# **ADVANCES IN DIABETES**

### **OPTIMIZING THE USE OF EMR TO IMPROVE PERFORMANCE**

### DR. JAMES L. HOLLY, CEO SOUTHEAST TEXAS MEDICAL ASSOCIATES, LLP

HARVARD/JOSLIN DIABETES UPDATE NOVEMBER 10, 2011



- Dr. Holly owns stock in the parent company of the EHR SETMA uses. The identity of that EHR is not revealed in this presentation.
- Dr. Holly makes uncompensated presentations for that EHR Company.
- Dr. Holly has no other disclosures.

### **SETMA Achievements**

- July 2010 NCQA PC-MH Tier Three
- July 2010 Joslin Diabetes Center Affiliate
- August 2010 NCQA Diabetes Recognition Program
- August 2010 AAAHC Medical Home
- August 2010 AAAHC Ambulatory Care

### **SETMA Achievements**

• 2011 - Health and Human Services Recognitions

- Office of National Coordinator named SETMA as one of 30 exemplary practices for clinical decision support.
- Agency for Healthcare Research and Quality published SETMA's LESS Initiative on its Innovation Exchange.
- Centers For Medicare and Medicaid included SETMA in a quality, cost and coordination of care research project in which SETMA outperformed all others on quality and equaled the best in cost control for 2007-2010.

# Articles about SETMA

# At **<u>www.jameslhollymd.com</u>**, the following articles can be found

(number of articles is in parentheses). This material is free.

- Tutorials on all Electronic-Patient-Management tools including Diabetes, Diabetes Prevention, Hypertension Prevention and others (67)
- Diabetes (25)
- Smoking Cessation (15)
- Exercise (40)
- Weight Reduction (33)
- Cardiovascular Disease Risk Factors (22)
- LESS Initiative (66)
- Medical Home (46)
- Healthcare Reform and Public Policy (24)

### The Future of Healthcare

Since SETMA adopted electronic medical records in 1998, we have come to believe the following about the future of healthcare:

**The Substance** 

The Method The Dynamic The Funding Evidenced-based medicine and comprehensive health promotion Electronic Patient Management Patient-Centered Medical Home Capitation & Payment for Quality Founded on the four domains identified above, SETMA's Model of Care includes the following:

- **1. Personal Performance Tracking** -- One patient at a time
- 2. Auditing of Performance -- By panel or population
- 3. Analysis of Provider Performance -- Statistical Analysis
- **4. Public Reporting by Provider Name** -- At www.jameslhollymd.com
- **5.** Quality Assessment and Performance Improvement

### **Diabetes Care Improvements**

### From 2000 to 2011

- HbA1C standard deviation improvement from
   1.98 to 1.33
- HbA1C mean (average) improvement from 7.48% to 6.65%
- 95% of SETMA's patients with diabetes in 2000 had HbA1Cs below 11.44%, while in 2011 95% are below 9.31%.
- Elimination of Ethnic Disparities of Care in Diabetes

### **Diabetes Care Initiatives and Results**

 2000 - Design and Deployment of EHR-based Diabetes Disease Management Tool
 O HbA1C improvement 0.3%

 2004 - Design and Deployment of American Diabetes Association Recognized Diabetes Self Management Education (DSME) Program
 HbA1C improvement 0.3%

2006 - Recruitment of Endocrinologist
 O HbA1C improvement 0.25%

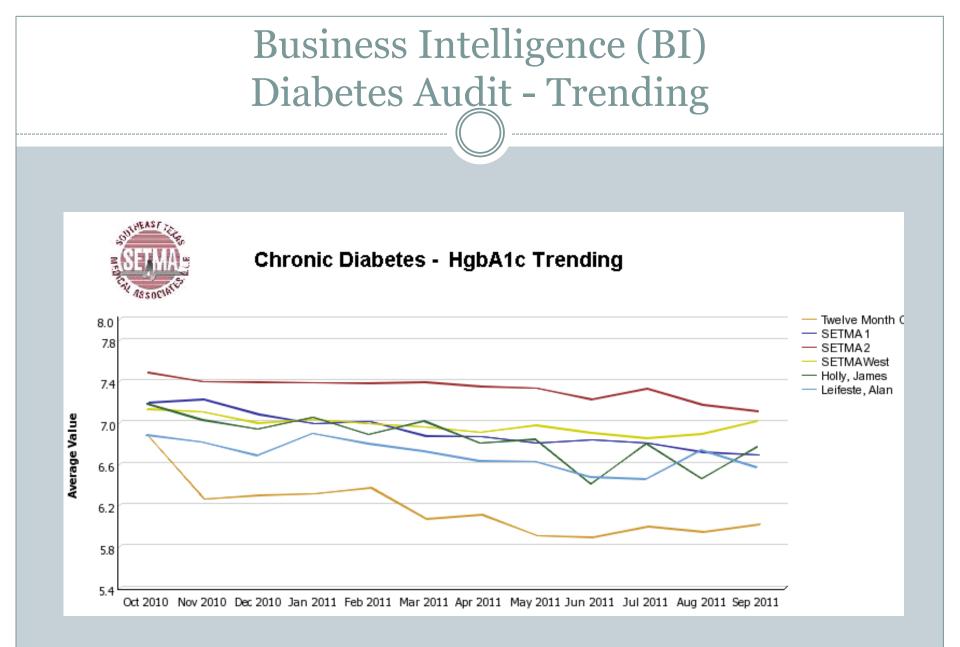
### **SETMA's NCQA Diabetes Metrics**

SUTHEAST TELES

#### NCQA Diabetes Measures

Encounter Date(s): January 1, 2011 to September 30, 2011

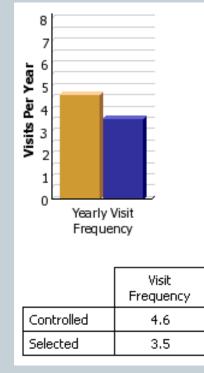
Location Name	Provider	Encounters	A1c >9.0 <= 15%	A1c < 8.0 >= 60%	A1c < 7.0 >= 40%	BP > 140/90 <= 35%	BP < 130/80 >= 25%	Eye Exam >= 60%	Smoking Cessation >= 80%	LDL >= 130 <= 37 %	LDL < 100 >= 36%	Nephropathy >= 80%	Foot Exam >= 80%	Total Points
SETMA 1	Aziz	769	9.9%	75.7%	59.2%	18.7%	54.2%	59.7%	96.9%	13.9%	68.8%	81.7%	74.9%	85
	Duncan	537	8.9%	81.2%	67.6%	11.9%	68.9%	59.0%	93.5%	14.2%	68.7%	83.4%	82.3%	90
	Henderson	621	10.5%	79.4%	66.2%	10.1%	69.1%	61.5%	95.1%	12.1%	67.5%	84.1%	95.3%	100
	Murphy	1,093	5.7%	86.3%	69.6%	14.0%	58.5%	46.5%	82.0%	12.3%	73.3%	87.3%	83.5%	90
	Palang	329	4.6%	47.7%	37.7%	19.5%	53.5%	23.1%	92.3%	6.7%	46.8%	31.0%	31.3%	67
	Thomas	156	9.6%	69.2%	45.5%	18.6%	55.8%	77.6%	100.0%	12.2%	60.9%	76.3%	82.7%	95
SETMA 2	Ahmed	2,078	16.3%	48.3%	32.0%	8.6%	62.6%	64.3%	72.2%	11.3%	63.5%	68.3%	99.5%	60
	Anthony	680	10.3%	78.2%	64.0%	13.4%	66.5%	65.6%	81.7%	10.4%	68.8%	92.6%	96.6%	100
	Anwar	1,013	8.5%	79.9%	65.2%	4.2%	81.2%	65.7%	96.5%	11.8%	63.6%	91.6%	75.5%	95
	Cricchio, A	829	12.1%	46.6%	30.5%	8.9%	71.7%	65.1%	79.8%	10.0%	69.5%	75.5%	99.3%	72
	Cricchio, M	632	7.8%	78.2%	64.4%	14.2%	61.2%	61.9%	66.4%	10.1%	66.6%	91.0%	85.8%	90
	Holly	219	6.4%	83.6%	71.2%	5.0%	82.6%	80.4%	71.9%	11.4%	71.2%	97.3%	95.0%	90
	Leifeste	756	7.3%	81.5%	70.8%	13.0%	65.2%	71.6%	59.6%	8.7%	69.2%	88.6%	82.7%	90
	Wheeler	486	7.6%	84.4%	73.9%	22.6%	56.6%	58.6%	81.4%	13.0%	61.9%	89.3%	88.7%	90
SETMA	Curry	303	10.2%	77.9%	59.1%	15.8%	60.7%	70.3%	86.5%	13.2%	65.7%	87.1%	92.4%	100
West	Deiparine	557	9.2%	72.2%	56.6%	25.3%	49.7%	51.3%	95.8%	13.8%	58.9%	70.7%	85.6%	85
	Halbert	911	10.9%	75.7%	62.5%	20.6%	55.5%	39.2%	98.0%	14.7%	60.9%	57.8%	84.5%	85
	Horn	563	5.2%	79.8%	65.9%	1.4%	70.5%	49.9%	90.6%	16.2%	55.1%	81.2%	95.2%	90
	Qureshi	309	19.4%	63.1%	52.1%	7.8%	71.2%	52.4%	98.7%	17.2%	59.2%	66.3%	95.8%	73
	Satterwhite	323	16.4%	60.1%	47.7%	22.6%	55.1%	53.6%	94.3%	19.2%	50.8%	76.8%	83.3%	73
	Vardiman	416	10.1%	74.0%	59.9%	19.5%	48.6%	61.1%	98.4%	13.5%	60.3%	66.1%	87.0%	95

