

ONE THOUSAND CASES AND ELEVEN YEARS OF ENDOSCOPIC MITRAL SURGERY: EVOLUTION AND STATE OF THE ART

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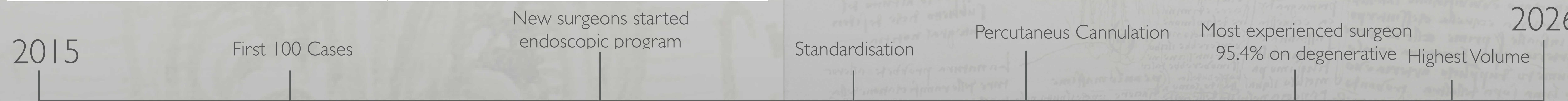
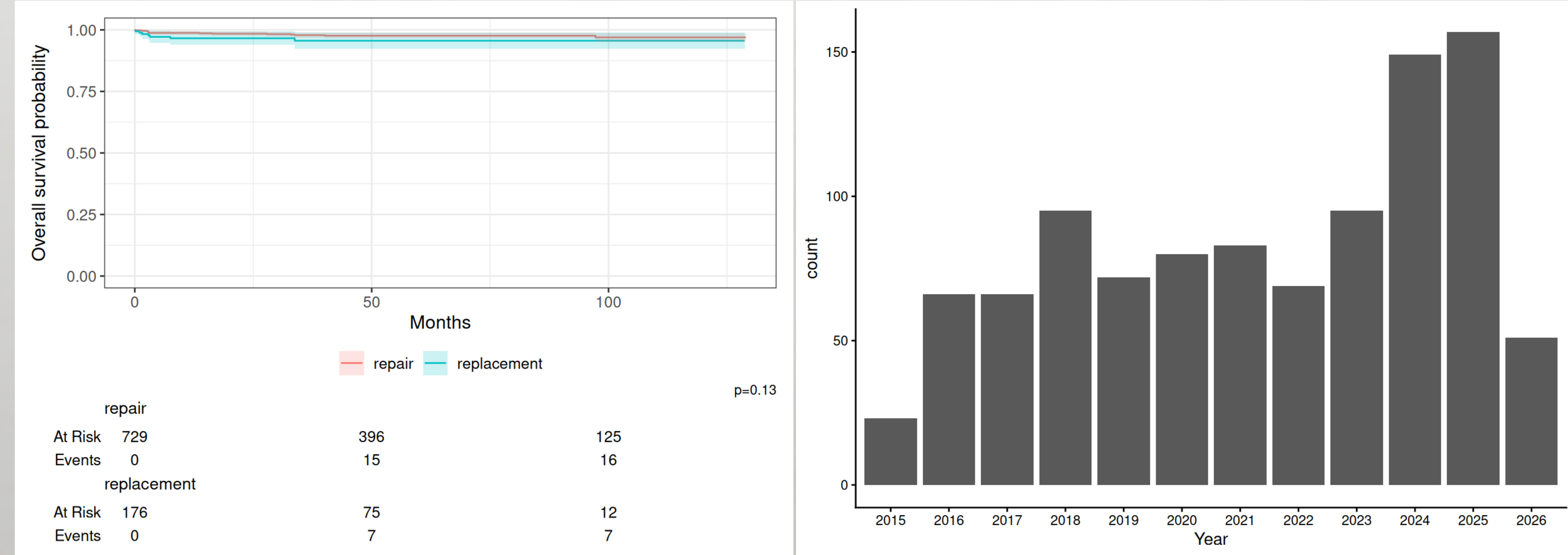
Introduction

Endoscopic mitral valve surgery is relatively new in mitral valve surgery field. It has potential to become a standard of care for isolated mitral valve surgery. Aim of this study to review experience of endoscopic mitral valve surgery program of 11 years.

Methods

Study design and Participants

A total of 1006 patients underwent from 1 January 2015 to 1 Gen 2026 mitral valve surgery as a isolated or combined with tricuspid valve surgery through the right mini-thoracotomy. All procedures were performed using endoscopic approach previously described by our team.



