

Case Report International Ayurvedic Medical Journal ISSN:2320 5091

## CLINICAL STUDY ON VIRECHANA KARMA IN THE MANAGEMENT OF MADHUMEHA W.S.R. TO TYPE –II DIABETES - A CASE STUDY

### Dr.M. Pranitha<sup>1</sup> Dr.M. Praveen Kumar<sup>2</sup> Dr. Ch. Sadanandam<sup>4</sup>

Department Of Pancha Karma

Dr. B.R.K.R Govt. Ayurvedic Medical College, Hyderabad, Telangana, India

#### **INTRODUCTION**

In modern era, sedentary life style attributed a lot of stress and over nutrition which made diabetes as one of the most prevalent diseases in the world. Although much advancement in modern medicine, still there is no clear and proper solution provided to the level of utmost satisfaction in redressing many ailments. Thus, it became a biggest silent killer in today's world. In Ayurveda, it can be compared with Madhumeha, where the Kapha increases in quantity and also gets liquefied. (Bahu Dravah sleshma), followed by saithilya or sithilikarana (preparation of a base for the initiation of pathological events, in other words, body's susceptibility for the disease), in addition association of Pitta and Vata vitiates meda, mamsa and sareera kleda produces, thus leading to various presenting features of the disease Madhumeha. Virechana karma is one such treatment module of Apatarpana explained by Acharya(s) in prameha.

### **Brief History of the patient:**

M.RAVINDER 53 years old male patient, weighing 60 kg, presented in Dr. B.R.K.R Govt. Ayurvedic Medical College, Hyderabad O.P.D with persistent hypoglycaemic levels.

Past History: underwent treatment with hypoglycaemic drugs

Family History: Strong presence of Diabetes

mellitus since past two generations, both Maternal and Paternal.

Patient's condition when attended:

- 1. Patient is conscious, coherent and afebrile
- 2. Pulse : 78/min
- 3. Blood Pressure:130/80 mm of hg
- 4. Systemic Examination:
- CVS :  $S_1S_2$  heard
- Lungs : B/L clear
- P/A Soft

### Asthavidha Parikshana:

- 1. Nadi : vatapitta
- 2. Mutra : bahumutrata
- 3. Mala : malabaddata, sama
- 4. Jivha : nirama
- 5. Sabda : prakrta
- 6. Sparsa : samaseetoshna
- 7. Druka : prakrta
- 8. *Aakruti:Madhya* (Height 167.64cm, Weight 60 kg, BMI 21.3)

#### Dasavidha Parikshana:

- 1. Prakrti : vata kapha
- 2. Vikrti involves
- > Dosa : vata
- Dusya : rasa, medo, ojas
- > Sroto dusti: mutravaha srotas
- 3. Sara : madhyama
- 4. Samhanana: madhyama
- 5. Pramana: madhyama
- 6. Satva : madhyama

How to cite this URL: Dr. M. Pranithal Clinical Study On Virechana Karma In The Management Of Madhumeha W.S.R. To Type –Ii Diabetes - A Case Study. International Ayurvedic medical Journal {online} 2016 {cited 2016 July} Available from: <a href="http://www.iamj.in/posts/images/upload/3495\_3506.pdf">http://www.iamj.in/posts/images/upload/3495\_3506.pdf</a>

7. Satmya : madhyama

8. Aharasakti: pravara

9. Vyayamasakti : madhyama

10. Vayah : madhyama

### **METHODS**

### Poorva karma:

- Deepana Pachana with Chitrakadi Vati 2 tablets b.i.d. for 3 days
- Sneha pana 30 ml Triphala Ghrita for 3 days
- Sarvanga Abhyanga with Tila taila for 2 days
- Bhaspa Sweda for 15 min for 2 days

**Pradhana karma:** *Virechana* with Abhayadi Modaka 1 tablet for three cycles.

**Paschat karma:** Samsrajana karma, laghu bhojana.

### **Investigations:**

- ✓ Fasting blood sugar (FBS),
- ✓ Postprandial blood sugar (PPBS),
- ✓ Sugar in urine, etc. were carried out to confirm the diagnosis.

