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2012 eHealth Innovator Award

Southeast Texas Medical Associates, LLP

The LESS Initiative (Lose Weight, Exercise, Stop Smoking)

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### The LESS Initiative Tutorial

### **Origin of the LESS Initiative**

In October, 1997, SETMA attended the Medical Group Management Association meeting to preview electronic-health-record (EHR) solutions. In March, 1998, SETMA signed a contract with NextGen to purchase their EHR and their EPM (enterprise practice management system). We deployed the EPM side of the system in August, 1998 and the EHR on January 26, 1999. By Friday, January 29th, we documented every patient encounter in the EHR. In May, 1999, three seminal events transformed SETMA's healthcare vision and delivery.

The first event led to the LESS. We concluded that EHR was too hard and too expensive if all we gained was the ability to document an encounter electronically. EHR was only "worth it," if we leveraged electronics to improve care for each patient; to eliminate errors which were dangerous to the health of our patients; and, if we could develop electronic functionalities for improving the health and the care of our patients. We also recognized that healthcare costs were out of control and that EHR could help decrease that cost while improving care. Therefore, we began designing disease-management and population-health tools, which included "follow-up documents," allowing SETMA providers to summarize patients' healthcare goals with personalized steps of action through which to meet those goals. We transformed our vision from how many x-rays and lab tests were done and how many patients were seen, to measurable standards of excellence of care and to actions for the reducing of the cost of care. We learned that excellence and expensive are not synonyms.

After developing, several disease management tools, we realized that in the plan of care for each, we identified three life-style changes which we wanted everyone to make. One of them was to stop smoking. Whether it was for diabetes, cholesterol, hypertension or others, it was critical that our patients decrease the inflammatory burden on their cardiovascular systems by avoiding primary, secondary and now tertiary tobacco products. We want patients to decrease their risk by losing weight and to increase their cardiovascular health with routine, regular aerobic exercise, strengthening and stretching exercise.

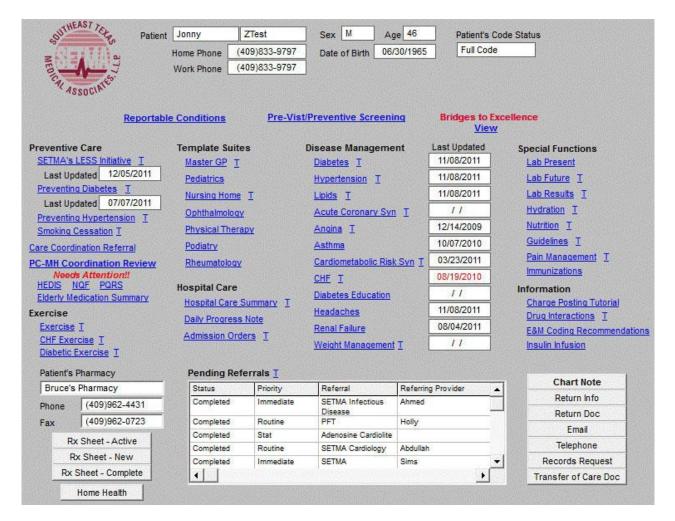
To address these issues with one patient is not problem, but how to do it with 400+ patients a day and how to know that you are doing it, is a different matter. As a result we designed the LESS Initiative (Lose weight, exercise, stop smoking). The program included a diabetes risk assessment, a diabetes screening assessment and a hypertension prevention program.

This tutorial explains the LESS and other tutorials explain the Diabetes and Hypertension Prevention programs. Those can be found on the web site under Prevention Tools, also.

The premiere primary preventive health initiative of SETMA is the LESS Initiative. LESS is an acronym for: lose weight, exercise, and stop smoking. Included in the LESS Initiative are diabetes prevention, hypertension prevention and insulin resistance risk analyses. The following procedure is the proper way to complete the LESS Initiative.

The LESS Initiative contains the following templates, pop-ups and links:

- 1. At the top of the AAA Home Template there are three hyperlinks:
  - a. The LESS Initiative hyperlink launches the Less Initiative.
  - b. The Diabetes Prevention hyperlink launches an analysis of diabetes screening with eight pop-ups which will be explained below
  - c. Hypertension Prevention hyperlink
- 2. Completed properly and explained to the patient properly, the LESS Initiative is an effective tool in SETMA's commitment to excellent in the care of our patients.



10-15 pounds of excess weigh 10-15% decrease in weight, The bad news is that more people	TMA's LESS Initiative It places a person at a higher risk for developing diabetes, but even if a person is obese, decreases that risk significantly. are at greater risk of developing diabetes than think they are, but n help decrease their risk without attaining their ideal body weight.	Home
	eight which places you at a higher risk for developing Diabetes. unds, you will significantly reduce your risk of developing Diabetes. Exercise CHF Exercise Diabetic Exercise Smoking Cessation	Information Preventing Diabetes Pre-diabetes
Elements of Preventing Diabetes 1. Family History Family History of Type II Diabetes? Family History of Hypertension? Family History of Hyperlipidemia? 2. Is the patient overweight or obese? 29.94 BMI 32.2 Body Fat % Is the adiposity in the abdominal area, as indicated by the waist circumference? (Males > 38" or Females > 35")	Which Exercise Prescription?         4. Is the patient's BP elevated?       Yes         Yes       No         HDL       30         Triglycerides       111         Yes       No         Cholesterol       165	SETMA's LESS Program Diabetic Risk Factors
Calculate Conclusion you have a risk of de inhaling other people' exercise. We will co	6. Non-Caucasian Ethnicity? • Yes • No • Ves • Ves • No • Ves • Ves • Ves • No • Ves •	

### LESS Initiative Template

1. When the LESS Initiative hyperlink is single clicked, if the patient's vital signs have not been completed (particularly blood pressure and pulse), a pop-up will appear which states, "The patient's vitals signs must be completed before proceeding to the LESS template."

VITAL SI	GNS X
	The patient's vital signs must be recorded before proceeding to the LESS template.
	ОК

You will automatically be taken to the Vital Signs template.

SMOKING	?
<u>.</u>	AT EVERY VISIT, ASK ALL PATIENTS ABOUT TOBACCO USE, AND DOCUMENT THEIR RESPONSE.

Once the vital signs have been completed including the patient's:

- Blood pressure
- Pulse
- Respiratory rate
- o height,
- weight,
- percent body fat,
- o abdomen
- waist,
- $\circ$  hips and
- chest
- BMR
- pulse oximeter (if indicated)
- Glucose (if indicated)
- Tidal volume (if indicated)

you are ready to complete the LESS Initiative by single clicking the return button on the vital signs template and then single click the "LESS Initiative" hyperlink again (note: at this point a pop up will appear reminding you to ask the patient about their tobacco use)

ital Signs Vitals/Time		equired Field	Blood Pressure	Return
emperature	٩F		Trial 1 / mmHg	Histories
uise		Regular Irregular	Trial 2 1 1 mmHg C C	Health
esp Rate/Min	-	T Shallow	Check if unable to measure blood pressure.	Questionnaires
		Retracting	APTORNAL STREAM	HPI Chief
Veight I	lb	kg kg	Mid-Arm Circumference Cuff Used Today	System Review
eight 🗌	in	11	Recommended Cutt Size Adult Large Adult Thigh Cutt	Physical Exam
Mi Help [	-			Radiology
			Orthostatics Pulse	Assessment
ody Fat % Help		11	Lying / mmHg	Plan
MR Help	cal/d	ary:	Stiting / mmHg Standing / mmHg	Procedures
ulse Oximetry	_	Room Air Oxygen	20 /         OS         20 /           20 /         OD         20 /           20 /         OD         20 /           20 /         OU         20 /           20 /         OU         20 /           Peak Flow         Trial 1         Predicted Avg         Calc           Trial 2         If <60% institute therapy.         Trial 3         Percentage           Proportion Cardiovascular Risk Ratio         How-To         Help           Waist         Abdomen	Meas IV Therapy Immunizations Return Info. Return Doc. Home Heath
			Hips Chest //	

- remember, all but the patient's weight, blood pressure and pulse are in demographic fields, which means that once they are done, they will copy forward in subsequent visits and only need to be repeated if the patient loses or gains a significant amount of weight, or gains or loses height. Of course, the glucose, pulse oximeter, and tidal volume values are not carried forward to subsequent visits either.

2. If the patient has had the LESS Initiative completed within the past two months, a pop-up will appear which will indicate that the patient has had this material given to them in that time frame and it is not necessary to do it again at this time. It is permissible and perhaps ideal to give it to the patient again, but it is not required.

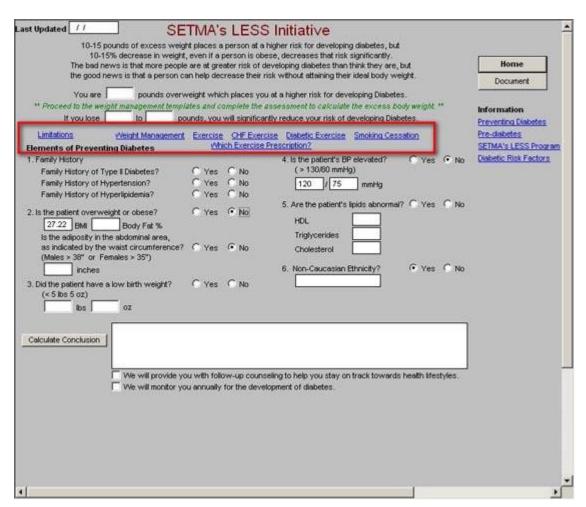
LESS Pre	viously Completed
<u>.</u>	This patient has been given the LESS information within the last 2 months. You may take the time to discuss these issues with the patient, but there is no need to reprint the document at this time, unless the patient requests it.
	ОК

- 3. The LESS Initiative template is divided into four parts:
  - a. At the top is a statement about the contribution which excess weight makes to diabetes risk and the benefit of weight loss to the decreasing of that risk. When the Weight Management Assessment is access (see below), numbers will be added to the blank spaces indicating how much overweight the patient is and how much weight they need to lose in order to reduce their risk of developing diabetes.

