IJCRT.ORG ISSN: 2320-2882



# INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

An International Open Access, Peer-reviewed, Refereed Journal

# THE HUMAN IMMUNITY AND THE ROLE OF RASAYANA DRAVYAS FROM RAJ NIGHANTU

Vd.Kalyani Dattatray Mharse1,Vd.Parashuram Sahadu Pawar2,Vd.Pritam Suryabhan Pawale3, Vd.Ketaki Pravin Deshmukh4, Vd.Santoshi Vasantrao Patil5,Vd.Vrushali Balasaheb Dani6 1PG Scholar,2HOD,Professor & Guide, 3Associate professor, 4,5,6Assistant Professor

Dravyaguna Vidnyan Department ,Shree Saptashrungi Ayurved Mahavidyalaya & Hospital ,Nashik ,India

### ABSTRACT-

Ayurveda is the most ancient and well documented system of medicine which has two aims-maintenance of positive health and the cure of diseases. In current scenario, we are faced with a host of health problems. The herbs which are used to enhance the resistance of body against infections have been a leading theory of Ayurveda and for this there is an independent group of immunomodulatory drugs called as Rasayana. According to modern science, Rasayana can be compared to anti-oxidant, anti-stress, immunomodulatory drugs etc. Immunomodulatory drugs alter the response of the immune system by promotion of health as well as prevention and extermination of the diseases. Antioxidant drugs are having ability to put a break on the oxidation that damages the cells. Similarly in Ayurveda, Rasayana dravyas are also act at various levels like Rasa, Agni and Srotasa.

Ayurveda is not just science that deals with diseases and their treatment. It is a way of life that describes how to stay healthy and improve longevity. Raj Nighantu is one of the our ancient literature textbook of ayurveda and it has mentioned 37 dravyas as Rasayana. So, screening of Rasayana dravyas from Raj Nighantu can provide useful information to medical practitioners. These Rasayana dravyas can ultimately become useful in healthy individuals and in patients suffering from various infections or diseases in maintaining and enhancing their natural immunity. Here an effort has been carried out to explore the mode of action of Rasayana herbs listed in RajNighantu . Also this paper makes an attempt to study Rasapanchkas of these Rasayana dravyas to assess their probable mode of action as Rasayana.

Key Words: Rasayana, Immunity, Raj Nighantu, Raspanchaka, Immunomodulator.

#### Introduction

Everyday our body comes in contact with several pathogens, but only a few results into diseases. The reason is, our body has the defence mechanism against these pathogens called immunity.

Ayurveda is a traditional medicine system with a special mention of immunity along with various tips on how to improve it. Ayurveda is not just science that deals with diseases and their treatment. It is a way of life that describes how to stay healthy and improve longevity. For the same reason, most of the classical texts in Ayurveda dedicates itself to the prevention of diseases, ways to stay healthy and improving immunity, before digging into diseases and its treatment. Acharya Charaka says, "Swasthasya SwasthyaRakshanam", that is the primary focus of Ayurveda is preserving the health of healthy persons. Now, this gains more importance during this modern era, when we are encountered with new viruses and pathogens on a daily basis and have to survive such odds. The role of Ayurveda in immune protection cannot

be emphasised enough. The preventive measures described in Ayurveda against diseases indirectly results in boosting up the immunity of the individual.

Rasayana Chikitsa (rejuvenation) is a inimitable branch of Ayurveda. The word "Rasayana" means the way for attaining excellent Rasadi Dhatus. In Ayurveda, one of the major methods of presentation of positive health has been described i.e. Rasayana. The ultimate aim of Rasayan therapy is to correct dosha disturbances and improve Agni and Dhatu function which overall improves strength, immunity. Basically, the application of Rasayan therapy comes in the perspective of premature ageing (Jara) and death. Rasayanas are used as preventive, curative and health promotive purpose. Rasayana Dravyas acts at various levels i.e. Rasadi dhatu, Agni and srotas means at the level of cellular metabolism and improve the metabolic activities of the body and ultimately immunity.

On Screening most of the rasayana dravyas ,we studied their Rasapanchakas- Rasa ,Guna, Veerya , Vipaka and Doshik Karma .It will help in knowing their mode of action as a Rasayana .

# **Aims and Objectives**

- [1] To Review dravyas mentioned as Rasayana in sutras of Raj Nighantu
- [2] To Study action of above selected dravyas as an immunity modulator or immunity booster.
- [3] To classify the dravyas on the basis of Rasadi properties, Doshaghnata and also specific pharmacological actions responsible for Rasayana karma.

