



# International Journal of Recent Advances in Multidisciplinary Research Vol. 08, Issue 06, pp. 6972-6974, June, 2021

# RESEARCH ARTICLE

## EFFECT OF RASAYANA IN AUTOIMMUNE DISEASES: A REVIEW

Dr. Archana Arya<sup>1,\*</sup>, Dr. ZebaMalik<sup>2</sup> and Dr. Sanjay Kumar Tripathi<sup>3</sup>

<sup>1,2</sup>MD Final Year, Dept. of Kaya Chikitsa, Rishikul Campus, UAU Haridwar <sup>3</sup>Prof Dept. of Kaya Chikitsa, Rishikul Campus, UAU Haridwar

#### **ARTICLE INFO**

## Article History:

Received 25<sup>th</sup> March, 2021 Received in revised form 25<sup>th</sup> April, 2021 Accepted 29<sup>th</sup> May, 2021 Published online 30<sup>th</sup> June, 2021

#### Keywords:

Rasayana, Autoimmune Diseases, Vyadhikshamtav, Ojus.

#### **ABSTRACT**

**Objective:** In an autoimmune disease, there is a wrong action of our defense mechanism against the body's own tissue. Autoimmunity is group of illnesses that include almost every organ system. *RASAYANA* is a unique branch of *Ayurveda. Rasayanchikitsa* is also known as rejuvenation therapy. It promotes the inner healing power of an individual and helps him in over taking the pain and disease while promoting the immunity (*SVASTHASYA ORJASKARAM*). **Method:** References regarding *Rasayana* and Autoimmunedisease were collected from various textbooks, published research papers, previous work done. **Result:** *Rasayana* is the method of management by which the excellent form of rasa is maintained in the body. The purpose of *Rasayana* is to obtain strength, immunity, ojus, and removal of toxins. One of the results of *Rasayana* is increasing *Ojus*, which is the factor responsible for *Vyadhikshamtav* (Immunity). *Rasayana* drugs probably reduce stress levels by affecting antioxidant levels. So these *Rasayana* drugs act as potent antioxidants and immunomodulators. Like *Guduchi*, *Ashwagandha*, *Amalaki* etc., have proven effects in autoimmune diseases. **Conclusion**: It can be concluded that *Rasayana* builds natural resistance against infection, increases immunity and have an immunomodulator effect, which prevents any kind of autoimmune disorders.

## INTRODUCTION

In an autoimmune disease, there is a wrong action of our defense mechanism against the body's own tissue. Autoimmune diseases occur when the body is working hard to defend against potentially hazardous substances our bodies, like allergens, toxins, infections or food, but does not see the difference between the invaders and our own body cells. Because certain body cells for harmful antibodies are sent on off'. Autoimmunity is group of illnesses that include almost every organ system. Modern medicinal approach for autoimmune disorders rests primarily upon the use of NSAIDs and corticosteroids. Long usage of NSAIDs damages the liver cells, irritates the gut wall and corticosteroids depress immune functions. It has been crystal clear that the autoimmune diseases are nothing but abnormally activated immune response. The immune response or immunity mentioned in allied science is very well described in Ayurveda as Vyadhikshamatwa ii. Ayurveda has a unique branch of treatment known as Rasayana. Rasayan Chikitsa is also known as rejuvenation therapy. It promotes the inner healing power of an individual and helps in over taking the pain and disease while promoting the immunity. "Rasayana" means the method of obtaining good quality of Rasa. The word Rasa represents the seven Dhatus because they all are nourished by rasa yield of Aahararasa (digestive product of food) iii.

\*Corresponding author: Dr. Archana Arya,

MD Final Year, Dept. of Kaya Chikitsa, Rishikul Campus, UAU Haridwar.

The quality of the rasa in the body directly governs the state of health of an individual. So the meaning of gaining optimum standard of *Rasa* is to be *Rasayana*. *Rasayana* is the method of management by which the excellent form of *Rasa* is maintained in the body <sup>iv</sup>. The purpose of *Rasayana* is to obtain strength immunity, *Ojus*, vitality, will power and determination and it also strengthen the senses. One of the results of *Rasayana* is *Ojus*, which is the factor responsible for *Vyadhikshamtav*, (Immunity).

**AUTOIMMUNE DISEASES:** An autoimmune disease means the immune system start producing auto - antibodies to an antigen, which is usually produced in our body due to some injury to tissues of the body v. The connective tissues such as muscles, skin and joints are prone to wear and tear. Some persons have a tendency for these connective tissues to that are initiated by undergo degenerative changed inflammatory and immunological mechanisms. Thyroiditis, Grave's disease, Rheumatoid arthritis, spondylosis, Muscular dystrophy, Psoriasis, Neuropathy, IBD, Hemolyticanemia, Multiple sclerosis are some of autoimmune diseases found in society vi. It has been crystal clear that these diseases are nothing but abnormally activated immune response. The cause of autoimmune diseases is generally unknown.