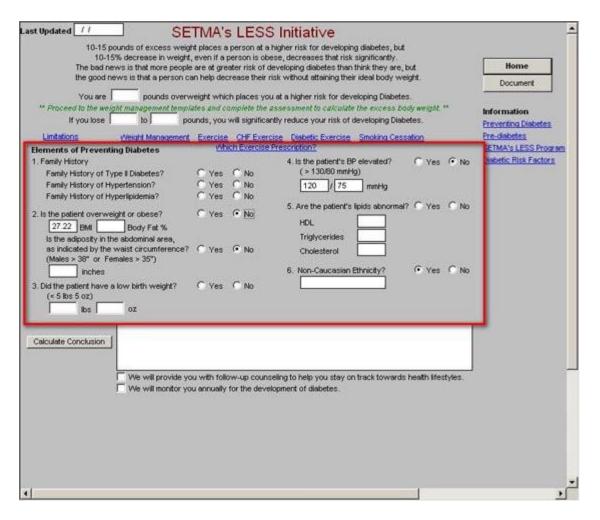
** Proceed to the weight management templa	eight which places you at a higher risk for developing Diabetes. tes and complete the assessment to calculate the excess body weight. ** inds, you will significantly reduce your risk of developing Diabetes.	Information
Linitations Weight Management Elements of Preventing Diabetes 1. Family History Family History of Type II Diabetes? Family History of Hypertension? Family History of Hypertension?	Exercise OFF Exercise Diabetic Exercise Stoking Cessation Which Exercise Prescription? 4. Is the patient's BP elevated? C Yes © No (> Yes © No (> 130/80 mmHg) C Yes © No 120 / 75 mmHg C Yes © No 5. Are the patient's lipids abnormal? C Yes © No HDL	Preventing Diabetes Pre-clabetes SETMA's LESS Progra Diabetic Risk Factors
	a with follow-up counseling to help you stay on track towards health lifestyles, annually for the development of diabetes.	

- b. The second part of the LESS template contains six hyperlinks:
  - 1. Limitations this hyperlink launches a pop-up which allows for the notation that the patient either "refused to be weighed" or "could not be weighed."
  - 2. Weight Management this launches the Weight Management Assessment template
  - 3. Exercise this launches the Exercise template
  - 4. CHF Exercise this launches the CHF Exercise template
  - 5. Diabetes Exercise this launches the Diabetes Exercise template
  - 6. Smoking Cessation this launches the Smoking Cessation template.

7. Details of these six hyperlinks will be given below.



c. The third part of the LESS template contains the risk factors for the development of diabetes. There are six for males and seven for females. These are automatically noted. Under the following circumstances;



On the History Template, there is an "Ext Fam Hx" (Extended family history) button at the bottom of the template. On this template, there are check boxes for noting whether the patient has a family history of Diabetes II, Other Endocrine disorders, Hypertension, Lipid abnormalities.

ource	F						Return	Ĩ.
Patient Family member Caregiver							Nursing	1
ibits							Health	V
+ Tobacco	Hospital					-	Questionnaires	1
Alcohol							HPI Chief	1
Caffeine	H						System Review	1
Exercises regularly Toxic Substances	Surgical						Physical Exam	1
Habit Details	-						Radiology	1
Living Arrange/Assist Devices							Assessment	1
cial	Previous				_		Plan	1
nicity Occupation	liness						Procedures	1
xuality Marital Status								
nily	L.							
Adopted C Unknown								
Social History Past History	Family Histor	y 🔽 Car	diac History	Cor	nments	1		
						-		

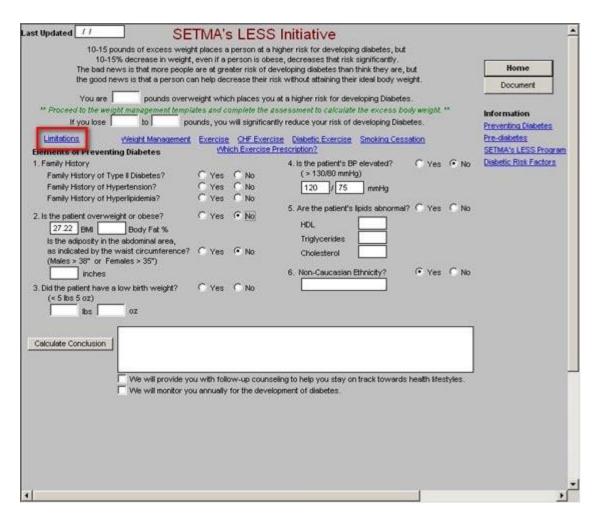
If this function has been completed, it will automatically populate this section of the LESS Initiative. We do not capture the information for questions number three (birth weight), or number seven (gestational diabetes, only for females obviously), therefore these two pieces of information need to be added. These two data points are in demographic fields so if they are added, in that they never change, they will always copy forward.

d. The fourth part of the LESS template is the Calculate Conclusion button, which analyzes all of the information above and determines whether the patient has a high or a low risk of developing diabetes. In order for this to be completed it is necessary to click on the Calculate Conclusion button.

You are pounds overview Proceed to the weight management templi	an help decrease their risk without attaining their ideal body weight. reight which places you at a higher risk for developing Diabetes. ales and complete the assessment to calculate the excess body weight. ** unds, you will significantly reduce your risk of developing Diabetes. Exercise CHF Exercise Diabetic Exercise Shoking Cessation which Exercise Prescription? 4. Is the patient's BP elevated? Yes * No Yes * No Yes * No Yes * No Yes * No Yes * No HDL Trighycerides Yes * No Kon-Caucasian Ethnicity? Yes * No	Document Information Preventing Diabetes Pre-diabetes SETMA's LESS Program Diabetic Risk Factors
	u with follow-up counseling to help you stay on track towards health lifestyles. u annually for the development of diabetes.	]

Successfully completing the LESS Initiative: The Six hyperlinks on the second part of the template.

1. Limitations hyperlink is the first hyperlink which is explained above. If an option is checked, it excuses the completion of the weight management part of the LESS, but the Exercise and the Smoking Cessation should be completed.



2. Weight Management hyperlink is the second hyperlink, which accesses the Weight Management templates. In order to properly complete this part of the LESS, the three "calculate" buttons in the third column must be checked. Then click return, which will take you back to the LESS Template.

Edit Program Risk Factors	Patient Jon ZZZZ Age 3 Sex M	ZZZOWE	Havigation
Cardiovascular Hypertension Congestive Heart Failure Cor pulmonale Varicose Veins Pulmonary Embolism Coronary Artery Disease Endocrine Metabolic Syndrome Type II Diabetes Dyslipidemia	Integumentary Striae Distensae (Stretch Marks) Status Pigmentation of Legs Lymphedema Celluitis Intertrigo, Carbuncles Acanthosis Nigricans, Skin Tags Musculoskeletal Hyperuricemia and Gout Immobility Osteoarthritis (Knees, Hips)	Height         72.00         in           vVeight         200.00         lbs           vVaist         in           Hips         in           Neck         in           Blood Pressure         120           120         /           Risk Ratio         %           Protein Reg         109         g/day	Return         Physician Role         Evaluation         Readiness         Diet Management         Physical Activity         Medication         Surgery
Gastrointestinal Gastroesophageal Reflux Disease (GERD) Non-Alcoholic Fatty Liver Choleithiasis Hernias Colon Cancer	Meralgia Paresthetica     Psychological     Depression/Low Self Esteem     Body Image Disturbance	BMR cal/day EM 27.22 Overweight Disease Risk Level Calc Assessment Calc	Follow Up Document Information (Auto-Print) Obesity and Health Risks VM Definitions
Genitourinary Urinary Stress Incontinence Obesity-Related Glomerulopathy Hypogonadism (male)	Social Stigmatization  Respiratory  Dyspnea  Obstructive Sleep Apnea Hypoventilation Syndrome Pickwicklan Syndrome Asthma	Treatment Calc Print Assessment	Body Composition Health and Hope Childhood Nutrition Medicine, Myths, and Magic Principles of Weight Loss

- 3. Exercise hyperlink is next.
  - a. Note: It is necessary and appropriate only to complete one form of exercise prescription, not all three.
  - b. If you complete the standard Exercise prescription which is this one, do not complete the other two.
  - c. If the patient has CHF or physical limitations, complete only the CHF Exercise prescription.
  - d. If the patient has diabetes, complete only the diabetes exercise prescription.
  - e. If you inadvertently complete more than one Exercise prescription, in order to make sure that only one of them prints, click the hyperlink entitled "Which Exercise Prescription?," which is just below the Exercise/CHF Exercise hyperlinks and only the one you check in the pop-up will print on your LESS Initiative document which you will give to the patient.

LESS Exercise
Which Exercise Prescription?
<ul> <li>General Exercise Prescription</li> <li>CHF Exercise Prescription</li> <li>Diabetes Exercise Prescription</li> </ul>
OK Cancel

To properly complete the Exercise Prescription, click on Exercise:

- f. If the patient is currently exercising, complete the type, speed, duration and frequency of their exercise. Then click "calculate."
- g. This will calculate how many aerobic points they are getting each week. The standard is that they should get at least 27 a week for females and 32 for males.
- h. Then click on "running/walking/jogging," then click the calculate button. This will place on the exercise prescription a minimal goal for the patient to reach. Then click return which will take you back to the front page.

