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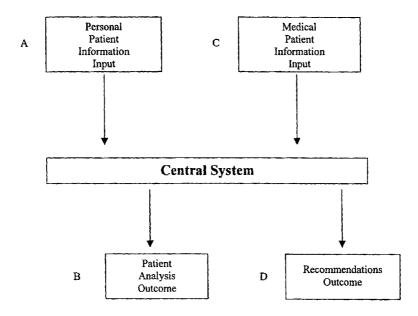
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(54) Title: SYSTEMS AND METHODS FOR EVALUATING PATIENT-SPECIFIC INFORMATION AND PROVIDING PATIENT MANAGEMENT RECOMMENDATIONS FOR HEALTHCARE PROVIDERS



(57) Abstract: The present invention relates to the use of computerized systems for evaluating patient-specific data for the purpose of providing healthcare providers with recommendations for adhering to best medical practices.



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SYSTEMS AND METHODS FOR EVALUATING PATIENT-SPECIFIC INFORMATION AND PROVIDING PATIENT MANAGEMENT RECOMMENDATIONS FOR HEALTHCARE PROVIDERS

TECHNICAL FIELD

[01] This invention relates to the use of computerized systems for evaluating patientspecific data for the purpose of providing physicians with recommendations for adhering to best medical practices.

BACKGROUND

- [02] Many medical associations and physician's groups publish recommendations for patient care that can be consulted by treating physicians and tailored for particular patients. However, such information is generally underutilized, because physicians do not have the time to evaluate recommendations on an individual basis for each patient under their care.
- [03] In order to facilitate managed patient care, computer systems have been implemented to provide patient-specific healthcare information to healthcare providers, such as physicians, nurses and others. In particular, may different automated systems have recently been implemented that identify individuals who are at risk for certain diseases and allow healthcare providers to intervene to manage patient care.
- [04] While these systems have proven to be useful for various purposes, they have primarily been designed as diagnostic, prognostic and treatment recommendation tools, rather than educational tools. Accordingly, tools are necessary for assessing a patient's status, from both the patient's and doctor's perspective, and then providing educational materials for the doctor which are customized for individual patients on an ongoing basis.
- [05] There are many publicly available government sponsored resources for evidence-based clinical practice guidelines. These resources are designed to facilitate consistent quality of care for patients with particular medical conditions by providing physician approved guidelines for patient care. For example, the National Guideline Clearinghouse provides a website for access to many such guidelines at www.guideline.gov. Other such guidelines are published by the Agency for Healthcare Research and Quality at www.ahrq.gov. In addition, many of the

major professional associations publish their own guidelines, such as the American Heart Association and the American Diabetes Association.

- [06] These guidelines, also referred to herein as "recommendations" can be complex, depending on the particular medical condition for which they pertain. For example, the National Guideline Clearinghouse website provides a link to an article entitled "Prevention of Coronary Heart Disease in Clinical Practice" (Eur. Heart J. 10: 1434-1503 (1998). Among other information, these guidelines list six cardiovascular risk factors, seven primary intervention tools and four secondary intervention tools. Unfortunately, not all of these factors and tools relate to each patient, and the ability to quickly customize the guidelines for individual patients is necessary to make them useful in a clinical setting.
- [07] Accordingly, it is an object of the present invention to provide a computerized system for collecting and processing patient-specific information and generating customized recommendations for individual patients based on such input.

DISCLOSURE OF THE INVENTION

- [08] The present invention relates to a method for providing patient-specific best medical practice recommendations for a population of patients suspected of having individual members with at least one preselected medical condition using a central system adapted to customize the recommendations for the individual members that comprises the steps of:
- [09] a) selecting a population of patients that is suspected of having a higher than normal risk for the preselected medical condition;
- b) collecting personal patient information about the individual members that comprises factors that allow risk assessment of the preselected medical condition, and may also include information regarding factors that allow identification of the presence of the preselected medical condition;
- c) processing the personal patient information by the central system to provide a patient analysis outcome that reflects risk assessment of the preselected medical condition;
- d) collecting patient management information about the individual members that comprises a medical history relevant to the preselected medical condition; and

e) processing the patient management information by the central system to provide a recommendations outcome that reflects best medical practices for management and treatment of the individual members relative to the medical condition.

In a preferred embodiment, steps d) and e) are repeated at least once.

In one embodiment, the personal patient information and/or the patient management information can be obtained using an input collection tool, such as a form adapted for data collection.

