



P.S.P Sanstha's
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Report Title: A STUDY TO INVESTIGATE THE EFFECT OF INSULIN PLANT HERBAL TEA ON DIABETIC PATIENTS

Period of study: February –June 2016

Project Leader: Dr. Supriya S. Jirge M.Pharm, PhD

Project investigator: Dr. Swapnil S. Dhane

Project leader:

Dr. Supriya S. Jirge
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Indira Institute of Pharmacy
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Project investigator:

Dr. Swapnil S. Dhane
BAMS, DEMS
Dhane Clinic
M. V. Plaza
Near Bank of India
Shivaji Chowk – Devrukh
Sangmeshwatr- Ratnagiri

SPONSOR: P.S. Venkatesan
Nethra Organic Farm
Door NO 7, 6th Main Road,
7th Cross Street (Off)
Anna Nagar, Pammal
Chennai: 6000075
Tamilnadu
Mob : 9444630429



STUDY SUMMARY

TITLE	A study to investigate the effect of insulin plant herbal tea on diabetic paitents.
Investigational site:	Dhane Clinic , 710, Pitruchaya Niwas, Kasarwadi, Sadavali Sangmeshwatr- Ratnagiri-415804
Investigators:	Dr. Supriya S. Jirge, Asst. Professor, Indira Institute of Pharmacy Sadavali, Sangmeshwatr- Ratnagiri
Sponsor:	Nethra organic farm and Dr. Supriya S. Jirge
Study period:	Feburauy – June 2016
OBJECTIVES:	To investigate the effect of insulin plant herbal tea in diabetic paitents by assessing blood glucose level and blood pressure and blood heamoglobin level (as supporting parameters).
STUDY PROTOCOL:	A 3 months treatment was carried out for 25 paitents having identified either for Type I or Type II diabetes. At Visit 1 the medication history of each paitent was recorded and they were screened for their fasting and post-prandial blood glucose level. Paitents were treated three times insulin plant herbal tea in a day along with their on-going medication. The subsequent visits were scheduled after two weeks intervals for 90 days. Paitents were asked to report any adverse events occur during the treatment period. In total seven times examination of paitents were carried out throughout the treatment period. Each time the fasting and post-prandial blood glucose level was recorded along with blood pressure and blood heamoglobin levels.
SUBJECTS:	Diabetic paitents, males and/or females between 30 and 55 years of age were examined, and were informed about the product. No pregnanant women or paitent below 30 or above 55 were examined.
PRODUCT TO BE EVALUATED	INSULIN PLANT HERBAL TEA
SUPPLIED BY	NETRA ORGANIC FARM, CHENNAI
DURATION OF STUDY	3 months
ENDPOINTS:	<ol style="list-style-type: none"> 1. Adverse events 2. Physical examination, including weight 3. Vital signs: blood glucose level (fasting as well as post-prandial) 4. Blood pressure, blood heamoglobin
SAMPLE SIZE:	25 subjects



1. INTRODUCTION

Sutherlandia frutescens (*subspecies microphylla*) (L.) R.Br. is thought to be among the most profound and useful of the medicinal plants in Southern Africa (van Wyk & Gericke, 2000). Tinctures, infusions and decoctions of the leaves and young stems have been widely used in the Cape Region, since the value of this herbal medicine was first discovered by the Khoi, San and Nama people (van Wyk, van Oudtshoorn & Gericke, 2000). The traditional Tswana name, Phetola, means, "it changes". When literally translated, it means that the plant changes the course of many illnesses into favorable outcomes.

Furthermore, the North Sotho name, Lerumo-lamadi, means "the spear for the blood" which refers to the value of *S. frutescens* as a powerful blood-purifier that acts as an all-purpose tonic (www.astral-natural.com/Africana.htm, appended). Over centuries, this medicinal plant has been indigenously used to treat a variety of conditions including, cancer, viral, bacterial, fungal and parasitic infections, menopausal conditions, varicose veins and hemorrhoids, inflammation, wasting and stress (van Wyk & Gericke, 2000). The medicinal value of the plant has been ascribed to a number of the significant constituents of this phytotherapy, including pinitol, γ -amino butyric acid (GABA), asparagine, sugaryl (SU1) and also L-canavanine.

