FRAMINGHAM RISK SCORE (FRS) Estimation of 10-year Cardiovascular Disease (CVD) Risk

Step 11

In the "points" column enter the appropriate value according to the patient's age, HDL-C, total cholesterol, systolic blood pressure, and if they smoke or have diabetes. Calculate the total points.

Risk F	actor	Risk Points			Points	
		M	len		nen	
Ag	ge					
30-	30-34		0		0	
35-	35-39		2		2	
40-	40-44		5		4	
45-	45-49		7		5	
50-	50-54		8		7	
55-	59	10		8		
60-	60-64		11		9	
65-	69	12		10		
70-	70-74		14		11	
75	75+		15		12	
HDL-C (ı	HDL-C (mmol/L)					
	>1.6		-2		-2	
1.3-		-1		-1		
1.2-	1.29	0		0		
0.9-	0.9-1.19		1		1	
	<0.9		2		2	
Total Cholesterol						
	<4.1		0		0	
	4.1-5.19		1		1	
	5.2-6.19		2		3	
6.2-7.2		3		4		
	>7.2		4		5	
Systolic Blood Pressure (mmHg)		Not Treated	Treated	Not	Treated	
	<120		: 0	Treated -3	-1	
		-2 0	2	-3	2	
	120-129		3	1	3	
	130-139 140-149		4	2	5	
150-159		2	4	4	6	
160+		3	5	5	7	
100	Yes		·			
Smoker	No	<u>4</u> 0		3		
	Yes	statin-indicated co		,	•	
Diabetes	No	0		0		
Total Point			<u> </u>		,	
	no DB et al (i) General c					

Adapted from: D'Agostino RB et al.(i), General cardiovascular risk profile for use in primary care. The Framingham Heart Study. Circ 2008;117:743-53.

Date: Patient's Name:

Step 21 Using the total points from Step 1, determine the 10-year CVD risk* (%).

Total Points 10-Year CVD Risk (%)*						
	Men	Women				
-3 or less	<1	<1				
-2	1.1	<1				
-1	1.4	1.0				
0	1.6	1.2				
1	1.9	1.5				
2	2.3	1.7				
3	2.8	2.0				
4	3.3	2.4				
5	3.9	2.8				
6	4.7	3.3				
7	5.6	3.9				
8	6.7	4.5				
9	7.9	5.3				
10	9.4	6.3				
11	11.2	7.3				
12	13.3	8.6				
13	15.6	10.0				
14	18.4	11.7				
15	21.6	13.7				
16	25.3	15.9				
17	29.4	18.51				
18	>30	21.5				
19	>30	24.8				
20	>30	27.5				
21+	>30	>30				

Step 31 Using the total points from Step 1, determine heart age (in years).

Heart Age, y	Men	Women
<30	<0	<1
30	0	
31		1
32	1	
34	2	2
36	3	3
38	4	
39		4
40	5	
42	6	5
45	7	6
48	8	7
51	9	8
54	10	
55		9
57	11	
59		10
60	12	
64	13	11
68	14	12
72	15	
73		13
76	16	
79		14
>80	≥17	15+

^{*} Double cardiovascular disease risk percentage for individuals between the ages of 30 and 59 without diabetes if the presence of a positive history of premature cardiovascular disease is present in a first-degree relative before 55 years of age for men and before 65 years of age for women. This is known as the modified Framingham Risk Score.3

Using 10-year CVD risk from Step 2, determine if patient is Low, Moderate or High risk.† Indicate Lipid and/or Apo B targets

Risk Level†	Initiate Treatment If:	Primary Target (LDL-C)	Alternate Target	
High FRS ≥20%	Consider treatment in all (Strong, High)	 ≤2 mmol/L or ≥50% decrease in LDL-C (Strong, Moderate) 	• Apo B ≤0.8 g/L or • Non-HDL-C ≤2.6 mmol/L (Strong, High)	
Intermediate FRS 10-19%	LDL-C ≥3.5 mmol/L (Strong, Moderate) For LDL-C <3.5 mmol/L consider if:	• ≤2 mmol/L or ≥50% decrease in LDL-C (Strong, Moderate)	• Apo B ≤0.8 g/L or • Non-HDL-C ≤2.6 mmol/L (Strong, Moderate)	
Low FRS <10%	statins generally not indicated	statins generally not indicated	statins generally not indicated	
Statin-indicated conditions**	Clinical atherosclerosis* Abdominal aortic aneurysm Diabetes mellitus Age ≥ 40 years 15-Year duration for age ≥ 30 years (DM1) Microvascular disease Chronic kidney disease (age ≥ 50 years) eGFR < 60 mL/min/1.73 m2 or ACR > 3 mg/mmol			

Adapted from: Genest J et al.(i). 2019 Canadian Cardiovascular Society/Canadian quideliens for the diamingsian reactive and a prevention of cardiovascular Society/Canadian quideliens for the diamingsian at reatment of dyslipidemia and prevention of cardiovascular Society/Canadian quideliens for the diamingsian treatment of dyslipidemia and prevention of cardiovascular Society/Canadian quideliens for the diamingsian treatment of dyslipidemia and prevention of cardiovascular Society/Canadian Quideliens for the diagnosis and treatment of dyslipidemia and diamingsian treatment of dyslipidemia and diamingsian treatment of dyslipidemia and diamingsian diamingsi dyslipidemia for the prevention of cardiovascular disease in the adult. Can J Cardiol. 2013;29(2):151-167

[‡] apoB: apolipoprotein B stat, CVD: cardiovascular disease, FRS: Framingham Risk Score, HDL-C: high-density lipoprotein cholesterol,

LDL-C: low-density lipoprotein cholesterol.

* Statins indicated as initial therapy

^{**} Consider LDL-C < 1.8 mmol/L for subjects with acute coronary syndrome (ACS) within past 3 months