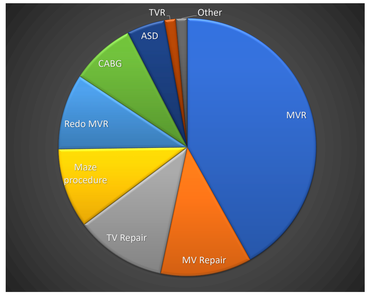
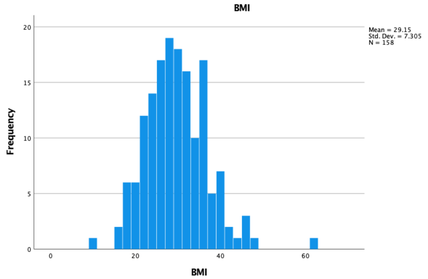
# ROBOTIC CARDIAC SURGERY: IS IT RESERVED TO ONLY LOW RISK PATIENT ONLY ?

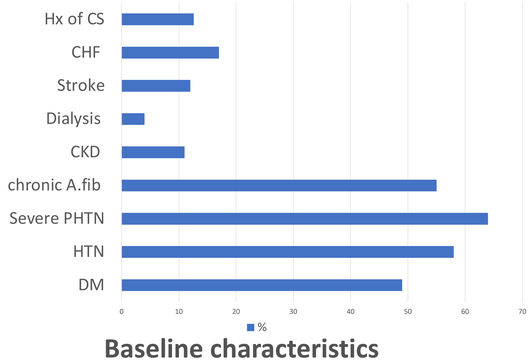
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## INTRODUCTION:

- Robotic cardiac surgery is a sophisticated procedure which has been limited to certain extra-cardiac and some intra-cardiac low risk surgery. Our study to determine medium- and high-risk outcome patients.



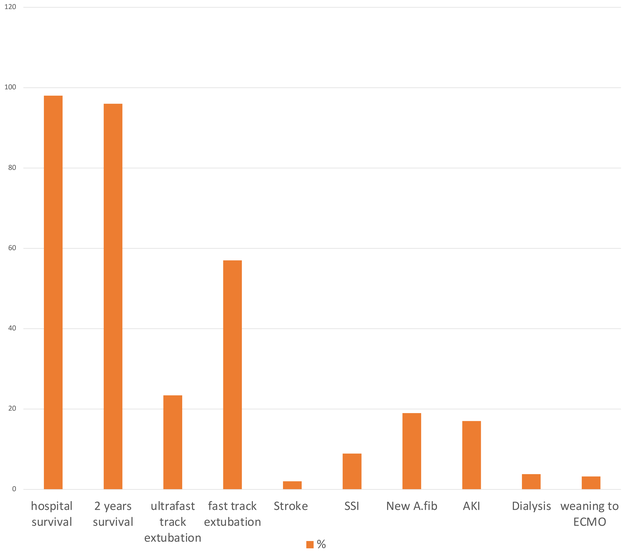

Baseline characteristics

## METHODS:

- Between Feb.2019 and June2021, 158 patients underwent robotic cardiac surgery (intra and extra-cardiac). Mean age 48±14yrs, 34% were male. Mean BMI 29±7.3kg/m2.
- History of DM 49%, HTN 58%, Severe PHTN 64%, Chronic A. Fib. 55%, CKD & Dialysis 11%, 4%, respectively. Previous Stroke 12%, CHF 17% and STS score of 1-4 in 83%, 5-8 in 9.5%, >8% in 6.5%. Previous cardiac surgery in 12.6%.

## RESULTS:

- Hospital and 2-year Survival were 98% & 96%, respectively. Freedom of blood transfusions in 30%, and <3 units in 42%. Median LOS 6 days and LOS<7days in 56%. Ultrafast track and Fast track extubation were in 23.4%, 57%, respectively.
- Postop Stroke 2%, SSI 8.9%, new incidence of A. Fib 19%, AKI and dialysis 17%, 3.8%, respectively. Weaning CPB on ECMO 3.2%.




**Post operative outcome of Robotic assisted cardiac surgery**

## CONCLUSION:

- **Despite the high-risk patient cohort, obesity and previous history cardiac surgery robotic cardiac surgery improves patient's postop journey, LOS, morbidity and mortality, once learning is achieved.**