#### **Material & Methods**

#### **Materials**

- Raj Nighantu of Pandit Narahari edited with Dr.Indradeva Tripathi 'Dravyagunaprakashika 'Hindi commentary by
- Pubmed and Google web search regarding Rasayana action.

#### **Methods**

- The drugs are collected from different Vargas of Rajanighantu of Pandit Narahari (in 17<sup>th</sup> Century A.D.) Hindi commentary by Dr.Indradeva Tripathi
- Main focus is made only on the Rasayana dravyas which are described in Shloka form. Dravyas mentioned as Rasayana in sutras from Rajanighantu are enlisted.
- The review of the selected Rasayan dravyas from Rajanighantu for their Rasadi properties, Doshaghnata, Sanskrit names, Latin names and its Rasayana related Pharmacological Activity were taken.
- The Pubmed and Google scholar web search of enlisted Rasayana dravyas was done for their Rasayana action as per the modern pharmacology.
- The classification of dravyas on the basis of above review was done. Rasayana on the basis of their Rasadi properties, Doshaghnata and modern pharmacology.

# **RAJ NIGHANTU**

The book is known as 'Raj Nighantu', written by Shri. Narhari Pandit of Kashmir was originally named as "Abhidhan Cudamani" or Dravyabhidhan-gana-Sangraha".His date may be placed in 17<sup>th</sup> century A.D. i.e. after Bhavamishra.

Hindi commentary named 'Rajanighantu' of pandit Narahari written by Dr. Indradeva Tripathi. This Nighantu is divided in to 23 Vargas.

Table 1: Raj Nighantu Vargas

Sr.No.	Name of Vargas	Dravyas Includes in Vargas of Raj Nighantu		
1.	Anupadi Varga	Description of Desha, Kshetra		
2.	Dharanyadi Varga	Description of Bhumi ,Parvat ,Vana-Upvana		
3.	Guduchyadi Varga	52 Dravyas (Climbers)		
4.	Shatavhadi Varga	80 Dravyas (large herbs)		
5.	Parpatadi Varga	60 Dravyas(Small herbs)		
6.	Pippalyadi Varga	66 Dravyas (Description of various spices)		
7.	Mulakadi Varga	105 Dravyas (mool, kanda ,phal , patra,shaka)		
8.	Shalmalya <mark>di</mark> Varga	59 Dravyas (Spinous medicinal plants)		
9.	Prabhadra <mark>di Var</mark> ga	47 Dravyas(Big Trees)		
10.	Karveeradi Varga	41 Dravyas (Flowering Plants)		
11.	Amradi <mark>Varga</mark>	110 Dravyas(Fruiting trees)		
12.	Chandana <mark>di Varga</mark>	47 Dravyas (Aromatic Plants)		
13.	Suvarnad <mark>i Varg</mark> a	45 Dravyas(Dhatu ,Ratna,Upratna)		
14.	Paniyad <mark>i Varg</mark> a	Description of rivers, ocean, ikshu, madhu, asava-		
		arishta		
15.	Kshirad <mark>i Varga</mark>	Description of Dugdh ,Dadhi ,Ghrita,Navneeta,Takra		
16.	Shalyadi Varga	Description of Dhanya, Kodrav etc.		
17.	Mamsadi Varga	15 types of Pratud Mamsa		
18.	Manushyadi Varga	Description of names of stri, purush, Napunsak, Names		
		of Body Parts		
19.	Sinhadi Varga	Description of 171 animals		
20.	Rogadi Varga	Description 64 types of roga, Chatushpad, Pathya ,Rasa		
21.	Satvadi Varga	Description of Triguna ,Tridosha ,Kaal ,Disha ,Ritu		
		bhed		
22.	Mishrakadi Varga	Description of 61 Mishrak ,Sandhan Varga		
23.	Athaikarthadi Varga	Description of 1-11 arth Dravya		