The early symptoms of various autoimmune diseases are very similar, such as vii:

J	Fatigue
Ĵ	Achy muscles
J	Swelling and redness
J	Low-grade fever
J	Trouble concentrating
J	Numbness and tingling in the hands and feet
Ĵ	Hair loss
Ĵ	Skin rashes

AYURVEDIC MANAGEMENT OF AUTOIMMUNE **DISEASE** viii: Toxin removal: According to Ayurveda, toxins or Ama in the body interfere with the proper functioning of the immune system, which often leads to autoimmune diseases. Generally, Shunthi, Haritki, Pippli, Maricha, Hingu are used to detoxify the body. Increase in Ojus production: Ojus is the constituent which helps in the nourishment of the immune system. Due to dysfunctional immune system causing the impairment of metabolism, production of Ojus decreased to almost nil. Hence Ayurveda increases Ojus production. Guduchi, Haridra, Amalki, Manjisthaetc., are used to increase Ojus production. Immune system correction: When the immune system is corrected, then the above treatment procedure will effect perfectly. Usually Ghrita, Haritki, Amalki, Bahera, Elaetc., are used to calm the immune system and rejuvenate it. For normal functioning, these drugs helps to correct the immune system.

RASAYANA: Ayurveda is divided into eight branches and Rasayana (rejuvenation) is one of them. Rasayana is formed by the combination of two words "Rasa (Rasa Dhatu= nutrition)" and "Ayana (circulation and promotion)" ix. So according to the literary meaning of Rasaand Ayana, it can be drawn that Rasayana is a regimen or substance with the help of which one can attain, metabolize and channelize the better quality of rasa and other Dhatus up to smallest unit of the body. Rasayana is a specialized type of management influencing the fundamental aspect of body viz. Dhatus, Agni and Srotansi and Ojus etc. Rasayana Chikitsa increases the Oius and immune system. Rasayana deals with the science of nutrition, geritatrics and rejuvenation x. Normally it is found that Rasayana enhances the natural killer cell activity xi. Rasayanas are rejuvenators, nutritional supplements and have strong antioxidant activity with antagonistic actions on the oxidative stressors, that give rise to the formation of different free radicals. Rasayana activate mononuclear cells to produce cytokines. So Rasayana (particularly those Rasayana drugs having Madhur Vipaka) activate immune cells, leading to secretion of cytokines. Rasayana reduces load of hydroxide, peroxide and oxygen free radicals because they acts as free radical scavengers xii. Free radical mediated haemolysis is also reduced by Rasayana. Immunity, strength and resistance of body depend upon the quality and quantity of Ojus; when Ojus depleted, it predisposes us to lowered immunity, low spirits and ill-health. All rejuvenation therapies are, therefore, targeted at improving Ojas xiii. Ojas is the eighth Dhatu, or the essence of all the body tissues, the ultimate product of nutrition and digestion, and the prime energy reserve for the entire body. It provides the energy, vitality, that we get throughout life xiv.

## BENEFITS OF RASAYANA XV XVI.

It enables the body to develop its own vital energy or the defensive mechanism against disease.

Rasayanas are	believed	to	build	a	barrier	against	stress
and infection.							

It removes waste products or remove toxins in the body It increases the strength and immunity of the body.

Rasayana drugsact as Antioxidants as well as Immunomodulator may also act as antiaging.

### IMMUNOMODULATORY EFFECT OF RASAYANA:

An immunomodulator may be defined as a substance, biological and synthetic, which can stimulate, suppress and modulate any of the mechanisms of the immune system including both innate and adaptive arms of the immune response xvii Rasayana drugs also acts as immunomodulator. Rasayanas as immunomodulators activate the immune function without altering the other basic parameters of the body. The immunomodulator effects of Rasayana are xviii:

Rasayana stimulate phagocytosis.
It increases phagocytic index.
It increases lysosomal secretions of macrophages.
It increases bone marrow cellularity.
It delays ageing process.
It improves healing and prevents diseases at early stage.

Certain *Rasayana* drugs act as Immunomodulator. Strengthening of immunity is done in various ways – by promoting body's defense Mechanisms like increasing the WBC count, improving immune function. Bodily defense mechanism is promoted. Certain *Rasayana* drugs also increase the number of immune cells known as T cells & B cells which help in fighting against the infections.

## Some Rasayana herbs are xix:

- *Guduchi*: *Guduchi* is known to be a rich source of trace elements (zinc and copper) which act as antioxidant <sup>xx</sup> and protects cells from the damaging effects of oxygen radicals generated during immune activation. It enhances cellular and humoral immunity.
- Aswagandha: It has significant modulation of immune reactivity. It also stimulates macrophages. It has immunosuppressive effect on B and T lymphocytes. It is found that Aswagandha increases Hb concentration, RBC count, and platelet count.
- Amalki: Amalaki is well known for its antioxidant xxi and detoxification properties. As an adaptogen, Amalaki improves immunity and boosts both cell mediated and humoral response.

### CONCLUSION

In autoimmune diseases there is a defect of immune response. Autoimmune diseases may have cured by improving the immune system. *Rasayana*increases *Ojus* which is responsible for immunity and have an antioxidant activity which helps in removing free radicals. It can be concluded that *Rasayana* builds natural resistance against infections, helps in increasing immunity and also has an immunomodulator effect, which prevents autoimmune disorders.

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