

**New guidelines will focus on preventing fatal or non fatal atherosclerotic cardiovascular (CV) events. This can be achieved through lifestyle and risk factor intervention (using targets) and appropriate drug therapy. Clinical practice in preventing CVD should focus on high risk groups and equal priority should be given to the following groups:**

People with established symptomatic atherosclerotic cardiovascular disease (CVD) (previously known as secondary prevention)

People at high risk of developing symptomatic atherosclerotic CVD – estimated as  $\geq 20\%$  over 10 years using the risk prediction chart (previously known as primary prevention)

People with Type 1 or 2 diabetes mellitus

In addition those who have the following single conditions are considered to be at high risk of CVD regardless of other risk factors:

- Elevated blood pressure  $\geq 160$  mm Hg systolic or  $\geq 100$  mm Hg diastolic
- Elevated total cholesterol to HDL cholesterol ratio of  $\geq 6.0$
- Familial dyslipidaemia
- Family history of premature CVD

## Recommended Treatment Targets

### Blood Pressure

$< 140$  mm Hg systolic *and*  $< 85$  mm Hg diastolic

People with established CVD, diabetes and chronic kidney disease

$< 130$  mm Hg systolic *and*  $< 80$  mm Hg diastolic

### Cholesterol

Total cholesterol  $< 4.0$  mmol/L and LDL-cholesterol  $< 2.0$  mmol/L

*Or*

25% reduction in total cholesterol and 30% reduction in LDL-cholesterol *Whichever gets to the lowest cholesterol level*

### Blood Glucose

Fasting glucose  $\leq 6.0$  mmol/L

## Management Summaries

**All people with established atherosclerotic cardiovascular disease (CVD) should be managed through lifestyle intervention. Other risk factor targets are recommended as follows:**

**Cholesterol:** Reduce to recommended targets  
Use a statin in all high risk people with established atherosclerotic disease  
Use other classes of lipid lowering drugs in addition to a statin if recommended targets are not achieved

**Blood Pressure:** Reduce to recommended targets using the BHS AB/CD algorithm  
ABCD algorithm to be updated in the forthcoming NICE/BHS guidance

**Aspirin:** Use 75 mg daily in those with coronary and peripheral atherosclerotic disease  
Use 75-150 mg daily plus 200mg dipyridamole twice daily in those with cerebral infarction or transient ischaemic attack

**Clopidogrel:** Use 75 mg daily where aspirin is contraindicated or where a further event has occurred when taking aspirin/dipyridamole

**B-blockers:** Use following MI

**ACE-inhibitors:** Use for those with signs/symptoms of heart failure at time of MI, or those with persistent left ventricular systolic dysfunction ejection fraction  $< 40\%$   
Consider for others with coronary artery disease if blood pressure not below target (consider using ARB as alternative)  
Use in combination with thiazide in people with stroke especially if blood pressure is not below target

**Anticoagulates:** Use for people at risk of systemic embolisation following MI, heart failure, left ventricular aneurysm, atrial fibrillation or paroxysmal tachyarrhythmias

**All people at high risk of developing symptomatic atherosclerotic disease should be managed through lifestyle intervention. Other risk factor targets are recommended as follows:**

**Cholesterol:** Reduce to recommended targets  
Use a statin in all at high risk of developing CVD  
Use a statin in all with Type 1 and 2 diabetes mellitus above 40 years (and those under 40 years with certain risk factors)  
Use other classes of lipid lowering drugs in addition to a statin if recommended targets are not achieved

**Blood Pressure:** Reduce to recommended targets using the BHS AB/CD algorithm  
ABCD algorithm to be updated in the forthcoming NICE/BHS guidance

**Aspirin:** Once blood pressure is controlled use 75 mg in those aged  $> 50$  years with a total CVD risk  $\geq 20\%$

Use 75 mg in people with diabetes who are  $\geq 50$  years or who are younger but have had diabetes for more than 10 years

## Changes from the first Joint British Societies Recommendations (1998)

### JBS<sub>1</sub>

- Covers people with CHD & those at risk of developing CHD
- BP target for non diabetes  $< 140$  mm Hg systolic *and*  $< 85$  mm Hg diastolic  
Diabetes  $< 130$  mm Hg systolic *and*  $< 80$  mm Hg diastolic
- Total cholesterol  $< 5$  mmol/L (LDL-cholesterol  $< 3$  mmol/L)  
*Or*  
33% reduction of LDL-cholesterol from baseline in secondary prevention  
*Whichever gets to the lowest cholesterol level*

### JBS<sub>2</sub>

- Covers people with established CVD and those at high risk of CVD – all to be given equal priority in clinical practice (these populations have also been recognised as high risk in the NICE Statins Technology Appraisal, January 2006)
- BP target  $< 140$  mm Hg systolic *and*  $< 85$  mm Hg diastolic  
People with established CVD, diabetes and chronic kidney disease  $< 130$  mm Hg systolic *and*  $< 80$  mm Hg diastolic
- Total cholesterol  $< 4.0$  mmol/L and LDL-cholesterol  $< 2.0$  mmol/L  
*Or*  
25% reduction in total cholesterol *and* 30% reduction in LDL-cholesterol  
*Whichever gets to the lowest cholesterol level*