Table 2: List of Dravyas along with their Latin Name and Family

Sr.No.	Drug	Botanical Name	Family
1.	Gokshura	Tribulus Terrestris	Zygophyllaceae
2.	Shitavari	Blepharis edulis	Acanthaceae
3.	Shatavari	Asparagus racemosus	Liliaceae
4.	Jayantikrushna	Sesbania aegyptica	Leguminosae
5.	Bhrungaraj	Eclipta prostrata	Asteraceae
6.	Mahashravani	Sphaeranthus indicus	Compositae
7.	Gruhakanya	Aloevera indica	Liliaceae
8.	Rudanti	Cressa cretica	Convolvulaceae
9.	Vandak	Dendrophthoe falcata	Loranthaceae
10.	Civilli	Portulaca oleracea	Portulacaceae
11.	Dugdhapheni	Taraxacum officinale	Asteraceae
12.	Hansapadi	Adiantum lunulatum Burm F.	Polypodiaceae
13.	Neel Punarnav <mark>a</mark>	Trianthema portulacastrum	Aizoaceae
14.	Shweta Marich	Piper nigrum	Piperaceae
15.	Rakta Chitrak	Plumbago indica linn.	Plumbaginaceae
16.	Lal Sahijan (Raktashigru)	Moringa concanensis	Moringaceae
17.	Rasona	Allium Sativ <mark>um</mark>	Liliaceae
18.	Varahi kanda	Dioscorea bulb <mark>ifera</mark>	Dioscoreaceae
19.	Krushna Musali	Curculigo orchioides	Amaryllidaceae
20.	Mocharasa	Salmalia malba <mark>rica</mark>	Bombacaceae
21.	Ingudi	Balanites aegyptiaca	Balanitaceae
22.	Sugandha Truna	Cymbopogon martinii Roxb.	Gramineae
23.	Ketaki	Pandanus odoratissimus	Pandanaceae
24.	Neel kamal	Nelumbo nucifera	Nelumbonaceae
25.	Jala Madhuk	Bassia longifolia	Sapotaceae
26.	Amalaki	Emblica officinalis	Euphorbiaceae
27.	Haritaki	Terminalia chebula	Combretaceae
28.	Guggul	Commiphora mukul	Burseraceae
29.	Rohini	Soymida febrifuga	Meliaceae
30.	Suvarna	Auram	-
31.	Vanga	Stannum	-
32.	Peeta Gandhak	Sulphur	-
33.	Shilajit	Asphaltum punjabinum L.	-
			1

35.	Manikya	Ruby	-
36.	Suryakant mani	Sunstone	-
37.	Vajra	Diamond	-

Table 3: List of Dravyas along with their Rasapanchak

Sr. No	Dravya s	Rasa	Veerya	Vipaka	Guna	Doshik Karma	Varga
•	В						
1.	Gokshu ra	Madhur	Sheeta	Madhur	Guru Snigdha	Tridoshahar	Shatavhadivarga
2.	Shitava ri	Kashay Tikta Madhur	Ushna	Madhur	Guru Snigdha	Tridoshahar	Shatavhadivarga
3.	Shatava ri	Madhur Tikta	Sheeta	Madhur	Guru Snigdha	Vatapittahara	Shatavhadivarga
4.	Jayanti krushna	Tikta Katu	Ushna	Katu	Laghu Ruksha	Tridoshahar	Shatavhadivarga
5.	Bhrung araj	Katu Tikta	Ushna	Katu	Laghu Ruksha	Kaphavatahar	Shatavhadivarga
6.	Mahash ravani	Tikta Katu Madhur	Ushna	Katu	Laghu Ruksha	Tridoshahar	Parpatadivarga
7.	Gruhak anya (Ghrutk umari)	Tikta Madhur	Sheeta	Katu	Guru Snig <mark>dha</mark>	Tridoshahar	Parpatadivarga
8.	Rudanti	Katu Tikta	Ushna	Katu	Lag <mark>hu</mark> Ruk <mark>sha</mark>	Vatakaphahar	Parpatadivarga
9.	Vandak	Tikta Kashay Madhur	Sheeta	Katu	Lag <mark>hu</mark> Ruksha	Tridoshahar	Parpatadivarga
10.	Civilli	Amla Kashay	Ushna	Katu	Guru Ruksha	Vatakaphahar	Parpatadivarga
11.	Dugdha pheni	Tikta Katu	Ushna	Katu	Laghu Ruksha	kaphapittahar	Parpatadivarga
12.	Hansap adi	Kashay Katu	Ushna	Madhur	Guru	kaphapittahar	Parpatadivarga
13.	Neel Punarn ava	Tikta Katu	Ushna	Katu	Laghu Ruksha	Vatakaphahar	Parpatadivarga
14.	Shweta Marich	Katu	Ushna	Katu	Laghu Tikshna	Vatakaphahar	Pippalyadivarga
15.	Rakta Chitrak	Katu	Ushna	Katu	Laghu Ruksha Tikshna	Kaphavatahar	Pippalyadivarga
16.	Lal Sahijan (Raktas higru)	Katu Tikta	Ushna	Katu	Laghu Ruksha Tikshna	Kaphavatahar	Mulakadivarga
17.	Rasona	Madhur Tikta Kashay	Ushna	Katu	Snigdha Tikshna Guru	Vatakaphahar	Mulakadivarga

