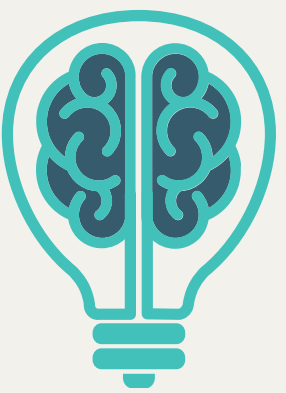




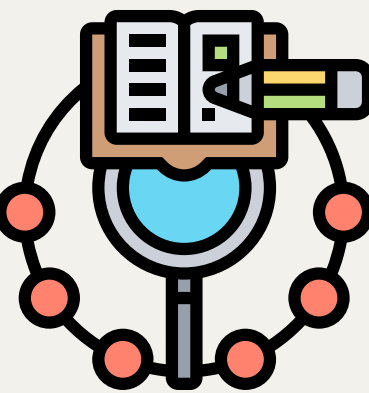
OFFPUMP MIDCAB WITH PARTIAL LOWER STERNOTOMY; A LESS INVASIVE APPROACH WITH A MAXIMUM EXPOSURE

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OBJECTIVE

- TO DEMONSTRATE THE SAFETY AND EFFICACY OF THIS TECHNIQUE.
- MIDCAB DONE THROUGH LEFT ANTERIOR THORACOTOMY CATERS LAD LESSIONS ONLY.
- PARTIAL LOWER STERNOTOMY PROVIDES GOOD ACCESS TO LEFT AND RIGHT SIDED LESSIONS.



MATERIALS AND METHODS

- SINGLE CENTER EXPERIENCE
 - RETROSPECTIVE STUDY
 - JAN 2021 TO MARCH 2022
- 64 PATIENTS UNDERWENT OFFPUMP MIDCAB
 - MEAN AGE 65+/- 5.3 (59-73)YRS
 - 28 PTS HAD DVCAD
 - 09 PT HAS SVCAD
 - 27 PTS HAD TVCAD
- LIMA WAS USED TO GRAFT LAD & GREAT SAPHENOUS VEIN FOR THE REST.

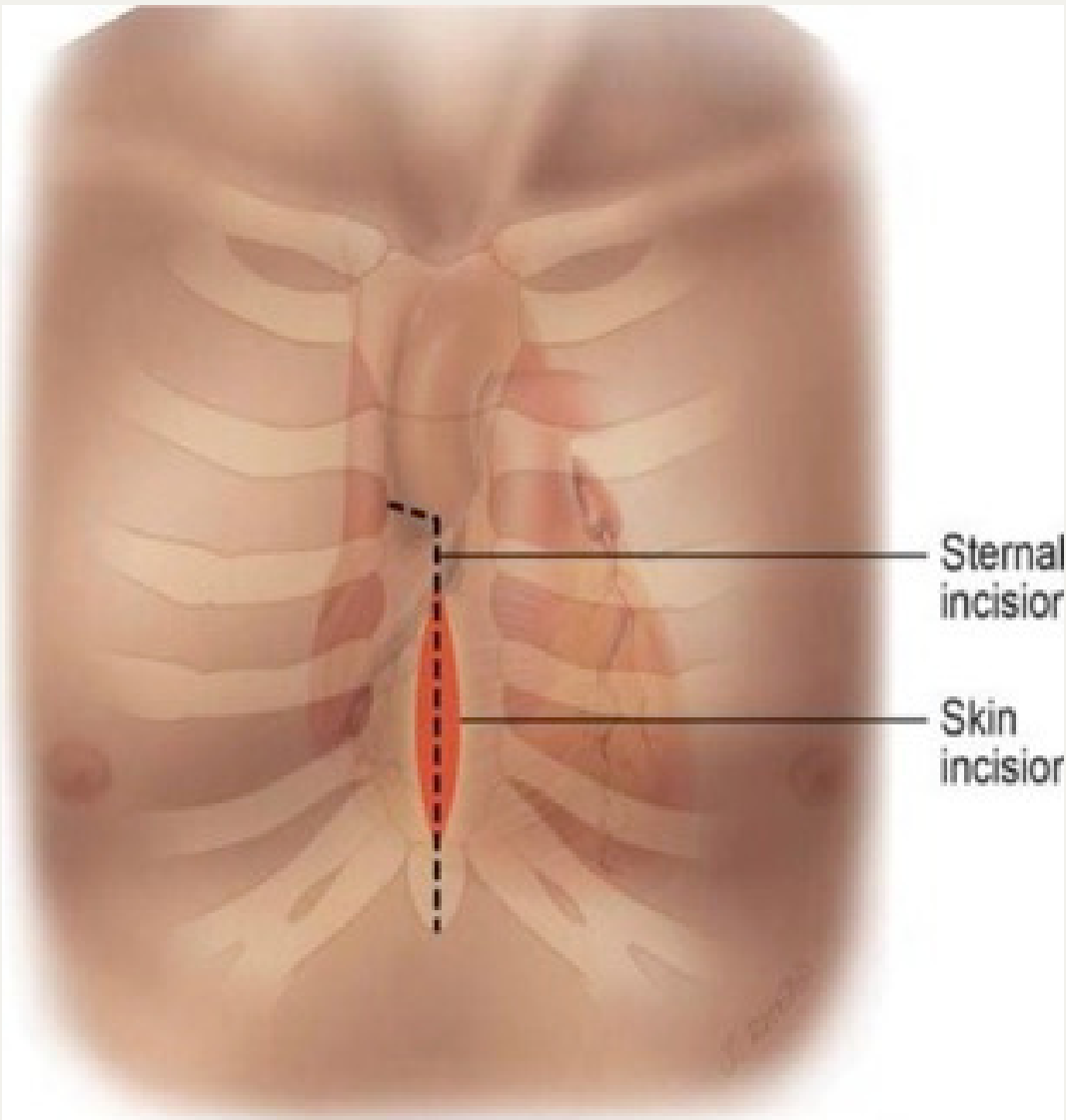


EXCLUSSION CRITERIA

- MORBID OBESITY
- SEVERELY IMPAIRED LV FUNCTION
- CHRONIC KIDNEY DISEASE
- SIGNIFICANT CAROTID AND NEUROLOGIC DISEASE



SURGICAL TECHNIQUE



RESULTS

- LENGTH OF INCISION 8.47 +/- 1.2CM (RANGE 7.5-10)CM
- AVERAGE NUMBER OF GRAFTS 2 (1-3)
- NO BLOOD TRANSFUSSION REQUIRED
 - NO STERNAL DEHISCENCE
- LIMA HARVESTING ANG GRAFTING DONE WITH SAME EASE AS WITH FULL STERNOTOMY
- LEFT AND RIGHT SIDED LESSIONS ADDRESSED WITH SAME EASE AS WITH FULL STERNOTOMY.
 - LESS POSTOPERATIVE PAIN, EARLY MOBILIZATION
 - SHORTER HOSPITAL STAY
 - IMPROVED COSMESIS
- NO POSTOPERATIVE ANGINA WAS REPORTED.



CONCLUSION

- Partial lower sternotomy is a less invasive and effective approach for off pump MIDCAB providing surgeon the same amount of ease for harvesting LIMA and grafting left and right sided lesions.
- It offers better sternal stability and improved cosmesis.



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