The method can be adapted for use for any medical condition, including but not limited to coronary artery disease, diabetes, congestive heart failure, pulmonary disease, asthma, hypertension, depression, or any combination thereof.

Another aspect of the present invention is a system that is adopted for practicing the above-described method which comprises a computer with a central processing unit (CPU) that is programmed to receive and analyze patient-specific data to produce recommendations outcome.

BRIEF DESCRIPTION OF THE DRAWINGS

- [08] Figure 1 depicts a schematic representation of the system of the present invention.
- [09] Figure 2 depicts a representative "Risk Assessment Survey" for Coronary Artery Disease that is used to collect personal patient information.
- [10] Figure 3 depicts representative patient analysis outcome directed to a healthcare provider indicating the risk assessment of an individual fictitious patient.
- [11] Figure 4 depicts a representative "Data Collection Tool" for Coronary Artery Disease that is used to collect patient management information.
- [12] Figure 5 depicts a representative recommendations outcome directed to a healthcare provider indicating the generally accepted guidelines (i.e. recommendations) for ongoing treatment of an individual fictitious patient.

MODES OF CARRYING OUT THE INVENTION

[13] The present invention relates to a computerized system for collecting and processing patient-specific information and generating customized recommendations for individual patients based on such input. Computer systems can be represented generally as a

systems for processing information from different sources to provide customized output. Figure 1 is a simplified schematic representation of such a system according to the present invention which depicts the input aspect of the system on the top and the output aspect of the system on the bottom. The central system is programmed with information primarily from public sources regarding best practices for managing the care of patients with particular medical conditions (i.e. clinical practice guidelines), and the program is adapted to customize these best practices for individual patients.

- [14] The system requires a source of personal patient information and patient management information (collectively, "patient-specific information) which is input into the central system. After the information is input into the system, the information is processed according to the program specific for a particular medical condition. The initial output from the central system is an initial patient assessment called a "patient analysis outcome" based on the personal patient information. This outcome identifies the level of risk for the medical condition being contracted and may also identify the presence of the medical condition. The initial output is generally sent to the healthcare provider. As used herein, the term "healthcare provider" refers preferably to the patient's physician, most often their primary care physician, but may also refer to any employee, affiliate, colleague or agent of the physician or the healthcare provider's organization. For example, if the patient belongs to a health maintenance organization (HMO) the healthcare provider may refer to any employee of the HMO, such as doctors, specialists, nurses, administrators, pharmacy personnel, lab technicians, etc.
- [15] In addition, the system may require patient management information, which is usually obtained from the same healthcare provider that received the initial output. After this information is input into the central system, it is processed by the system, which then provides a recommendations outcome that relates to the best medical practices for management of the patient according to the clinical guidelines that are appropriate for that particular patient.
- [16] The methods of the present invention can be adapted for any preselected medical condition. Although coronary artery disease is the medical condition that is most thoroughly exemplified herein, it would be easy to adapt the system for other medical conditions, such as diabetes, congestive heart failure, pulmonary disease, etc.

Central System Hardware

[17] The central system comprises a host computer adapted for receipt of patient-specific information either directly or indirectly via communication means. Such communication means include, inter alia, modem-mediated telecommunication, wireless telecommunication means, as well as information channeling from the source(s) of patient information to the central system via the internet.

- [18] The central system may be as simple a device as a personal computer, but preferably includes a file serve for storage of data from large patient populations. The file server may be directly connected to a personal computer (PC) including a screen, central processing unit (CPU), keyboard and printer, or may be accessible via the internet. In other words, the central system is not necessarily in one geographic location, but may actually consist of multiple pieces of hardware that are functionally associated via communication means. In one embodiment, the central system comprises at least one central server that is accessible on-line and at least one remote access terminal.
- [19] The processor of the central system is programmed with information relating to disease-specific clinical practice guidelines. Such information is generally obtained from publicly available sources as described elsewhere herein. The processor is also adapted for receiving and processing patient specific data from multiple sources. Computer-based data management systems are well known in the art and can easily be adapted for use as described herein.
- [20] The central system further comprises at least one output device that is adapted to provide both types of outcome discussed below. The output device may be a printer, fax machine, computer screen, etc., and may be adapted to send the output via mail, e-mail, internet, intranet, dedicated lines, etc. In addition, the output device may be programmed to generate outcome at preselected time periods. The output can take many different forms, including for example, components such as graphical element, textual elements, numerical elements and tabular elements.