		Katu			Picchila		
		Lavan			Sara		
18.	Varahi	Katu	Ushna	Katu	Laghu	Vatakaphahar	Mulakadivarga
10.	kanda	Tikta	Coma	Tutu	Snigdha	Pittavardhak	TVIGIGIRACCI VAI SA
	nanaa	Madhur			Singuia	1 Itta varant	
19.	Krushn	Madhur	Ushna	Madhur	Guru	Vatapittahar	Mulakadivarga
	a	Tikta	C SILIC	11100011011	Snigdha	, and recording	1110101111001   011 80
	Musali	Timu			Picchila		
20.	Mochar	Kashay	Sheeta	Madhur	Laghu	kaphapittahar	Shalmalyadivarga
20.	asa	Tasnay	Sheeta	Madiai	Snigdha	карпаришнаг	Shamaryaarvarga
	asa				Picchila		
21.	Ingudi	Katu	Ushna	Katu	Laghu	Kaphavatahar	Shalmalyadivarga
21.	mguui	Tikta	Osilia	Katu	Snigdha	Kapiiavataiiai	Silaililaiyadivaiga
22.	Cugand	Tikta	Ushna	Katu		Vanhayatahar	Chalmalyadiyanga
22.	Sugand		Usillia	Katu	Laghu Ruksha	Kaphavatahar	Shalmalyadivarga
	ha	Katu					
22	Truna	TZ 4	TT 1	TZ 4	Tikshna	TD ' 1 1 1	17 1'
23.	Ketaki	Katu	Ushna	Katu	Laghu	Tridoshahar	Karveeradivarga
		Madhur			Snigdha		
2 (	37.	Tikta	Q1	3.6.11		1 1	77 11
24.	Neel	Madhur	Sheeta	Madhur	Laghu	kaphapittahar	Karveeradivarga
	kamal	Tikta			Snigdha		
		Kashay			Picchila		
25.	Jala	Madhur	Sheeta	Madhur	Guru	Vatapittahar	Amradivarga
	Madhu						
	k	• 1					
26.	Amalak	Madhur	Sheeta	Madhur	Guru	Tridoshahar	Amradivarga
	i	Tikta			Ruksha		
		Kashay		)	Sheeta		) )
		Katu					
		Amla					
27.	Haritak	Madhur	Ushna	Madhur	Laghu	Tridoshahar	Amradivarga
	i	Tikta			Ruksha		
		Kashay					
		Katu		- 0			
		Amla					
28.	Guggul	Tikta	Ushna	Katu	Laghu	Vatahar	Chandanadivarga
	88	Kashay			Ruksha		
		Katu			Tikshna		
		11000			Vishad		
29.	Rohini	Katu	Sheeta	Katu	Laghu	Tridoshahar	Chandanadivarga
	2.0	Tikta	21100111		Ruksha	2210001111111	
		Kashay			Tanona		
30.	Suvarn	Kashay	Sheeta	Madhur	Laghu	Tridoshahar	Suvarnadivarga
50.	a	Tikta	Silecta	Madiul	Snigdha	THOSHAILA	Su varriadi varga
	a	Madhur			Singula		
31.	Vanga	Katu	Ushna	Katu	Laghu	Pittahar	Suvarnadivarga
51.	v anga	Tikta	Osima	ixatu	Ruksha	1 manai	Buvainauivaiga
		Kashay			Sara		
		Lavan			Chala		
32.	Peeta	Katu	Ushna	Katu	Sara	Kanhayatahan	Suvarnadivarga
32.			Usiiila	Katu		Kaphavatahar	Suvarnauivarga
	Gandha	Madhur			Snigdha		
22	k Chilaiit	N /11.	T T - 1	N /11.	Laghu	V and 1	C 1!-
33.	Shilajit	Madhur	Ushna	Madhur	Snigdha	Kaphavatahar	Suvarnadivarga
0.1	- ·	Katu	TT 1	3.6.11	Laghu	m · i · i ·	G 11
34.	Parad	Shadras	Ushna	Madhur	Sara	Tridoshahar	Suvarnadivarga
					Snigdha		

35.	Maniky	Madhur	Sheeta	Madhur	Snigdha	Vatapittahar	Suvarnadivarga
	a						
36.	Suryak	Madhur	Ushna	Madhur	Snigdha	Vatakaphahar	Suvarnadivarga
	anta				Ushna	_	_
	mani						
37.	Vajra	Shadras	Ushna	Madhur	Snigdha	Tridoshahar	Suvarnadivarga
	_				Kathin		_