Red = Required Field	xercise Assessme	ent	a
Current Exercise Activity			Return
Running/Walking/Jogging Co	lories Outdoor Cycling	Swimming	Print Exercise Rx
Distance in Miles 5	Distance in Miles	Distance in Yards	Help Information
Minutes Exercised 57	Minutes Exercised	Minutes Exercised	(Automatically Prints)
Times per Week 4	Aerobic Units	Aerobic Units	A Heathy Woman
Clear/Reset Calculate	Clear/Reset Calculate	Clear/Reset Calculate	Any Exercise Better than None
	Ciearmeset Calculate		BMR Changing It
Units per Session 0.3			BMR Information
Units per Week 81.2 Superio	<b>9</b>		Body, Mind, and Emotions
Tennis	Rowing	Golf	Exercise and Weight Loss
C Singles C Doubles	Rate of 20 strokes per minute	Walking and Carrying Bag	Fitness and Fat
Minutes Exercised	Minutes Exercised	Holes Played	Getting Started
Aerobic Units	Aerobic Units	Aerobic Units	Getting Started Part II
Clear/Reset Calculate	Clear/Reset Calculate	Clear/Reset Calculate	Getting Started Part II
			Training for Health
Exercise Prescription			Women and Heart Disease
C Outdoor Cycling C Swimming C Tennis C Rowing	Distance in Miles 3 Duration in Minutes 45 Times per Week 4 Calculate	Units per Session 8 Units per Week 32 Fitness Classification Good	Fitness Classification         Men         Women           Very Poor         less than 10         less than 8           Poor         10-20         8-15           Fair         21-31         16-26           Oood         32-50         27-40           Excellent         51-74         41-64           Superior         75+         85+
Target Heart F Resting H Max Heart Heart Rate	eart Rate 85 Target Her Rate 217 1	art Rate Range 51 to 197 bpm	
•			

- 4. CHF Exercise hyperlink is next. If you have completed the Exercise prescription and if the patient is not severely limited, then skip this hyperlink. If the patient has serious limitations and/or has CHF, complete this exercise prescription as follows.
  - a. Click on the CHF Exercise hyperlink
  - b. Click on the Exercise Prescription hyperlink which appears on the CHF Exercise template. This creates the CHF exercise prescription document which will appear on the LESS Initiative Document.

	maximum mear crace	s below and click the "Exercise Prescription	Section in the rest of the section o
		Information	Return
Resting Heart Rate	85.00	Exercise and Heart Failure	
Maximum Heart Rate	217	Childhood and Old Age	
60-80% Maximum	130 to 173	CHF and Exercise - Patient	
		CHF and Exercise - Physician	
Exercise Pres	cription	CHF and Inactivity	

- 5. Diabetes Exercise hyperlink is next. Once again, if you have completed either the **Exercise or the CHF Exercise template do not complete this one.** If the patient is a long-standing diabetic with complications, use this template.
  - a. This is the most complex of all of the Exercise prescriptions. However, even in its complexity, it is relatively easy to use. If you follow the hyperlinks down the left hand side of the template it will guide you.

Possible Contraindications to Exercise	Conclusion Recommendation	Return
Risk Factors for CVD	Cardio Evaluation Cardio Physical Exam	Print Rx
Age > 35 and Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	The following should be performed before recommending an exercise program	
Presence of risk factors for CAD	EKG Order This Test	Diabetes and Exercise Ove
Hypertension     Obesity	Stress Test	Elderly Diabetics and Exerc Exercise and Type 2 Diabe
🗹 Dyslipidemia	Echocardiogram Stress echocardiogram	Exercise and Type 1 Diabe
Sedentary lifestyle Presence of microvascular disease	Double-Click To Order Referrals	
Estinopathy	Referring First Referring Last Referral	
PAD/PVD Peripheral Neuropathy		
Autonomic Neuropathy     Nephropathy		
Recommended Exercise Intensity Level		
C Very Light % Vo2 C Light	2 Max % Maximum Heart Rate Borg Rating Percieved Exertion	
C Moderate		
C Hard Patient	t's Max Heart Rate Target Range	
C Very Hard	bpm to bpm	

b. The first column is entitled "Possible Contraindications to Exercise," under which there are four categories:

Possible Contraindications to Exercise	Conclusion/Recommendation	Return
Risk Factors for CVD	Cardio Evaluation Cardio Physical Exam	Print Rx
Age > 35 and Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	The following should be performed before recommending an exercise program	
Presence of risk factors for CAD	EKG Order This Test	Diabetes and Exercise Ov
Hypertension     Obesity	Stress Test	Elderly Diabetics and Exer Exercise and Type 2 Diabe
V Dyslipidemia	Echocardiogram Stress echocardiogram	Exercise and Type 1 Diabe
☐ Sedentary lifestyle		
Presence of microvascular disease	Double-Click To Order Referrals	
PAD/PVD	Referring First Referring Last Referral	
Peripheral Neuropathy		
Autonomic Neuropathy		
Nephropathy L		
Recommended Exercise Intensity Level		
C Very Light % Vo2		
C Moderate		
	s Max Heart Rate Target Range	
C Very Hard	bpm to bpm	

- 1. Risk Factors for Cardiovascular Disease
- 2. Presence of Risk Factors for CAD
- 3. Presence of Microvascular Disease There are five conditions under this heading. They are:
  - a. Retinopathy

**Diabetes Exretino** 

		thy (PDR) that is active, strenuous slividuals should avoid anaerobic ex	
* straining, * jarring, or * Valsalva-like			
	slin Clinic experience, the degr dually tailor the exercise presc	ee of diabetic retinopathy has beer ription.	nused to stratify the risk of
cher of or of a function in the state			
	ate level of retinopathy bel	ow to view recommended and	non-recommended activities.
	ate level of retinopathy bel Acceptable Activities	ow to view recommended and Discouraged Activities	non-recommended activities. Occular Re-evaluation
Select the appropri	an a		
	an a		
Select the appropria No DR Mild NPDR	an a		
Select the appropria No DR Mild NPDR Moderate NPDR	an a		
Select the appropria	an a		

×

b. PAD/PVD

Diabetes Expd
PAD/PVD and Exercise
Evaluation of peripheral arterial disease (PAD) is based signs and symptoms, including
intermittent claudication
Coldness of the extremities
decreased or absent pulses <u>Neurological Exam</u> <u>Extremity Exam</u>
atrophy of subcutaneous tissues
hair loss on extremities
The basic treatment for intermittent claudication is
nonsmoking and
a supervised exercise program
The presence of a dorsalis pedis and posterior tibial pulse does not rule out ischemic changes in the forefoot. If there is any question about blood flow to the forefoot and toes on physical examination, toe pressures as well as Doppler pressures at the ankle should be carried out.
OK Cancel

Pe Neurological			x
<b>Mental Status</b> Cognitive Abilities Emotional Stability	Normal		am Motor Exam
Cranial Nerves			
Sensory Function			
Coordination	🗌 Normal		
Fine Motor Skills	🗌 Normal		
Sensory Response	Normal		
Balance & Gait	Normal		
Romberg		🗌 + Romberg	- Romberg
Superficial and Dee	ep Tendon R	eflex Right	Left
Reflexes	🗖 Normal		
Deep Reflexes	🗌 Normal		
Touch	🔲 Normal		
Vibiratory	Normal		
Comments	Bicep Tricep Patella Ankle Babinski Si Kernig's Si		+2 C +3 C +4 +2 C +3 C +4
		OK Cance	1

				Motor	Exa	m			
Upper Extremities	most			Str	ength			least	Tone
Left	C 5/5	C 4+/5	C 4/5	C 4-/5	C 3/5	C 2/5	C 1/5	C 0/5	
Right	C 5/5	C 4+/5	C 4/5	C 4-/5	C 3/5	C 2/5	C 1/5	C 0/5	[
Lower Extremities									Tone
Left	C 5/5	C 4+/5	C 4/5	C 4./5	C 3/5	C 2/5	C 1/5	C 0/5	1
Right	C 5/5	C 4+/5	C 4/5	C 4-/5	€ 3/5	C 2/5	C 1/5	C 0/5	

### Cranialnerves

## Cranial Nerves

1	Olfactory	C Intact C Not Intact	8	Acoustic	C Intact	C Not Intact	
	Each nostril si	mells familiar odors		Hears whispered voice at 2' distance Hears			
2	Optic	🔘 Intact 🔘 Not Intact		<ul> <li>watch tick at dist</li> <li>vVeber: no latera</li> </ul>			
	colour vision u	acuity WNL Red/green unimpaired Rosenbaum near eripheral vision WNL	9	<ul> <li>&gt; bone conductio</li> <li>VNL No postura</li> <li>Glossopharyng</li> </ul>	I deviation with	feet together	
3		C Intact C Not Intact		Uvula elevates at Perceives touch t	midline Gag r	eflex intact	
		erally No eyelid ptosis ye movements WNL (LR4/SO6)	10	Vagus		C Not Intact	
4	Trochlear	C Intact C Not Intact		Speaks without h swallowing or br			
	Eye movemen	t upward and downward WNL	11	Accessory	C Intact	C Not Intact	
5	Trigeminal	🔿 Intact 🔿 Not Intact		Equal bilateral shrug against resistance Turns			
		brisk bilaterally Facial sensation Slench strong Jaw moves against		head from side to against chin	) side Oppose:	s resistance	
	lateral resista	nce	12	Hypoglossal	C Intact	C Not Intact	
6	Abducens	C Intact C Not Intact		Tonque protrude:	s at midline. No	tremors,	
	Eyes move lat	erally		fasiculations of tongue No atrophy of tongue			
7	Facial	C Intact C Not Intact		Pronounces R so	und without di	fficulty	
	Eyebrow eleva symetrical Sq	tter/salty anterior tongue intact ation symetrical Frown/smile ueezes eyes shut Shows teeth e Puffs out cheeks		ок	Car	ncel	

Pe Extremity		Ex	tremit	/ Exam			×
Pulses	i t	Location lorsalis pedis posterior tibial emoral popliteal	R		L		
Skin lesions	1	Location	Lesiona	s Color	Shape	Distribution	Size(cm)
None None	     R	Xanthomata	Tendin Touch	ous Xanthomat Vibratory	a Deep tendon	reflexes	
Comments	L	ок		Cancel			

c. Peripheral Neuropathy

Periph	eral Neuropathy and Exercise
Peripheral lleuroapthy	
	in loss of protective sensation in the feet. Significant PN is an indication to limit
	e feet can ultimately lead to ulceration and fractures.
<ul> <li>Evaluation of PN can be made by</li> </ul>	/ checking the:
1. deep tendon reflexes 2. vibratory sense 3. position sense	Neurological Exam Extremity Exam Foot Exam
* Touch sensation can best be eva	aluated by using monofilaments.
1. The inability to detect sense	ation using the 5.07 (10 g) monofilament is indicative of the loss of protective sensal
Peripheral Neuropathy Present?	C Yes C No
Exercises for diabetic patients with (select those which you woul	h loss of protective sensation Id like to recommend or exclude)
Contraindicated Exercises	Recommended Exercises
🔽 Treadmill	Swimming Chair exercises
Prolonged walking	Bicycling Arm exercises
Jogging Step exercises	Rowing IV Non-weight-bearing exercises
	OK Cancel