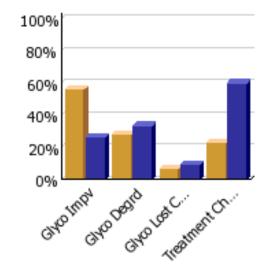


# Value of Trending Audit

- In 2009, trending revealed that from October-December many patients were losing HbA1C control. Further analysis showed that these patients were being seen and tested less often in this period than those who maintained control.
- A 2010 Quality Improvement Initiative included writing all patients with diabetes encouraging them to make appointments and get tested in the last quarter of the year. A contract was made, which encouraged celebration of holidays while maintaining dietary discretion, exercise and testing. In 2011, analysis showed that the holiday-induced loss of control had been eliminated.

### **Business Intelligence Diabetes Audit**





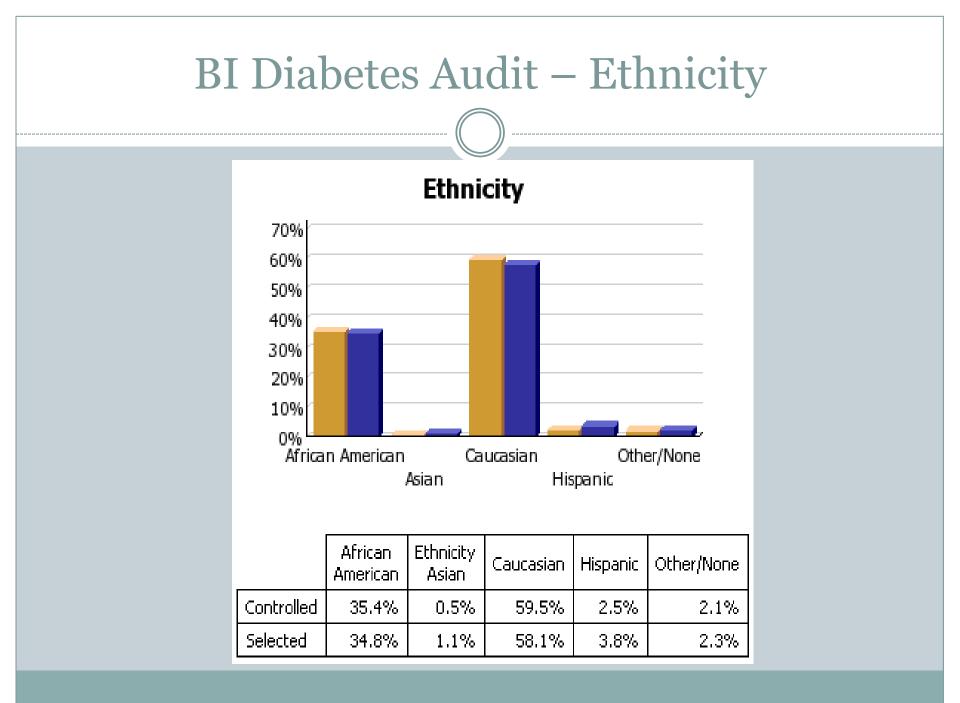
	Glyco Impv	Glyco Degrd	Glyco Lost Ctr	Treatment Changed
Controlled	56.0%	27.8%	6.6%	22.8%
Selected	26.6%	33.7%	9.5%	60.1%

### Leverage Points Sought

- Comparisons were made between patients whose diabetes was controlled (gold) and those whose diabetes was not controlled (purple). We discovered a statistically significant difference between the frequency of visits between patients who are controlled (4.6 visits/year) and those who are not controlled (3.5 visits/year).
- It appeared that seeing patients an additional time each year might improve their control. We are still examining that hypothesis.

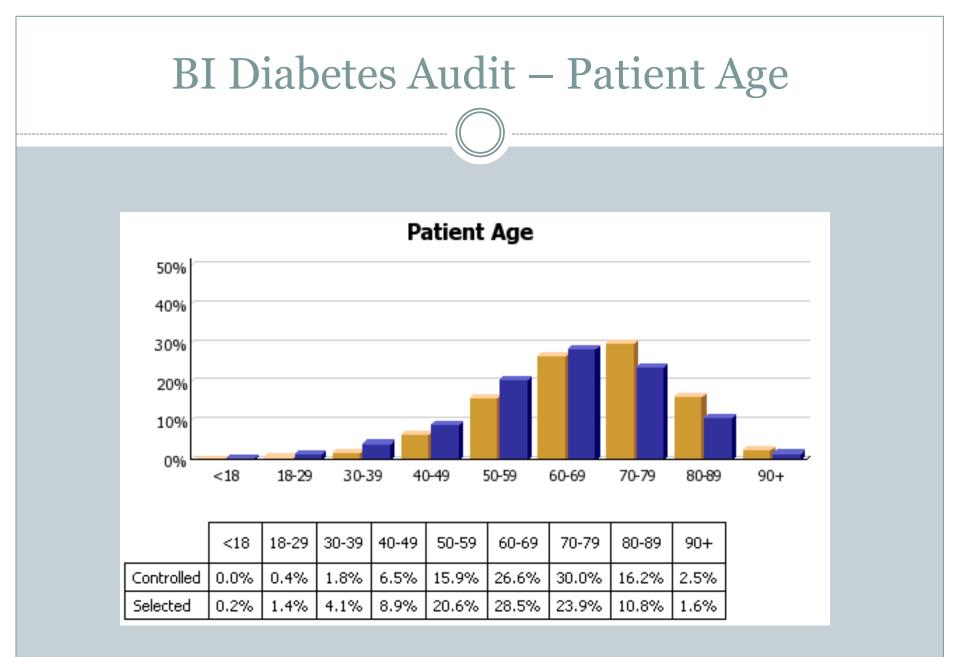
### **Business Intelligence Diabetes Audit**

- SETMA's Model of Care was designed to help overcome "clinical inertia" through public reporting, by provider name, of quality metric results.
- To further examine "clinical inertia," the BI Audit includes a determination of patients who are improving, or losing control, and if, when a patient is seen, whose diabetes is not controlled, whether a change in treatment was made.
- Thus far, in 2011, when patients were seen whose HbA1C was not controlled, a change in treatment was made 60% of the time. In 2010, a change was made 68% of the time.