### **RESULTS**

The table format below shows the data of before (BT) and after (AT) treatment results in FBS, PLBS, and HbA1C and in Urine sugars with the *Virechana* karma done in 3 cycles followed by laboratory test reports:

		FBS(mg/dl)		PLBS(mg/dl)		<u>HbA1C</u>		<u>Urine Sugar</u>	
		<u>BT</u>	<u>AT</u>	<u>BT</u>	<u>AT</u>	<u>BT</u>	<u>AT</u>	<u>BT</u>	<u>AT</u>
<u>Pt-1</u>	Cycle-1	<u>209</u>	<u>129</u>	<u>256</u>	<u>198</u>	<u>10.6</u>	=	<u>+++++</u>	<u>++</u>
	Cycle-2	<u>224</u>	<u>145</u>	<u>244</u>	<u>165</u>	=	<u>7.9</u>	<u>Trace</u>	<u>Trace</u>
	Cycle-3	<u>124</u>	<u>108</u>	<u>198</u>	<u>144</u>	=	<u>7.8</u>	<u>Trace</u>	<u>nil</u>



## Vijaya Diagnostic Centre

3-6-16 & 17, Street # 19, Himayathnagar, Hyderabad-29. Ph: 23420422 / 423 / 424 / 425.

email: info@vijayadiagnostic.com www.vijayadiagnostic.com

### LABORATORY TEST REPORT

 Regn Date
 : 10/05/2015 07:07

 Name
 : MR. RAVINDER

 Regn No
 : 101596246

 Ref By
 : Dr. DR AVERNIK AND RESERVED IN AND RESERVED IN AND RESERVED IN ADDRESS OF THE PROPERTY OF THE P

Ref By : Dr. PRAVEEN K MADIKONDA Regn Centre : Himayatnagar

Sample Type : Urine Ref no.

### **COMPLETE URINE EXAMINATION (CUE)**

		OTTICOE		
TEST NAME	RESULT	BIOLOGICAL REFERENCE INTERV		
Macroscopic Examination				
Colour	: Pale Yellow	Pale Yellow		
Appearance	: Clear	Clear		
Specific Gravity Bromo Thymol Blue	: 1.038	1.016 - 1.022		
Reaction/pH Double Indicator	: Acidic (5.0)	4.6 - 8		
Protein Protein error of Indicator	: Nil	Nil - Trace		
Sugar (Glucose) GOD-POD	: Present (++++)	Nil		
Urobilinogen  Modified Ehrlich reaction	: Normal	0.2 - 1 mg/dL		
Bilirubin Diazonium method	: Negative	0 - 0.02 mg/dL		
Ketones Nitroprusside reaction	: Negative	Negative		
Nitrites P-Arsanilic method Microscopic Examination	: Negative	Negative		
Pus Cells	: 0-1/HPF	0-5 /HPF		
R.B.C	: Nil	0 - 2 /HPF		
Epithelial Cells	: 0-1/HPF	0 - 8/HPF		
Casts	: Nil	Nil		
Crystals	: Nil	Nil		

Method · Reagent Strin Method (Photoelecteric color comparison), Microscopy.



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### LABORATORY TEST REPORT

: 17/05/2015 08:39 Regn Date : MR. RAVINDER Name

Regn No : 1015101380 : Dr. PRAVEEN Ref By

Sample Type : Whole Blood - EDTA

Sample Collection : 17/05/2015 09:01

: 17/05/2015 19:10 Print Date : 53 Years / Male

Age / Sex : Himayatnagar Regn Centre

Ref no.