Pinitol, which is a known anti-diabetic agent (Davis *et al.*, 2000, Larner *et al.*, 1998), has been isolated from *S. frutescens* leaves. Researchers suggest that pinitol may have clinical application in treating the wasting in cancer and AIDS patients (van Wyk & Gericke, 2000). Pinitol is also claimed to have anti-inflammatory effects (Singh *et al* 2001). Some *S. frutescens* subspecies have high levels of concentrations of GABA, an inhibitory neurotransmitter that is assumed to account for their use for anxiety, stress and depression. In *S. frutescens*, asparagine could function as a diuretic by stimulating the kidneys and liver (Rosenthal, 1992). Sugaryl (SU1), a novel triterpenoid glucoside, has only recently been identified, and was used as a marker to select elite *Sutherlandia* chemotypes for the propagation of the plant raw materials (www.sutherlandia.org/chemistry.html, appended).

Canavanine (i.e. L-2-amino-4-(guanidinoxy)butyric acid) is a potent L-arginine antagonist that has documented anti-cancer (Thomas *et al.*, 1987; Rosenthal, 1998; Smith *et al.*, 2003; Ghogomu, 2002, Bence *et al.*, 2002, Bence *et al.*, 2003), apoptosis (Chinkwo *et al.*, 2003, Jang *et al.*, 2002,) as well as anti-infective and anti-oxidant effects (Katarere & Eloff, 2003). It is also thought to affect regulatory and catalytic reactions of arginine metabolism, arginine uptake, formation of structural components and other cellular processes. Canavanine is a potentially deleterious arginine antimetabolite and has been linked to an induction of autoimmune disease e.g. systemic lupus erythematosus (Brown *et al.* 2001, Farnsworth 1995), but its adverse effects are most likely to occur with very high levels of the compound and /or in presence of low arginine levels and/or in certain predisposed individuals. The level of canavanine in presently used *S. frutescens* preparations is expected to be quite low (around 2.5mg per gram dry powder), but its bioavailability, pharmacokinetics, possible accumulation and effect during chronic use of



the plant has not yet been established. Similarly, this type of information is also not available for the other possible active constituents of this plant medicine.

To our knowledge no clinical study has yet been done on *S. frutescens*. However a pre-clinical study in vervet monkeys (*Chlorocebus aethiops*) was recently done at the Medical Research Council in Tygerberg, South Africa (www.sahealthinfo.org/traditionalmeds/firststudy.htm, appended). The monkeys were given as much as 9 times the recommended dose (viz. 81.0mg/kg per day p.o. for 3 months), but (compared to control monkeys not receiving the plant material) no clinically significant changes were seen in haematology, blood biochemistry, and physiological variables measured. That is, *S. frutescens* was found to be non-toxic in vervet monkeys.

Note 1: While the name *Sutherlandia frutescens* (L.) R.Br. is the adopted scientific name for the plant species referred to in this project, the taxonomy of this species has not been resolved and several names for this taxon are currently in use. This will not impact this study as plant material of this taxon is to be obtained from a reputable commercial supplier, and is from the same chemotype used for the animal toxicity studies. Research on resolving the taxonomy and nomenclature of this taxon could be included in a future project of TICIPS. For the purposes of this Pilot Project the taxa named *Sutherlandia frutescens* (L.) R.Br., *Sutherlandia microphylla* Burch. ex DC.,

Sutherlandia frutescens subspecies *microphylla* (Burch. ex DC.) Moshe & van Wyk *ined.* and *Lessertia frutescens* (L.) P.Goldblatt & J.C.Manning are considered to be taxonomically identical.

2. STUDY OBJECTIVES

To investigate the effect of insulin plant herbal tea in diabetic patients by assessing blood glucose level and blood pressure and blood haemoglobin level (as supporting parameters).