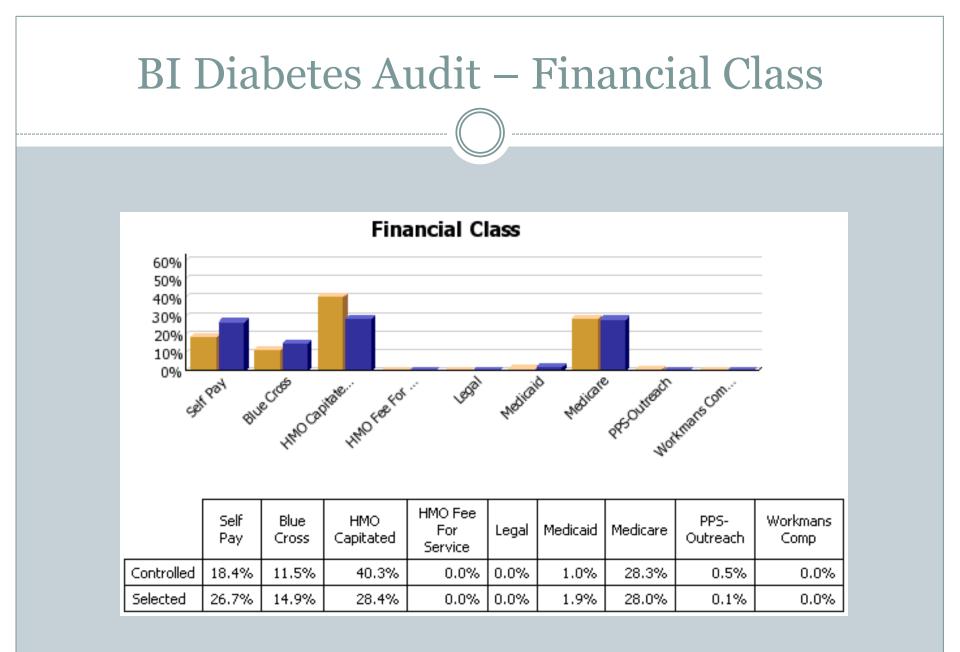
# BI Diabetes Audit – Ethnicity

- It is important to SETMA that all people receive equal care in access, process and outcomes. As a result, we examine our treatment by ethnicity, as well as by many other categories.
- Approximately, one-third of the patients we treat with diabetes are African-American and two-thirds are Caucasian. As the control (gold) and uncontrolled (purple) groups demonstrate, there is no distinction between the treatment of patients by ethnicity.



### BI Diabetes Audit – Patient Age

As can be seen from these bar graphs, SETMA's patients between 70-90 are receiving excellent care of their diabetes. This raised the question, in that this is a vulnerable population, could the HbA1C results be caused by nutritional deficiencies? By history, longitudinal weight measurements and by laboratory tests (pre-albumin), we found that this population was not malnourished and that the results represented excellent care of diabetes in the elderly.



### BI Diabetes Audit – Financial Class

- Financial barriers to care are a significant problem in the United States. Six years ago, SETMA initiated a zero co-pay for capitated HMO patients in order to totally eliminate economic barriers to care.
- Comparing FFS Medicare patients, capitated HMO and uninsured patients, it can be inferred from this data that the elimination of economic barriers results in improved care.
- Through SETMA's Foundation, we are making further attempts to compensate for economic barriers to care.

# Diabetes Disease Management Begins with a Diabetes Prevention Program

### **SETMA's Diabetes Prevention Program Includes**

- The **LESS Initiative** in which the risk of diabetes is accessed for ALL patients seen at SETMA, along with a weight management assessment, a personalized exercise prescription and smoking cessation.
- Diabetes Screening Program for those at high risk
- Patient Education on "Progression to Diabetes"
- Explanation of Five Stages of the Progression of Diabetes

SETMA's LESS Initiative - M	ale
Last Updated 01/20/2011 SETMA's LESS Initiative 10-15 pounds of excess weight places a person at a higher risk for developing diabetes, but 10-15% decrease in weight, even if a person is obese, decreases that risk significantly. The bad news is that more people are at greater risk of developing diabetes than think they are, but	Home
the good news is that a person can help decrease their risk without attaining their ideal body weight. You are 112 pounds overweight which places you at a higher risk for developing Diabetes. If you lose 27 to 41 pounds, you will significantly reduce your risk of developing Diabetes.	Document
Limitations         Weight Management         Exercise         CHF Exercise         Diabetic Exercise         Smoking Cessation           Elements of Preventing Diabetes         Which Exercise Prescription?	Preventing Diabetes <u>Pre-diabetes</u> <u>SETMA's LESS Program</u> Diabetic Risk Factors
1. Family History       4. Is the patient's BP elevated?       Image: Yes       No         Family History of Type II Diabetes?       Yes       No       (>130/80 mmHg)         Family History of Hypertension?       Yes       No       135       / 85       mmHg         Family History of Hyperlipidemia?       Yes       No       135       / 85       mmHg	
2. Is the patient overweight or obese?          • Yes         • Yes         • No         • S. Are the patient's lipids abnormal?         • Yes         • No         • HDL         • 30         • Triglycerides         • Ithe adiposity in the abdominal area,         • Triglycerides         • Ithe adiposity in the abdominal area,         • Triglycerides         • Ithe adiposity in the abdominal area,         • Pos         • Pos	
as indicated by the waist circumference? O Yes O No Cholesterol 165 (Males > 38" or Females > 35") 30.00 inches 6. Non-Caucasian Ethnicity? O Yes O No 3. Did the patient have a low birth weight? O Yes O No African-American	,
(< 5 lbs 5 oz) 7 lbs 2 oz Based on your age, body composition indicators (BMI or body fat), and the risk factors listed above	
Calculate Conclusion you have a risk of developing diabetes. You must lose weight, exercise, stop smoking and/or avoid inhaling other people's smoke, and you need to maintain your weight loss through continuing to exercise. We will continue to monitor your blood pressure, blood sugar and lipids on a regular basis.	
We will monitor you annually for the development of diabetes.	

SEIMAS LESS	S Initiative - Fer	naie
If you lose 22 to 33 pounds, you will sign Limitations <u>Veight Management</u> Exercise CHF E	at a higher risk for developing diabetes, but s obese, decreases that risk significantly. of developing diabetes than think they are, but heir risk without attaining their ideal body weight. s you at a higher risk for developing Diabetes. ificantly reduce your risk of developing Diabetes. ificantly reduce your	Home Document Information Preventing Diabetes Pre-diabetes SETMA's LESS Program Diabetic Risk Factors
Calculate Conclusion you have a risk of developing diabetes. inhaling other people's smoke, and you r exercise. We will continue to monitor y	<ul> <li>6. Non-Caucasian Ethnicity? Yes Yes No</li> <li>African-American</li> <li>7. Personal History of Gestational Diabetes?</li> <li>Yes No</li> <li>Modicators (BMI or body fat), and the risk factors listed above You must lose weight, exercise, stop smoking and/or avoid need to maintain your weight loss through continuing to rour blood pressure, blood sugar and lipids on a regular basis.</li> <li>ounseling to help you stay on track towards health lifestyles.</li> </ul>	

## **Preventing Diabetes**

#### Preventing Diabetes P

Patient

Diagnosis

Diabetes.

Pre

No

<u>Screening Recommendations</u> <u>Predicting Diabetes</u> <u>Screening Insulin Resistance</u> <u>IFG and IGT</u> <u>Current Strategies</u> <u>Could You Have Diabetes and Not Even Know It?</u> <u>Reducing Your Risk</u> <u>LOW Risk of Developing Diabetes</u>

129

144

2-Hr OGTT

4

DM Prediction Rule

Prediabetics have an atherogenic pattern of CV risk factors which are predominantly observed in prediabetics with increased HOMA IR and fasting insulin, i.e, insulin resistance.

