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Role of Syzygium Jambolanum Q in Type II Diabetes Mellitus

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Abstract

Diabetes is most common problem now a days in developing country. Incidence of Type II Diabetes Mellitus increses day by day. Diabetes mellitus is a life style releted disorder. Aim of the study was Utility of Syzygium Jambolanum Q in case of Type II Diabetes Mellitus. Methods- The study was conducted at Sri Gnaganagar Homoeopathic Medical college Hospital and Research Institute Sri Ganganagar. Study design was interventional trial without control. In this study total 30 cases of type II Diabetes mellitus were treated according to various criteria mentioned in methedology. Sample were selected by simple ramdom samoling method. Paired T test use for stastical analysis. Result- Out of 30 cases studied, 18 were male and 12 were females. The average age of patient were 55.96 ±5.5 years and the majority of patient between age group 50-60 years. After Pre and Post stastical analysis show that after taking the Syzijium Jambolanum Q the Fasting and Post Prondialblood sugar level decreses that was significant. Syzygium Jambolanum Q show cannge in Fasting blood sugar level (Mean±SD) 147.83 ±15.54 to 100.43 ± 14.23 mg/dl, Post Prandial Blood Sugar Level (Mean \pm SD) 235.33 \pm 19.25 to 149.93 \pm 15.37 mg/dl. Conclusion- This study was an attempt to evaluate the effect of Syzygium Jambolanum Q on FBS and PPBS with appropriate satstical analysis.

Key word- Type II Diabetes Mellitus, Homoeopathy, FBS, PPBS, Insuline, CAM.

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INTRODUCTION

The frequency of diabetes was escalating rapidly worldwide, including developed and developing countries.¹

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In India recent projection indicate that there is an alarming rise in prevalence of diabetes, which has one beyond epidemic form to a pandemic one.² In modern medicine, there is no satisfactory effective therapy to cure diabetes mellitus.³ Synthetic oral hypoglycemic agents can produce a series of side effects including hematological, gastrointestinal hypoglycemic reactions, coma and disturbances in liver and kidney. 4 Growing popularity of Homoeopathy in the public sector is reflected in the scientific community by an increased number of researches to assessing the efficacy of CAM.⁵ Homoeopathy had negligible side effects toxic contribution or comparatively cost effective than synthetic drugs.6

Diabetes Mellitus is the most common form of diabetes occurring when the pancreas secretes insufficient amounts of insulin or no insulin at all. As a consequence, the person ends up with too much sugar or glucose in their bloodstream, and not enough gets into their cells to be burned as energy. Insulin is a hormone produced in the pancreas, which is needed to turn sugar and other food into energy.

There are two types of diabetes mellitusType 1 Diabetes Mellitus: Sometimes called juvenile diabetes or insulindependent diabetes, Type 1 diabetes means your body cannot produce insulin because the beta cells (cells which produce insulin) in the pancreas are destroyed. Type 1 diabetes occurs more frequently in children and young adults, but accounts for less than 10% of the total diabetes cases.

Type 2 Diabetes Mellitus: The majority of diabetics fall in this category. In Type 2 diabetes the body doesn't make enough insulin or doesn't properly utilize its insulin supply. While many Type 2 diabetics take medication to lower their blood glucose, this type of diabetes can be managed with diet, exercise and weight loss where required. Two contributing factors for Type 2 diabetes are obesity and age. In both cases, the body becomes less efficient. When the blood glucose rises above normal levels, people experience different symptoms

Risk factors for developing type 2 diabetes include the following:-

- High blood pressure
- High blood levels of cholesterol and/or triglyceride
- Gestational diabetes or giving birth to a baby weighing more than 9 pounds
- High alcohol intake
- Sedentary lifestyle
- Obesity

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- Positive Family History
- Aging: Increasing age is a significant risk factor for type 2 diabetes. Risk begins to rise significantly at about age 45 years, and rises considerably after age 65 years.

Symptoms of Hyperglycaemia

- 1. Thirst, dry mouth
- 2. Polyuria
- 3. Nocturia
- 4. Tiredness, fatigue
- 5. Recent change in weight
- 6. Blurring of vision
- 7. Pruritus vulvae, balanitis (genital candidiasis)
- 8. Nausea; headache
- 9. Hyperphagia; predilection for sweet foods
- 10. Mood change, irritability, difficulty in concentrating, apathy

Diabetes Mellitus diagnosed by simple blood sugar level (Fasting and Post Prandial Blood sugar level) test easily.

Criteria for the Diagnosis of Diabetes Mellitus

- Symptoms of diabetes plus random blood glucose concentration -11.1 mmol/L (200 mg/dL) or
- Fasting plasma glucose -7.0 mmol/L
 (126 mg/dL) or after two-hour plasma
 glucose -11.1 mmol/L (200 mg/dL)
 during an oral glucose tolerance test
 The treatment of diabetes are:

dietary/lifestyle modification, oral antidiabetic agents and insulin by injection.