3. STUDY PLAN AND PROCEDURES

A 3 months treatment was carried out for 25 patients having identified either for Type I or Type II diabetes. At Visit 1 the medication history of each patient was recorded and they were screened for their fasting and post-prandial blood glucose level. Patients were treated three times insulin plant herbal tea in a day along with their on-going medication. The subsequent visits were



scheduled after two weeks intervals for 90 days. Patients were asked to report any adverse events occur during the treatment period. In total seven times examination of patients were carried out throughout the treatment period. Each time the fasting and post-prandial blood glucose level was recorded along with blood pressure and blood haemoglobin levels.

3.2 Investigational Products and Treatments

3.3 Treatment Schedule

Insulin plant herbal tea was supplied in air tight glass container along with a spoon of capacity two gm. It was instructed to consume the decoction of product prepared by adding one spoon full to water and boiled for 5-10mins. The product was supplied by Nethra organic farm. The re packing of product in a glass container was done by Dr. Supriya S. Jirge at Indira Institute of Pharmacy, Sadavali, Ratnagiri.

3.4. Storage and Accountability

The product was kept in a secure place under adequate storage conditions – protected from moisture and light.

3.5 Allowed medication

Each patient was examined by the physician, Dr. Swapnil S. Dhane and the regular anti-diabetic medications were prescribed as per the need of each patient's condition along with the insulin plant herbal tea.

3.6 Compliance

All patients were examined twice in a month (after two weeks) at physician's clinic and the records were maintained with doctor.

3.7 Adverse events

An adverse event is the development of an undesirable medical condition - e.g. symptoms or abnormal results of an investigation - or the deterioration of a pre-existing medical condition (not relevant in this study). AE's were collected by means of a standard question: "Have you had any health problems since the previous visit?" AE's were recorded at every visit. The subjects were asked to assess the intensity of the reported Adverse Event according to the following scale:





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Mild = awareness of sign or symptom, but easily tolerated
Moderate = discomfort sufficient to cause interference with normal activities
Severe = incapacitating, with inability to perform normal activities.

4. STUDY TIME TABLE AND TERMINATION

First subject in ----- Feburauy 2016
Last patient out ----- June 2016
Study Report ----- July 2016

5. CONCLUSION

In total 25 paitents were treated with insulin plant herbal tea (supplied by Nethra Organic Farm, Chennai) as supplement along with the respective regular on-going medications. All the paients were examined and prescribed the concern medications by the physician. Insulin plant herbal tea was dispensed to 25 patients for 90 days (3 months). Before starting the treatment, all the patients were examined for their blood glucose levels. After treatment every 15th day the examination was repeated. Out of 25 paitents 23 were continued and two were discontinued because of their relocation within a month.

It was observed that the blood glucose level was lowered significantly with the consumption of insulin plant herbal tea. The product did not alter the blood pressure, Hb, and body weight significantly of any patients. It was also found that consumption of product in two paitents converted type I diabetes to Type II diabetetes over the 3 months. The examined product "Insulin Plant Herbal Tea" as a supplement showed satisfactory effect in 23 patients.

Dr. Supriya S. Jirge
Asst. Professor
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Sadavali-Devrukh
Sangmeshwar- Ratnagiri





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Dr. Supriya S. Jirge (Supriya R. Hyam)

Permanent Address: Omkar-Niwas, Sudha colony, Bordem , Bicholim, Goa-403504

Phone: 0832-2362657; mobile: 8408091337, Email: supriyahyam@gmail.com

Current Address: Indira Institute of Pharmacy, Sadavali, Devrukh, Ratnagiri

PROFESSIONAL EXPERIENCE

Project Undertaken : 10 (As Principal investigator, Research professor, Research assistant and PhD Scholar)

Ongoing project: Development evaluation and extensive screening against skin cancer of targeted herbal delivery system

Sponsored by: Amsar Private Limited, India

PUBLICATIONS (19): International and national

Presentations: 10 International and national

COLLABORATIONS

1. Collaborative research work with Dr. S. S. Jalalpure , Deputy director of KLE University's BSRC, Belgaum.
 2. Collaborative research work with Dr. Pratima A. Tatke, Professor, C.U.Shah college of Pharmacy, SNDT women's university, Mumbai
-


