

Risk Factors

Suggestion for international
harmonisation of vascular registries
minimum level of data



Smoking

- Level I
 - Current smoker
 - Previous smoker (> 3 months)
 - Never smoked

Hypertension

- LEVEL I
 - Yes (bp > 140/90 or medical treatment)
 - No
 - Unknown
- LEVEL II
 - If level I = yes
 - Treated controlled
 - Treated uncontrolled (bp > 140/90 despite treatment)
- LEVEL III, cause of hypertension
 - If level I = Yes
 - Essential hypertension
 - Renal sclerotic
 - Fibromuscular dysplasia
 - Other

Renal Disease

- Level I
 - No
 - Dialysis
 - Renal transplant
 - Unknown
- Level II
Independent of I
 - Creatinine level
- Level III
Independent of I/II
 - eGFR

Diabetes

- Level I
 - No
 - Yes
 - Unknown
- Level II
If level I = Yes
 - Insulin
 - Oral antidiabetic
 - Both
 - No treatment
- Level III
If level I = Yes
 - HbA1C

Ischemic Heart Disease

- Level I
 - Yes
 - No
 - Unknown
- Level II
If level I = Yes
 - Angina
 - Previous unstable angina
 - Previous Myocardial infarction
 - Previous PCI/CABG
 - Asymptomatic ischemic heart disease

} Previous Acute coronary syndrome
- Level III
If level I = Yes, Canadian Cardiovascular society scale
 - Class 0 Asymptomatic
 - Class I Angina only during strenuous or prolonged physical activity
 - Class II – Slight limitation, with angina only during vigorous physical activity
 - Class III – Symptoms with everyday living activities, i.e., moderate limitation
 - Class IV – Inability to perform any activity without angina or angina at rest, i.e., severe limitation

Congestive Heart Disease


- LEVEL I
 - Yes
 - No
 - Unknown
- LEVEL II
If level = Yes
 - Previous invasive treatment
- LEVEL III
- If level I = Yes, New York Heart association classification for heart failure
 - Class I No limitations. Ordinary physical activity does not cause undue fatigue, dyspnoea or palpitations (asymptomatic LV dysfunction).
 - Class II Slight limitation of physical activity. Ordinary physical activity results in fatigue, palpitation, dyspnoea or angina pectoris (mild CHF).
 - Class III Marked limitation of physical activity. Less than ordinary physical activity leads to symptoms (moderate CHF).
 - Class IV Unable to carry on any physical activity without discomfort. Symptoms of CHF present at rest (severe CHF).

Heart arrhythmia

- LEVEL I
 - Yes
 - No
 - Unknown
- LEVEL II
If level I = Yes
 - previous invasive treatment
- Level III
If level II = Yes
 - Ablation,
 - Pacemaker/ICD
 - Ablation and pacemaker/ICD

Pulmonary disease

- Level I
 - Yes
 - No
 - Unknown
- Level II
If level I = yes
 - No medical treatment
 - Medical treatment
 - Home oxygen
- (Level III)
The GOLD (= Global Initiative on Obstructive Lung Disease) classification of severity



The GOLD (= **G**lobal Initiative on **O**bstructive **L**ung **D**isease) classification of severity

- Stage 0: at risk; chronic cough and sputum production. Spirometry is normal.
- Stage I: mild COPD; mild airflow limitation (FEV1/FVC) less than 70% but FEV1 80% or more than predicted; usually, but not always, chronic cough and sputum production.
- Stage II: moderate COPD; worsening airflow limitation (FEV1 50-79% predicted) and usually progression of symptoms, with shortness of breath, especially on exertion.
- Stage III: severe COPD; further worsening of airflow limitation (FEV1 30-50% predicted), increased shortness of breath, and repeated exacerbations.
- Stage IV: very severe COPD; severe airflow limitation (FEV1 less than 30% predicted) or the presence of chronic respiratory failure.

Cerebrovascular disease

- Level I
Symptomatic cerebrovascular disease (Both Ischemic and hemorrhagi)
 - Yes
 - No
 - Unknown
- Level II
If level I = Yes
 - Transient ischemic attack
 - Ischemic stroke
 - Hemorrhagic Stroke
- Level III
If level II = Ischemic or hemorrhagic stroke, modified Rankin score
 - 0 No symptoms at all
 - 1 No significant disability despite symptoms; able to carry out all usual duties and activities
 - 2 Slight disability; unable to carry out all previous activities, but able to look after own affairs without assistance
 - 3 Moderate disability; requiring some help, but able to walk without assistance
 - 4 Moderately severe disability; unable to walk without assistance and unable to attend to own bodily needs without assistance
 - 5 Severe disability; bedridden, incontinent and requiring constant nursing care and attention
 - 6 Dead