ENDOSCOPIC MITRAL VALVE SURGERY IN OCTOGENARIANS: EARLY AND MID-TERM RESULTS

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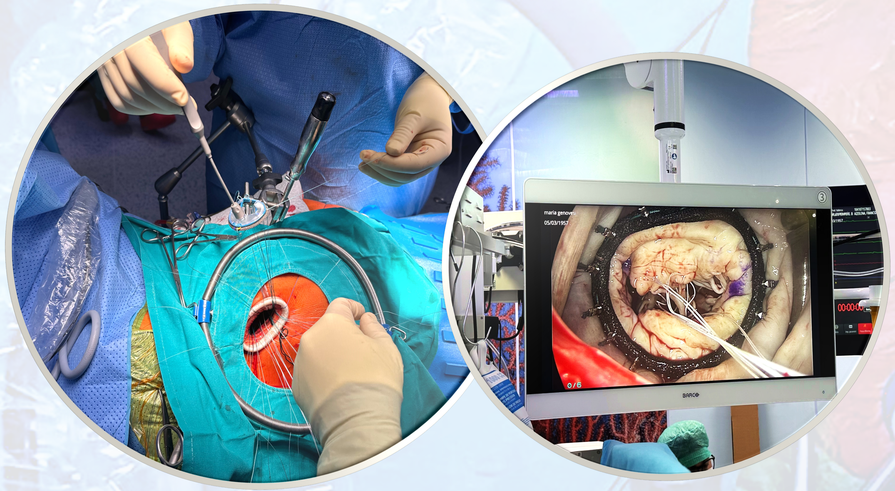
INTRODUCTION

Background
According to the guidelines, in centres with a high degree of procedural expertise, mitral valve repair is the treatment of choice. Longer life expectancy leads to an increase in cardiac surgery after the age of 80.

Our purpose
The purpose of this study is to summarise the experience of endoscopic mitral valve surgery in octogenarians, evaluating the safety of the procedures and the short- and medium-term results in terms of life expectancy of life.



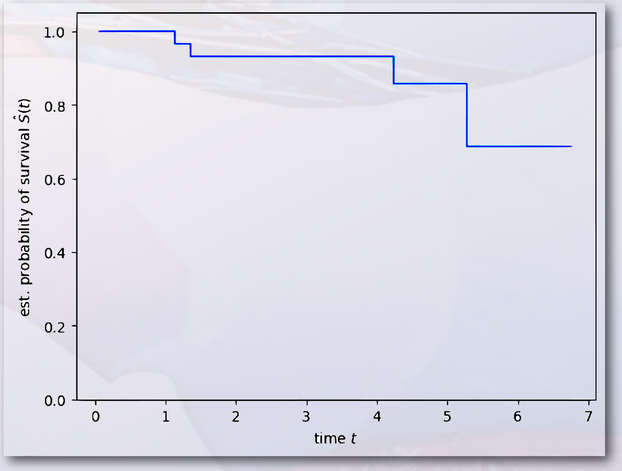
METHODS

From July 2015 to April 2023 35 patients with age of 80 or above underwent isolated or concomitant mitro-tricuspid surgery via 4 cm right thoracotomy in totally endoscopic setup. All electronic health records were reviewed for this study and all data are available in our Institute's electronic health system. Telephone calls were used for recent follow-up data and recent outpatient clinic records.

RESULTS

The mean age of the patients was 82.7 years, 62% were male. Mitral valve repair surgery was performed in 76% of the cases examined. The average hospital stay at our Institute was 8.3 days. At a mean follow-up of 3 years, the survival rate was 88.2%. Only 2 patients among the survivors had moderate or greater residual mitral valve regurgitation. The mean NYHA class was 1.4 (only three patients had NYHA class 3 or higher).

Perioperative Data	
IOT time *(mean)*	8.95 h
ICU stay *(mean)*	1.2 d
Hospital stay *(mean)*	8.3 d
Blood transfusion	8 %
Home discharge	42.8 %
Mortality 30d	0 %
Major adverse events	0 %
NYHA *(mean)*	1.0
Follow up Data	
Survival Rate 7y	88.2 %
Major adverse events	0 %
NYHA *(mean)*	1.4



CONCLUSIONS

Endoscopic mitral valve surgery is a valid technique for special groups such as octogenarians. It can produce excellent results with a good repair rate and less surgical trauma. Our experience showed safe feasibility, excellent early and good mid-term results.