Pe Feet			×
Normal		Foot Exam	Extremity Exam
Pulses	Right	Left	Monofilament Exam
Femoral			Risk Assessment
Popliteal			🔲 Thick nails
Posterior Tibial	-		🔲 Ingrown nails
Dorsalis Pedis			🔲 Nails too long
Peroneal Artery			Absence of hair
Doppler Exam			Abnormal shape in left foot
Posterior Tibial			Abnormal shape in right foot
Dorsalis Pedis			🔲 Skin between toes checked
Peroneal Artery			
<b>Direction</b> Posterior Tibial Dorsalis Pedis Peroneal Artery			Skin condition of feet
Cap Refill	🔲 Immediate	🔲 Delayed	Comments
Digital Hair	Present	Absent	
Dep Rudor	Present	Absent	
Clic		able to complete the foot ex Patient has bilateral amputation OK Cancel	

d. Autonomic Neuropathy

×

e. Nephropathy

Diabetes Exnephr	4
Nephropathy and Exercise	
Specific exercise recommendations have not been developed for patients with	
incipient (microalbuminuria > 20 mg/min albumin excretion) overt nephropathy (> 200 mg/min)	
Patients with overt nephropathy often have a reduced capacity for exercise, which leads to self-limitation in activity level. There is no clear reason to limit low- to moderate-intensity forms of activity.	
High-intensity or strenuous exercises should probably be discouraged in these individuals.	
OK Cancel	

On the Diabetes Disease Management Templates, the eighth button down on the right is entitled "Complications/Education."

	tes Manag pell C GDM C F	pre-Diabetes Other Diabe	tic Since (ye	Patient Jon ar) Age [	3 Sex M	Havigation © Diabetes C General
	ostic Criteria	Screening Criteria Imp Di	abetes Cor	cepts Evidenced	-Based Recs	Return
Compliance		E mail		Most Recent Labs	Check for New Labs	Diab Sys Review
Dental Care	100 C	The second se	2+C-	HaA1C	11	
Dilated Eye Exa	Concession and Conces	Contraction of the second s	· • • •		e Insulin	Diabetic History
Flu Shot Foot Exam	11	Fram, CVD 10-Yr Risk	×			Eye Exam
HobA1C	11	Fram, Stroke 10-Yr Risk	×	Contract of the Contract of Contract		Managhanan
Pneumovax	11	Global Cardio Risk		Fructosamine		Nasopharynx
Urinalysis	11	Veight Management		Cholesterol		Cardio Exam
Aspinin	C Yes C No	Hypertension Management	<u>ent</u>	LOL		Foot Exam
Statin	C Yes C No	Immunizations		HDL		
/ital Signs		Finger Stick		Triglycerides		Neurological Exam
Height 72	00 vVaist	Glucose		TriaMDL Ratio		Complications/Education
Weight 200	0.00 Hips	Pulse	85.00	Glucose		
BMI 27.	22 Chest	Blood Pressure	e	Fasting		Initiating Insulin
Body Fat %	Abdomer	n 120	/ 75	Insulin		Lifestyle Changes
Protein Reg 105	Ratio	and a straight and a straight and a straight	Diabetics	HOMA-IR		Diabetes Plan
BMR	BER		Over Time	Na		
			Pret time	к		Education Booklet Given On
Current SQ Ins	ulin Dose as of	/ / Blood Sugars		Magnesium		11
me of day Units	: Type Unit	s Type mg/dl		BUN		Diabetes Education
and the second sec				Creatinine	11	CHARGED LONGARDIT
			Diary	UMicroalbumin		Last DE //
			- 10- 1	Albumin/Creat	11	
				Urinalysis	Labs Over Time	

If the diabetic complications were documented there, they will automatically note which of the five categories of complications are positive in this patient. You will then be able to click on that hyperlink and assess how that particular complication limits the physical activity of this patient.

- 1. Recommended Exercise Intensity based on the recommendations from the result of the first three sections of the Diabetes Exercise Templates, you will select an intensity of exercise, which will then add the following to the patient's exercise prescription:
  - a. %VO2Max
  - b. %Maximum Heart Rate
  - c. Borg Perceived Exertion the exercise prescription will explain this concept and how to use it.
  - d. Patient's Maximum Heart Rate
  - e. Target Heart Rate Range

and the second	tes and Exercise	
Possible Contraindications to Exercise Risk Factors for CVD	Conclusion Recommendation	Return
Age > 35 and	Cardio Evaluation Cardio Physical Exam	Print Rx
Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	The following should be performed before recommending an exercise program	
resence of risk factors for CAD	EKG Order This Test	Diabetes and Exercise Overvie
Hypertension     Obesity	Echocardiogram	Elderly Diabetics and Exercise Exercise and Type 2 Diabetes
Dysipidemia Sedentary lifestyle	Stress echocardiogram	Exercise and Type 1 Diabetes
resence of microvascular disease	Double-Click To Order Referrals	
PAD/PVD	Referring First Referring Last Referral	
Peripheral Neuropathy		
Autonomic Neuropathy     Nephropathy	×	
ecommended Exercise Intensity Level		
Very Light % Vo2	Max % Maximum Heart Rate Borg Rating Percieved Exertion	
C Light C Moderate	to	
	s Max Heart Rate Target Range	
C Very Hard	bpm to bpm	

2. Then click on the button labeled Print Rx. This will make all of the Diabetes Exercise Prescription material print on the LESS Initiative document.

Diabe	tes and Exercise	
Possible Contraindications to Exercise Risk Factors for CVD Age > 35 and Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	Conclusion Recommendation Cardio Evaluation Cardio Physical Exam The following should be performed before recommending an exercise program	Print Rx
Presence of risk factors for CAD Hypertension Obesity Dyslipidemia Sedentary lifestyle	EKG <u>Order This Test</u> Stress Test      Echocardiogram      Stress echocardiogram	Diabetes and Exercise Overvie Elderly Diabetics and Exercise Exercise and Type 2 Diabetes Exercise and Type 1 Diabetes
Presence of microvascular disease           Retinosativy           PAD/FVD           Perioheral Neuropathy           Autonomic Neuropathy           Nephropathy	Double-Click To Order Referrals           Referring First         Referring Last           Image: Click To Order Referral         Image: Click To Order Referral	
Recommended Exercise Intensity Level	Max % Maximum Heart Rate Borg Rating Percieved Exertion toto 's Max Heart Rate Target Range bpm totobpm	

- 3. There are several other features on the Diabetes Exercise Template, which are:
  - a. Conclusion and Recommendation often, before a diabetic should exercise, certain testing should be obtained.

Possible Contraindications to Exercise	Conclusion Recommendation	[ management of the second sec
	Conclusion Recommendation	Return
Risk Factors for CVD	Cardio Evaluation Cardio Physical Exam	Print Rx
Age > 35 and	Sarah Frankanan Sarah Frankarevan	
Type 2 Diabetes > 10 years	The following should be performed before	
Type 1 Diabetes > 15 years	recommending an exercise program	the second s
Presence of risk factors for CAD	F EKG Order This Test	Diabetes and Exercise Overvi
T Hypertension	Stress Test	Elderly Diabetics and Exercise
Cobesity	Echocardiogram	Exercise and Type 2 Diabetes
Dystipidemia	Stress echocardiogram	Exercise and Type 1 Diabetes
Sedentary lifestyle		the second s
resence of microvascular disease	Double-Click To Order Referrals	
Retinopathy	Referring First Referring Last Referral	
PAD/PVD		
Peripheral Neuropathy	<b>H</b>	
Autonomic Neuropathy		
Mechropathy		
lecommended Exercise Intensity Level		
C Very Light % Vo2	Max % Maximum Heart Rate Borg Rating Percleved Exertion	
C Light	to	
	s Max Heart Rate Target Range	
C Very Hard		
C Maximal	bpmtotopm	

b. The appropriate tests and/or referrals can be ordered from this template.

Diabe	tes and Exercise	
Possible Contraindications to Exercise Risk Factors for CVD Age > 35 and Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	Conclusion Recommendation Cardio Evaluation Cardio Physical Exam The following should be performed before recommending an exercise program	Print Rx
Presence of risk factors for CAD Hypertension Obesity Dyslipidemia Sedentary lifestyle	EKG <u>Order This Test</u> Stress Test      Echocardiogram      Stress echocardiogram	Diabetes and Exercise Overviev Elderly Diabetics and Exercise Exercise and Type 2 Diabetes Exercise and Type 1 Diabetes
Presence of microvascular disease	Double-Click To Order Referrals Referring First Referring Last Referral	
Recommended Exercise Intensity Level  Very Light % Vo2 Light Moderate Hard Patient Very Hard Maximal	Max % Maximum Heart Rate Borg Rating Percieved Exer toto	tion Click in this area to launch the Referra template
Diabe	tes and Exercise	
Possible Contraindications to Exercise	Conclusion Recommendation	Return
Risk Factors for CVD Age > 35 and Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	Cardio Evaluation Cardio Physical Exam The following should be performed before recommending an exercise program	Print Rx
Presence of risk factors for CAD	EKG Order This Test	Disbetes and Exercise Overvie Elderly Diabetics and Exercise

PAD/PVD Peripheral Neuropathy Autonomic Neuropathy		•	١
Nephropathy mmended Exercise Inte			
C Very Light	% Vo2 Max	% Maximum Heart Rate	Borg Rating Percieved Exertion
C Light C Moderate		to	
C Hard	Patient's Max Hea	rt Rate	Target Range
C Very Hard	bpm		to bpm
C Maximal			

Double-Click To Order Referrals

Referring First Referring Last Referral

### Click here to learn How to Complete a Referral

Sedentary ifestyle
 Presence of microvascular disease
 Retinocathy

c. Also, there are four documents on this template concerning diabetes and exercise.

Diabel	tes and Exercise	
Possible Contraindications to Exercise Risk Factors for CVD Age > 35 and Type 2 Diabetes > 10 years Type 1 Diabetes > 15 years	Conclusion Recommendation Cardio Evaluation Cardio Physical Exam The following should be performed before recommending an exercise program	Return Print Rx
Presence of risk factors for CAD Hypertension Obesity Dystipidemia Sedentary lifestyle	EKG Order This Test     Stress Test     Echocardiogram     Stress echocardiogram	Disbetes and Exercise Overvi Elderly Diabetics and Exercise Exercise and Type 2 Diabetes Exercise and Type 1 Diabetes
Presence of microvascular disease           Retinocativy           PAD/PVD           Perinheral Neuropathy           Autonomic Neuropathy           Nephropathy	Double-Click To Order Referrals           Referring First         Referring Last         Referral           •	5
Recommended Exercise Intensity Level  Very Light % Vo2 Light Moderate Hard Patient Very Hard Maximal	Max % Maximum Heart Rate Borg Rating Percieved Exertion to	n

d. Then click on "Return" to take you back to the LESS Initiative Template.

