

Coronary Artery Bypass Graft (CABG)

In the United States, coronary artery bypass is a common procedure to treat coronary artery disease at all ages. There are two main types of bypasses.

The first

type involves the saphenous vein being removed from the leg, reversed in direction, and then attached into the aorta and coronary artery beyond the blockage. The second type involves freeing one end of the internal mammary artery from the chest wall and

attaching it to the coronary artery beyond the blockage. Often when more than one vessel is being bypassed, both types of bypasses are used (with the internal mammary bypassing the left anterior descending coronary artery). As many as 6 separate grafts may be constructed to the side of the aorta.

Coronary arteries less than 1mm in diameter by angiogram measurement are not suitable for bypass grafting. Indications for CABG are:

1. intractable angina not responding to medical therapy.
2. left main artery disease with greater than 50% stenosis.
3. silent ischemia noted on testing with significant 3-vessel disease.
4. 3-vessel disease with impaired left ventricular function (ejection fraction less than 50%).
5. 2 or 3-vessel disease if one of the vessels involved is the proximal LAD.

Studies have proven improved survival in left main disease and 3-vessel disease with impaired LV function. Most frequent complications from CABG surgery include:

Graft closures remain a limiting factor to the success of CABG. Graft closures immediately after surgery are due to acute thrombosis (clot formation). Closures a few months to years later are due to fibrosis or advancing atherosclerosis. The internal mammary artery graft is more likely to remain open than saphenous vein grafts.

The rating for a history of coronary artery bypass will depend primarily upon the age of the applicant and severity of underlying coronary artery disease. Negative factors include complications from the surgery, recurrent angina, abnormal follow-up treadmill, multiple cardiac risk factors present, and left ventricular dysfunction.

If your client has had coronary bypass surgery, please answer the following:

1. Please list date(s) of the bypass surgery:

2. How many vessels were bypassed?:

3. Has your client had any of the following?

Heart attack _____ (date)

Coronary angioplasty (PTCA) _____ (date)

Heart failure _____ (date)

Valve surgery _____ (date)

4. Is your client on any medications (including aspirin)?

If yes, please give details

5. Has a follow-up stress (exercise) ECG been completed since the CABG?

Yes – normal _____ (date)

Yes – abnormal _____ (date)

6. Has your client had any chest discomfort since the bypass surgery?

If yes, please give details

7. Please check if your client has had any of the following:

Abnormal lipid levels _____ Diabetes _____

Overweight _____ Elevated homocysteine _____

High blood pressure _____ Peripheral vascular disease _____

Irregular heart beat _____ Cerebrovascular or carotid disease _____

8. Has your client smoked cigarettes or any other form of tobacco in the last five years?

If yes, please give details _____

9. Does your client have any other major health problems (ex: cancer, etc.)? _____