## InternationalJournalofMultidisciplinaryResearch EducationAnalysisandDevelopment–IJMREAD Peer-Reviewed:OpenAccess

Dr Pramod KumarGovernment Degree College, Dept. of Chemistry , Jaithra (Etah)

### Dr. Mradalini Pandey, AIMS, Delhi

Dr Vipin Singh, Dept. of Chemistry, Agra Agra College Agra

#### ABSTRACT

Modern medicinal practice is adopted now a day in which all three types of medicinal practices are included; herbal treatment is one of them. This paper comprises natural treatment that is emerging all over the world as an alternative and complementary cure of chronic disease. Abnormal sugar level is a human disorder that has long-term inferences for persons suffering from the illness, also the health- maintenance system in total. One of the factors that is involve in the occurrence of ASL (Abnormal sugar level )is the damaging effect of free radicals. Therefore, anti-ASL bioactive constituents with antioxidant activity should be utilized. Moderation in lifestyle, exercise, and diet are all crucial factors for the effective treatment of ASL. Medicines procured from medicinal plants are being utilized by around 60% of the globe population. Though several approaches are utilized to decrease the damaging effect of ASL.

Keywords-ASL, Modern, Medicinal etc.

## **Introduction-**

Herebal treatment is thetraditional approach with roots originated in 100 BC as a spiritual and religious medicine. It connects physiologic, spiritual, and physical processes to maintain a healthy association among the soul, body, and mind. The major aim of Ayurveda is the equilibrium maintenance between the five basic elements of vacuum, air, fire, water, and earthwith the theory of the three life forces. The main medicines prescribe in Ayurveda are procured from medicinal plants. The application of Ayurveda in diabetes, a chronic ailment has resulted significant improvement in the patient's health. ASL includes lack of insulin sensitivity and the subsequent incapacity of the body to maintain glucose level in blood. Overtime greater glucose level in blood has many complications i.e. damage to digestive system, peripheral nerves, eyes, kidneys, blood vessels, ability of wound healing, sexual response, and heart. Because of the cause and cure of diabetes are associated to lifestyle and diet, Ayurvedic approach is a promising practice to deal with type II diabetes. Thus, the usage of Ayurveda in the treatment of type II diabetes should benefits large number of sufferers, suffering from diabetes all over the globe.

## What is Abnormal Sugar level(ASL)?

ASL is a chronic illness of protein, fat, and carbohydrate metabolism determined by raising level of post prandial and fasting blood sugar. It is a metabolic disorder resulting from the dysfunction and insufficiency of insulin. Diabetes may result insevere complications in different organ system

## **Symptoms for ASL Condition**

Certain symptoms observed in diabetes which are as follows: high blood sugar level, polydypsis, polyurea, polyphagia, weight loss, vomiting, blurred vision, nausea, weakness, andmood fluctuation

# **Risk factors for ASL**

Risk factor for the ASL are widely known and include obesity, ASL family history, absence of physical activity, poor diet, excessive intake of calories, low intake of fibers, high intake of trans and saturated fat, greater glycemic load, greater glycemic index, smoking of cigarette, and consumption of alcohol.

Table 1:	Medicinal	plants	with	anti-ASL	properties
----------	-----------	--------	------	----------	------------

Plant name	Common name	AntiASL effect	
Withania so <mark>mnif</mark> era	Ashvagandha	Hypoglycemic effect	PR
Punica granatum	Anar	Anti-hyperglycemic effect	
Emblica officinalis	Amla	Hypoglycemic effect	
Ipomoea batatas	Sakkargand	Reduces insulin resistance	
Murraya Koenigii	Curry patta	Hypoglycemic effect	2
Eugenia jambolana	Jamun	Anti-hyperglycemic effect	
Aegle marmelos	Bel	Decrease blood sugar	
Aloe vera	Aloe	Hypoglycemic effect	
Azardirachta indica	Neem	Anti-diabetic activity	
Momordica charantia	Bitter gourd	Anti-hyperglycemic agent	
Ocimum sanctum	Holy basil	Blood sugar reduction	

# Herbal formulations

Many herbal formulations as shown in Table 2are available in the market that can be utilized regularly for the treatment of ASL on the direction of physician.

IJMREAD: http://ijmread.com/index.php/ijmread:02

ON AMALYSIS A

# **Diet in ASL**

Diet is the main supplement in the treatment of diabetes as shown in Table 3. Diet is recommended based on season, body constitution, age, and environmental circumstances. **Table 2:** Herbal formulations with anti-diabetic effect

Company	Drug	Ingredients	Effect
Plethico	Syndrex	Extract of germinated fenugreek seed	Anti-ASL drug
Laboratories	017		4
Ayurvedic herbal health products	Diabeta	Ginger, Giloy, Black babhul, Black plum, Bitter gourd, Kino tree, Neem, Turmeric, Periwinkle, and Gurmar	Anti-ASL effect
Nature beaute sante	Diabecure	Taraxacum, Millefolium, European	Anti-ASL
1		centary, Barberry, and English walnut	effect
Garry & Sun	Bitter gourd	Bitter gourd	Lower the sugar
d'h	powder		level