### GLYCOSYLATED HAEMOGLOBIN (HbA1c)

TEST NAME

RESULT

BIOLOGICAL REFERENCE INTERVA

Glycosylated Haemoglobin

10.6

: Non Diabetic < 5.6%

5.7 - 6.4% : Increased Risk for Diabetes

: Diabetic Range > 6.5%

Method: High Performance Liquid Chromatography (HPLC)

#

NABL Accredited Certificate # M-0047

BIOCHEMIST



## Vijaya Diagnos<sub>tic</sub>

3-6-16 & 17.5

3-0-10 4 19, Humayathnagar, Hyderabad-29. Ph: 23420422 | 423 | 424 | 425.

Sample Collection : 13/09/2015 06:59

### LABORATORY TEST REPORT

Regn Date

: 13/09/2015 06:55

Name

: MR. RAVINDER

Regn No

: 1015190825

Ref By

: SELF

Sample Type : Fluoride Plasma

**Print Date** : 19/09/2015 08:16

Age / Sex

: 53 Years / Male

Regn Centre

: Himayatnagar

Ref no.

### FASTING PLASMA GLUCOSE (FPG)

**TEST NAME** 

RESULT

BIOLOGICAL REFERENCE INTERVAL

Fasting Plasma Glucose Method: Hexokinase

209

70 - 100 mg/dL

NABL Accredited Certificate # M-0047

BIOCHEMIST



### An ISO 9001: 2008 Certified Centre Accredited Laboratory

Patient Name: Mr. RAVINDER 53 Y 0 M / M

: 0100171547 Patient ID

: 01061806 SID No.

: Dr. PRAVEEN.K.MADIKONDA Ref By.

Register Date Time: 08/10/2015 07:39

049

Sample Collected Date Time: 08/10/2015 08:51

Report Date Time: 08/10/2015 09:04

	<u>Biochemistry</u>						
Investigation	Method	Results	Units	Biological Reference Interva			
FASTING - PLASMA GLUCOSE	Hexokinase	129	mg/dl	70 - 100 mg/dL			

Specimen: PLASMA

Interpretation

ADA guidelines for diagnosis of D.M in non-pregnant adults.Include RPG >= 200 mg/dl, FPG >= 126 mg/dl

SUGGESTED CLINICAL CORRELATION

Verified By

Dr.Praveena

**Authorized By** 

DR.PRAVEENA

Consultant Biochemi

Consultant Biochemist

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Page: 1 / 1 Ground Floor, Windsor Plaza, Nallakunta, Hyd- 44. Ph.: 040-6672 3900/01/02,





### ccredited Laboratory

ISO 9001: 2008 Certified Centre

Patient Name: Mr. RAVINDER 53 Y 0 M / M

049

Patient ID

: 0100171547

SID No.

: 01061806

Register Date Time: 08/10/2015 07:39

Sample Collected Date Time: 08/10/2015 08:51

Ref By.

: Dr. PRAVEEN.K.MADIKONDA

Report Date Time: 08/10/2015 11:50

Biochemistry					
Investigation	Method	Results	Units	Biological Reference Interva	
HbA1c (GLYCOSYLATED HAEMOGLOBIN)	HPLC	7.9	%	As per ADA Guidelines, NON-DIABETIC: 4.0 - 6.0 DIABETIC:- i) Goal of Therapy: < 7.0 % ii) Poor control: > 8.0 %	
Specimen : WHOLE BLOOD				11) POOF CONTROL: > 8.0 %	

Specimen: Interpretation

HbA1C is useful in monitoring long term blood glucose level control. Abnormal haemoglobin might affect the half life of red cells or invivo glycation, any cause of shortened Erythrocytesurvival or decrease in mean erythrocyte age will affect

HbA1C values. Specimen containing high amounts of HbF may result in lower than expected HbA1C.As per ADA guidelines the diagnosis of diabetes should be greater than 6.5 %.

GGESTED CLINICAL CORRELATION

**Authorized By** 

DR.PRAVEENA

Consultant Biochemi

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An ISO 9001: 2008 Certified Centre

Patient Name : Mr. RAVINDER.M 53 Y 0 M / M

Patient ID

: 0100185125

SID No.