Vital Signs			
Height	64.00	Waist	42.00
Weight	225.0	Hips	35.00
BMI	38.62	Ratio	0.00
Body Fat	45	Blood Pressure	e
BMR	1700	140 /	95
Protein Req	122		

		,		
e-Diabetes	100 - 125 mg/dL			
one	< 100 mg	∦/dL		
Fasting Lab Re	sults	Check for		
FPG		Cholesterol		

12/02/2009

01/07/2010

> 4 doubles

the risk of DM

**Fasting Test** 

> 126 ma/dL

Check f	or New La	ibs
Cholesterol	212	12/02/2
HDL	36	12/02/2
LDL	145	12/02/2
Triglyceride	s 312	12/02/2
Magnesium	1.8	12/02/2

Casual Test

> 200 ma/dL

< 140 mg/dL

140 - 199 mg/dL

009

009

009

009

009

#### **Diabetic Education Referral (Double-Click)**

Priority	Referring First	Referring Last	Referral	
Routine	Dia	Abochamah	asdf	-
•			•	$\square$

#### Return

Document

#### Patient Information

What is Pre-Diabetes? Carb Confusion What To Do About It Taking Steps To Prevent You Have The Power More Than 50 Ways To Prevent Importance of Glycemic Index Applying the Glycemic Index Glycemic Load Insulin - Friend or Foe Hyperinsulinemia Hunger, Insulin, and Meals Hunger, Fat, and Fav Foods

#### Print All

#### Provider Information

<u>Glycemic Index and Prevention</u> <u>Weight Loss</u> <u>Physical Activity</u> <u>Behavior Modifications</u> <u>Summary of Studies</u> <u>Lifestyle and Diabetes</u> <u>Visceral Fat</u> <u>Insulin Resistance Summary</u> Questions and Answers

#### Treatment

Insulin Resistance	Homocysteine
Impaired Fasting Glucose	hsCRP
Hypertriglyceridemia	Endothelial Dysfunction

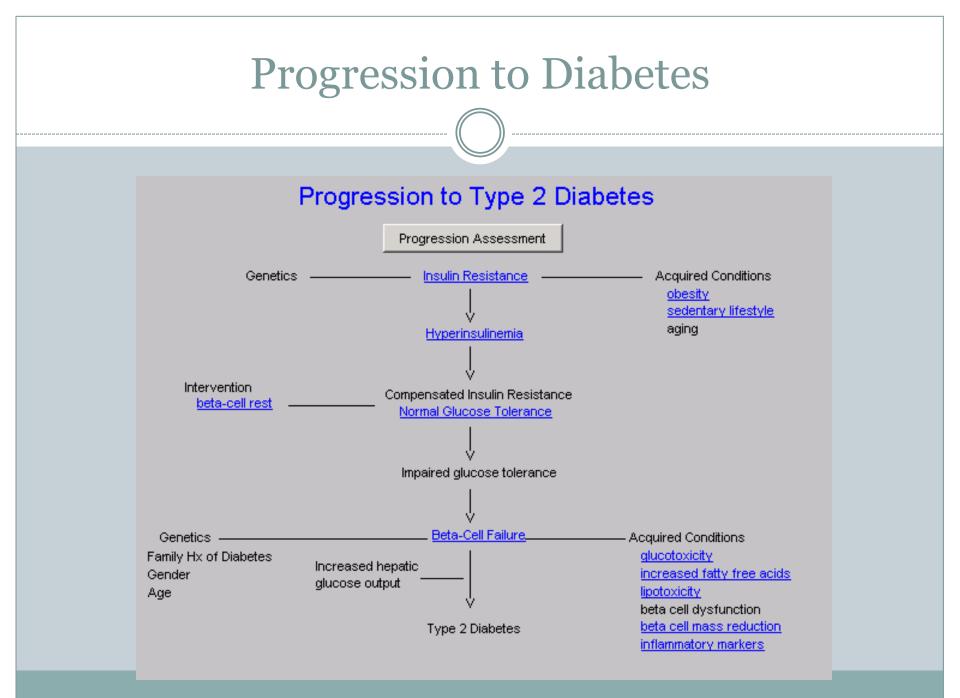
#### Links

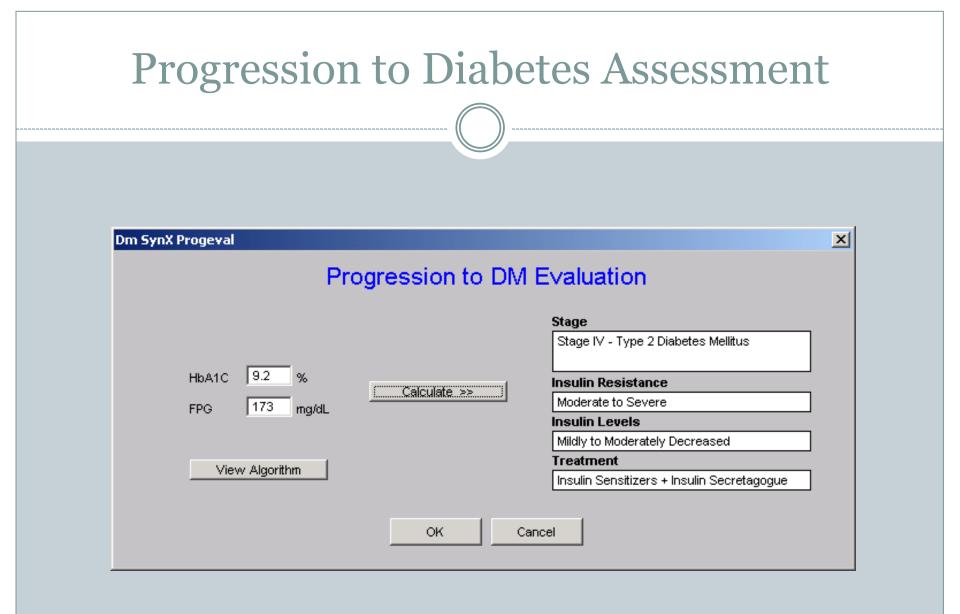
Insulin Resistance Hypertension Mamt Veight Mamt Exercise Lipids Mamt Metabolic Syndrome Smoking Cessation



# **Preventing Diabetes Testing**

Diabetes Screen	×
Recommendations to Delay or Prever	
in regular physical activity.	
Screening Recommendations for Pre-Diabetes (IFG, IGT)	
Patients > 45 years of age	(recommended)
Patients > 45 years of age with a BMI > 25	(required)
✓ Patients < 45 years of age, BMI >25 plus any one of the following risk factors	(required)
<ul> <li>Yes</li> <li>Yes</li> <li>No</li> <li>Non-Caucasian ethnicity?</li> <li>Yes</li> <li>No</li> <li>Dyslipidemia?</li> <li>Yes</li> <li>No</li> <li>Hypertension?</li> <li>Yes</li> <li>No</li> <li>Personal history of gestational diabetes or a baby weigh</li> </ul>	ning > 9 pounds?
How To Screen	
<ul> <li>Fasting Plasma Glucose Test Sent Successfully</li> <li>2-hour OGTT (75 gram glucose load) (if FPG &gt; 110)</li> <li>Positive test results should be confirmed at another office visit of</li> </ul>	Order These Test(s)
OK Cancel	





### Algorithm for Progression to Diabetes Assessment

#### Dm Synx Progalgo

X

#### Progression of Type II Diabetes

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Factors	Normal Glucose Tolerance	Impaired Glucose Tolerance/ Impaired Fasting Glucose	Type 2 Diabetes Mellitus	Type 2 Diabetes Mellitus	Type 2 Diabetes Mellitus
HgbA1C	< 5.5 %	5.5 - 6.1 %	6.2 - 7.5 %	7.6 - 10.0 %	> 10.0 %
Fasting Glucose	< 110 mg/dL	110 - 125 mg/dL	126 - 160 mg/dL	161 - 240 mg/dL	> 240 mg/dL
Insulin Resistance	Moderate	Moderate	Moderate	Moderate to Severe	Severe
Insulin Levels	Highly Increased	Moderately Increased	Slightly Increased to Normal	Mildly to Moderately Decreased	Highly Decreased
Treatment	Diet + Exercise	Diet + Exercise	Insulin Sensitizer	Insulin Sensitizers + Insulin Secretagogue	Insulin Sensitizers + Insulin

OK Cancel

### Cardiovascular Risk in Diabetes

Diabetes is an independent risk factor for cardiovascular disease. Two additional ways, in which cardiovascular risk should be evaluated are:

### • Framingham Cardiovascular Risk Scores

The only Framingham Score which includes HbA1C as opposed to simply the presence or absence of diabetes is the Global Cardiovascular Risk Score. At the suggested of Joslin, SETMA developed the "What IF" Scenarios.

