakar	Indian butter tree	B.P.N.6/96
8	Madhuka phala	Madhuca indica J.F.Gmel.	Sapotaceae	Shukral	Indian butter tree	B.P.N.6/97
9	Dadima	Punica	Punicaceae	Shukrala	Pomegranat	B.P.N.6/102

		granatum Linn.			e	
10	Khrajura	Phoenix sylvestris Roxb.	Palmae	Shukradam	Date	B.P.N.6/118
11	Vatada	Prunus amygdalus Batsch	Rosaceae	Shukrakrud	Almond	B.P.N.6/123
12	Sevam	Pyrus malaus Linn.	Rosaceae	Shukrakrut	Apple	B.P.N.6/126
13	Aakshota	Juglans regia Linn.	Juglandaceae	Shukrakrud	Walnut	B.P.N.6/129

Table 7: Shukrala Drugs in DhatvadiVarga (groupof Metal, Gems and poisons).

Sr. No.	Sanskrit Name	Varga (group)	Karma (action)	English Name	Reference
1	Abhraka bhasma	Dhatu	Veeryavrudhi	Mica (Ferro- magnesium silicate)	B.P.N.7/125
2	Sodhita Visha	Visha	Veeryavardhanam	Purified poison	B.P.N.7/204

Table 8: Shukrala Drugs in Dhanya Varga (group of creals, pulses and millets).

Sr. No.	Sanskrit Name	Latin Name	Family	Karma (action)	English Name	Reference
1	Kedaraj Shali	Oryza sativa Linn.	Poaceae	Shukrala	Type of Rice	B.P.N.8/9
2	Rakta Shali	Oryza sativa Linn.	Poaceae	Shukral	Type of Rice	B.P.N.8/15
3	Godhuma	Triticum sativum Lam.	Poaceae	Shukral	Wheat	B.P.N.8/33
4	Madhuli Godhuma	Triticum sativum Lam.	Poaceae	Shukral	Type of Wheat	B.P.N.8/35
5	Mansha	Phaseolus mungo Linn.	Fabaceae	Shukral	Black Gram	B.P.N.8/41
6	Tila	Sesamum indicum Linn.	Pedaliaceae	Shukral	Gingelly	B.P.N.8/65

Table 9: Shukrala Drugs in Shaka Varga (group of potherbs).

Sr. No	Sanskrit Name	Latin Name	Family	Karma (action)	English Name	Reference
1	Vastuka	Chenopodiu malbum Linn.	Chenopodiaceae	Shukrapradam	Lambs Quarters	B.P.N.9/7

2	Potaki	Basella rubra Linn.	Basellaceae	Shukral	Indian Spinach	B.P.N.9/9
3	Kalambi- Shaka	Ipomoea aquatica Forsk.	Convolvulaceae	Shukrakarini	Swamp Cabbage	B.P.N.9/19
4	Kolashimbi	Canavalia gladiate DC.	Fabaceae	Shukral	Sword bean	B.P.N.9/77
5	Vrantaka	Solanum melongena Linn.	Solanaceae	Shukral	Brinjal	B.P.N.9/79
6	Varahikanda	Dioscorea bulbifera Linn.	Dioscoreaceae	Shukral	Air potato	B.P.N.9/107
7	Kaseru	Scirpus kysoor Roxb.	Cyperaceae	Shukral	Water chestnut	B.P.N.9/113

Table 10: Shukrala Drugs in ManshaVarga (group of meat).

Sr. No.	Sanskrit Name	Karma (action)	<b>English Name</b>	Reference
1	Plva	Shukravardhak	Birds that float	B.P.N.10/33
2	Vartaka	Shukrad	Common Quail	B.P.N.10/53
3	Chatak	Shukraprad	Yellow throated sparrow	B.P.N.10/61
4	Kukuta	Shukraprad	Cock	B.P.N.10/63
5	Paaravat		Blue rock pigeon	B.P.N.10/71
6	Pakshyandani	Atishukrakarini	Birds egg	B.P.N.10/72
7	Chaang	Veeryavvardhan	Goat	B.P.N.10/75
8	Mahisha	Shukraprad	Buffalo	B.P.N.10/90 B.P.N.10/90
9	Dand Matsyha	Shukral	Type of Fish	B.P.N.10/116
10	Praposthi	Shukrad	Type of Fish	B.P.N.10/122
11	Kupjadimatshya	Shukravardhak	Fish living in well	B.P.N.10/128

Table 11: Shukrala Drugs in Kriatnna Varga (Food preparations).