Central System Software

[21] The central system is pre-programmed prior to operation to analyze information specific to a preselected medical condition or conditions. Such programming includes the development of individual algorithms for processing patient-specific data to customize the output

for the particular patient. For example, if the medical condition is coronary artery disease and the patient indicates they are not a smoker, then the algorithm may eliminate output information that concerns smoking.

Identifying a Population of Patients

[22] The first step in the method of the present invention is selection of a patient population. Patient populations that are analyzed using the systems of the present invention are selected on the basis of criteria which is appropriate for the medical condition under study. This criteria is intended to narrow the general population in a way that is expected to include more members that are at risk, preferably at high risk, for the preselected medical condition. Accordingly, as used herein, the phrase "having a higher than normal risk for the preselected medical condition" means that the chosen population has a higher risk (e.g. >10%, preferably >20%) of having or developing the medical condition when compared to the general population. For example, since patients above the age of 45 are known to have a higher risk for coronary artery disease, the patient population being analyzed may include all patients over 45 years of age. In another example, if patients are being analyzed by the system because they are suspected of having diabetes, the patient population may consist of all patients having an age of 40 or above that have hypertension and/or are overweight. In yet another example, the selected patient population may be all patients of a specialist, such as a cardiologist, which by implication would be expected to have a higher risk for heart-related conditions such as coronary artery disease.

Personal Patient Information Input

- [23] Once the population of patients has been defined, personal patient information is collected from the population of patients. The source of personal patient information is queried to gather information that is generally recognized by professional organizations as being associated with the preselected medical condition. In a preferred embodiment, the source of personal information is the patient themselves. By way of example, Figure 2 is a model "risk assessment survey" for coronary artery disease, which may also be referred to herein as an "input collection tool".
- [24] As shown, the type of information collected in the risk assessment survey can be adapted for use in assessing a patient's risk of having or developing a given medical condition. Collectively, categorizing the risk, for example as low-medium-high, as well as establishing that

the patient most likely already has the medical condition, is referred to herein as "risk assessment". For example, the survey depicted in Figure 2 includes the following question:

"Has your doctor told you that you have problems with the arteries (blood vessels) in year heart?"

According to clinical guidelines, a "yes" answer to this question indicates that the patient already has coronary artery disease. Thus, this question is designed to identify patients that are "at risk" of having CAD or having a high likelihood of contracting CAD.

Patient Analysis Outcome

[25] The next step in the system of the present invention is the input and processing of the personal patient information by the central system to generate the patient analysis outcome. The outcome can take any form, e.g., outcome that is visible on a computer screen or which may be printed and sent by mail or by fax to the healthcare provider. A sample letter that is sent to a physician following input and processing of personal patient information in a CAD system is shown in Figure 3. As can be seen in Figure 3, the outcome, which would be attached to the letter, may be as simple as the identification of individual patients within the patient population that are determined to have a "high risk" of contracting the medical condition based on the information that was supplied. Other types of outcome may include a more complete risk assessment of the entire population, such that individual members are categorized as having no risk, low risk, medium risk, high risk, or they are identified as already most likely having the medical condition.

Patient Management Information Input

- [26] This step of the system of the present invention is designed to collect information regarding the medical history of the patient that is relevant to the preselected medical condition. In particular, it is designed to establish how the patient's care has been managed in the past and/or is currently being managed with respect to the medical condition. This ensures that the recommendations outcome can be appropriately customized for individual patients and sufficiently complete to provide the healthcare provider with useful educational information for ongoing patient care.
- [27] Accordingly, shown in Figure 4, is an exemplary input collection device, a "Data Collection Form", for use in a CAD system. Included therein are queries that are chosen according to clinical guidelines for customizing the recommendations outcome in a way that will

be most useful to the healthcare provider in treating a CAD patient. For convenience, if the recipient of the patient analysis outcome and the entity from which the patient management information input is sought are the same, then the steps of providing this outcome and seeking input can take place simultaneously.