Red = Required Field	cilioning c			
Patient currently Check here if pa	tient has qutil	Patient exposed to second hand smoke at home or work?	C Yes C No	Return
Pipe? Smokeless Toba	C Yes C No C Yes C No	Has the patient committed to quit?	C Yes C No	Pharmacotherapy
Date stopped sn		On what date did they commit?	11	
Packs per day?	1 Years? 2	What is the goal stop date?		Document
Ask	T At every visit, ask all patients a	about tobacco use, and document thei	r response.	Information
		I tobacco or who stopped using it yea	rs ago do not	General Information
	need repeated assessments.			Process of Gutting Smoking
Advise	to quit. Men who smoke c	trong, and personalized manner, that ut their lives short by 13,2 years ose 14,5 years of life	you urge them	Second Hand Smoke
Assess	Find out whether patients are	willing to quit now or at least within the	e next 30 days.	
Assist	Help patients plan to quit by			
	setting a date	anticipating challenges su		
	reviewing past attempts to		toms	
	providing practical counse     Prescribe pharmacotherapy.	ing urging total abstinence		
	Provide educational materials of	in smoking cessation.		
rrange Follow-Up		gh risk of relapse, particularly during t w up in person or by telephone durin		
	Email Tickler File Sche	duled Date?		

4. Smoking Cessation – this is the sixth hyperlink

- a. Every patient must be confronted about whether they smoke and/or whether they are exposed to second hand smoke (also called environmental or side-stream smoke)
- b. The first section of this template involves smoking and environmental smoke.
  - 1. There are five questions on each of these subjects in two columns.
  - 2. All questions must be answered.
- c. The second section consists of four steps of action to help the patient make the decision to stop smoking.
  - 1. Ask
  - 2. Advise
  - 3. Assess
  - 4. Assist
- d. The third section of this template is entitled "Arrange Follow-up"
  - 1. Function to establish an electronic tickler file is present
  - 2. Send your unit clerk and yourself an e-mail by clicking on the hyperlink "email tickler file."
  - 3. Follow the instructions for sending the e-mail and delaying the delivery for one month.

Smoking	Cessation Pharmacotherapy
	early meets all criteria for a drug dependence disorder, the guideline priate to reserve pharmacotherapy until patients have tried to guit on unsided guit attempts fail.
First-Line Pharmacotherapies	Second-Line Recommended Therapies
Bupropion, sustained-release (SR)	Although clonidine and nortriptyline can be effective for treating tobacco
Nicotine patch	dependence, they are not FDA approved for this indication and side effects may be greater than with first-line treatments. They should only
Nicotine polacrilex (gum)	be considered when first-line therapies have failed or are contraindicated.
Nicotine Inhaler	
Nicotine nasal spray	Clonidine Nortriptyline
Nicotine Ionzenge	
	Prescribing Pharmacotherapies
Avoid Pharmacother	rapy Safety, Weight Gain, Women Drug Dosing

e. If the patient requires pharmacological treatment for smoking cessation, and most will, the provider can access the information on the drugs used in smoking cessation by clicking on the "Pharmacotherapy" button to the right of the template.

Dm Hp	ot Tickler	×
	Creating an Electronic Tickler File	
	1. Open Microsoft Outlook by clicking on the E-mail button.	
	<ol><li>Address the e-mail to your unit clerk, your nurse and yourself.</li></ol>	
	3. Click on the "Options" button at the top/right of the Microsoft Outlook bar.	
	4. Find "Delivery Options" on the "Options" pop-up.	
	5. Click on the "Do Not Deliver Before."	
	<ol><li>Select a date, preferably a Monday one month hence.</li></ol>	
	7. Close the "Option" pop-up.	
	<ol> <li>Send your e-mail, it's delivery will be delayed for one month, at which time it will appear on your unit clerk's, your nurse's, and your own desktop.</li> </ol>	
	OK Cancel	

f. Once you have done the e-mail tickler file, click on return.

<ol> <li>Open Microsoft Outlook by clicking on the E-mail button.</li> <li>Address the e-mail to your unit clerk, your nurse and yourself.</li> <li>Click on the "Options" button at the top/right of the Microsoft Outlook bar.</li> <li>Find "Delivery Options" on the "Options" pop-up.</li> <li>Click on the "Do Not Deliver Before."</li> <li>Select a date, preferably a Monday one month hence.</li> <li>Close the "Option" pop-up.</li> <li>Send your e-mail, it's delivery will be delayed for one month, at which time it will appear on your unit clerk's, your nurse's, and your own desktop.</li> </ol>	Creating an Electronic Tickler File
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<ol> <li>5. Click on the "Do Not Deliver Before."</li> <li>6. Select a date, preferably a Monday one month hence.</li> <li>7. Close the "Option" pop-up.</li> <li>8. Send your e-mail, it's delivery will be delayed for one month, at which time</li> </ol>	3. Click on the "Options" button at the top/right of the Microsoft Outlook bar.
<ol> <li>Select a date, preferably a Monday one month hence.</li> <li>Close the "Option" pop-up.</li> <li>Send your e-mail, it's delivery will be delayed for one month, at which time</li> </ol>	4. Find "Delivery Options" on the "Options" pop-up.
<ol> <li>Close the "Option" pop-up.</li> <li>Send your e-mail, it's delivery will be delayed for one month, at which time</li> </ol>	5. Click on the "Do Not Deliver Before."
8. Send your e-mail, it's delivery will be delayed for one month, at which time	6. Select a date, preferably a Monday one month hence.
	7. Close the "Option" pop-up.
	OK Cancel

Conclusion

- When you are back at the LESS Initiative Template, click the button entitled "document," which is the second button in the right hand column on the template.
- This creates a document which will contain:
  - 1. All of the material on the LESS template
  - 2. All of the material on the Weight Management Assessment
  - 3. All of the material on the Exercise Prescription which you chose
  - 4. All of the appropriate material from the Smoking Cessation template, if any.



Age:	73 years
Date:	06/23/2005 9:15 AM
	-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 the good news is that a person can help decrease their risk without attaining their ideal body weight.
Risk Fac	tors for Developing Diabetes
You h	History? o not have a family history of Type II Diabetes which does not represent a risk factor for the development of diabetes. ave a family history of hypertension which increases your risk of developing diabetes. ave a family history of hyperlipidemia which increases your risk of developing diabetes.
You h Bit Bit You h developin	sight/Obese? ave abnormal body composition indicators which increase your risk of developing diabetes. M - 00 dy Fat - 31.2 % ave an elevated waist circumference which indicates adiposity in the abdominal area which increases your risk of g diabetes. aist Circumference - 40.00 inches
3. Did Yo	a Have A Low Birth Weight?

Your birth weight is normal and does not represent a risk factor for the development of diabetes

Test IBM Serv AAA

01/11/1932

DOB:

• This document automatically prints to your default printer.

Explaining the LESS Initiative to your patient

- Now that you have this wealth of information in your hands, you need to get it to the patient.
- If you simply hand it to them, most will not read it, but if you introduce it and then if you follow-up at your next visit and ask if they understood the material, you will increase its usefulness.
- Here is a suggested introduction of the LESS Initiative to your patient:
  - "This is SETMA's LESS Initiative. We give this to every patient we see. LESS stands for "lose weight, exercise and stop smoking and/or avoid second-hand smoke." No matter what your age or health, these are the three most important things you can do for yourself.

Please read this. Ask your healthcare provide why this is important; he/she will be happy to discuss this with you. And, the next time I see you, I would like to know if you have been successful in losing weight, exercising and avoiding tobacco smoke."

		201	11		201	LO	200	)9
		Total Seen	LESS (%)	٦	Total Seen	LESS (%)	Total Seen	LESS (%)
Anthony	Jeffrey	2908	95.3		3629	89.1	3673	89.7
Anwar	Syed	3897	96.7		4068	79.4	3864	57.3
Aziz	Muhammad	3606	96.0		3421	87.0	3661	75.9
Cricchio	Michael	3423	88.7		3123	87.5	2836	94.0
Curry	Marissa	2365	94.0		2534	93.8	2693	94.2
Deiparine	Caesar	4223	92.8		3257	88.7	0	0.0
Duncan	Norma	3871	91.6		3786	78.4	3593	29.5
Halbert	Dean	4801	84.8		4649	84.0	4697	72.0
Henderso	Dana	3508	95.4		3471	93.5	3464	79.0
Holly	James	606	99.0		1114	94.6	1457	95.3
Leifeste	Alan	2959	84.4		2926	95.5	2903	93.0
Murphy	Vincent	4574	93.6		4352	82.2	4956	76.4
Palang	Ronald	2764	78.4		0	0.0	0	0.0
Qureshi	Absar	2535	92.8		453	97.6	0	0.0
Satterwhi	Kelli	1475	96.6		1933	84.6	2968	85.6
Thomas	Michael	1595	84.1		3216	71.8	2203	67.0
Vardiman	John	2785	96.5		869	96.0	1597	85.5
Wheeler	Marcella	3099	95.0		3191	88.5	3078	94.6
TOTAL		54994	93.4		49992	86.1	47643	77.3



SETMA I - 2929 Calder, Suite 100 SETMA II - 3570 College, Suite 200 SETMA West - 2010 Dowlen (409) 833-9797 www.jameslhollymd.com

## SETMA's LESS Initiative

Patient: DOB: 04/12/1961 Age: 50 years

Date: 01/04/2012 7:52 AM

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 the good news is that a person can help decrease their risk without attaining their ideal body weight.

You are 23 pounds overweight which places you at a higher risk for developing diabetes. If you lose 17 to 26 pounds, you will significantly reduce your risk of developing diabetes.

#### **Risk Factors for Developing Diabetes**

1. Family History?

You have a family history of Type II Diabetes which increases your risk of developing diabetes. You have a family history of hypertension which increases your risk of developing diabetes. You have a family history of hyperlipidemia which increases your risk of developing diabetes.

2. Overweight/Obese?

Your weight is normal and does not represent a risk factor for the development of diabetes. BMI - 27.06 Body Fat - 19.1 % Your waist size is normal and does not represent a risk factor for the development of diabetes.

