

A Practical Office-Based Cholesterol Management System

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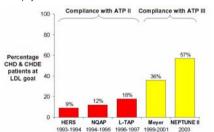
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Implications for clinical practice

- A comprehensive, computer-assisted cholesterol management system composed of five core components can facilitate LDL goal attainment without additional investment in technology or human resources.
- In our single-center study, 85% of CHD and CHDequivalent patients achieved an LDL < 100 mg/dl following implementation of the management system.

Statement of the problem

- Despite a wealth of data demonstrating the efficacy and safety of statins and other LDL-lowering therapies, a significant number of patients at high-risk for cardiovascular events remain untreated or undertreated.
- Numerous attempts to address the treatment gap have met with limited success, hindered by ever increasing demands on physicians' time and limited financial resources.



Objectives of the management system

- To develop a simple yet comprehensive approach to enable busy primary care providers to achieve appropriate LDL-c reductions without additional investment in technology or personnel.
- To evaluate adherence to National Cholesterol Education Panel Adult Treatment Panel III (NCEP ATP III) guidelines following implementation of the office-based cholesterol management system.

Description of the cholesterol management system

Five core components A step-by-step algorithm simplifying NCEP ATP III guidelines Customized templates for initial risk assessment and follow-up encounters An evidence-based calculator to estimate the statin dose required to get to goal Educational materials to address patient concerns and improve compliance A rapid daily LDL-c auditing system

Visit sequence: The process of getting patients to goal Visit 1 Baseline laboratory studies Visit 2 Initial pharmacotherapy Initial pharmacotherapy October October

- odo Perform history and physical exam
 - Order baseline laboratory studies
 Discuss therapeutic lifestyle changes
- Determine lipid goals
 Initiate statin therapy

 - New patient encounter form
- Tools Patient educational materials

- Complete risk evaluation
 Determine lipid coals
- Address patient concerns
- .
- Initial risk assessment/treatment form
 Follow-up encounter form
- Simplified NCEP ATP III algorithm
- Assess response to therapy
 Reinforce adherence to medications and lifestyle changes
- Titrate pharmacotherapy
 Answer patient questions
- Total parent questions
- Follow-up encounter form
 Daily LDL chart audit form
- Simplified NCEP ATP III algorithm
- Patient educational materials

Statin dose calculator Patient educ Evaluating the cholesterol management system

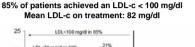
Study design

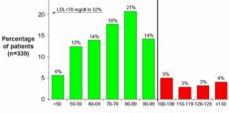
- Single-center prospective chart analysis of all consecutive patients seen between January 4, 2005 and April 14, 2005 meeting the eligibility criteria below
- Inclusion criteria:
- CHD and CHD risk-equivalent patients
- ≥ 2 prior clinic visits to permit initial risk assessment and initiation of therapy
- · Exclusion criteria: none

Baseline characteristics of 339 consecutive patients

	Characteristic	%	(n)
Demographics	Age	Mean: 72 yo	
	Men	60%	(205)
	Women	40%	(143)
	White	74%	(259)
	Black	22%	(75)
Diagnoses	CHD	70%	(239)
	CHD-equivalent	30%	(100)
Therapy	Statin monotherapy	92%	(312)
	Combination therapy [†]	31%	(105)
	No pharmacotherapy	4%	(13)
+Combination therapy: st	tatin + ezetimibe, statin + niacin, or sta	atin + fibrat	e

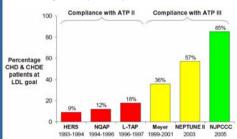
Results: LDL-c levels





LDL-c on treatment (mg/dl)

A greater percentage of high-risk patients achieved their LDL-c targets compared to prior observational studies



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