

Teaching Points In Informatics

Two tools in **InfoRetriever®** on the PDA (web or desktop) that can help you make decisions about a patient's **risk for cerebrovascular and cardiovascular events** based on their age, risk factors and current lipid level and blood pressure are presented here.

When you start InfoRetriever, select under 1. Type of Search: Clinical Rules and Calculators

1. Type of search:
Clinical rules and calculators

Expand CV: HTN, lipids, screening

Screening cardiac risk profile (Framingham Data)

Based on the landmark Framingham long term cohort study, this will tell you the risk of CHD (coronary heart disease), MI, CHD death, Stroke, CVD (cerebrovascular disease) and CVD death.

InfoRetriever 200 10:35

Clinical rules and calculators:

- CV: Acute MI/unstable angina
- CV: Angioplasty
- CV: Chest pain and CAD
- CV: DVT and PE
- CV: Heart failure
- CV: HTN, lipids, screening
 - Hypertension: renal artery stenosis diag
 - Screening: cardiac risk profile (Framingham)
 - Screening: NCEP ATP III lipid guideline
- CV: Pre-op evaluation
- CV: Stroke
- CV: Valve and endocarditis
- Drug dosing

File Jump to... Pearls

InfoRetriever 200 10:49

Screening: cardiac risk profile (Framingham)

Age (yrs): 58 Smoker

Systolic BP (mm Hg): 155 Male

Cholesterol (mg/dl):

Total: 230 Diabetic

HDL: 60 Evidence of LVH by ECG

Next >

File Jump to... Pearls

InfoRetriever 200 10:51

Screening: cardiac risk profile (Framingham)

Estimate 10 year risk More Info

Ideal (non-smoker, total 160, HDL 45, SBP 120)

	Patient	SBP 120
CHD:	24.2%	10.5%
MI:	19.8%	5.3%
CHD death:	7.1%	1.5%
Stroke:	10.8%	2.3%
CVD:	44.1%	17.7%
CVD death:	8.6%	2.1%

< Prev

File Jump to... Pearls

Now the question arises, "How aggressive should I get based on these percentages?"

This is when you close that calculator and from the Clinical Rules and Calculators screen pick

Screening NCEP ATP III lipid guidance

The ATP III lipid guidelines were derived from the Framingham and other studies. Based on this patient's age, lipid and B/P, plus risk factors you are provided with their 10 year risk of cardiac disease, and NCEP recommendations for therapy.

Both of these tools are worth adding to **Pearls** for easy access.

InfoRetriever 200 11:00

Screening: NCEP ATP III lipid guideline

Enter the data for your patient:

Age (years): 55-59

Total cholesterol (mg/dl): 200-239

HDL cholesterol (mg/dl): >= 60

Systolic BP (mm Hg): 140-159

Patient's latest LDL: 75

Female

Risk factors:

Hypertension under treatment

Smoking in past month

CHD in first degree male relative < 55 years or female relative < 65 years

More Info Next >

File Jump to... Pearls

InfoRetriever 200 11:03

Screening: NCEP ATP III lipid guideline

CHD or CHD risk equivalent?

Known coronary heart disease

Symptomatic carotid artery disease

Abdominal aortic aneurysm

Peripheral arterial disease

Diabetes mellitus

10 years risk and NCEP recommendation

CHD or CHD risk equivalent: **Yes**

Number of risk factors: **1**

10 yr CHD risk: **16%**

LDL Goal: **< 100 mg/dl**

Recommended action: **CHD or CHD risk equivalent with LDL = 104. Initiate lifestyle changes; drug therapy optional.**

< Prev

File Jump to... Pearls