Sr. No.	Sanskrit Name	Karma (action)	<b>English Name</b>	Reference
1	Krushra	Shukral	Preparation of rice and pulses	B.P.N.11/10
2	Angar- karkati	Shukrala	Wheat flour cakes	B.P.N.11/34
3	Yavarotika	Shukral	Bread of barley	B.P.N.11/35
4	Bedhmika	Shukral	Bread of wheat and black gram	B.P.N.11/42
5	Urad Bara	Veeryavardhan	Cake of black gram	B.P.N.11/52
6	Urad ka Ras Bara	Shukral	Cake of black gram with	B.P.N.11/54

			buttermilk	
7	Harisa	Shukrada	Meat preparation	B.P.N.11/93
8	Dugdakupika	Shukrakari	Milk preparation	B.P.N.11/135
9	Shrikhand	Shukrala	Curd preparation	B.P.N.11/146
10	Shrakara- udakam	Shukral	Sugar syrup	B.P.N.11/149
11	Shali saktu	Shukrada	Rice preparation	B.P.N.11/170

## Table 12: Shukrala Drugs in Vaari Varga (group of water).

Sr. No.	Sanskrit Name	Karma (action)	<b>English Name</b>	Reference
1	Sharad-Varsha	Shukral	Autumn and Rainy season	B.P.N.12/15
	jala		water	

### Table 13: Shukrala Drugs in Dugdh Varga (group of milk).

Sr. No.	Sanskrit Name	Karma (action)	<b>English Name</b>	Reference
1	Dugda	Sadhyoshukrakar	Milk	B.P.N.13/2
2	Mahisha dugda	Shukrakar	Buffalo milk	B.P.N.13/15
3	Avi dugdha	Shukrapradam	Sheep milk	B.P.N.13/19
4	Santanika	Shukral	Milk cream	B.P.N.13/35
5	Khandadiyukta	Shukral	Milk with	B.P.N.13/36
3	dugda	Silukiai	sugar	<b>D.F.IN.13/30</b>

# Table 14: Shukrala Drugs in DadhiVarga (group of curd).

	Sr. No.	Sanskrit Name	Karma (action)	<b>English Name</b>	Reference
I	1	Dadhi	Shukrakrut	Curd	B.P.N.14/2

# Table 16: Shukrala Drugs in NavneetVarga (group of butter).

Sr. No.	Sanskrit Name	Karma (action)	<b>English Name</b>	Reference
1	Mahisha Navneet	Shukravivardhanam	Butter	B.P.N.16/3

# Table 22: Shukrala Drugs in IkshuVarga (group of sugarcane).

	Sr. No.	Sanskrit Name	Karma (action)	English Name	Reference
Ī	1	Phanita	Shukrakrut	By product of sugar	B.P.N.22/21
	2	Sarkara	Shukrakarini	Sugar	B.P.N.22/30

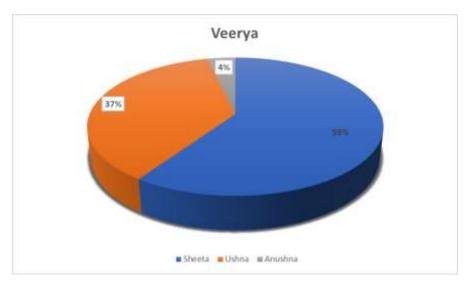


Chart no. 1: Sukrala dravya accordingto veerya.