Table 4:Rasayana Dravyas as per their rasa

Rasa	Number of Dravyas
Madhur	4
Madhur-Tikta	3
Madhur-Katu	2
Madhur-Tikta-Kashay	4
Madhur-Katu-Tikta	3
Katu	2
Katu-Tikta	8
Katu-Tikta-Kashay	2
Kashay	
Amla-Kashay	1
Kashay-Katu	1
Katu-Tikta-Kashay-	1
Lavan	
Shadras	2
Amlarahit pancharas	1
Lavanrahit panchras	2

Table 5: Rasayana Dravyas as per their Veerya

Virya	No.of Dravyas
Ushna	26
Sheeta	11

Table 6: Rasayana Dravyas as per their Vipaka

Vipaka	No.of Dravyas
Madhur	16
Amla	0
Katu	21

Table 7: Rasayana Dravyas as per their Doshghnata

Doshaghnata	No.of Dravyas
Tridoshahar	13
Kapha-Vatahar	14
Vata-Pittahar	4
Kapha-pittahar	4
Pittahar	1
Vatahar	1

Table 8: Rasayana Dravyas along with their related pharmacological activity responsible for Rasayana Karma

Sr.No.	Dravyas	Related Pharmacological Activity Responsible for Rasayana Karma	
1.	Gokshura(13)	Immunomodulatory	
2.	Shitavari(14)	Antioxidant, Antimicrobial	
3.	Shatavari (2)	Antioxidant, Immunomodulatory	
		Adaptogenic	
		Rejuvenative	
4.	Jayantikrushna (36)	Antioxidant	
5.	Bhrungaraj (3)	Antioxidant	
6.	Mahashravani(15)	Antioxidant, Immunomodulatory	
7.	Gruhakanya(16)	Antioxidant, Immunomodulatory	
8.	Rudanti (17)	Antioxidant	
9.	Vandak(18)	Antioxidant, antimicrobial	
10.	Civilli (19)	Antioxidant	
11.	Dugdhapheni (20)	Antioxidant, Hepatoprotective	
12.	Hansapadi (21)	Antioxidant	
13.	Neel Punarnava (22)	Antioxidant ,Anticarcinogenic	
14.	Shweta Marich(23)	Antioxidant, Anti-tumour	
15.	Rakta Chitra <mark>k (24)</mark>	Antioxidant	
16.	Lal Sahij <mark>an</mark>	Antioxidant	
	(Raktashigru <mark>)(25)</mark>		
17.	Rasona(4)	Antioxidant, Immunomodulatory	
<b>1</b>		Anti-tumour Anti-tumour	
18.	Varahi kand <mark>a(5)</mark>	Antioxidant, Antimicrobial	
19.	Krushna Musali(26)	<u>Imm</u> unomodulatory	
		Aphrodisiac	
	a the	Antistress	
20.	Mocharasa(27)	Antioxidant,	
		Antiangiogenic	
		Hepatoprotective	
21.	Ingudi (28)	Antioxidant, Hepatoprotective	
22.	Sugandha Truna(29)	Antioxidant, Antimicrobial	
23.	Ketaki (30)	Antioxidant, Cardiotonic	
24.	Neel kamal (31)	Antioxidant, Cytoprotective	
25.	Jala Madhuk(37)	Antioxidant	
26.	Amalaki (32)	Antioxidant	
		Immunomodulatory	
27.	Haritaki(7)	Antioxidant	
		Immunomodulatory	
• • •		Anti-aging, Adaptogenic	
28.	Guggul (8)	Antioxidant	
29.	Rohini (33)	Antioxidant	
20	g (0)	Aphrodisiac	
30.	Suvarna(9)	Immunomodulatory	
0.1	T. (24)	Nootropic	
31.	Vanga(34)	Antioxidant	
32.	Page Candhal (10)	Immunomodulatory	
22	Peeta Gandhak(10)	Antioxidant	
33.	Shilajit(11)		
24	Domod/12\	Immunomodulatory	
34.	Parad(12)	Immunomodulatory	
35.	Manikya(38)	Antioxidant	
36.	Suryakanta Mani(39)	Antioxidant	