4. Blood Pressure?

Blood Pressure - 116 / 76 mmHg Your blood pressure is normal and does not represent a risk factor for the development of diabetes.

5. Abnormal Lipids?

Cholesterol - 210 mg/dL HDL - 56 mg/dL Triglycerides - 53 mg/dL You have abnormal lipids values which increase your risk of developing diabetes.

6. Non Caucasian Ethnicity?

Your ethnicity (Caucasian) does not represent a risk factor for the development of diabetes.

#### Conclusion

Based on your age, body composition indicators (BMI or body fat), and the risk factors listed above 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.

#### Plan

We will provide you with follow-up counseling to help you stay on track towards health lifestyles. We will monitor you annually for the development of diabetes.



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# Weight Management Assessment

 Patient:
 50 Years

 Age:
 50 Years

 DOB:
 04/12/1961

Assessment Date: 02/24/2011

Your BMI is 27.06 and your waist size is inches. According to the "Classification of overweight and obesity by BMI and waist size" you are overweight which carries with it an Increased level of disease risk.

Based on your current level of activity, your Basal Metabolic Rate (BMR) is 2312 calories per day. This is the number of calories you will need to maintain your current body weight if you are moderately active. Your BMR is based on your height, your weight, your activity level, and your age.

Your current body fat percentage is 19.1 percent. Because it takes only 3 calories per day to maintain fat and because muscle utilizes 35 calories per day, if you lose fat and gain muscle, your BMR will actually go up, making it easier for you to maintain your body weight. Your current weight is 155 pounds. Five percent of your body weight is 7. If you lose 7 pounds of fat through diet and exercise, and if you gain 7 pounds of muscle through strengthening, your BMR will go down 3 calories per pound of fat lost or 21 calories and your BMR will go up by 35 calories per pound of muscle gained or 245 calories for a net change in your BMR of 224 calories.

This means that if you do not take in more calories than you needed to maintain your previous weight, you will lose a pound every 15 days.

As you can see, you don't have to get down to your ideal body weight before you start experiencing benefits from the changing of your body composition by exercise, calorie reduction and strengthening exercises. A five to ten percent change in your body composition, either in fat loss and/or muscle gain, begins to benefit you immediately.

In order to eliminate weight as a negative factor in your health, you need to lose 3.0 pounds of body fat.



# **Exercise Prescription**

Patient: DOB: 04/12/1961 Sex: M

Today's Date: 01/04/2012

"Those who think they have not time for bodily exercise will sooner or later have to find time for illness." - Edward Stanley, Earl of Derby (from Conduct of Life, address to Liverpool College, 20 December, 1873)

Fitness Classification	Men	Women
Very Poor	less than 10	less than 8
Poor	10 - 20	8 - 15
Fair	21 - 31	16 - 26
Good	32 - 50	27 - 40
Excellent	51 - 74	41 - 64
Superior	75+	65+

### **Recommendations for Weekly Aerobic Units**

#### Your exercise should include:

**Strengthening of your muscles** (upper and lower body) -- use weights that are a comfortable size for you and do multiple repetitions rather than one or two liftings of weights you can barely move. The object is to tone and strengthen your muscles, increasing your lean body mass, improving your basal metabolism rate, rather than building big muscles. For weight control, this is the most important part of your exercise regimen. Strengthening exercises should be done four to six days a week, rotating from upper to lower body muscles from day to day. Repeating lifting to fatigue without injury is the best way to gain lean body mass and muscle strength.

**Stretching of your muscles** -- nothing will contribute more to the decrease of injury than stretching. You should not stretch to the point of injury, but you will stretch to the point of discomfort. Once your muscle is stretched out do not stress it by bouncing against it or trying to go further. Hold the muscle in the stretched position for sixty seconds. Stretching should be an everyday exercise. It does not require any equipment, except possibly for an elastic band.

**Striking of your muscles** (jogging, walking, running, cycling, swimming, etc) -- this is where the capacity to use oxygen, particularly the heart muscle, is increased. This is called aerobic capacity. If you are contemplating a conditioning program, SETMA's cardiopulmonary physiology test is an excellent way to

establish your baseline and to determine how you are progressing. Ask about it. Aerobic activities should be done at least three days a week and preferably five.

# Recommended Minimum Exercise

Walking/Jogging/Running Distance: 3.0 miles Duration per Session: 45.0 minutes Aerobic Units per Session: 8.0 units

This recommended amount of exercise 4 times per week will give you a total of 32.0 aerobic units each week. This will place you in a "good" aerobic conditioning category.

# 10,000 Steps a Day

## The Amish and Activities of Daily Living

A study of Amish men and women was published in the journal Medicine and Science and Exercise in January, 2004. The result of a project at the University of Tennessee, the study documented that Amish men are six times more active than the average American. While the average American takes 2-3,000 steps a day; Amish men take an average of 18,425 steps a day and Amish women take an average of 14,196 steps a day. One Amish man took over 51,000 steps in a day, which is equivalent to walking 25 miles.

What is the result? The Amish have a 4% incidence of obesity and 26% were overweight as opposed to a 31% obesity and 64% overweight in the general American population. And, this is in spite of the very high-calorie, high-fat-content diet which the Amish typically consume.

## Activities of Daily Living and Exercise

Can something as simply as walking further to get the mail or the newspaper make a difference in your health? Absolutely! In another study published in the May, 2004 issue of Medicine & Science and Exercise, the official journal of the American College of Sports Medicine, it was reported that middle-aged women who took at least 10,000 steps per day on average were much more likely to fall into recommended ranges for measures of body composition such as total body weight and body fat percentage. Conversely, inactive women those taking fewer than 6,000 steps per day were more likely to be overweight or obese and have higher waist circumferences, a strong predictor of increased risk of cardiovascular disease.

Middle-aged women who accumulate more daily steps have a more favorable body composition profile. This is the first study to specifically examine the relationship between average accumulated steps per day and body composition variables in women who are in their middle years. In the study, eighty women between the ages of 40 and 66 were first weighed and measured, then instructed to wear pedometers for one week and log the number of steps taken each day. They were asked to follow their typical work and leisure routines during the one-week period. Researchers classified the participants into groups of:

- \* Inactive (6,000 or fewer average daily steps),
- \* Somewhat active (6,000 9,999) and
- \* Active (10,000 or more)

They then analyzed body mass index (BMI), body fat, and waist and hip circumference. The study showed a significant inverse correlation between average steps and each of these measurements. On average, those in the active category had only 26 percent body fat and were within the recommended BMI range while those in the inactive group had a body fat percentage of 44 percent and fell well into the overweight category for BMI.

Researchers point out the public health implications of the evidence, particularly the apparent benefit of accumulating steps throughout the day. Although dietary intake is of equal importance, the investigators suggest that this evidence may eventually lead to the establishment of a standard volume of daily walking for middle-aged women that may help to prevent unhealthy weight gain.

These "step" recommendations are not complicated by heart rate monitors or by stop watches or distance measurements. They are simply a means of documenting that you are "moving."

Get a Pedometer (a device which documents how many steps you take in a day) and increase your activity to 10,000 steps a day. It works as well as "going to the track or to the gym.

## Steps Per Day

Ways to increase steps per day:

- 1. Park further away from buildings
- 2. Take the stairs
- 3. Walk to the store
- 4. Take the long way to where you are going
- 5. Mow your yard with a mower that you walk behind rather than ride
- 6. Find excuses to go up and down the stairs at home rather than looking for ways to avoid steps
- 7. Walk the golf course rather than ride
- 8. Walk around to a colleague's office rather than calling
- 9. Get out and walk into the post office rather than using the drive up window
- 10.Schedule time each day for a 30-60 minute walk

Remember, the more you walk, the healthier you will be. And, if you decrease your calorie intake by 100 calories per day (that's an apple a day less intake) and increase your steps by 10% every two weeks, you will lose 20 pounds in a year without trying.

# Target Heart Rate

Your Maximum Heart Rate is 170 beats per minute. Your Resting Heart Rate is 68 beats per minute. Your Heart Rate Reserve is 102 beats per minute.

Your **Target Heart Rate Range** is 119 to 154 beats per minute.

To achieve a training effect, i.e., to improve your aerobic capacity, you should exercise so as to have your heart rate between the two values given above. You should not exceed the maximum heart rate without having had a thorough cardiac evaluation. In order to raise your heart rate, you will need to begin your exercise slowly and then gradually increase your speed and/or distance in order to achieve your "target heart rate range." Obviously, there is some incremental training effect the higher your heart rate, but the greatest benefit is achieved by going from a sedentary life style to a regular exercise program within the "target heart rate range" even if it is at the lower end.

As you exercise within your "target heart rate range," you will be strengthening your heart, your muscles and improving your breathing capacity. Your goal should be to exercise for 30-60 minutes 3-5 times a week with your heart rate in your "target heart rate range."

The aerobic points which you achieve each week will help you judge your distance and speed. Your "target heart rate range" will help you judge the benefit your cardiovascular system is realizing from your effort.

# Exercise Stress Level

I would also like for you to report how "stressful" your exercise is by the following scale.

During the exercise you are to rate your perception of exertion. Use this scale where 6 means no exertion at all and 20 means a totally maximum effort. The 13 on the scale is a somewhat heavy exercise but capable of being performed at steady state (i.e., anaerobic threshold). When at a level of 17 the effort level requires you to push yourself hard even though it is possible to continue for some time.

Try to appraise the feeling of exertion as honestly as possible. Do not underestimate nor overestimate it. It is of no value to underestimate the level to produce an impression of being "brave" or "tough". Your own feeling of effort and exertion is all that is of interest. Look at the scale and wordings and decide on the word that best describes your effort level and the number alternative associated with that description.

## Borg's Ratings of Perceived Exertion (RPE)

- 6 No exertion at all
- 7-8 Extremely light (very, very light)
- 9-10 Very light (warm-up/recovery)
- 11 Light 12-13 Moderate
- 12-13 Moderate 14-15 Hard (400 m swimming pa
- 14-15 Hard (400 m swimming pace)
- 16-17 Very hard (200 m swimming pace]
- 18-19 Extremely hard (very, very hard, 25-50 m pace)
- 20 Maximum all-out effort with absolutely nothing being held in reserve

## Anaerobic Threshold

It is useful to note that the anaerobic threshold will typically be found in the 12-15 levels and most often around the 13. Remember, the anaerobic threshold is the point at which your body's energy needs are no longer met by oxygen consumption and you begin to produce energy by the metabolism of Pyruvate into Lactate. The anaerobic threshold will vary from individual to individual depending on their conditioning. If an individual is poorly conditioned, the anaerobic threshold may be reached at as low as 50% of the maximum heart rate. If they are athletically fit, the anaerobic threshold may be reached at as high as 90% or higher of the maximum heart rate.

