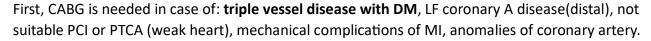
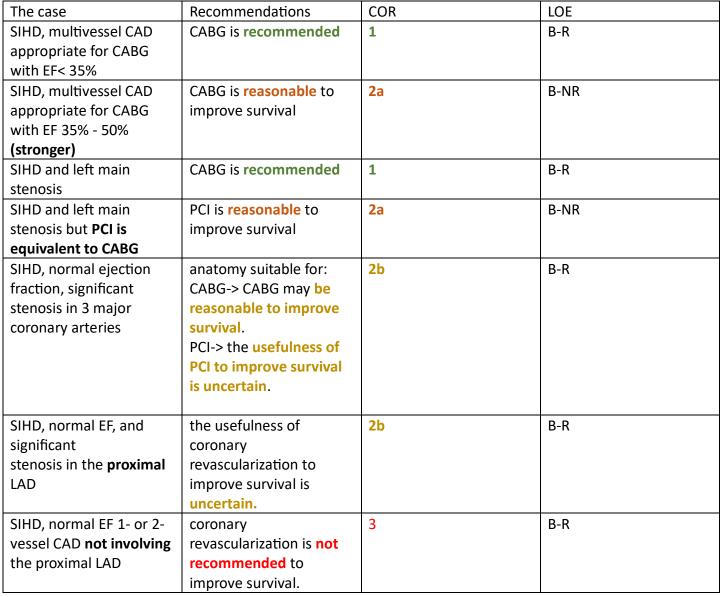
CABG:

-we need to use angiography to find the problem, by going into the vessel with a catheter.

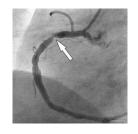
Management:

1 - Indication of surgery: (CABG)



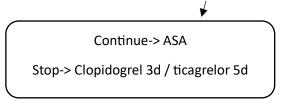


⁻ Ideal situations for <u>Heart Team</u> consideration include patients with complex coronary disease, comorbid conditions that could impact the success of the revascularization strategy, and other clinical or social situations that may impact outcomes.



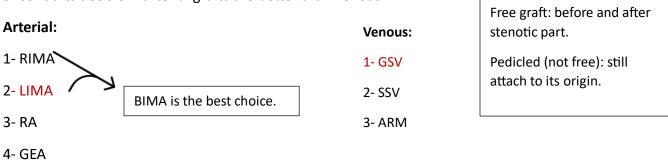
2- preoperative evaluation:

Respiratory evaluation (due to heart-lung machine), renal evaluation, infection evaluation, carotids, liver, frailty, liver, thyroid, medications, coagulopathy.



Patient clinical status: **elective** (stabile cardiac function -> could be deferred), **urgent** (intervention at the same hospital), **emergency** (no delay), **emergency/salvage.**

3- conduits decision: arterial grafts are better than venous.



- one surgeon takes out the venous graft from the lower limb while the other takes out the arterial one from the

thoracic area (faster)

5-IEA

4- operation decision: you must make the completed plan before operation.

5-ERAS: by preoperative, intraoperative and postoperative components.

Surgical techniques

Sternotomy (wax is used to prevent bleeding) -> thymus is removed -> cut the coronary artery where the graft will attach -> attach the graft.

- betablockers are used to slow heart rate.

Heart lung machine: cannulas is put in venous and arterial sides (2 circulations: systemic and heart lung machine circulation)

Stop the heart by adding extra canula to insert potassium filled

Instrumentation:

1- octopus device: hold the heart steady.

2- star fish device: hold the heart steady, it's put on the apex to be moved to the point of surgical intervention.

Done by: mariam qussay