37.	Vajra (35)	Immunomodulatory
		Antioxidant
		Adaptogenic
		Anti-stress

#### **Observations**

- I. Total 37 Rasayana dravyas are found from Raj Nighantu from which 29 dravyas are from plant origin and 8 are from rasaushadhi.
- II. 5 dravyas are from Shatavhadi Varga and 8 from Parpatadi Varga, 2 from Pippalyadi Varga, 4 from Mulakadi Varga, 3 from Shalmalyadi Varga and 2 from Karveeradi Varga, 3 Dravyas from Amradi Varga ,2 Dravyas from Chandanadi varga , 8 Dravyas from Suvarnadivarga
- III. Out of 37 Rasayana dravyas, 4 dravyas have Madhur rasa, 3 dravyas have Madhur -Tikta rasa, 2 dravyas have Madhur Katu rasa, 4 dravyas has Madhur ,Tikta ,Kashay rasa,3 dravyas has Madhur Katu Tikta rasa, 2 drugs have Katu rasa. 8 dravyas have Katu Tikta rasa, 2 dravyas have Tikta - Katu Kashay rasa, 1 dravyahas Kashay rasa, 1 dravya has Amla Kashay rasa, 1dravya has Katu- Kashay rasa, 1 dravya has Katu - Kashay -Tikta-Lavan rasa, 2 dravyas have Shadrasa, 1 dravya has Amala rahit pancharasa, 2 dravyas have Lavan rahit panchrasa.
- IV. 26 dravyas have Ushna Veerya and 11 dravyas have Sheeta Veerya.
- V. From these 37 drayvas, 16 dravyas have Madhur Vipak and 21 dravyas have Katu Vipak, and not a single dravya has Amla Vipaka
- VI. Out of this 37 Rasayana dravays, 13 dravyas have Tridoshaghna property, 14 dravyas have Kapha Vata Shamak property, 4 dravyashave Vata- Pitta Shamak property, 4 dravyas have Kapha-Pitta Shamak property, 1 dravya has Vatahar property and 1 Dravya has Pittahar property.
- VII. Out of 37 Rasayana dravyas, 32 dravyas are Antioxidants, 14dravyas have Immunomodulatory action, 2 dravyas are Adaptogenic, 1 dravya is Noootropic, 2 dravyas have Anti-stress action, 2 dravyas have rejuvenative property.

# Discussion

In the present study effort has been taken to compile pharmacological action of Drayyas related to immunity modulator, immunity enhancer from the classics Raj Nighantu . Rasayana act at three levels of the biosystem to promote nutrition, at the level of Agni -by promoting digestion and metabolism, at the level of Srotas -by promoting microcirculation & tissue perfusion and at the level of Rasa itself by acting as direct nutrient. The integrity of channels is equally important for the distribution of Ojas to the Dhatus. In Ayurveda it has been cited that more the amount of Oja more the Rasayana action. It nourishes the Saptadhatu and thus helps in increasing Ojas .Rasayana is improve metabolic processes , which results in the best possible biotransformation and produce best quality body tissues, eradicate senility and thus help prevent disease of

According to Raspanchaka of Rasayana dravyas 8 dravyas have Katu tikta rasa and 4 dravyas have Madhur Rasa, 21 dravyas have Katu Vipaka and. 26 dravyas have Ushna Veerya. 11 dravyas have Sheet Veerya.13 dravyas have Tridoshaghna / Tridoshhar property, 14 dravyas have Kapha-Vata shamak property.

Maximum dravyas which are screened from Raja Nighantu have Katu and Tikta Rasa; Katu Vipak: Ushna Veerya , Tridoshashamak & Kaphavatahar . Most of the Dravyas are Tridoshashamak that balances Tridoshas and revitalises the body.

Most of the Rasayana dravyas from RajNighantu are Antioxidants, and have Immunomodulatory action, Adaptogenic property.

# Conclusion

Out of 37 dravyas screened from RajNighantu, most of the dravyas are from Parpatadi Varga and Suvarnadi varga, they have Madhur , Tikta or Katu Ras as a Pradhan Rasa .Madhur and Katu Vipaka and Ushna Veerya with Laghu - Snigdha or Laghu Ruksha Guna. Tridoshahara and Kapha-vatahar Karma are predominant amongst the Rasayana dravyas group. Out of 37 Rasayana dravyas, 32 dravyas are Antioxidants, 14 dravyas have Immunomodulatory action, 2 dravyas are Adaptogenic, 2 dravyas have Anti-stress action , 2 dravyas have rejuvenative property. As per the modern science Antioxidant and immunomodulatory property is responsible for rejuvenation, which validates that Rasayana dravyas explained by Raj Nighantu are supported by modern pharmacology.Rasayana therapy is not a simple drug therapy but is a specialized therapeutic procedure implicating the fundamental concept of ayurveda. Regular use of these promotes life, maintains positive health , and preserves youth and cure morbid disease . It maintains proper balance amongst Vata , Pitta , Kapha . It can be state that Rasayana Chikitsa is a boon given by Ayurveda to the world.