Dr. Supriya S. Jirge



धने क्लिनिक तळमजला, एम. वाय. प्लाझा,
डॉ. स्वप्निल संजय धने बँक ऑफ इंडिया ई-गॅलरी जवळ
B. A. M. S. शिवाजी चौक, देवरुख - 415804
Reg. No. I - 62239 - A - 1 मोबाईल : 94049 94875
_____ 83080 24558



क्लिनिक वेळ : सकाळी ९ ते सायंकाळी ६ (अत्यावश्यक सेवा साडवली येथे राहत्या घरी)

पेशंटचे नांव : _____ दि.

The product supplied by Dr. Supriya S. Jirge which is intended to consume by Diabetic patients as supplement was studied for period of Februaury – June 2016 on 25 patients for three months each. Out of 25 paitents 23 were continued and two were discontinued because of their relocation within a month.

It was observed that the blood glucose level was lowered significantly with the consumption of insulin plant herbal tea. The product did not alter the blood pressure, Hb, and body weight significantly of any patients. The examined product “Insulin Plant Herbal Tea” as a supplement showed satisfactory effect in 23 patients.

All twenty – five reports are enclosed herewith.


Dr. Swapnil S. Dhane
B. A. M. S.
Reg. No. I 62239 - A1

अन्य कोणतेही स्वस्त जेनेरिक औषध रुग्ण त्याच्या इच्छेनुसार घेवू शकतो.
कृपया औषधे डॉक्टरांना दाखवून नंतरच वापरावीत.

Patient Profile			
Name	Mr. Ajay A. Jadhav		
Type of Diabetes	Type II		
Ongoing medications	Glycomet		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
01-02-16	1	230	265	130	75	11	75
14-02-16	2	230	260	130	80	11	75
01-03-16	3	210	245	140	80	11	74
15-03-16	4	200	245	130	80	11	75
31-03-16	5	170	200	140	70	11	75
16-04-16	6	140	200	130	80	11	75
30-04-16	7	140	180	140	80	11	75



Dr. Swapnil S. Dhanre
 B.A.M.S.
 Reg. No. I62239-A1

Patient Profile	
Name	Mr. B. C. Jangam
Type of Diabetes	Type II along with Hypertension
Ongoing medications	Glycomet 250 mg and Ateno 50

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
01-02-16	1	220	260	170	90	10	75
15-02-16	2	215	230	170	90	10	75
03-03-16	3	165	180	170	90	10	73
15-03-16	4	160	172	160	90	10	74
31-03-16	5	140	155	160	88	10	73
12-04-16	6	120	140	160	88	10	75
29-04-16	7	120	140	160	88	10	75

Dr. Swapnil S. Dhane

B.A.M.S.

Reg. No. 162239 - A1

Patient Profile			
Name	Mrs. C. D. Karat		
Type of Diabetes	IDDM		
Ongoing medications	Gliclazide 80mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
02-02-16	1	300	390	150	90	11	72
24-02-16	2	290	330	150	90	11	72
11-03-16	3	290	300	150	92	11	67
26-03-16	4	210	170	150	90	11	65
12-04-16	5	210	170	150	91	11.5	65
30-04-16	6	144	150	150	90	11.5	66
16-05-16	7	120	150	150	90	11.5	68

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239 - A1

Patient Profile			
Name	Mrs. S. H. Patil		
Type of Diabetes	type II		
Ongoing medications	Glycomet 250 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
03-02-16	1	120	220	120	80	10	60
17-02-16	2	120	220	120	80	10	62
01-03-16	3	120	200	120	80	10	65
16-03-16	4	120	205	110	80	10	65
30-03-16	5	100	160	110	80	10	65
15-04-16	6	100	150	110	80	10	64
01-05-16	7	100	130	110	80	10	64



Dr. Swapnil S. Dhane
 B.A.M.S.
 Reg. No. I62239 - A1

Patient Profile			
Name			Mr. M. N. Shaikh
Type of Diabetes			type II
Ongoing medications			Gliclazide 80mg