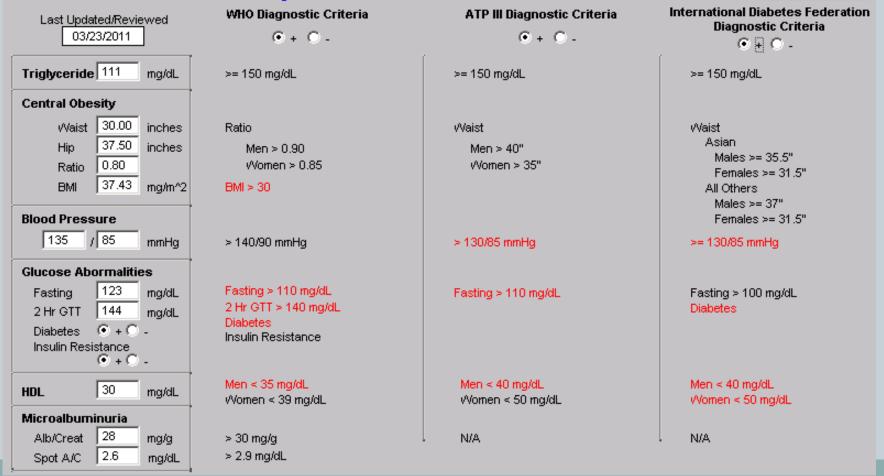
### • Cardiometabolic Risk Score

Framingham Risk Scores	
Framingham Heart Study Risk Calculators         Last Updated/Reviewed 09/21/2011         Relative Heart Age         General Cardiovascular Disease, 10-Year Risk       Total Points 19       Total Risk >30 %       >80 years         Real Heart Age         Means	
WHAT IF?         All Elements To Goal       10       9.4       54         Overall 20% Improvement       12       13.2       60         Blood Pressure To Goal       18       >30       >80         Lipids To Goal       15       21.6       72         Smoking Cessation (if applicable)       0       N/A       N/A	
Global Cardiovascular Risk Score       Total Points       10.0         A score above 4 indicates increased risk of a cardiovascular event.         WHAT IF?         All Elements To Goal       0.5         Overall 20% Improvement       3.8         Blood Pressure To Goal       6.5         Lipids To Goal       6.5         HgbA1c To Goal       7.3         Smoking Cessation (if applicable)       0.0	

### Cardiometabolic Risk Syndrome Assessment

Return

#### Cardiometabolic Risk Syndrome Assessment



### **Diabetes Disease Management Tools**

The first major improvement in SETMA's care of patients with diabetes resulted from the deployment of our disease management tool in 2000. This includes:

- Display of essential data including labs
- Clinical Decision Supports
- Assessment of fulfillment of quality metrics
- Adherence Assessment
- Life Style Changes including dietary, weight, exercise and smoking cessation
- Dilated Eye examination
- Foot care
- Dental Care
- Treatment Plan and Plan of Care
- Diabetes Self Management Assessment Education
- Medical Nutrition Therapy
- Diabetes Care Team
- The Passing of the Baton

### SETMA's Diabetes Disease Management

	es Manag п О дом О Рг			iabetes Since 4 Year 2009	- A	ge 46	Sex M	Navigation
Other								💿 Diabetes 🔘 General
Joslin Treatment Goals Imp Diabetes Concepts					Current Frequency of SMBG >4 Times Daily		Home	
Diagnostic Criteri	idenced-Based	24 Times Daily		Diab Sys Review				
Compliance Depted Care 08/10/2010 Smoker E-mail C + • -					Most Recent Labs Check for New Labs		· · · · · · · · · · · · · · · · · · ·	
Dental Care	08/10/2010		Syndrome •		HqA1C	9.2	09/21/2011	Diabetic History
Dilated Eye Exam	02/03/2011				Previous	1.2	01/21/2008	Eye Exam
Flu Shot Foot Exam	08/24/2011	Framingha	m Risk Scores			9.6	01/16/2008	Nasopharynx
FootExam HgbA1C	09/21/2011	10-Year	General Risk	>30 %	eAG	217		Cardio Exam
Pneumovax	01/26/2005	10-Year	Stroke Risk	13 %	Mean Plasma Gl	ucose	250.2 Insulin	
Urinalysis	04/24/2007	Global C	ardio Score	10 pts	C-Peptide	3.2	01/07/2011	Foot Exam
Aspirin	• Yes C No	Weight Ma	nagement Lipid	<u>s Management</u>	Fructosamine	212	01/07/2011	Neurological Exam
Statin	○ Yes ○ No	HPT Mana	<u>gement</u> Immu	<u>inizations</u>	Cholesterol	165	09/21/2011	Complications/Education
Vital Signs					LDL	113 30	09/21/2011	Initiating Insulin
Height 72.00		34.50	Finger Stick Glucose	104	HDL	111	09/21/2011	
Weight 275.00	0 Hips	37.50	Pulse	75.00	Triglycerides Trig/HDL Ratio	1.00	00/21/2011	Lifestyle Changes
BMI 37.43	Chest	36.00	Blood Pressur	<u>e</u>	Glucose	1	07/07/2011	Diabetes Plan
Body Fat % 32.2	Abdomen	38	135	/ 85	Fasting	123	01/01/2011	Education Booklet Given On
Protein Req 150	Ratio	0.92	BP In (	Diabetics	Insulin	14	01/01/2011	⊅6/15/2011
BMR 2705	BER	3025	Vitals (	Over Time	HOMA-IR	0.0		Diabetes Education
					Na	114	07/07/2011	
Current SQ Insulin Dose as of / / Blood Sugars					к	3.2	07/07/2011	Last DE //
Time of day Units	Type Units	Туре	mg/dl		Magnesium	2.8	07/07/2011	
0.00	0.00				BUN	1	07/07/2011	
	0.00				Creatinine	4.4	07/07/2011	

# Lifestyle Changes

### **Diabetes Lifestyle Changes**

Diet Type 2000 Cal ADA

ADA Print

#### **Principles of Dietary Management for Diabetes**

- Caloric restriction to achieve weight loss
- Carbohydrate-limited diet
- Vite Uniform distribution of calories throughout the day
- No caloric intake after 6-7 PM
  - (will result in lower first morning blood sugar levels)
- 🔽 Very high fat meals may result in delayed hyperglycemia
- Limit alcohol consumption (no more than 2 drinks per day)

Poor dental hygiene is associated with complications in diabetic patients

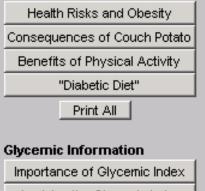
- Encourage patient to clean teeth with flossing daily
- Encourage annual dental examination and teeth cleaning

Exercise

Weight Management

Smoking Cessation Email

#### Information



Applying the Glycemic Index

Glycemic Load

Processing and Glycemic Level

### **Patient Adherence**

Diabetes Comply		×								
Diabetes Patient Adherence										
Adherent with Medications?	• Yes	O No								
Adherent with Follow-Up?	Yes	C No								
Adherent with Diet?	Yes	C No								
Adherent with Education?	O Yes	No								
Adherent with Exercise?	Yes	C No								
Patient sees an endocrinologist / outside physician for diabetic care? • Yes • No If so, list the physician below. Dr. Jehanara Ahmed										
OK Car	ncel									

## **Diabetes Plan of Care**

Meal RequirementsCalc	Diabetes Plan Return				
	Meal Dose     0.00     Pre-lunch     0.00     General Measures       eakfast     0.00     Pre-dinner     0.00     Help				
Laboratory & Procedures	Management Patient Compliance				
Ordering Provider Holly James	Change Self-Monitoring of Blood Glucose (SMBG) to <u>3 Times Daily</u> Comments				
BMP 02/18/2010	✓ Phone glucose data into our office in 7 days         ✓ Refer to eye specialist       Damien Luviar    HgbA1C Treat Goals Follow Up Document				
C-Peptide Creatinine	Follow Up Visit Education and Eye Referrals Document				
EKG     06/06/2010     EKG     03/05/2011     Fructosamine	Priority       Referring First       Referring Last       Referral         Immediate       Jehanara       Ahmed       Immediate         Medications       Immediate       Immediate       Immediate				
☐ Hepatic Profile         04/17/2009           ✔ HgbA1C         09/21/2011           ✔ Lipid Profile w/LDL         07/07/2011	<ul> <li>Continue present insulin and metformin/sulfonylurea/acarbose/pio/rosi/troglitazone regimen</li> <li>Continue Aspirin</li> <li>Start Aspirin 325 mg</li> </ul>	dd			
Magnesium           Micral Strip         09/16/2010           Pneumovax         01/26/2005	O Begin O Increase O Decrease O Stop       to       mg       Brand Name         O Begin O Increase O Decrease O Stop				
Spot AC Ratio TSH Venipuncture					
Assessment	New SQ Insulin Dose Save Import Current. Insulin Pump Comparison of Human Insulin				
Dx1 DM II Neuro Manifestations	0.00 0.00 Conditions - Glycemic Control				
Dx2	0.00 0.00 Drugs - Glucose Levels				
Dx3	0.00 0.00 Basal/Bolus Insulin				
Chronic Conditions	You MUST click "Save" above after entering new insulin information.     Incretins				
Submit Labs EM Coding	Sliding Scale         Insulin Over Time         Byetta				

