

**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 64765

**Manuscript Type:** ORIGINAL ARTICLE

*Retrospective Study*

**Clinical application of individualized total arterial coronary artery bypass grafting in coronary artery surgery**

Chen WG *et al.* Individualized total arterial coronary artery bypass grafting

Wei-Guang Chen, Bai-Chun Wang, Yong-Ri Jiang, Ye-Yang Wang, Yang Lou

**Abstract**

BACKGROUND

### Match Overview

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**Crossref** 53 words

"Coronary Graft Failure", Springer Science and Business Media LLC, 2016

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## [2011 ACCF/AHA Guideline for Coronary Artery Bypass Graft ...](#)

<https://www.ahajournals.org/doi/10.1161/CIR.0b013e31823c074e>

The disadvantage of using the IMA is that it may spasm and eventually atrophy if used to bypass a coronary artery without a flow-limiting stenosis. 89,95,118,123 – 130 Observational studies suggest a...

Cited by: 1080

Author: L. David Hillis, Peter K. Smith, Jeffrey L. ...

Publish Year: 2011

## [ACC/AHA Guidelines for Coronary Artery Bypass Graft ...](#)

<https://www.ahajournals.org/doi/10.1161/01.CIR.100.13.1464>

A. Hospital Outcomes. Seven core variables (priority of operation, age, prior heart surgery, sex, left ventricular [LV] ejection fraction [EF], percent stenosis of the left main coronary artery, and number of...

Cited by: 518

Author: Kim A. Eagle, Robert A. Guyton, Ravin D...

Publish Year: 1999

## [Coronary Artery Bypass Grafts: Assessment with ...](#)

<https://pubs.rsna.org/doi/full/10.1148/rg.254045151>

Abstract Coronary artery bypass graft (CABG) surgery is the standard of care in the treatment of advanced coronary artery disease. It is well known that the long-term clinical outcome after myocard...

Cited by: 108

Author: Aletta Ann Frazier, Fauzia Qureshi, Katri...

Publish Year: 2005

## [Blood consumption in total arterial coronary artery bypass ...](#)

<https://cardiothoracicsurgery.biomedcentral.com/...> ▾

Jan 17, 2020 · We aimed to evaluate periprocedural blood loss and transfusion rates in elective, isolated total arterial coronary artery bypass grafting (CABG) using exclusively skeletonized bilateral intern...

Author: Raphael Sven Werner, Christoph Lipp...

Publish Year: 2020

## [Cardiac Surgery - Coronary Artery Bypass Grafting \(CABG\)](#)

<https://cardiacsurgery.ucsf.edu/conditions...> ▾

Coronary Artery Bypass Grafting (CABG) Coronary artery bypass grafting (CABG) is a type of surgery that improves blood flow to the heart. It's used for people who have severe coronary heart...

## [Coronary artery surgery: now and in the next decade](#)

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## Twenty-year outcomes of coronary artery bypass grafting ...

<https://pubmed.ncbi.nlm.nih.gov/30773385>

Nevertheless, the results from this and scarce other studies on 15- to 20-year outcomes of **total arterial revascularization** suggest that **cardiac surgeons** should embrace the **application of total arterial grafting** to further reduce the risks of long-term **cardiac** events, especially during the second decade after surgery.

## Indications for Coronary Artery Bypass Surgery and ...

<https://www.ahajournals.org/doi/full/10.1161/01.cir.0000094405.21583.7c>

Figure 1. Overall survival after random allocation to medical treatment or **coronary artery bypass graft** (CABG). At 5, 7, and 10 years, 10.2%, 15.8%, and 26.4% of patients, respectively, assigned to CABG had died, compared with 15.8%, 21.7%, and 30.5% of their medically assigned counterparts.

Cited by: 211

Author: Charanjit S. Rihal, Dominic L. Raco, Bernard...

Publish Year: 2003

## ACC/AHA Guidelines for Coronary Artery Bypass Graft ...

<https://www.ahajournals.org/doi/10.1161/01.CIR.100.13.1464>

A. Hospital Outcomes. Seven core variables (priority of operation, age, prior heart **surgery**, sex, left ventricular [LV] ejection fraction [EF], percent stenosis of the left main **coronary artery**, and number of major **coronary arteries** with significant stenoses) are the most consistent predictors of mortality after **coronary artery surgery**.

Cited by: 517

Author: Kim A. Eagle, Robert A. Guyton, Ravin Davi...

Publish Year: 1999

## Coronary artery surgery: now and in the next decade

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3563555>

NOW **Arterial** revascularization. **Coronary artery surgery** has been the cornerstone of treatment of **coronary artery** disease since the introduction of aortocoronary **bypass** as a routine **clinical** procedure by Favaloro in Cleveland in 1968 [1]. In 1986 Loop and colleagues documented the superiority of the internal mammary **artery graft** for 10-year survival and other cardiac events.

Cited by: 4

Author: J C Ennker, I C Ennker

Publish Year: 2012

1

2

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4

5

&gt;

## Coronary Artery Bypass Graft (CABG)

A surgical procedure wherein a healthy artery or vein is grafted to bypass the blocked artery/vein.

**Type of procedure:** Can be invasive or noninvasive

**Recovery time:** Can take several weeks

**Duration:** About 3-5 hours

**Hospital stay:** Typically a few days

### May treat

[See all \(3+\)](#)

#### Arteriosclerosis ...

Very common

A condition where the arteries become narrowed and hardened.

[Read more](#)

#### Angina

Very common

Chest discomfort or shortness of breath caused when heart muscles ...

[Read more](#)

### What to expect before procedure

- Tests done before include Chest X-ray, Coronary angiography, Electrocardiogram, Echocardiography or others.
- If the surgery is pre-planned, instructions for fasting and medication may be given.
- Carry your belongings to the hospital for stay of 5 to 7 days.
- For convenience, an adult family member accompanying is advised.

### What to expect during procedure

- General anesthesia is given before the surgery.
- Incisions are made to take a graft (a healthy blood vessel) from another part of the body like arm or leg.
- Incisions are made in the area of heart and the grafting is done such that the blood passes through the graft instead of the blocked artery (bypass).
- Sometimes, more than one graft are required; this depends on the blockage/s.
- Incisions are covered and bandaged.