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
03-02-16	1	220	266	130	80	10.5	65
23-02-16	2	210	255	120	80	10.5	66
06-03-16	3	210	190	130	80	10.5	67
21-03-16	4	200	185	120	80	10.5	69
02-04-16	5	200	170	120	80	10.5	68
15-04-16	6	180	150	120	80	10.5	68
02-05-16	7	170	150	120	80	10.5	68


Dr. Swapnil S. Dhane
 B.A.M.S.
 Reg. No. 162239 - A1

Patient Profile

Name	Mrs. G. C Gokhale
Type of Diabetes	Type II
Ongoing medications	Glycomet 250 mg

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
05-02-16	1	120	220	120	80	10	75
15-02-16	2	120	220	120	80	10	75

Discontinued because of relocation ...



Dr. Swapanil S. Dharne
B.A.M.S.
Reg. No. I 62239-AJ

Patient Profile	
Name	Moreshwari S. Ogale
Type of Diabetes	type II
Ongoing medications	Glycomet 250 mg

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
09-02-16	1	140	246	150	90	12.5	60
23-02-16	2	120	230	150	90	12.5	61
08-03-16	3	120	220	150	90	12.5	61
21-03-16	4	120	200	150	90	12.5	61
06-04-16	5	122	200	150	90	12.5	61
20-04-16	6	122	180	150	90	12.5	61
08-05-16	7	120	180	150	90	12.5	61


Dr. Swapnil S. Dhanani
 B.A.M.S.
 Reg. No. I 62239-A1

Patient Profile	
Name	Mr. V.S. Kamble
Type of Diabetes	type II diabetes and hypertension
Ongoing medications	Glycomet 250 mg and Ateno 50

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
09-02-16	1	240	270	170	90	10	59
22-02-16	2	200	200	170	90	11	60
09-03-16	3	166	180	170	90	11	61
21-03-16	4	150	170	150	80	11	60
08-04-16	5	150	165	150	82	11.5	59
23-04-16	6	100	160	150	88	11.5	59
10-05-16	7	100	160	140	65	11.75	60

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62229 - A1

Patient Profile			
Name	Vaibhav S. Survive		
Type of Diabetes	Type II		
Ongoing medications	Glycomet 250 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
09-02-16	1	200	250	120	80	11.5	58
23-02-16	2	170	220	120	80	11.5	58
08-03-16	3	170	220	120	80	11.5	58
21-03-16	4	140	200	120	80	11.5	61
06-04-16	5	140	200	120	80	12.0	60
20-04-16	6	120	130	120	80	12.0	59
08-05-16	7	115	130	120	80	11.5	58



Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239-A1

Patient Profile			
Name	Mrs. P. V. Pawar		
Type of Diabetes	Type II		
Ongoing medications	Glycomet 250 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
10-02-16	1	150	230	150	90	11	80
28-02-16	2	150	230	150	90	11	81

Discontinued because of relocation ...



Dr. Swapnil S. Dhanani
B.A.M.S.
Reg. No. I 62239 - A1

Patient Profile	
Name	Vishwas S. Lakesure
Type of Diabetes	IDDM
Ongoing medications	Gliclazide 80mg

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
10-02-16	1	340	400	150	90	10.5	72
23-02-16	2	300	345	150	82	10.5	72
10-03-16	3	245	280	150	96	10.5	67
20-03-16	4	200	180	150	86	10.5	65
08-04-16	5	200	180	140	90	11.5	65
21-04-16	6	150	180	140	86	11.5	66
10-05-16	7	130	180	140	86	11.5	68

Note: Improvement in : Digestion , Mental condition



Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I62239 - A1

Patient Profile			
Name			Mr. Sairaj Thorat
Type of Diabetes			Type II
Ongoing medications			Glycomet 250 mg

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
15-02-16	1	120	230	110	70	11.5	65
28-02-16	2	120	230	110	70	11.5	66
14-03-16	3	120	220	110	70	11.5	66
27-03-16	4	110	200	110	70	11.5	66
08-04-16	5	100	200	110	70	11.5	65
20-04-16	6	100	170	110	70	11.5	65
10-05-16	7	110	170	110	70	11.5	64