: 01076939

Ref By.

: Dr. PRAVEEN.K.MADIKONDA

Register Date Time: 26/11/2015 07:22

Sample Collected Date Time: 26/11/2015 07:28

Report Date Time: 26/11/2015 09:10

### Biochemistry

Investigation	Method Results		Units	Biological Reference Interv	
FASTING - PLASMA GLUCOSE	Hexokinase	145	mg/dl	70 - 100 mg/dL	

Specimen: PLASMA

Interpretation

ADA guidelines for diagnosis of D.M in non-pregnant adults. Include RPG >= 200 mg/dl, FPG >= 126 mg/dl

TED CLINICAL CORRELATION

Verified By

**Authorized By** 

CHECKED BY

Dr.Praveena

**Consultant Biochemist** 

DR.PRAVEENA

Consultant Bioche

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### NABL Accredited Laboratory

An ISO 9001: 2008 Certified Centre

Patient Name : Mr. RAVINDER.M 53 Y 0 M / M

Patient ID

1 0100185125

SID No.

: 01078167

Ref By.

: Dr. PRAVEEN.K.MADIKONDA

Register Date Time : 30/11/2015 07:50

Sample Collected Date Time: 30/11/2015 07:59

Report Date Time: 30/11/2015 10:40

	Pathology				
Investigation	Method	Results	Units	Biological Reference Interva	
COMPLETE URINE EXAMINAT	ION			The second	
Specimen : URINE					
	y Dipstick & Microscopy	PALE YELLOW	,	PALE YELLOW	
Appearance		CLEAR		CLEAR	
Sediments		ABSENT		ABSENT	
Specific Gravity		1.005		1.005-1.030	
PH		5.0		5.0-8.0	
Albumin		NEGATIVE		NEGATIVE	
sugar		TRACE			
Bile Salts & Pigments		NEGATIVE		NEGATIVE	
Ketone Bodies		NEGATIVE		NEGATIVE	
Urobilinogen		0.2		<1 EU/dL	
Nitrate		NEGATIVE		NEGATIVE	
Microscopic Examination					
Pus cells		2-3/HPF			
RBC	Alle	NIL			
Epithelial cells	241111111111111111111111111111111111111	1-2/HPF			
casts		NIL			
Crystals		NIL			
Amorphous Material		NIL			
SUGGESTED CLINICAL CORRELATI	ON	****		Authorized By	
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CHECKED E	3Y			Dr. Vijaya Kumar A	
				CONSULTANT PATHOLOG	

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Patient Name: Mr. RAVINDER.M 53 Y 0 M / M

: 0100185125 Patient ID

SID No. : 01087604

: Dr. PRAVEEN.K.MADIKONDA Ref By.

031

Register Date Time: 30/12/2015 07:32

Sample Collected Date Time: 30/12/2015 07:50

Report Date Time: 30/12/2015 10:30

Biochemistry						
Investigation	Method	Results	Units	Biological Reference Interv		
FASTING - PLASMA GLUCOSE	Hexokinase	124	mg/dl	70 - 100 mg/dL		

Specimen: PLASMA

Interpretation

ADA guidelines for diagnosis of D.M in non-pregnant adults.Include RPG >= 200 mg/dl, FPG >= 126 mg/dl

**URINE SUGAR-FASTING** 

Strip

NIL

Specimen: URINE

SUGGESTED CLINICAL CORRELATION

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Dr.Praveena

erified By

**Consultant Biochemist** 

**Authorized By** 

DR.PRAVEENA

**Consultant Biochem** 

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### **Accredited Laboratory**

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Patient Name : Mr. RAVINDER.M 53 Y 0 M / M

Patient ID

1 0100185125

SID No.

: 01089674

Ref By.