Recommendations Outcome

- [28] The next step in the system is the input and processing of the patient management information by the central system to generate the recommendations outcome. Shown in Figure 5 is a sample recommendations outcome for a CAD patient. Unlike other methods designed to diagnose and prognose a patient's condition, the recommendations outcome provides a summary of patient-specific information and evidence-based clinical recommendations for the patient's ongoing management. Accordingly, the recommendations outcome is based on previous research-studies and clinical evidence that individuals whose input meets certain criteria would be most appropriately managed according to certain guidelines. Any "diagnostic" information about a patient is provided directly from the patient or healthcare provider when the patient-specific input is collected. Likewise, any prognostic analysis of the patient on the basis of the information collected is left completely to the healthcare provider.
- [29] In summary, the present invention is designed to rapidly and efficiently customize publicly available, evidence-based "best practice" recommendations for individual patients that would be impossible to do manually for any sizeable patient population. By providing healthcare professionals with such recommendations, they will be better educated and able to intervene when appropriate to improve patient care. In addition, once the individual members are "enrolled" in the system, the steps of obtaining patient medical information and providing recommendations outcome can be repeated at any given time interval (monthly, quarterly, semiannually, yearly, etc.) to provide healthcare professionals with continually updated best medical practice guidelines for ongoing patient management.
- [30] All publications and patents mentioned in the above specification are herein incorporated by reference. Various modifications and variations of the described method and system of the invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention. Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not

be unduly limited to such specific embodiments. Indeed, various modifications of the described modes for carrying out the invention which are obvious to those skilled in the field or any related fields are intended to be within the scope of the following claims.

CLAIMS

We Claim:

1. A method for providing patient-specific best medical practices recommendations for a population of patients suspected of having individual members with a risk for at least one preselected medical condition using a central system adapted to customize the recommendations for the individual members, wherein said method comprises the steps of:

- a) selecting a population of patients that is suspected of having a higher than normal risk for the preselected medical condition;
- b) collecting personal patient information about the individual members that comprises factors that indicate risk of having or developing the preselected medical condition;
- c) processing the personal patient information by the central system to provide a patient analysis outcome that reflects risk assessment of the preselected medical condition;
- d) collecting patient management information about the individual members that comprises a medical history relevant to the preselected medical condition; and
- e) processing the patient management information by the central system to provide a recommendations outcome that reflects best medical practices for future management of the individual members relative to the medical condition.
- 2. The method according to claim 1, wherein steps d) and e) are repeated at least once.
- 3. The method according to claim 1, wherein the preselected medical condition is coronary artery disease.
- 4. The method according to claim 1, wherein the preselected medical condition is diabetes.
- 5. The method according to claim 1, wherein the preselected medical condition is pulmonary disease.

6. The method according to claim 1, wherein the preselected medical condition is congestive heart failure.

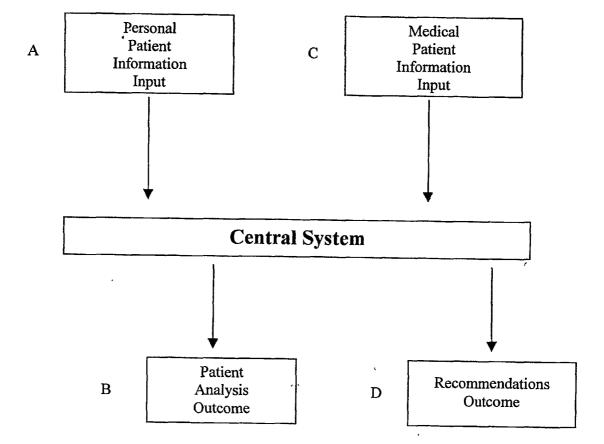
- 7. The method according to claim 1, wherein the recommendations outcome is sent to a healthcare provider via mail, e-mail, or is accessible by a healthcare provider over an internet web page.
- 8. The method according to claim 1, wherein the central system is pre-programmed with algorithms that allow for customization of output based on professional associations' evidence-based best practices according to the individual member's patient management information.
- 9. The method of claim 1, wherein the personal patient information is collected using a risk assessment survey that is completed by the individual member.
- 10. The method of claim 1, wherein the patient management information is collected using data collection tool that is completed by a healthcare provider.
- 11. A system for providing patient-specific best medical practices recommendations for a population of patients suspected of having individual members with the risk for at least one preselected medical condition comprising a central system adapted to customize the recommendations for the individual members, or and said system comprises:
- a) a CPU programmed to receive and analyze personal patient information that comprises factors that indicate risk of having or developing the preselected medical condition;
- b) a first output device adapted to provide patient analysis outcome that reflects risk assessment of the preselected medical condition;
- c) a CPU programmed to receive and analyze patient management information about the individual members that comprises a medical history relevant to the preselected medical condition; and

d) a second output device, wherein said second output device is the same or different than the first output device, adapted to provide recommendations outcome that reflects best medical practices for future management of the individual members relative to the medical condition.

- 12. The system according to claim 11, further comprising at least one central server that is accessible on line and at least one remote access terminal.
- 13. The system according to claim 11, wherein the output device of (b), (d) or both (b) and (d) further comprises a communications interface capable of transmitting output on-line.