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239-A1

Patient Profile			
Name	S. B. Patle		
Type of Diabetes	Arthritis with diabetes		
Ongoing medications	Glycomet 250 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
15-02-16	1	120	260	120	80	10.5	55
28-02-16	2	120	250	120	80	10.5	55
14-03-16	3	120	250	120	80	10.5	55
27-03-16	4	100	200	130	80	10.5	55
08-04-16	5	125	200	130	80	10.5	55
20-04-16	6	120	170	130	80	10.5	56
10-05-16	7	120	170	120	80	10.5	56

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239 - A1

Patient Profile			
Name	Mrs. T. T. Pednekar		
Type of Diabetes	Type II		
Ongoing medications	Gliclazide 80mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
01-03-16	1	120	180	110	70	9.5	55
10-03-16	2	120	170	110	70	9.5	55
29-03-16	3	110	170	110	70	9.5	56
15-04-16	4	110	170	110	70	9.5	56
29-04-16	5	100	150	110	70	9.5	56
14-05-16	6	100	150	110	70	9.5	55
28-05-16	7	100	140	110	70	9.5	55



Dr. Swapnil S. Dhaneshwar
 B.A.M.S.
 Reg. No. I 62239-A1

Patient Profile					
Name	Mrs. G. A. Agre				
Type of Diabetes	Type II				
Ongoing medications	Glycomet 250 mg				

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Weight (kg)
		Fasting	Post	Systolic	Diastolic	
01-03-16	1	230	250	110	70	11.5
12-03-16	2	230	250	110	70	11.5
31-03-16	3	220	220	110	70	11.5
15-04-16	4	200	220	110	70	11.5
30-04-16	5	180	210	110	70	11.5
14-05-16	6	140	200	110	70	11.5
28-05-16	7	140	190	110	70	11.5

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239-AJ

Patient Profile		
Name	Mrs. Gayatri M. Ogale	
Type of Diabetes	Type II	
Ongoing medications	Gliclazide 40mg	

STUDY PROFILE

Date	Visit No.	Blood glucose level	Blood pressure			Blood Hb	Weight (kg)
			Fasting	Post	Systolic	Diastolic	
01-03-16	1	140		220	120	80	10
16-03-16	2	140		200	120	80	10
29-03-16	3	130		200	120	80	11
12-04-16	4	130		140	120	90	11
30-04-16	5	130		140	140	86	11
15-05-16	6	100		120	120	80	11
29-05-16	7	100		120	120	80	11

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B.A.M.S.
Reg. No. I62239-AJ

Patient Profile			
Name	Mr. Suraj Lingayat		
Type of Diabetes	Type II		
Ongoing medications	Glycomet		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
01-03-16	1	150	250	130	90	11.5	66
16-03-16	2	150	247	130	80	11.5	65
29-03-16	3	140	230	120	80	11.5	66
12-04-16	4	130	220	120	80	11.5	66
30-04-16	5	130	220	120	80	11.5	66
15-05-16	6	122	210	120	80	11.5	65
29-05-16	7	110	200	120	80	11.5	65

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I.62239-A1

Patient Profile			
Name	Mr. Sagar S Bane		
Type of Diabetes	Type II		
Ongoing medications	Glycomet 150 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
02-03-16	1	140	170	120	80	11	59
10-03-16	2	140	170	120	90	11	59
29-03-16	3	120	150	120	80	11	60
15-04-16	4	120	150	120	80	11	60
30-04-16	5	120	140	120	70	11	59
14-05-16	6	110	140	120	80	11	59
28-05-16	7	110	120	120	80	11	59

Dr. Swapnil S. Dhane

B.A.M.S.