Remember, it is important not only to stress your heart and leg muscles but also your tendons and ligaments by stretching and all of your muscles by targeted exercise for each muscle group. There is no "pill," "prescription," or "procedure" which can be given to you which will do you as much good as exercise. Get started and keep going. Good luck."

# Wellness Continuum of Conditioning

The wellness continuum consists of three areas of physical well-being

- \* health,
- \* fitness, and
- \* performance.

We need to keep in mind that we're not all going to have the same goals. This is why your friend, who's a veteran marathoner, might complain about what kind of "shape" he or she is in, while you would kill to look the way they do and be so fit and healthy. The health area covers those training zones that promote health but don't primarily improve physical fitness and certainly not performance.

\* To measure improvements in health, we seek positive changes in blood pressure, body fat, cholesterol, etc.

\* To measure improvements in fitness, however, it's positive changes in oxygen utilization, lactate concentrations and heart rate points we're looking for.

\* To measure improvements in performance, positive changes in completion times, accuracy of movement skill, mental attitude, and other indices are used.

#### Established Zones

Using the knowledge above, we can establish zones of exercise which will either improve our health, fitness or performance. There are five zones.

	Zone	Name	Perceived Exertion Difficulty	Heart Rate Range
			(see Borg's scale above)	
	Zone 1	Healthy Heart Zone	Perceived Exertion is 10-11	85 to 102 bpm - Health
Zone		·		
	Zone 2	Temperate Zone	Perceived Exertion is 12-13	103 to 119 bpm
	Zone 3	Aerobic Zone	Perceived Exertion is 14-15	120 to 136 bpm - Fitness
Zone				
	Zone 4	Threshold Zone	Perceived Exercise is 16-17	137 to 153 bpm
	Zone 5	Redline Zone	Perceived Exertion is 18-20	154 to 170 bpm -
Performance Zone				

#### The Wellness Continuum and the Five Heart Zones

Zones use time, not distance, as their measurement tool. That is, the amount of time you spend in the zone is the way you measure your workout, not in miles run, or the number of strokes per minute cycled or rowed. This measurement is called "time in zone" and is measured in the minutes that you spend in each zone. For example, one day you decide to run for 30 minutes in the Aerobic zone; the following day you might choose to walk for 50 minutes in your Fat Burning zone. Varying your workouts, both in activity and zone, allows you to get multiple benefits from your training.

At the lower zones--or "cruise" zones as they are sometimes called--you can train in zone for longer periods of time. But, as you move up to higher intensity zones, you need to decrease the amount of time that you spend in that zone, particularly in the top two, the Anaerobic and Redline zones. This simply makes sense-you can walk farther than you can sprint, and overdoing it is nearly a guarantee of injuries or burnout.

Your five heart rate zones are specific to your maximum heart rate, not anybody else's. The numbers given above are for you, not someone else. With two runners, each maintaining a heart rate of 160 bpm, one might well be in their Threshold Zone and the other may be in their Temperate Zone. It's all relative.

Each heart zone burns a different number of calories per minute based on how fit you are.

Zone 5	20+ calories per minute
Zone 4	17-20 calories per minute
Zone 3	12-17 calories per minute
Zone 2	7-12 calories per minute
Zone 1	3-7 calories per minute

You'll burn a different ratio of fat to carbohydrates in each of the heart zones.

One of the foundation principles of heart zone training is that we need to train in different heart zones to get different benefits. There is no one "training zone". There is no one "target zone". Those are old training concepts that have been shown not to fit with the way the body really trains. In fact, there are multiple zones that provide multiple and varied benefits. Train in the zones that most fit your goals: health, fitness or performance.

### Heart Rate Zones

**Zone 1 (50 - 60% of MHR)** - The lowest level you can exercise in and still increase fitness levels. For beginners or people who have not exercised for a long period of time. This zone can be for just improving your overall health. It can also be a good recovery zone for people who are over-training and need to take a break. This mode is also good for people who want to lose weight as the main source of fuel used by the body is fat stores.

**Zone 2 (60 - 70% of MHR)** - This is the zone where the heart begins to benefit. Training in this zone will begin improve your hearts ability to pump blood and improve the muscle cells ability to utilize oxygen. In this zone stored body fat is the primary source of energy utilized hence this zone is referred to as the weight management zone. This is a good zone for long slow distance exercise as the body becomes more efficient at feeding the working muscles more efficiently especially with fat as the main fuel source.

**Zone 3 (70 - 80% of MHR)** - This zone is the most effective for overall cardiovascular fitness and is often called the "aerobic zone" or "target heart rate zone". This is the optimal zone to workout in to increase your cardio-respiratory capacity or the bodies ability to transport oxygenated blood to the muscle cells and carbon dioxide away from the cells. After a while you will be able to cover more distance during workouts in less time. Your body will burn less glucose and more stored fat as fuel thereby working more efficiently. This zone is also effective for increasing overall muscle strength.

**Zone 4 (80 - 90% of MHR)**(85-90%= Anaerobic Threshold) - this level is where you cross over from aerobic training to anaerobic training which is called the anaerobic threshold or AT. This is the point where the body cannot effectively remove lactic Acid from the working muscles quickly enough. Lactic Acid is a by product of glycogen consumption by the working muscles. This zone is primarily for people who want to increase their performance levels. You would characterize this zone as hard. During this zone your muscles are tired, your breathing is heavy and your fatigued. The benefit of training in this zone is you can increase your bodies ability to tolerate and deal with lactic acid for a longer period of time as the enzymes in your muscles responsible for anaerobic metabolism are increased. For competitors it is good to know your anaerobic threshold as many fit athletes can compete at or about their anaerobic threshold.

**Zone 5 (90 - 100% of MHR)**(VO2 Max) - You will only be able to train in this zone for short periods of time. You should not train at this level unless you are very fit. In this zone lactic acid develops very quickly as you are operating with oxygen debt to the muscles The value of training in this zone is you can increase your fast twitch muscle fibers which increase speed. You will not be able to stay at this level very long and should be used in intervals or sprinting work at the track.AC

# **Deciding Where to Start and How**

If you are a beginner with the goal of improving overall fitness, losing weight or reducing stress, exercise at 50-60 percent of your maximum heart rate.

- 1. If you already exercise regularly but are aiming to lose body fat, exercise at 60-70 percent of maximum heart rate. Build up to a work out of an hours continuous exercise.
- 2. If your goal is to improve aerobic capacity or athletic performance, exercise at 70-80 percent of your maximum heart rate.
- 3. Competitive athletes may need to add interval training sessions during the week by training at 80-90 percent of maximum heart rate. This high intensity exercise helps train muscles to handle lactic acid.

Train sparingly at higher heart rates. Exercising regularly at a heart rate intensity that is too high does not produce additional aerobic benefits and increases the possibility of an athletic injury. Interval training and anaerobic threshold workouts require a high degree of fitness, and is not necessary for general fitness training.

Once you determine your individual training zones, you can easily program them into your heart rate monitor. Your monitor will notify you with a beep if you are exercising above or below the pre-programmed zones. Many heart monitor models record time spent in your heart rate target zone. You can then evaluate your exercise after each session and adjust your intensity if needed. Recording heart rate also allows you to monitor your fitness improvements over time.

# Tips on Effective Training

**Warm up & cool down.** Always do a slow warm up of 5-10 minutes, followed by some gentle stretching. Then gradually climb into the target range you have set. End every workout with a 5-10 minute cool down, again followed by some gentle stretching. The importance of this can not be over emphasized. Studies have shown that people who warm up and cool down adequately have fewer athletic injuries.

**Type of Exercise.** Choose activities that use large muscle groups and which are continuous in nature. Some good examples are walking, swimming, running, aerobic dance, stair climbing machines, ski machines, treadmills, cycling or exercise bikes. Feel free to include more than one activity - cycle one day, swim the next, and do aerobics on the third. This is called Cross Training and helps exercise all muscle groups, reduces boredom and keeps motivation high.

**Frequency of exercise.** Exercise in the target range that you have set at least 3-5 times per week, with no more than 48 hours between sessions. Even on 'rest days' gentle exercise such as a leisurely walk can be beneficial.

**Intensity of exercise.** Select an exercise intensity zone that is both within your capability and in which you can achieve consistency. Studies show that people who exercise at too high an intensity, especially in the initial stages of their program, drop out sooner, have more injuries, and tend to develop a negative impression towards exercise in general. If necessary start in a low exercise intensity zone and build up.

**Time exercising.** Aim for 20-60 minutes of continuous exercise in your target zone each session. If you are unable to exercise for 20 minutes initially, slow down and gradually build up to this.

Before you begin your exercise program, get an assessment of your overall fitness level. You must get clearance from your doctor that it is safe for you to exercise.



# **Smoking Cessation Document**

Patient: Sex: M DOB: 04/12/1961

The patient currently smokes.

The provider has taken the following measures to educate the patient about smoking cessation.

### Ask

At every visit, ask all patients about tobacco use, and document their response. Patients who have never used tobacco or who stopped using it years ago do not need repeated assessments.

### Advise

Advise

## Assess

Find out whether patients are willing to quit now or at least within the next 30 days.

## Assist

Help patients plan to quit by... Prescribe pharmacotherapy. Provide educational materials on smoking cessation.



# **Smoking - General Information**

It is no surprise to physicians that the Surgeon General's latest report states that smoking affects every organ system. The tobacco cessation guideline from the USPHS that recommends nicotine replacement therapy or bupropion for nearly all patients who smoke remains an effective strategy.

Forty years after the first report on smoking and health, in May 2004, the US Surgeon General released a new report, revealing for the first time that cigarette smoking causes diseases in nearly every organ of the body and is conclusively linked to diseases such as leukemia, cataracts, pneumonia, and cancers of the cervix, kidney, pancreas, and stomach. According to the Surgeon General, smoking kills an estimated 440,000 Americans prematurely each year. On average:

Men who smoke cut their lives short by 13.2 years, and female smokers lose 14.5 years (see "Women and smoking").

