# WELFORD CHART NOTES NEWSLETTER

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#### CARDIOVASCULAR RISK CALCULATOR (User's Manual, pgs. 1343-1345)

The American Heart Association and the American College of Cardiology issued new guidelines at the end

of 2013 for the management of hyperlipidemia. Included in those guidelines is a new program to estimate a patient's 10 year risk of cardiovascular disease. This program is available as a Microsoft Excel spreadsheet which is distributed with Welford Chart Notes. The spreadsheet takes certain data about a patient and performs the calculations. You must have Microsoft Excel installed on your computer in order to perform the calculations.

Welford Chart Notes can export the required data from various places within the program (Name Editor, Lab Book, etc.) and place it into the spreadsheet and then bring the result back to Welford Chart Notes. Let's see how this is done:

- 1. Press Tools\CV Risk Calculator.
- 2. Enter the name of the patient, like Kelly Erickson, and press OK.

The calculator looks up information as follows:

- Age, Race, and Sex in the Name Editor. The calculator only applies to patients between the ages of 20 and 79, and the lifetime risk can only be calculated between the ages of 20 and 59.
- Cholesterol, HDL, and Systolic Blood Pressure in the Lab Book.
- Treated Blood Pressure: a diagnosis of Hypertension (or related such as Essential Hypertension) in the Diagnosis Editor, combined with an antihypertensive medication in the Diagnosis Editor.
- Diabetes? in the Diagnosis Editor.
- Smoker? Smoking Status, then the Social History Expander, then any User-Defined Expanders having to do with Smoking or Habits, and finally in the Lab Book under a test called SMOKING.

🌞 CV Risk Calculator		X
Patient: ANDY JACKSON	Birthdate: 5-3-1972 Code: andyj	
Age:	43	
Sex:	м	
Race:	Not black	
Cholesterol:	232	
HDL:	47	
Systolic Blood Pressure:	138	
Treated Blood Pressure?	No	
Diabetic?	No	
Smoker?	No	
10-Year Bisk of ASCVD	2.6%	
Lifetime Bisk of ASCVD:	46.0%	
<u> </u>	Cancel 🥐 Help 🗲 Jump	
	Cancel ? Help > Jump	×
CV Risk Calculator	Cancel ? Help > Jump Birthdate: 8-15-1953 Code: 12345	×
CV Risk Calculator Patient: KELLY ERICKSON	Cancel ? Heb Jump Bithdate: 8-15-1953 Code: 12345	x
CV Risk Calculator Patient: KELLY ERICKSON	Cancel         ? Help         Jump           Birthdate:         0-15-1953         Code:         12345           61         5         5         5	×
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Baser	Cancel ? Help Jump Birthdate: 8-15-1953 Code: 12345 61 F Mot black	x
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Dodestand	Cancel P Help Jump Birthdate: 8-15-1953 Code: 12345 61 F Not black 179	x
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Bace: Cholesterot HD1:	Cancel         Y Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black         178           80         90         90         90	×
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot HDL: Sustolic Blood Pressure:	Cancel         Y Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black         178           80	×
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot HDL: Systolic Blood Pressure: Treated Blood Pressure?	©ancel	x
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex: Race: Cholesterol: HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic?	Cancel         ? Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black         178           80         Yes         No         No	X
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker?	Cancel         ?         Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black         178           80         Yes         No         No	×
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker?	Cancel         P Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black         178           80         Yes         No         No	×
CV Risk Calculator CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker?  10-Year Risk of ASCVD:	Cancel         P Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black.         178           80         Yes         No         No	x
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot: HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker? 10-Year Risk of ASCVD: Lifetime Risk of ASCVD:	Cancel         P Help         Jump           Birthdate:         8-15-1953         Code:         12345           61         F         Not black         178           80         Yes         Not black         178           80         Yes         Not black         178           No         Not black         178         20           Yes         No         Not black         178           No         Not black         178         20           Yes         No         Not black         178           No         No         100         100	x
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot: HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker? 10-Year Risk of ASCVD: Lifetime Risk of ASCVD:	Cancel       P Help       Jump         Birthdate:       B-15-1953       Code:       12345         61       F       Not black       178         80       Yes       Not black       178         No       No       Not black       178         00       Yes       No       No         No       No       No       No         Only can calculate for age 20-59       No       No	×
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot: HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker?  10-Year Risk of ASCVD: Lifetime Risk of ASCVD: Enter S0-200 for SBP value	Cancel       P Help       Jump         Birthdate:       B-15-1953       Code:       12345         61       F       Not black       178         80       Yes       Not black       178         No       No       Not black       178         00       Yes       No       No         01       Yes       No       No         01       Only can calculate for age 20-59       Yes	×
CV Risk Calculator Patient: KELLY ERICKSON Age: Sex Race: Cholesterot: HDL: Systolic Blood Pressure: Treated Blood Pressure? Diabetic? Smoker?  10-Year Risk of ASCVD: Lifetime Risk of ASCVD: Enter 90-200 for SBP value	Cancel       P Help       Jump         Birthdate:       8-15-1953       Code:       12345         61       F       Not black       178         80       Yes       Not black       178         No       No       Not black       178         00       Yes       No       No         01       Yes       No       No         01       Only can calculate for age 20-59       Yes	×

Note that if you haven't recorded this information in the relevant locations, the calculation will be off. For example if the patient is a smoker but you haven't recorded that anywhere, then the Calculator will assume

the patient is a non-smoker. If the cholesterol, HDL, or systolic blood pressure hasn't been recorded in the Lab Book, the program notifies you that the information is missing and thus it cannot perform the calculation.

The program displays both the 10 year risk of atherosclerotic cardiovascular disease and the lifetime risk of it in the bottom window. If the 10 year risk is >= 7.5%, this is displayed in red, because this is the group of patients for whom the American Heart Association/American College of Cardiology recommends statin therapy (in addition to other high risk groups such as patients with a history of cardiovascular disease or diabetes between the ages of 40 and 75).

You can perform "what-if" analyses for your patient after running the Cardiovascular Risk Calculator by pressing **Jump\Excel**. This opens the Excel spreadsheet with your patient's data filled in. You can change entries in column C, lines 2-11 to see the effect it would have on cardiovascular risk if a modifiable risk factor were altered. For example, you could show the patient his or her reduction in risk if the patient gave up smoking by changing the value in column C line 11 from "Y" (yes) to "N" (no).



#### @CVR and @CVRFull (User's Manual, pg. 1341)

If you type @CVR into the Writer (or embedded within a Template), it is replaced with the 10 year cardiovascular risk for that patient as calculated by the Cardiovascular Risk Calculator. If data are missing that would permit the calculation, then it is replaced with a statement telling you which data are missing.

@CVRFull is replaced with all of the information displayed in the Cardiovascular Risk Calculator, including the values for each of the data items, along with the 10 year and lifetime risk (if they can be calculated).

#### **ICD-10 CODES**

Remember that you must start using ICD-10 Codes on October 1, 2015. **Welford Chart Notes** has incorporated ICD-10 codes since 2012 (Version 6.1). If you have not done so, reread the March, 2012 Newsletter to review the steps you will need to take when switching over to ICD0-10 codes.

#### SEND US YOUR TIPS

If you have tips, shortcuts, questions, or suggestions for future newsletter topics, please send them to us at:

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