## HbA1c and eAG

Joslin Treatment Gaals         Imp Diabetes Concepts         Current Frequency of SMBG         Home           Diagnostic Criteria         Screening Criteria         Evidenced-Based Recs         > 4 Times Daily         Diab Sys Review           Compliance         08/02010         Sincker         E-mail         + €         Headbolic Syndrome         + €           Postal Care         08/02010         Sincker         E-mail         + €         Headbolic Syndrome         + €           Plus Shot         03/05/2011         Metabolic Syndrome         + €         Previous         8.8         01/21/2009         Nasopharynx           10Year General Risk         230         10Year Stoke Risk         13         %         Mean Plasma Glucose         250.2         Insuln           Aspirin         • Yes C No         Weiarit Management         Inputs fills         Statin         Creation         113         092/1/2011         Neurological Exam           Vital Signs         Finger Stick         Glucose         104         113         092/1/2011         Neurological Exam           Vital Signs         Finger Stick         Glucose         104         113         092/1/2011         Neurological Exam           Body Fat % 22.2         Abdomen         38         135	Diabete Type I ⓒ Type	S Manag		_	viabetes Since 4 Year 200	<u> </u>	ge 46		Navigation Diabetes C General
Undernosite Criteria         Screening Criteria         Evidence0-based Recs         Most Recent Labs         Diab         Diab         Diab         Sys Review           Diated Eye Exan         02/03/2011         Smoker         E-mail         + • • -         +         -         HaA1C         9.2         09/21/2011         Diabetic History         Eye Exan         Diabetic History           Foot Exan         08/24/2011         10-Year General Risk         330 %         01/07/2011         Previous         8.8         01/21/2009         Nasopharynx           Aspirin         01/26/2007         Global Cardio Score         10         pts         -<									Home
Compliance         Compliance         Sindker         E-mail         + © - ·         Most Recent Labs         Check for New Labs         Diabetic History           Diated Eye Exam         02/03/2011         Metabolic Syndrome         + © - ·         HeaA1C         9.2         09/21/2011         Eye Exam         Diabetic History           Flu Shot         03/05/2011         Freminohan Risk Scores         9.6         01/16/2008         01/16/2008         Nasopharynx           HgbA1C         09/21/2011         10-Year General Risk         30         %         6/04/21/2007         04/24/2007         Global Cardio Score         10         ytas         6/04         7         Cardio Exam         Cardio Exam           Aspirin         © Yes © No         vieight Management         Libids Management         10/17/2011         Foot Exam         Foot Exam         Foot Exam         Foot Exam         Complications/Education           Yeight         72.00         visit 34.50         Finger Stick         Global Pressure         09/21/2011         Foot Exam         Complications/Education           Height         72.00         Visit 34.50         Blood Pressure         135         185         09/21/2011         Tradyocrides         01/07/2011         Lifestyle Changes           Body Fat %         3		a <u>Screening C</u>	riteria <u>Evi</u>	idenced-Based	d Recs		4 Times Da	my	Diab Svs Review
Contraction         Description         Metabolic Syndrome         C + C - +         HdA1C         9.2         O9/21/2011         Eventsory           Dilated Eye Exam         03/05/2011         Framingham Risk Scores         9.6         01/16/2009         9.6         01/16/2009         Nasopharynx           Previous         8.8         01/21/2019         10-Year General Risk         30         %         9.6         01/16/2009         Nasopharynx         Cardio Exam           Pheumovax         01/26/2005         01/26/2005         Global Cardio Score         10         previous         8.8         01/07/2011         Neurological Exam           Aspirin         C Yes C No         Veight Management         Immunizations         Fructosamine         212         01/07/2011         Neurological Exam           Viaight Z75:00         Hips         37.50         Finger Stick         104         Pulse         75.00         Blood Pressure         6lucose         100         0.00         0	-	08/10/2010	Smoker	E-mail	+ • .	Most Recent I	Labs Che	eck for New Labs	1
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Aspirin       Yes       No       v/veight Management       Lipids Management       Fructosamine       212       01/07/2011       Neurological Exam         Statin       Yes       No       HPT Management       Immunizations       165       09/21/2011       Complications/Education         Vital Signs       Finger Stick       Glucose       104       113       09/21/2011       Initiating Insulin         Vital Signs       Finger Stick       Glucose       104       Pulse       75.00       Hips       37.50       Pulse       75.00       Blood Pressure       Glucose       1       07/07/2011       Lifestyle Changes         Body Fat %       32.2       Abdomen       38       135       / 85       Fasting       123       01/01/2011       Education Booklet Given Or         BMR       2705       BER       3025       Vitals Over Time       Na       114       07/07/2011       Education Booklet Given Or         Na       114       07/07/2011       K       3.2       07/07/2011       Last DE       / /         BMR       2705       BER       3025       Vitals Over Time       Na       114       07/07/2011       Last DE       / /         Magnesium       0.00       0.00       0.			Global C	Cardio Score	<u>10</u> pts	C-Peptide		01/07/2011	Foot Exam
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Vital Signs       Finger Stick       104       113       09/21/2011       Initiating Insulin         Height       72.00       Waist       34.50       Glucose       104       100       09/21/2011       Lifestyle Changes         Weight       275.00       Hips       37.50       Pulse       75.00       100       Trig/HDL Ratio       1.00       Diabetes Plan         Body Fat %       32.2       Abdomen       38       135       / 85       Fasting       123       01/01/2011       Education Booklet Given Or         Protein Req       150       Ratio       0.92       BP In Diabetics       Insulin       14       01/01/2011       Education Booklet Given Or         BMR       2705       BER       3025       Vitals Over Time       Na       114       07/07/2011       Education Booklet Given Or         Ine of day Units       Type       Units       Type       mg/dl       Magnesiun       2.8       07/07/2011       Last DE       / /         0.00       0.00       0.00       0.00       Diany       Diany       Unitoralbumin       2.6       01/07/2011       Last DE       / /		○ Yes ○ No	HPT Mana	gement Imm	unizations				Complications/Education
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Weight       275.00       Hips       37.50       Pulse       75.00       1.00       1.00       Image: Control of the sector			34.50		104				เกเนลนกฎ เกรนแก
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BMR       2705       BER       3025       Vitals Over Time       HOMA-IR       0.0       Diabetes Education         Na       114       07/07/2011       K       3.2       07/07/2011       Last DE / /         Current SQ Insulin Dose as of //       Blood Sugars       Magnesium       2.8       07/07/2011       Last DE / /         fine of day Units       Type       mg/dl       BUN       1       07/07/2011         0.00       0.00       Diary       Diary       UMicroalbumin       2.6       01/07/2011		_				-			
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Magnesium         2.0         07/07/2011           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00				1		к	3.2	07/07/2011	Last DE 🛛 / /
0.00     0.00					S	Magnesium	2.8	07/07/2011	
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Diary ' <u>U Microalbumin</u> 2.6 01/07/2011					,	Creatinine			
					Diary	U Microalbumin		01/07/2011	
	0.00	0.00	J			Urinalysis	1.10	bs Over Time	