Statistical methods and analysis

Continuers variables were presented as means and standard deviation, categorical variables as proportions. Two sided statistics were performed with a significance level of 0.05. For all analysis R Statistical Computing Environment[3] were used with RStudio (RStudio (2019). RStudio: Integrated development environment for R (Version 1.1) [Computer software]. Boston, MA. Retrieved May 1, 2019. Available from <http://www.rstudio.org/>)

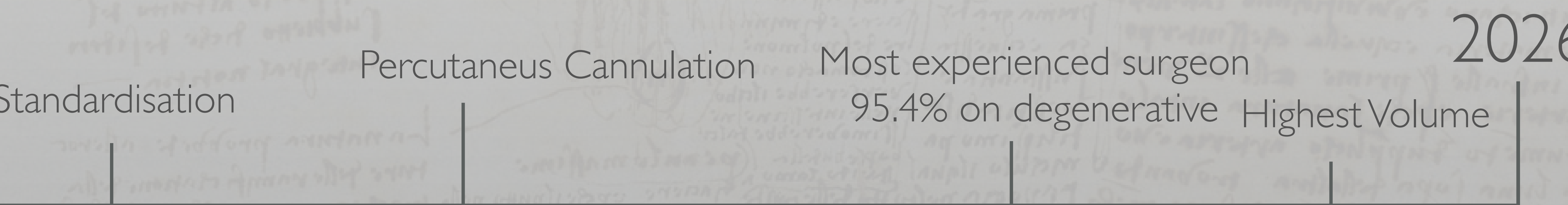
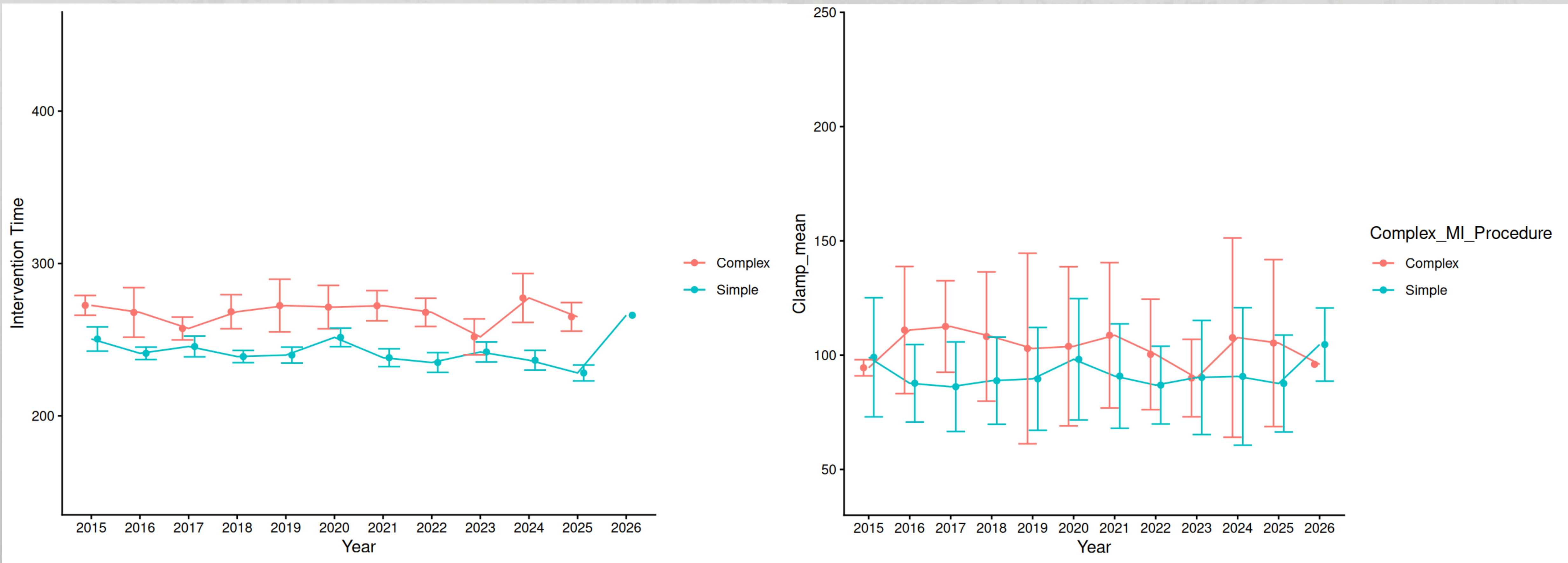


Results

Overall mortality for these series was 2 (0.2257336%). Allover repair rate was 729 (80.55249%). Survival rate at mean 51.9 months of follow up mortality rate was 59 (5.9%), survival was 94.1%. Repair rate on degenerative disease alone was 708 (90.1%). In 11 years of experience 5 new operators were formed. All the resulting newbie surgeons perform at least 30/cases a year. There were non survival differences when stratified for sex, mitral procedure type or high bmi cohort.

Conclusions

Within 11 years of endoscopic mitral valve surgery it proved to be safe, reliable, reproduce with excellent results. In our institution it is considered as approach for all-comers.



References

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3. R Core Team. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing; 2017. <http://www.R-project.org/>.