#### REFERENCE

- 1.Raj Nighantu of Pandit Narhari by Dr.Indradeva Tripathi , hindi commentary , Chowkhamba Krishnadas Academy ,p260
- 2.Gautam M,Saha S, Bani S, Kaul A, Mishra S, PatilD, Satti NK, Suri KA, Gairola S, Suresh K, Jadhav S, Qazi GN, patwardhan B. Immunomodulatory activity of Asparagus Racemosus on systemic Th1/Th2 immunity: Implications for immunoadjuvant potential, Journal of Ethnopharmacology; 2009.121, p. 241-24 3.Chokotia L.S., Vashitha P., Sironiya R., Matoli H.,Pharmacological Activities of Eclipta Alba(L) –

International Jr. of research and Development in

Pharmacy and Life Sciences; June-July 2013.2:4,

p. 499 – 502

- 4.Mikaili P., Maadirad S., Moloudizargari M. et.al. Therapeutic uses and Pharmacological Properties of Garlic, shallot and their biologically active compounds, Iran J Basic Med Sci; 2013, 16(10),p.1031-1048 5. Matin, Franklin W. "The species of Dioscoreacontaining Sapogenin". Economic Botany 23, no.4 (1996): 373 79
- 6.Thakur S., Sharma D.R.: Asparagus adscendensRox, International Journal of Pharmaceutical Science and Health Care; 20015, I(3), p.82-97
- 7.Gupta P.C, Biological and pharmacological properties of Terminalia Chebula Retz (Haritaki) An overview, International journal of Pharmacy and Pharmaceutical Sciences; 2012, Vol 4:3.p. 22-26
- 8.Jain A., Gupta V.B., Chemistry and Pharmacological profile of Guggul Areview, Indian Journal of Traditional Knowledge; 2006, 5(4), p.478-483 https://www.researchgate.net/
- publication/335061193\_Guggul\_Commiphora wightii
- 9.Shraddha Sharma, Swatantra Kumar Chorasia, & Arvind Kumar Yadav. (2021). The role of Swarna Bhasma in the treatment of Autoimmunedisease. Journal of Ayurveda and Integrated Medical Sciences; 6(4), 285 290. Retrieved from

https://www.jaims.in/jaims/article/view/1410

- 10.Girija Kuttan, Immunomodulatory effect of somenaturally occurring Sulphur containing compounds, Journal of Ethnopharmacology; 72(1-2): 93-9
- 11.Singh R., Kaushik S, Yadav P., Galib R, ResearchDevelopment In Immunomodulatory and Antioxidant activities of Shilajatu,Indian drugs 58(09):7-20
- 12.Moszczyriski P. Mercury compounds and the Immune system: a review. Int J Occup Med Environ
- 13.Phytopharmacological overview of Tribulus terrestris ,saurabh chhatre ,Tanuja Nesari , Gauresh Somani ,Divya Kanchan , Sadhana Sathaye,pharmacogn Rev.2014 :45-51
- 14.Total Phenolic content, antioxidant and antimicrobial activities of Blepharis edulis extracts, Mohaddese Mahboubi, Ghasem Haghi, Nastaran Kazempour & Ali Reza Hatemi, Nov 2012
- 15.Sphaeranthus indicus Linn. A phytopharmacological review, Varsha galani ,B.G.Patel ,D.G.Rana ,Int J Ayurveda Res.2010 oct-dec 247-253
- 16.Aloe vera (L.)Webb.:Natural Sources of Antioxidants –A review ,Marzanna Hes , Krzysztof Dziedzic ,Danuta Gorecka , Anna Jedrusek-Golinska and Elzbieta Gujska , Plant Foods Hum Nutr.2019,jun 255-265.
- 17. Antioxidant effect of leaf extracts from Cressa cretica against oxidation process in soyabean oil, Afsaneh Afshari, S. Zahra Sayyed Alangi, Food Sci Nutr. 2017 mar 324-333

