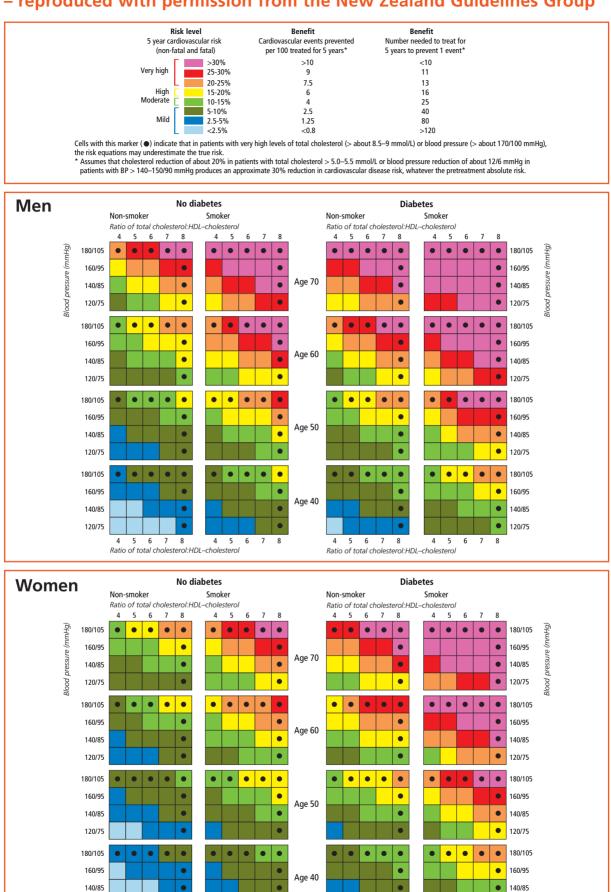
# New Zealand Cardiovascular Risk Calculator

## - reproduced with permission from the New Zealand Guidelines Group



• 4 5 6 7 8 4 5 Ratio of total cholesterol:HDL–cholesterol 6

120/75



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8

7

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4 5 6 7 8 4 5 Ratio of total cholesterol:HDL–cholesterol

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6 7 8 120/75

National Prescribing Service Limited

# New Zealand Cardiovascular Risk Calculator

Assessment of absolute risk of a cardiovascular event

### How to use the risk calculator

Find the colour block which best describes your patient's:

- gender
- age (mean for that category, e.g. age 60 represents 55–64 years)
- smoking status (i.e. regular daily cigarette smoking or having stopped in the previous 12 months)
- diabetes status (i.e. on insulin, oral antidiabetic drugs or with a laboratory measurement of fasting plasma glucose > 8.0 mmol/L)
- blood pressure (mean of two readings on two occasions)
- total cholesterol/high-density lipoprotein cholesterol (HDL-C) ratio.

Cell colour estimates a patient's absolute five-year risk of a cardiovascular event:

- newly diagnosed angina
- myocardial infarction
- coronary heart disease death
- stroke
- transient ischaemic attack.

For more information on the New Zealand Guidelines Group, visit their website at www.nzgg.org.nz

#### Notes

- 1. For age > 75 years, the absolute risk of cardiovascular disease (CVD) is > 15% in nearly all individuals.
- 2. The estimated risk of CVD is not precise and is presented as a range with interpolation required between categories.
- 3. Very high risk patients All patients with symptomatic cardiovascular disease\* or electrocardiogram diagnosed left ventricular hypertrophy are assumed to have a cardiovascular disease risk of greater than 20% in five years.
  - \* Symptomatic cardiovascular disease includes angina, myocardial infarction, congestive heart failure, stroke, transient ischaemic attack and peripheral vascular disease.

#### Where risk is underestimated

- 4. Patients with a strong family history of CVD (i.e. first-degree relatives: males with CVD before 55 years, females with CVD before 65 years) are likely to be at greater risk than the tables indicate:
- consider increasing one colour category.
- 5. Obese patients with a BMI of 30 kg/m<sup>2</sup> or more are likely to be at greater risk than the tables indicate:
- consider increasing one colour category.
- In patients with very high levels of total cholesterol ( > about 8.5–9 mmol/L) or blood pressure ( > about 170/100 mmHg) the risk equations may underestimate the true risk.



National Prescribing Service Limited

ACN 082 034 393 Level 1/31 Buckingham Street, Surry Hills 2010 Phone: 02 9699 4499 | Fax: 02 9699 5155 | email: info@nps.org.au | web: http://www.nps.org.au