### Table 3: Diet recommended in ASL

Diet type	Name	
Oils	Mustard, Ata <mark>s</mark> i, Ingudi, Nikumbha	2
Fruits	Amlaki, Kapitha, Apple, Watermelon, Orange, Jamun, Pomegranate	Q.
Vegetables	Bitter gourd, Methi-Fenugreek leaves, Green banana, Garlic, Bathuva, Drum stick	
Pulses	Green gram, Horse gram, Red gram, Toor dal	गोन ता
Cereals	Wheat, Barley, Rice, Kodrava	and at
Flesh	Pigeon, Rabbit, Harina	
Alcoholic liquid	Old wine	

## **Yoga practices**

Many yoga practices as shown in Table 4 are proved to be beneficial in the regulation of ASL; however, their practice is advised after the complete assessment of the risk factors, individual requirement, and overall health of a patient. After considering the patientas a whole, yoga practice of low or high intensity is recommended.

## Conclusion-

ASL patient may look for latest complementary remedy available for the cure of their illness. Awareness regarding the Ayurvedic approaches is essential for the successful patient counselling and care. The advantage of offering broad array of remedy option includes decrease in ill effects with advised usage of herbs and herbal formulations along with mind-body calmness approaches

 Table 4: Yoga practices for the diabetes management

Yoga practice	Benefit
Surya namaskar	Stimulates production of insulin via brain signalling
Yoga nidra	Decrease of postprandial and fasting blood glucose level
Aum chanting	Mind stabilization and negative thoughts removal
Meditation (Dhyan)	Positive influence on the level of sugar
Kapalbhati	Enhance the pancreatic $\beta$ -cells efficiency
Prana mudra, surya mudra,	Decrease sugar levels, promote loss of weight, and boost metabolic
linga mudra	rate
Surya bhedan	Sympathetic stimulating effect in diabetic people

## **Refrences-**

[1] Kumar A, Goel MK. Jain RB, Khanna P,Chaudhary V. India towards diabetes control: Key issues. Australasian MedicalJournal;2013(6):524–531. [2] Rahimi M. A Review: Anti Diabetic medicinal plants used for diabetes mellitus. Bulletin of environmental, pharmacology and life. sciences;2015(4):163–180

[3] Rao MU. Sreenivasulu M, Chengaiah B, Reddy KJ, Chetty CM. Herbal Medicinesfor Diabetes Mellitus. A ReviewInternationalJournal of PharmTechResearch;2010(2):1883–1892.

[4] Bordoloi R, Dutta KN. A Review on Herbs Used in the Treatment of Diabetes mellitus.Journal of Pharmaceutical,Chemical and Biological. Sciences;2014(2):86–92.

[5] Wannes WA, Marzouk B. Research progress of Tunisian medicinal plants used for acute diabetes. Journalof Acute Disease2016;5(5):357–363.

[6] Edition; Edition; http://www.vision2020uk.org.uk/idfdiabetes-atlas-7thedition.

[7] ;. Available from: http://www.arogyaworld.org/wpcontent/uploads/2010/10/arogyaworldINDIAdiabetes\ factsheets\ CGI2013\ web.

[8] Ozkum D. Akı O, Toklu HZ. Herbal medicine use among diabetes mellitus patients in Northern Cyprus. Journal of Medicinal Plants Research;2013(7):1652–1664.

[9] Narayan DS, Patra VJ, Dinda SC. Diabetes and indian traditional medicines anoverview.International. Journal of Pharmacy and Pharmaceutical Sciences;2012(4).

[10] Recent TP. Trendsin Therapeutic Approaches for Diabetes Management: A Comprehensive Update. Journal of Diabetes Research;2015:11.

[11] Kumari MS. Lakshmi KN, Prasanna TVVNL, Swapna K, Jyothi AS, Prasanth T. Natural herbs vs allopathic drugs: to treat diabetes. Indo american journal of pharmaceutical sciences;2016(3):415–422.

[12] Tabatabaeimalazy O. larijani B, Abdollahi M. Targeting metabolic disorders by natural products. Journal of diabetes & metabolic disorder;2015:14–57.

[13] Reddy VS. Sahay RK, Bhadada SK, Agrawal JK, Agrawal NK. Newer Oral Antidiabetic Agents.JournalIndian. Academy of Clinical Medicine2000;1(3);.

[14] Prabhakar PK, Doble M. Mechanism of action of natural products used in the treatment of diabetes mellitus. Chin J integr med;2011(17).

[15] Kumar K, Fateh V, Verma B, Pandey S. Some herbal drugs used for treatment of diabetes: review article.International. vol. 2014;.

[16] Galor SW. Benzie IF. FHerbal medicine : an introduction to its history, usage, regulation, current trendsand;. Research needs.2011.

[17] Gupta R. Bajpai KG, Johri S, Saxenaa M. An overview of indian novel traditional medicinal plants with antidiabetic potentials.Complementary and Alternative. Medicines; 2008(5):1–17.

IJMREAD:<u>http://ijmread.com/index.php/ijmread</u>:05

\*\*\*\*\*\*\*