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Figure 1



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Figure 2 LifeMasters® CAD Program – Risk Assessment Survey

Section 1 - Patient/Physician Information Please complete the following Patient Name: What is the name of your physician: Phone number if available: Is your physician a cardiologist: Yes ☐ No Section II - Predictors of Coronary Artery Disease Risk Please complete the following What is your LDL cholesterol level("bad" cholesterol)? More than 100 100 mg/dL or mg/dL less What is your HDL cholesterol level ("good" cholesterol)? More than 35 35 mg/dL or less mg/dL What is your triglycerides level? ☐ More than 200 200 mg/dL or mg/dL Is your blood pressure 130/80 or higher? ☐ Yes ☐ No Do you currently smoke cigarettes? ☐ Yes ☐ No Do you have diabetes or do you take medicines to control your ☐ Yes ☐ No blood glucose? Has your doctor told that you have problems with the arteries ☐ Yes □ No · (blood vessels) in your heart? Have you ever had a heart attack? Yes ☐ No Has your doctor told you that you have an enlarged heart or heart ☐ Yes ☐ No failure? Have you been admitted to the hospital or visited the emergency ☐ Yes ☐ No department in the previous 12 months for a heart problem? Did a first-degree relative (father, mother, brother, sister, son or Yes Yes ☐ No daughter) have a heart attack before the age of 55 years?

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Figure 3

Dear [Healthcare Provider]:

<customer>> is pleased to introduce the LifeMasters® Coronary Artery Disease (CAD) Primary Prevention program, a disease management intervention for <customer>> patients. This innovative program was established to reduce the incidence of angina, myocardial infarctions and strokes in patients at high risk for coronary artery disease (CAD). LifeMasters' goal is to identify individuals who are at high risk for CAD and then support physicians in their care management of these patients. A high risk patient for CAD is defined by the American Heart Association an any individual with two or more cardiovascular risk factors (hypertension, hyperlipdemia, positive family history for CAD, current smoker, etc.) or having diabetes. Once a high risk patient is identified through an evidence-based risk assessment survey, the patient is enrolled in the following support program that facilitates the "best practice" management of that patient's CAD risk factors. This primary prevention program for at risk CAD patients consists of the following components:

- 1) All patients who are 45 years of age or older are identified via the health plan's membership data
- 2) These patients are sent the LM CAD risk assessment survey
- 3) Upon completion of these surveys, patients are identified who are at high risk for the development of coronary artery disease (CAD) as defined by the American Heart Association.
- 4) In order to promote best practice clinical management of these at-risk patients, the identified personal physician of these patients is sent a follow-up LM CAD data collection tool for completion of patient-specific clinical data
- 5) Upon return of this CAD data collection tool back to LM, the physician is sent a one page, patient-specific "best practice" set of recommendations based on the American Cardiology/American Heart Association clinical guidelines.
- 6) This patient-specific CAD data collection tool and recommendation report is then sent to the physician every six months so the physician can longitudinally track the care management progress of his/her at-risk patients for CAD.

Enclosed with this cover letter is a CAD data collection tool for each of the patients in your practice that have been identified as high risk for the development of CAD. We want to thank you beforehand for your timely completion of these clinical data forms and hope they will be helpful in tracking the care of your patients.

patients.	. data to this and hope they will be helpful in dacking the care of your	
Please contactappreciate your support and look f	with questions or feedback about the program. We forward to a successful program.)
Sincerely,		
LifeMasters Supported SelfCare, I	nc.	

Enclosure: CAD Data Collection Tool

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LifeMasters® CAD Program – Data Collection Form

Instructions:

-	rrect the current	information and/or supply missing		
	formation, as appl	icable "No" checkboxes for all items as appl	isahl	•
		"No" checkboxes for all items as app		
Complete Section III. C	neer the res of	110 thetaboxes for all items as app	IICAU)	100
Date:				
Section 1 - Patient/Physic	ician Information			
Patient Name:		AGE:	DO	B:
Height:		Weight:		
Physician Name:				
Physician Address:				
Physician Phone Number:	FAX Num	nber: Email:		
Section II - Medical Hi	istory /Risk Factor	rs		
			Yes	No
History of MI	Yes 🗌 No 🗌	Hospitalization for MI in last 12 months		
History of CABG or angioplas	ty			
History of angina pectoris				
History of positive stress test (ECG stress test or echo	cardiography stress test)		
History of diabetes				Ш
Most recent HbA1c level is ≥ 8	3%			
History of hypertension	Yes No No	Is hypertension well controlled (BP ≥ 130/85, if diabetes BP > 130/80)		
History of hyperlipdemia				
LDL-c within the past 12 mont	ths Yes No No	Is the LDL-c < 100 mg/dL?		
Triglycerides within the past 1 months	2 Yes ☐ No ☐	Is the triglycerides < 200 mg/dL?		
HDL-c within past 12 months	Yes 🗌 No 🗌	Is the HDL-c ≥ 40 mg/dL		
Current smoker				
If the patient is a current smok	er, is smoking cessation	n counseling given at every clinic		Ш
Section III - Medication	ı Profile		Yes	No
To the nations of entirelated at the			res	No
Is the patient on antiplatelet the			౼	
Is the patient on beta blocker t		I present)?		
Is the patient on statin therapy			!!!-	ዙ
Is the patient on nicotinic acid, fibrate or resin therapy				