Reg. No. I62239 - A1

Patient Profile			
Name	Mr. Kapil G. Sawant		
Type of Diabetes	Type II		
Ongoing medications	Gliclazide 80mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
02-03-16	1	150	200	120	80	11	69
15-03-16	2	140	200	120	80	11	69
29-03-16	3	140	190	120	80	11	68
15-04-16	4	130	190	120	80	11	68
30-04-16	5	130	180	120	70	11	67
14-05-16	6	120	150	120	70	11	68
28-05-16	7	120	150	120	80	11	68


Dr. Swapnil S. Dhane
 B.A.M.S.
 Reg. No. I62239-A1

Patient Profile			
Name	Mr. S. S. Balekar		
Type of Diabetes	Type II		
Ongoing medications	Gliclazide 80mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
02-03-16	1	120	175	120	80	11	55
10-03-16	2	130	170	120	70	11	55
29-03-16	3	110	160	120	80	11	54
15-04-16	4	100	150	110	70	11	54
30-04-16	5	80	110	110	70	11	53
14-05-16	6	90	110	120	80	11	53
28-05-16	7	90	110	120	80	11	54

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239 - A1

Patient Profile			
Name	Mr. Sahil S Joshi		
Type of Diabetes	Type II		
Ongoing medications	Glycomet 250 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
02-03-16	1	220	275	140	80	12.5	77
10-03-16	2	230	270	140	90	12.5	77
29-03-16	3	210	260	140	80	12.5	78
15-04-16	4	200	250	130	80	12.5	77
30-04-16	5	180	230	140	70	12.5	76
14-05-16	6	150	220	130	80	12.5	76
28-05-16	7	140	220	140	80	12.5	77

Dr. Swapnil S. Dhane
B.A.M.S.
Reg. No. I 62239 - A1

Patient Profile			
Name	Mrs. S. R. Mule		
Type of Diabetes	type II		
Ongoing medications	Glycomet 250 mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
03-03-16	1	120	260	120	80	10	55
16-03-16	2	120	250	120	80	10	55
30-03-16	3	120	250	120	80	10	56
14-04-16	4	120	200	130	80	10	55
28-04-16	5	100	170	130	80	10	58
13-05-16	6	90	160	120	80	10	55
27-05-16	7	90	160	120	80	10	56


Dr. Swapnil S. Dhane
 B.A.M.S.
 Reg. No. I62239-A1

Patient Profile			
Name	Mrs. D. D. Walké		
Type of Diabetes	type II		
Ongoing medications	Gliclazide 80mg		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
03-03-16	1	130	246	110	75	10.5	53
16-03-16	2	130	238	110	75	10.5	53
30-03-16	3	120	204	110	75	10.5	55
14-04-16	4	120	200	110	75	10.5	55
28-04-16	5	100	170	110	75	10.5	54.5
13-05-16	6	100	148	110	75	10.5	55
27-05-16	7	90	149	110	75	10.5	54



Dr. Swapnil S. Dhane
 B.A.M.S.
 Reg. No. I 62239 - A1

Patient Profile	
Name	Mrs. H. M. Gadgil
Type of Diabetes	type II
Ongoing medications	Glycomet 250 mg

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
05-03-16	1	150	276	120	80	10	48
21-03-16	2	130	250	130	90	10.5	48
04-04-16	3	130	180	120	80	10.5	48
19-04-16	4	120	180	120	80	10.5	48
01-05-16	5	120	150	120	80	10.5	48
17-05-16	6	120	140	120	80	10.5	48
01-06-16	7	100	140	120	80	10.5	48

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Reg. No. I 622239-A¹

Patient Profile			
Name	Mr. Sujit J. Bane		
Type of Diabetes	Type II		
Ongoing medications	Glycomet		

STUDY PROFILE

Date	Visit No.	Blood glucose level		Blood pressure		Blood Hb	Weight (kg)
		Fasting	Post	Systolic	Diastolic		
10-03-16	1	250	301	140	80	10	88
25-03-16	2	246	290	140	90	10	87
10-04-16	3	220	270	140	80	10	87
26-04-16	4	220	270	140	80	10	88
16-05-16	5	188	240	140	80	10	88
31-05-16	6	147	22	140	80	10	88
15-06-16	7	135	210	140	80	10	88



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