Homeopathy is one of the most widespread alternative system of medicine based on the two cardinal principles "law of similarities" and "minimal dilution". Homeopathy seeks to cure in accordance with natural laws of healing and uses medicine made from natural substances viz. animal, vegetable and mineral.8 Some important homeopathic oral hypoglycaemic drugs are Rhus aromatica, Syzygium jambolanum, Uranium nitricum and Acid Phos. In homeopathic Materia Medica, Syzygium jambolanum jambolanum) is described as a most useful remedy against diabetes mellitus. It has an immediate effect to manage the high blood sugar. No other remedy causes so marked degree in the diminution of sugar in the urine.9

Syzygium jambolanum (Family-Myrtaceae; commonly known as 'jambol fruit' or 'jamun') is common herb found in India, Pakistan, Southern Asia and Brazil. Mother tincture of S jambolanum is widely used by homeopathy practitioners for diabetes management. Mother tincture (θ) is defined as the original tincture prepared with the aid of alcohol, directly from the crude drug. It is the precursor for the preparation of

different potencies and the starting point for the production of homeopathic medicines.¹¹ The chemical composition of the seed extract has been recently reported by a study. It contains glycoside (Jamboline), tannin, ellagic acid and gallic acid as principal ingredients.¹²

MATERIAL & METHODS

Clinical Study Setting - The study has been carried out with detail case study and follows up in O.P.D of Sri Ganganagar Homoeopathic Medical College Hospital & Research Institute, Sri Ganganagar (Rajasthan)

Study design & Sampling - A type of interventional study without placebo group. Minimum 30 cases satisfying the case definition, inclusion and exclusion criteria have been studied. Patients diagnosed as Type II DM had been selected for the study on basis of Simple Random sampling method.

Intervention- Syzijium Jambolanum Mother tincture given to all patient in 30 ml of water (each Dose). Dose and repetation depend on severity of cases.

Clinical Protocol - Data has been collected by proper method and has been processed in standard format. Patients have been explained about the research project, patient's information sheet and informed consent form has been formed and filled up. Nosological diagnosis has

been done after clinical study and investigations

Inclusion criteria -

- 1. Patients of both sexes.
- 2. Patients suffering from Type II Diabetes Mellitus, willing to participate and taking treatment regularly and co-operating for regular follow-up has been included.
- 3. FBS was More than 126mg/dl and PPBS was Mpre than 200 Mg/dl.

Exclusion criteria -

- 1. Patients with complications of Diabetes mellitus.
- 2. Patients who require emergency medical intervention.
- 3. Immune-compromised patients.
- 4. Patient without written consent.

Criteria for assessment – On basis of improvement of level of FBS and PPBS..

Statistical Techniques- Paired T- test is used as a statistical technique.

RESULT

During my study 30 cases included in which 18 (60%) male and 12 (40%) Feamles. Most common age group was 50 -60 years and average age was 55.96 ± 5.5 years. Out of 30 Patient 24 (80%) from rural area and 06 (20%) from urban area.

Charectristi		Number of	Percenta	Mean				
c		patient	ge	\pm SD				
1. Sex Distribution								
	Male	18	60 %					
	Female	12	40 %					
2. Age Distribution in Years								
	40 - 50	05	16.67 %					
	50 - 60	21	70 %	55.96				
	60 -	04	13.33 %	± 5.5				

	Above			
3.	Habitat			
	Rural	24	80 %	
	Urban	06	20 %	

Table 1 Sociodemographic Profile

Pre and Post analysis by Paired T test-

Pre and Post stastical analysis show that after taking the Syzijium Jambolanum Q the Fasting and Post Prondialblood sugar level decreses that was significant. Syzygium Jambolanum Q show cahnge in Fasting blood sugar level (Mean±SD) 147.83 ± 15.54 to 100.43 ± 14.23 mg/dl, Level Prandial Blood Sugar (Mean \pm SD) 235.33 \pm 19.25 to 149.93 \pm 15.37 mg/dl. Null Hypothesis was rejected and alternate hypothesis was accepted.

	Bef	Afte	T	T	At	Нуро	Sig
	ore	r	Cal	criti	95	thesis	nifi
	Tre	Tre	ulat	cal	%	Acce	cant
	atm	atm	ed		Co	pted	
	ent	ent			nfi		
					de		
FBS	147.	100.	14.6	2.04	nc	H1	Sig
(Me	83 ±	43 ±	05	5	e	Acce	nifi
an	15.5	14.2			int	pted	cant
±S	4	3			er		
D)					val		
PPB	235.	149.	29.2	2.04	P<	H1	Sig
S	$33 \pm$	93±	4	5	0.0	Acce	nifi
(Me	19.2	15.3			5	pted	cant
an	5	7					
±S							
D)							

Table 2 Pre and Post Analysis

CONCLUSION

This study showed a significant role of homoeopathic medicine Syzijium Jambolanum Q in the treatment of Type II Diabetes Mellitus in reducing the intensity of suffering and providing good quality of life along with reduction in value of fasting and Post Prondial blood sugar level. This study also established an

important role of Homoeopathy in treatment of Type II Diabetes Mellitus.

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