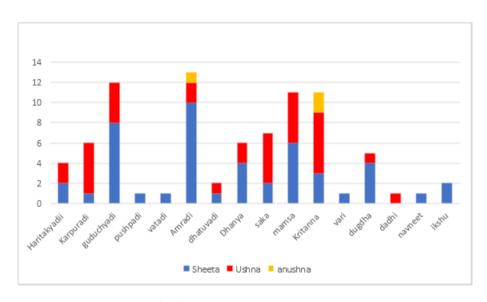


Chart no. 2: Sukrala dravyas according to Varga (group).

#### **DISCUSSION**

Out of 426 drugs in *Bhavaprakash* 84 are sematogogue. 31 are *ushna veerya* (hot potency)50 are *sheeta veerya* (cold potency) and 3 are *anushna* (neither too hot nor too cold). In *haritakyad*i varga 4 (4.76%) are *sukral* 2 *sheeta* and 2 *ushna*, *karpuradi varga* 6 (7.14%), 5 *ushna* 1 *sheeta*, *Guduchyadi varga* 12 (14.28%), 4 *ushna and* 8 *sheeta*, *Pushpadi varga* 1 (1.19%) only one *ushna*, *Vatadi varga* 1(1.19%) *Amradi phala varga* 13 (15.47%) *Ushna* 2 *Sheeta* 10 *Anushna* 1, *Dhatvadi varga* 2(2.38%) 1 *ushna* 1 *Sheeta*, *Dhanya varga* 6 (7.14%) *Ushna* 2 *sheeta* 4, *Shaka varga* 7 (8.33%) *Ushna* 5 *sheeta* 2, *Mansa varga* 11(13.09%) *Ushna* 5 and *Sheeta* 6, *Krutanna varga* 11(13.09%) *Ushna* 3 *Sheeta* 6 *anushna* 2, *Vari varga* 1(1.19%) *sheeta* 1, *Dugdha varga* 5(5.95%) *Ushna* 1 *sheeta* 4, *Dadhi varga* 1(1.19%) *Ushna* 

1, Navneeta varga 1(1.19%) sheeta 1, Ikshu varga 2(2.38%) sheeta 2. Takra(butter milk) varg, Ghrita (clarified butter) varga, mutra (Urine) varga, Taila (Oils) varga, Sandhana (fermented preparation)varga and madhu (honey) varga dosent have any drugs which is Shukrala. In Haritakyadi varga Ashtavarga (Group of 8 Drugs) and jeevaniyadi gana from guduchyadi varga as 2 single drugs.

Ashwagandha (Withaniasomnifera Linn) and Pakshyandani (bird's egg) are atishuktrala. Out of 100 these 2 increase process of semen production other than any other shukrala dravyas. Dugdha (all types of milk) is sadhyosukrakar. Sadyosukrakar means the production of semen will be faster as compared to normal time period. Shukrala, Shukrakar, Shukraprada, Shukrad, Veeryavardhan, Veeryakar all are the terms by Achaya Bhavamishra for Semeatogogue drugs.

Mode of Action Sheeta veerya (Cold potency)shukral dravyas (Sematogogue drugs)<sup>[17]</sup>

Shukra (semen)

Madhur rasa, madhur vipaka and sheeta veerya dravyas

Shukranu poshan (nourishment of sperm) Shukra dhatu Vridhi (increases sperm count)

Indicated in Ksheena shukra (Oloigospermia, Azoospermia etc)

Mode of action of ushna veeya(hot potency) shukral drugs (sematogogue)<sup>[18]</sup>

Shukra (semen)

Madhura rasa, madhura vipaka and ushna veerya

Madhura rasa increase jala mahabhuta

ushna veeryadravyas increase the drava guna of pitta and sanghat bhed

Indicated in *Grandi bhut shukraand puya shukra*(Decreased motility of spermdue to increase in viscosity)

#### CONCLUSION

In day to day practice we use few drugs like *Aswagandha*, *Satavari*, *Kapikacchu*, *Shilajit*, etc. As per *Bhavaprakash* we were able to identify 84 drugs which can be used in *Shukra Vyadhi* (semen disorders). Diseases related to decreased seminal fluid (hypospermia) and motility (asthenozoospermia), we can use *Ushna Veerya Dravyas*. In conditions of oligospermia, azospermia where the sperm count is decreased we can use drugs which are *Sheeta Veerya*.

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