The economic toll exceeds \$157 billion each year in the United States\$75 billion in direct medical costs and \$82 billion in lost productivity.

A number of smoking cessation programs have been found to be effective, particularly those that combine pharmacological treatment and behavioral interventions, such as counseling. According to a review of 123 trials in the Cochrane Tobacco Addiction Group, all of the commercially available forms of nicotine replacement therapy are effective as part of a strategy to promote smoking cessation. They increase the odds of quitting approximately 1.5- to 2-fold regardless of setting.

Incorporating screening and treatment for tobacco use is a sensible, cost-effective way to reduce this mortality and the morbidity that precedes it. While repeated physician interventions may be required to help patients achieve permanent abstinence from smoking, effective treatments are now available that can be offered as part of standard medical care.

The guideline from the US Public Health Service (PHS), Treating Tobacco Use and Dependence: A Clinical Practice Guideline, emphasizes the critical role that primary care physicians play in helping patients quit. It offers practical tips and evidence-based treatment recommendations that are easy to implement (http://www.surgeongeneral.gov/tobacco/).



# The Process of Quitting Smoking

Every year, three million smokers give up cigarettes. With the right attitude, preparation, and knowledge, you can be one of them. The main step in the process of quitting is deciding to start.

### Why Smoke?

Smokers give several general reasons for smoking. They smoke for:

- 1. stimulation
- 2. handling the cigarette
- 3. relaxation
- 4. help for tension
- 5. craving
- 6. habit

What are your main reasons for smoking? If you smoke for reasons I through 3, then you use cigarettes when you feel good. You will need to find substitutes for cigarettes. Smokers who use cigarettes for reasons 4 through 6 smoke for negative reasons. They are likely to use cigarettes when stressed, angry, or tired. It is important to find new ways to cope with these problem times.

## Decide To Quit

Smokers tell us that 50% of the job of quitting smoking is the decision to quit smoking. Think about reasons to smoke, reasons to quit, then write them out. Add to the list for a week. Spend half an hour thinking about whether you want to smoke for the rest of your life or whether you want to quit. If you decide to quit someday in the future, pick a date and stick with it.

#### Make Changes

In preparation for a quit, begin to change your smoking pattern. Change brands of cigarettes. It is best if you can change to a lower nicotine brand. Change how much you smoke, where, and when you smoke. Scramble your smoking routine-this makes smoking less pleasant.

#### Keep A Diary

A week before quitting, do a daily diary of your smoking. Record where, when, and why you are smoking. Begin to think of substitutes you will use as a nonsmoker. Imagine yourself not smoking in that situation in the future.

#### Think Positive

Project a positive attitude. Tell yourself you can do it this time.

Convince yourself that you will succeed. Studies show that smokers who use this mental preparation are more likely to be nonsmokers a year later.

#### Plan Your Deadline

Prepare for quitting by picking your day. Decide what you will do that day to handle urges to smoke. Wake up a nonsmoker. It's easier than quitting in the middle of the day. Say nice things to yourself. Give yourself a pep talk as needed. Take the day in short spurts. Don't think that you are going to give up something--that's negative thinking. Plan to spend lunch and coffee breaks with nonsmoking friends.

#### **Coping Techniques**

Things that help smokers overcome urges for cigarettes are self-talk and activities. Self-talk is telling yourself you are great for making the effort or telling yourself that smoking is not an option, then switching to other thoughts. Activities are related to doing something different. Getting up, walking around, and taking deep breaths are all activities.

#### Nicotine Replacement

Do you need nicotine gum? It's a good question to ask. Today we can identify smokers who are addicted. They often smoke a pack or more a day, prefer cigarettes with a higher nicotine content, smoke within 30 minutes of arising, smoke a cigarette at least every two hours while awake, and have withdrawal symptoms when smoking is delayed. They also smoke when they have a medical condition that is made worse by continued smoking. Addicted smokers may find nicotine replacement therapy eases their withdrawal symptoms, making it easier to quit cigarettes. Ask your doctor if it might help you.

#### Learning Process

Quitting smoking is a process. It took a while to learn to smoke; it takes a while to learn not to smoke. Some smokers need to make repeated attempts to quit. Don't ever give up--just persist in cessation efforts until you are successful.

#### Where Are You In The Six-Step Process Of Quitting?

1. Precontemplation--Not even thinking about quitting. People in this step have never really considered trying to quit. This is a hard group to motivate to quit.

2. Contemplation--These smokers are considering quitting someday. They are waiting for a motivating event to help them find the reasons to quit.

3. Action--In the act of quitting. These smokers have prepared to stop. They have reduced the amount smoked, changed brands, or restricted their smoking. They have considered what to do on the day of quitting and planned for coping strategies to deal with urges to smoke.

4. Maintenance--In this stage, a person has quit smoking but is in the first year of staying quit. After one year off cigarettes, a smoker can claim success at cessation.

5. Relapse--A return to daily smoking after a period of not smoking. First-time quitters are successful 25% of the time; others need to make another attempt. In fact, most smokers need to try to quit at least three times before it works. Said another way, "Practice makes perfect."

6. Renewed Action--Please note that 75% of smokers will have to pass through this step to become a news is that repeated attempts to quit are worth it because you can learn from past mistakes.

#### Some Benefits To Quitting

\* Within 20 minutes of the last cigarette--blood pressure drops to normal, pulse rate drops to a normal rate, body temperature of the hands and feet increases to normal.

\* In 8 to 24 hours--carbon monoxide level in blood drops to normal, oxygen level in blood increases to normal, chance of heart attack decreases.

\* In 48 hours--nerve endings start regrowing, and the ability to taste and smell things is enhanced.

#### It's Better For You

The Surgeon General's Report on Smoking and Health in 1964 concluded that smoking was harmful to one's health. In 1990, the Surgeon General's Report concluded that stopping smoking was beneficial to all smokers, no matter what age or condition of health.



# Environmental Tobacco Smoke

Environmental tobacco smoke (ETS) is a mix of more than 4,000 compounds, over fifty of which are known to cause cancer.

ETS consists of two different kinds of smoke: Approximately 85 percent is sidestream smoke, the smoke emitted from the burning cigarette, cigar, or pipe between puffs. The remainder is the mainstream smoke exhaled by the smoker.

Although mainstream and sidestream smoke are chemically very similar, undiluted sidestream smoke burns at a lower temperature and, therefore, contains higher concentrations of many of the toxic elements in tobacco smoke, including nicotine, carbon monoxide, benzene, ammonia, 4-aminobiphenyl, and benzo[a]pyrene.

In 1992, the U.S. Environmental Protection Agency (EPA) classified environmental tobacco smoke as a "Group A" carcinogen a substance that produces cancer in humans

ETS from parental smoking can cause children to suffer the following health effects:

\* Pregnant women who smoke and nonsmoking pregnant women exposed daily to tobacco smoke are more likely to have low birth weight babies at risk for death and disease in infancy and early childhood.

\* Nursing mothers who smoke can pass along harmful chemicals from cigarettes to their babies in breast milk.

\* It is estimated that more than one-third (35 percent) of all deaths from Sudden Infant Death Syndrome (SIDS) are due to maternal tobacco use. U.S. Children are three times more likely to die from SIDS caused by maternal smoking than die from homicide or child abuse.

\* Children of parents who smoke have a higher prevalence of symptoms of respiratory irritation such as cough, phlegm, and wheeze.

\* An estimated 1.67 million physician visits for cough each year in the United States are due to involuntary smoking.

\* Exposure to ETS substantially increases the risk of lower respiratory tract infections, and is responsible for an estimated 350,000 cases of bronchitis and 152,000 cases of pneumonia annually or 16 percent of all lung infections in U.S. children under the age of five.

\* Involuntary exposure to tobacco smoke is responsible for an estimated 1.2 million ear infections each year in the United States, or approximately 7 percent of the total.

\* Children exposed to household smoking are at greater risk of requiring surgery for recurrent ear infections or tonsillitis; an estimated 86,000 tube insertions (14 percent of the total) and 18,000

tonsillectomies/adenoidectomies (removal of the tonsils or adenoids 20 percent of the total) each year in the United States are attributable to ETS.

\* ETS exposure is associated with higher risk of developing asthma and more frequent and severe asthma attacks in children who already have the disease.3 Each year in the United States, an estimated 11 percent of all asthma cases and more than half a million physician visits for asthma are due to smoking in the home.

\* Exposure to the smoking of one or both parents has also been shown to be a highly important predictor of smoking among adolescents.

\* It is difficult to quantify the exposure of nonsmokers to ETS. Smoking in confined spaces, such as in a small enclosed room or a car, can greatly increase concentrations of environmental tobacco smoke.

\* It takes more than three hours to remove 95 percent of the smoke from one cigarette from the room once smoking has ended.

\* In general terms, most adults (87 percent) believe people have a right to be free from breathing other people's second-hand smoke.

\* Parents who restrict smoking to the outdoors are more likely to be highly educated, older, come from nonsmoking households, and have higher incomes.

\* Courts in Canada, the United States, and Australia have begun to consider parental smoking as one of the factors that must be weighed in assessing "the best interest" of the child in custody and access proceedings.



# Nicotine Withdrawal

Withdrawal from nicotine, an addictive drug found in tobacco, is characterized by symptoms that include headache, anxiety, nausea and a craving for more tobacco.

Nicotine creates a chemical dependency, so that the body develops a need for a certain level of nicotine at all times. Unless that level is maintained, the body will begin to go through withdrawal.

For tobacco users trying to quit, symptoms of withdrawal from nicotine are unpleasant and stressful, but temporary.

Most withdrawal symptoms peak 48 hours after you quit and are completely gone in six months. But even after that you may still have to deal with the fact that you are probably eating more than you did as a smoker and may need to lose some weight.

### SYMPTOMS ...

In active tobacco users, a lack of nicotine produces a wide range of withdrawal symptoms, including any or all of the following:

Headache. Nausea. Constipation or diarrhea. Falling heart rate and blood pressure. Fatigue, drowsiness and insomnia. Irritability. Difficulty concentrating. Anxiety. Depression. Increased hunger and caloric intake. Increased pleasantness of the taste of sweets. Tobacco cravings.