## **PCPI** Audit

### PCPI Diabetes Management

Has the patient had a Hemoglobin A1c within the last year?	Yes	Order HgbA1c
Date of Last 09/21/2011 Ordered Today		
Has the patient had a Lipid Profile witin the last year?	Yes	Order Lipid Profile
Date of Last 09/21/2011 Ordered Today		
Has the patient had a urinalysis within the last year?	Yes	Order Urinalysis
Date of Last 07/07/2011		
Has the patient had a dilated eye exam within the last year?	Yes	Add Referral Below
Date of Last 02/03/2011		
Has the patient had a flu shot within the last year?	Yes	Order Flu Shot
Date of Last 03/05/2011		
Has the patient had a 10-gram monofilament exam within the last year?	Yes	Click to Complete
Date of Last 08/24/2011		
Is the patient on Aspirin?	No	Add Medication Below
Is the patient allergic to aspirin?  • Yes		,
Is the patient's blood pressure controlled (<130/80 mmHg)?	No	
Today's Blood Pressure 135 / 85		
Does the patient have at least one visit schedule for the next six months?		Follow-Up Visit
Has the Diabetes Treatment Plan been completed with the last year?	Yes	Click to Complete
Date Last Completed 03/01/2011		

## Plan of Care and Treatment Plan



SETMA I - 2929 Calder, Suite 100 SETMA II - 3570 College, Suite 200 SETMA West - 2010 Dowlen (409) 833-1797 www.setma.com

### Diabetes Follow-Up Note Treatment Plan and Plan of Care



HgbA1c Blood Pressure Cholesterol (LDL)

Less than 7.0 % Less than 130/80 mmHg Less than 100 mg/dL Less than 70 mg/dL (if you have cardiovascular disease) Less than 30 mcg/mg of creatinine

Microalbumin

Patient Date of Birth Age 74 years Ethnicity Sex M

Encounter Date 09/20/11

### The Secret to Diabetes: Learning

Remember, Dr. Joslin, one of the founders of modern care of diabetes said, "He who knows the most about diabetes will live the longest." If you have not been to diabetes self-management education classes in the past two years, ask your provider to give you a referral.

## Plan of Care and Treatment Plan

### Compliance/Adherence

As a patient with diabetes, it is crucial that you have the following care according to the following schedule:

	<u>Compliance Standard</u>	<u>Your Adherence</u>
Annual Dilated Eye Examination by an Ophthalmologist	annual	Yes, you are adherent.
Hemoglobin A1C	three months or each visit	Yes, you are adherent.
Monofilament Examination of Your Feet	annual	Yes, you are adherent.
Controlled Blood Pressure	each visit	Yes, you are adherent.
Urine for Protein for Kidney Damage	annual	Yes, you are adherent.
Flu Immunization	annual	Yes, you are adherent.
Taking an 81 mg Aspirin	each visit	Yes, you are adherent.
Dental Care with Cleaning of Teeth	every six monthss	Yes, you are adherent.
Cholesterol Check (LDL)	annual	Yes, you are adherent.
Pneumovax	every ten years	Yes, you are adherent.
DSME (Diabetes Self Management Education)	every two years	Yes, you are adherent.
Medical Nutrition Therapy	once in first year diagnosis	You are not adherent.
Screening for PVD with Pedal Pulses, ABI or	routinely after age 50	
Arterial Doppler		

### Plan of Care Adherence

Our plan of care for the treatment of your diabetes is based on the evaluation of your compliance with your care.

Are you adherent with your medications? Yes, you are adherent. Are you adherent with your follow-up? Yes, you are adherent. Are you adherent with your diet? Yes, you are adherent. Are you adherent with your education? You are not adherent. Are you adherent with your exercise? Yes, you are adherent.

You must take your medications, keep your appointments, and learn all you can about diabetes.

Our records show that you have not attended a Diabetes Self Management Education class. Please arrange with your provider to attend a class.

## HbA1c

We will monitor your blood values regularly. Remember the Hemoglobin A1C (HgbA1C) estimates the average blood sugar which you have had for the past three months. If your HgbA1C is above 6.0, your eyes, your kidneys, you heart, your nerves and your blood vessels are subject to being damaged. It is important for you personally to know your HgbA1C and that you keep track of it.

In order to prevent duplications in laboratory testing, please have all of your labs done at SETMA. In that way, the results will be in our computer and we will send the results to your endocrinologist if he/she is not a part of SETMA.

Your current HgbA1c is 10.4 %. Your diabetes is totally out of control and without immediate improvement your health is at serious risk of permenant, long-term damage.

In that your HgbA1c is above 6.5 %, you need to have your eyes examined every six months. Your last eye examination was 1 0/12/2010. Ask for a referral to your ophthalmologist to schedule your next eye exam.

Your Urine Microalbumin is Negative.

You have had diabetes since 5 1993.

## HbA1c and eAG

The following are Joslin Diabetes Center's goals for monitoring your blood sugar:

Fasting 2 Hours After Meals 70 - 130 mg/dL Less than 180 mg/dL

The relationship between the HgbA1C and the values you get from your glucometer (referred to as "eAG") is explained below.

### Relationship between HgbA1c and eAG

HgbA1c (%)	eAG (mg/dL) (95% Cl)
12	298 (240-347)
11	269 (217-214)
10	240 (193-282)
9	212 (170-249)
8	183 (147-217)
7	154 (123-185)
6	126 (100-152)
5	97 (76-120)
4	68 (51-86)

Remember, the most important value for the prediction of complications of diabetes is HgbA1C. Our goal - yours and mine - will be to work together to achieve consistent, excellent blood sugar and blood pressure control with a HgbA1C below 7% and a blood pressure below 130/80 mmHg. If you are concerned about a particular result, look at the "average blood glucose" value on your glucometer. That value is the most important other than your HgbA1C.

## Plan of Care and Treatment Plan

### Lifestyle Changes for Improving Your Health

There are three lifestyle changes which will improve your health, help control your diabetes, decrease your cardiovascular disease risk and help minimize the complications of diabetes. They are:

- \* Lose weight
- \* Exercise
- \* Stop Smoking (if you do)

With your diabetes plan of care and treatment plan, you have received a copy of your SETMA LESS Initiative. Follow it. Get active, lose weight and treat tobacco smoke as a plague.

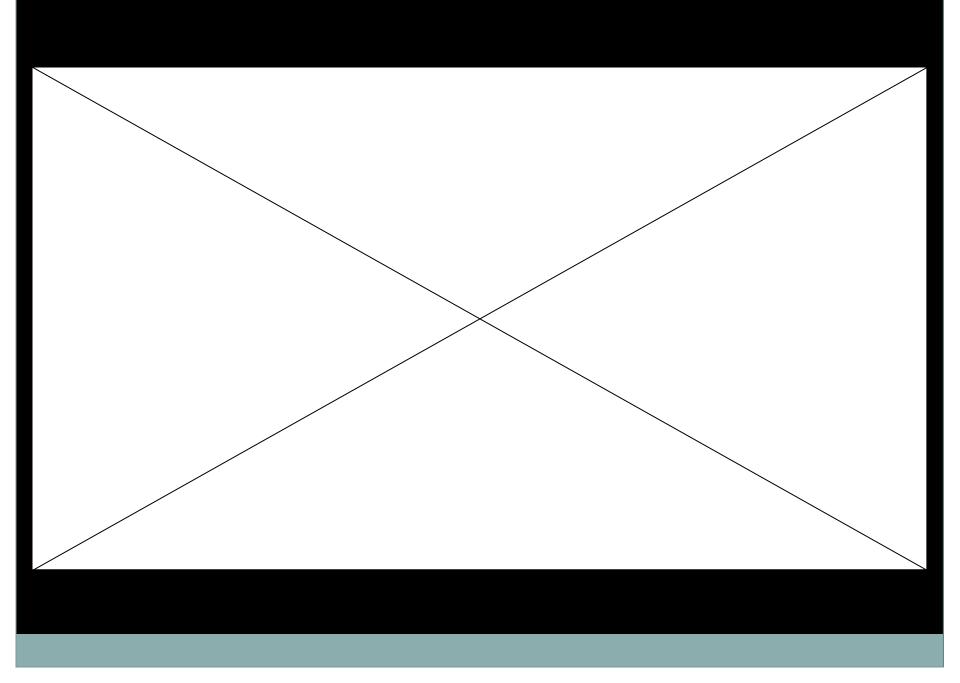
### How You Can Take Charge of Your Own Treatment

1. Bring your self-monitoring results with you to every clinic visit. I very much appreciate you doing that and thank you for it.