: Dr. PRAVEEN.K.MADIKONDA

Register Date Time: 06/01/2016 0

Sample Collected Date Time: 06/01/2016 0

Report Date Time: 06/01/2016

Biochemistry						
Investigation	Method	Results	Units	Biological Reference In		
HbA1c (GLYCOSYLATED HAEMOGLOBIN)	HPLC	7.8	%	As per ADA Guidelines, NON-DIABETIC: 4.0 - 6.0 DIABETIC:- i) Goal of Therapy: < 7.0 % ii) Pear control: > 8.0 %		

Specimen : WHOLE BLOOD

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Interpretation

18bA1C is useful in monitoring long term blood glucose level control. Abnormal hacmoglobin might affect the half life of red cells or invivo glycation, any cause of shortened Erythrocytesurvival or decrease in mean crythrocyte age will affect HbA1C values. Specimen containing high amounts of HbF may result in lower than expected HbA1C.As per ADA guidelines the diagnosis of diabetes should be greater than 6.5 %.

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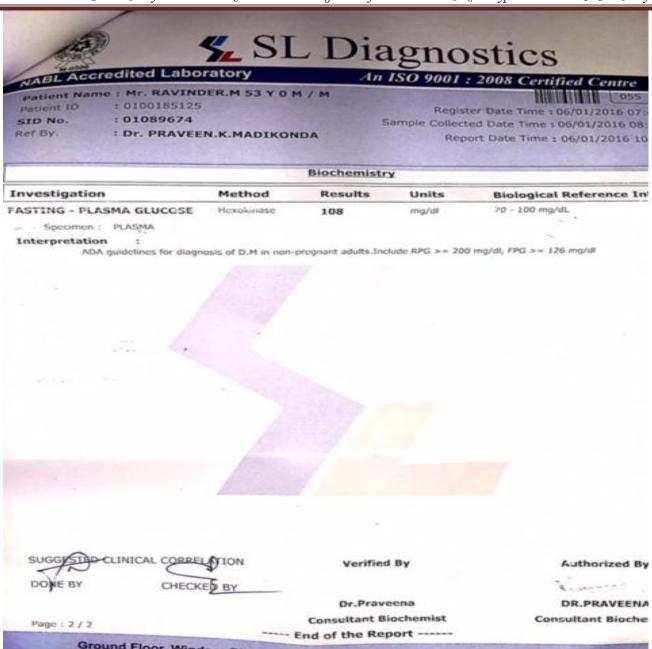
Dr.Praveena

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Consultant Biochemist

DR.PRAVEENA Consultant Bioche

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#### **DISCUSSION**

- 1. *Deepana-Pachana* drug should be administered prior to *Aabhyantara Snehapan* because of their inherent properties of *Amapachana* and also helps in increasing the quantum of *Agni*.
- 2. *Amapachana* helps to reduce the *Picchilta* of morbid matter so that they can be easily dislodged.
- 3. In symptoms such as *Kara Pada Tala Daha*, *Atisweda* and *Nidra-Tandra*, *Virechana* showed good relief, as *Virechan* is best treatment for *Pitta dosha*.

4. *Virechana* karma controls the levels of Glucose and HbA1c levels by stimulating the -cells of pancreas.

#### **CONCLUSION**

*Madhumeha* is a complicated disease in which every cell of human physiology isaffected.

*Virechana* rejuvenates each and every cell of the body by nourishing the dhatus.

*Virechana* karma has its multi-dimensional effect on *Madhumeha* by correcting the metabolic impairment.

By following regular Ayurvedic way of life style principles is always a best way to prevent further disease progression and to prevent complications.

Hence considering the positive and promising results attained through this case study, further similar research on large sample should be encouraged to enlighten Ayurvedic solutions. Analysis of the results shown here are to enlighten scientific world about Ayurvedic

solutions to carry on further studies for the

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### **CORRESPONDING AUTHOR**

### Dr. M. Pranitha

Department Of Pancha Karma Dr. B.R.K.R Govt. Ayurvedic Medical College, Hyderabad, Telangana, India **Email:** pranitha1801@gmail.com