Fax the completed form to LifeMasters

LifeMasters® CAD Program Recommendations Figure 5

CAD Clinical Recommendations for John Doe (id:17) Based on data collected eport Date:

ast Medical History: (1) MI (within last 12 months), (2) Angina, (3) Diabetes, and (4) Hypertension hese recommendations are intended to assist physicians in clinical decision making by describing a range of generally acceptable approaches for the management,

· prevention of CAD.

Indicator	Goal	Goal	Recommendations
		Met	
MI (within last	β-blocker therapy initiated	No	 Post Recent MI; History of MI within last 12 months. No β-blocker medication reported. The ACC/AHA recommends the initiation of β-blocker therapy.
Antiplatelet Therapy	Antiplatelet therapy initiated	Yes	 Antiplatelet Therapy; Antiplatelet therapy reported. No additional recommendations.
Hypertension	BP< 130/85 (< 130/80 for diabetes)	No	 Hypertension; BP ≥ 130/85 reported. For uncomplicated hypertension, the JNC VI recommends the use of β-blocker and/or diuretics as first line therapy. As recommended by the ACC/AHA guidelines, for patients with known CAD titrate medication regimen to BP < 130/85 (for diabetic patients, titrate BP to < 130/80). If patient also diagnosed with diabetes or CHF, consider ACE inhibitor medication as first line therapy. If patient has NYHA class II or III CHF, also consider adding β-blocker therapy⁴.
tDL-c	LDL-c < 100 mg/dL	No	 Elevated LDL-c: LDL-c level ≥ 100 mg/dL reported and patient on statin therapy. Recommend either titirating current medication, adding another lipid lowering medication or changing to alternative therapeutic regimen in order to achieve ACC/AHA recommended LDL-c level of < 100 mg/dL ¹².
friglycerides	Triglycerides < 200 mg/dL	No	 Elevated Triglycerides; Triglycerides level > 200 mg/dL reported. The ACC/AHA recommends gemfibrozil or niacin therapy for patients with HDL-c < 40 mg/dL and triglycerides level > 200 mg/dL, if no contraindications^{1,2}.
JDL-c	HDL.c≥40	No	 Low HDL-c; HDL-c level < 40 mg/dL reported. Currently on lipid lowering medication. If accompanying triglycerides levels > 200 mg/dL, the ACC/AHA Recommends gentibrozil or niacin therapy^{1,2}.
piabetes [HbA1c < 8%	No	■ Diabetes; HbA1c≥ 8% reported. The ADA recommends a HbA1c goal < 7%. The findings of the DCCT and UKPDS studies indicate that strict blood glucose control will prevent up to 70% of significant, kidney, eye, and neurological complications. These studies also indicate that every percentage point decrease in an individual's HbA1c level there is a 25% reduction in diabetes-related deaths, a 7% reduction in all-cause mortality and an 18% reduction in combined fatal and nonfatal myocardial infarction ³ .
urrent Imoker	Non-smoker	Not Known	 Smoking Cessation; No response received. Assess the patient's smoking status and offer appropriate interventions if currently smoking?
besity	BMI < 27 Kg/m²	No	 Regular exercise may reduce the risk of CAD; Recommend low cholesterol, low fat diet

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JA/ACC/ACP-ASIM Guidelines for the Management of Patients with Chronic Unstable Angina and Acute MI (2000) tional Cholesterol Education Program (NCEP - ATPIII) - 2001

nerican Diabetes Association 2001

e Sixth Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure (JNC VI) – 1997 cating Tobacco Use and Dependence, U.S. Department of Heath and Human Services Clinical Guidelines - 2000

SUBSTITUTE SHEET (RULE 26)