2. Know and understand your HgbA1C.
 Your most recent HgbA1C was 10.4 % on 08/03/2011.
 Your previous values were:
 10.1 % on 02/16/2010
 8.5 % on 08/11/2009

- 3. Make sure that you note any time your blood sugar drops to 70 mg/dL or below. Note on your log what you were doing at the time.
- 4. Make sure that you are satisfied with your numbers. Remember, if your HgbA1C is below 7%, you greatly reduce the complications to your health from diabetes.





## The Baton

Firmly in the provider's hand, the baton – the care and treatment plan – must be confidently and securely grasped by the patient if change is to make a difference, 8,760 hours a year.

## Addendum - The Seven Stations of Success

SETMA Designed the Seven Stations of Success as visual reminders of the leverage points for improving the care of patients with diabetes by providers and by the patients themselves.

- 1. A set of the stations are displayed in the hallway leading to the Joslin Affiliate Clinic.
- 2. A framed copy of each station is displayed at the point of care for each activity within the clinic.
- 3. Station Seven -- "SETMA is Your Health Home" is on the door through which the patient exits the Joslin Clinic.

#### STATION ONE FOR SUCCESS

### Self-Monitoring of Blood Glucose (SMBG)

#### Bring your log book and blood glucose monitor to every visit.

We will help you download your meter.

Patterns provide a picture of how food, daily activity, and medications affect your blood sugar.

Ask your diabetes educator to help you find patterns in your SMBG.

Remember you are in charge of your own health for 8,760 hours a year.

"Teaching is cheaper than nursing." —ELLIOTT P. JOSLIN, MD

> Joslin Diabetes Center Artiliete at Southeast Base Medical Associates LLP

## Station 1 Self-Monitoring of Blood Glucose

•Bring your log book and blood glucose monitor to every visit.

•We will help you download your meter.

•Patterns provide a picture of how food, daily activity and medications affect your blood sugar.

•Ask your diabetes educator to help you find patterns in your SMBG.

•Remember you are in charge of your own health for 8,760 hours a year.

"Teaching is cheaper than nursing." -Elliot P. Joslin, MD

#### STATION TWO FOR SUCCESS

### Hemoglobin A<sub>1c</sub> (HbA<sub>1c</sub>) Point of Care (POC)

HbA<sub>1c</sub> reveals your risk for heart attacks and strokes.

#### HbA<sub>1c</sub> Below 7% Decreases Risk Dramatically.

POC HbA<sub>1c</sub> results allows YOUR Healthcare Team – you, your provider, and educator – to know where you are.

#### You will get your HbA<sub>1c</sub> value at this station.

Always know your last  $HbA_{\rm 1c}$  and whether it is improving or not.

"The person who knows the most about diabetes lives the longest." --ELLIOTT P JOSLIN, MD

> Joslin Diabetes Center Southeast Nexts Medical Associate (JP

# Station 2 HbA1c Point of Care

•HbA1c reveals your risk for heart attacks and stroke.

•HbA1c below 7% decreases risk dramatically.

•POC HbA1c results allows your healthcare team - you, your

provider and educator - to know where you are.

•You will get your HbA1c value at this station.

•Always know your last HbA1c and whether it is improving or not.

"The person who knows the most about diabetes lives the longest." -Elliot P. Joslin, MD

#### STATION THREE FOR SUCCESS

### The LESS Initiative

L - LOSE WEIGHT | Excess fat leads to diabetes, high blood pressure and other health problems. Know your body fat percent, BMI and BMR.

**E** - **EXERCISE** | Exercise helps lower body fat, blood sugar and blood pressure. How to exercise? START!

**S - STOP SMOKING** | Smoking causes heart disease.

**S - STOP SMOKING** | Trying to stop, doesn't help; only stopping helps.

Make the decision Ask for help Only you can stop

"It is better to discuss how far you have walked than how little you have eaten." --ELLIOTT P JOSLIN, MD

Joslin Diabetes Center

## Station 3 The LESS Initiative

 L – Lose Weight – Excess fat leads to diabetes, high blood pressure and other health problems. Know your body fat, BMI and BMR.

•E – Exercise – Exercise helps lower body fat, blood sugar and blood pressure. How to exercise? START!

-S - Stop Smoking - Smoking causes heart disease.

 S – Stop Smoking – Trying to stop doesn't help; only stopping helps.

"It is better to discuss how far you have walked than how little you have eaten." -Elliot P. Joslin, MD

#### STATION FOUR FOR SUCCESS

Medical Nutrition (MNT) & Diabetes Self Management Education (DSME)

#### ASSESS

What do YOU know about diabetes? How do YOU care for yourself?

#### PLAN

Create a plan that meets YOUR needs.

#### TEACH

Knowledge and skills YOU need to manage diabetes well.

#### SET GOALS

You can improve YOUR health, RIGHT NOW!

"We can only scratch one back at a time, but we can teach many patients together and each is likely to teach another." -HELIOTT PLOSLIN, MD

Joslin Diabetes Center

# Station 4 Medical Nutrition & Diabetes Self Management Education

•Assess – What do YOU know about diabetes? How do YOU care for yourself?

•Plan - Create a plan that meets YOUR needs.

•Teach – Knowledge and skills YOU need to manage diabetes well.

•Set Goals – You can improve YOUR health, RIGHT NOW!

"We can only scratch one back at a time, but we can teach many patients together and each is likely to teach another." -Elliot P. Joslin, MD

#### STATION FIVE FOR SUCCESS

### Physician Partnership With YOU

**TOGETHER**, set goals of blood glucose, blood pressure and cholesterol.

**TOGETHER**, determine your risk of complications.

**TOGETHER**, plan for preventing complications.

**TOGETHER**, review and agree on treatment plan.

"You and your healthcare provider are 'in this together.' Be an active part of YOUR team."

Joslin Diabetes Center

# Station 5 Physician Partnership with YOU

•TOGETHER, set goals of blood glucose, blood pressure and cholesterol.

**•TOGETHER, determine your risk of complications.** 

•TOGETHER, plan for preventing complications.

**•TOGETHER, review and agree on treatment plan.** 

"You and your healthcare provider are 'in this together.' Be an active part of YOUR team." -SETMA

#### STATION SIX FOR SUCCESS

## **Care Coordination**

Establishing and Executing Your Diabetes Plan of Care and Treatment Plan.

#### **COORDINATE REFERRALS**

- DSME and MNT Self Care
- Ophthalmologist Eye Care
- Nephrology Kidney Care
- Physical Therapy Heart Care
- Communication Continuous Care

#### **COORDINATE RESOURCES**

- Barriers to Care Financial, Social, Physical, Literacy, etc.
- Support Family, Community, Religious, etc.
- Counsel *Psychological, etc.*

#### **COORDINATE CARE**

Follow Through

"Your healthcare team – you, your provider, your educator, all members of your team – working together to facilitate excellence."

> Joslin Diabetes Center Attiliate at Southeast Reast Medical Associates (LP

# Station 6 Care Coordination

### Establishing and Executing Your Diabetes Plan of Care and Treatment Plan

### Coordinate Referrals

- DSME and MNT Self Care
- Ophthalmology Eye Care
- Nephrology Kidney Care
- Physical Therapy Heart Care
- Communication Continuous Care

# Station 6 Care Coordination

### Coordinate Resources

- Barriers to Care Financial, Social, Physical, Literacy, etc.
- Support Family, Community, Religious, etc.
- Counsel Psychological, etc.

### Coordinate Care

Follow Through

"Your healthcare team – you, your provider, your educator, all members of your team – working together to facilitate excellence." -SETMA

#### STATION SEVEN FOR SUCCESS

### SETMA is Your Health Home

#### You Are Always Welcome at Your Health Home.

- Formal Visit
- Dropping By
- Phone Call
- Email Ask about NextMD
- Letter

#### You Are In Charge.

- There are 8,760 hours in a year.
- **8**,700 + hours are spent outside of the doctor's office.
- Before you leave make sure you know what your

next steps are to improve your health!

"In an Olympic Relay race, if the baton is dropped, the team fails; if any member of your healthcare team drops your "healthcare baton", which is your plan of care and treatment plan, we will all fail."

Joslin Diabetes Center

# Station 7 SETMA is Your Health Home

### You Are Always Welcome at Your Health Home

- Formal Visit
- Dropping By
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- Letter

## Station 7 SETMA is Your Health Home

### •You Are Always Welcome at Your Health Home

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