- 18.Evaluation of Anti-Inflammatory Activity and In-vitro antioxidant activity of Indian Mistletoe , the Hemiparasite Dendrophthoe falcate (Loranthaceae) Iran J Pharm Res.2011,spring , 253-259
- 19.Phytochemical composition and Antioxidant Activity of Portulaca Oleracea:Influence of the Steaming cooking process,Maria del Pilar Fernandez Poyatos , Eulogio J. Llorent Martinez and Antonio Ruiz-Medina ,Foods .2021 ,Jan.94
- 20.Antioxidant properties of Taraxacum officinale leaf Extract are involved in the protective effect against hepatoxicity induced by acetaminophen in mice, Dirleise colle et al.J Med food 2012 jun, 549-56
- 21. Antioxidant activity and antibacterial activity of adiantum lunulatum burm f. , P J Jenat and S N Suresh international journal of pharmacy and biological sciences , $Oct\ 2018\ p-779-782$
- 22. Antioxidant Properties of Trianthema portulacastrum and protection against Ionizing radiation induced liver damage ex-vivo, Uttam Das et al. Indian j Clin Biochem 2022, Apr 192-198
- 23.Antioxidant ,antibacterial and antimutagenic activity of Piper nigrum seeds extracts ,Saudi Journal of Biological Sciences, 2021 sept,p-5094-5105
- 24. The Isolation of bioactive compounds from the Branches of Plumbago indica L., Sirawit Manyaem , Faculty of science, Srinakharinwirot university ,2022
- 25. Antioxidant activities of Moringa concanensis flowers (fresh and dried) grown in west Bengal ,Dey ankita , Bhattacharyya Sauryya and Pal Tapan Kumar ,pal et al.Int J.Res. Chem .Environ .Vol 4 (64-70)2014
- 26. Antioxidant approach to disease management and the role of Rasayana herbs of Ayurveda , R.Govindarajan , P.Pushpangadan , Journal of Ethnopharmacology ,2005
- 27.Phytochemical Analysis and antioxidant efficacy of the resin of bombax ceiba (salmali), Jan 2015 Int. J. Pharm. Sci. Rev. Res.30, p-333-339, Mudiganti Rao, Hayagreva Kumar M., Arul Amutha, Prabhu K, Bidita chatterjee, S.Selva Kumar
- 28.Phytochemicals, Antioxidant Activity and Ethnobotanical Uses of Balanites aegyptiaca(L.)Del. Fruits from the Arid zone of Mauritania, Northwest Africa, Selouka Mint Abdelaziz et al.Plants 2020 Mar, 401
- 29.Antioxidant and antimicrobial poly-e-caprolactone nanoparticles loaded with cymbopogon martini essential oil, Biocatalysis and Agricultural Biotechnology, vol.23, jan 2020,101499
- 30.Pandanus odoratissimus : A review on Ethnopharmacology , Phytochemistry , and Nutritional Aspects , Prafulla P.Adkar ,and V.H.Bhaskar ,Dec 2014 ,Hindawi ,Vol 2014 , Article Id-120895
- 31. Antioxidant activity of Nelumbo Nucifera (Gaertn) flowers in isolated perfused rat kidney, Rev. bras. Farmacogn .19(1b). Mar 2009
- 32.Antioxidant ,Immunomodulatory and anticancer activities of Emblica officinalis:An overview ,August 2011, International Research Journal of Pharmacy 2(8):38-42 , Madhuri Sharma ,Govind Pandey, Karuna Verma
- 33.Evaluation of antioxidant and antimicrobial properties of Soymida febrifuga leaf extracts, Boreddy Srinivas Reddy et al.Phytother Res.2008 Jul, 22(7)943-7.
- 34. Vanga bhasma: Uses ,Benefits ,Method,Ayurvedic indications, Dosage ,side effects and precautions ,Dec 2022 ,Sowmya Binu , <a href="http://m.netmeds.com">http://m.netmeds.com</a>
- 35.Heerak Bhasma :Benefits ,Ingredients ,Method ,Dosage and Side effects ,Soumita Basu ,Jun 2021 ,netmeds.com
- 36.Phytochemical screening and In-vitro evaluation of Antioxidant activity and antimicrobial activity of the leaves of Sesbania sesban ,vol 1, issue 3, july-sept 2011 , p-66-69 R.P.Mani , Pandey Awanish ,Goswami Shambaditya , Tripathi Poonam , Singh Ajay , V.Kumudhavalli
- 37.Assessment of antioxidant activity , minerals and chemical constituents of edible mahua flower and fruit of using principal component analysis ,vol 51 issue 2 ,july 2020 ,Vinti Singh , Jyotsana Singh , Radha Kushwaha , Monika Singh ,Sandeep Kumar,Awadesh kumar Rai
- 38.A Pharmaceutical Approch on Manikya Pishti towards standardization ,Wavare Ramesh ,Yadav Reena ,Sheth suchita, Sawant Raneet , 2014,Vol 3:105-111
- 39.Review article on Suryakanta Mani ,Aabha Pandey , World Journal Of Pharmaceutical Research ,Vol 10 ,Issue 3 ,568-574