

<https://doi.org/10.52418/moldovan-med-j.66-2.23.05>  
UDC: 616.126.42-089



## Repair surgical techniques in degenerative cardiac valve disease

Vitalie V. Moscalu

Department of Heart Surgery, Institute of Cardiology, Chisinau, the Republic of Moldova

Author's ORCID iD, academic degrees and contributions are available at the end of the article

\*Corresponding author – Vitalie V. Moscalu, e-mail: vitalie\_moscalu@yahoo.com

Manuscript received May 31, 2023; revised manuscript July 17, 2023; published online December 27, 2023

### Abstract

**Background:** Re-evaluation of reconstructive possibilities in the correction of degenerative mitral valve disease is of great clinical necessity nowadays. **Material and methods:** Analyzing the nature of the pathologies that determined the development mechanism of valve insufficiency, 136 cases of anterior cusp prolapse and 152 cases of posterior cusp prolapse were determined. **Results:** Cord rupture was established in 79 (58.9%) patients, cusp defects ("Cleft") were appreciated in positions A1, A2, A3 – 15 cases (5.9%) and in P1, P2, P3 – in 92 (86.6%) cases. The surgical techniques performed were separated into: (1) resection – for the anterior and posterior cusps – 45 cases and accompanied by the slide – in 30 cases; (2) with Gore-Tex neo-chordal implantation – 115 cases, with cord transfer – 30; (3) Cusp enlargement with autologous pericardium – 5 cases, Alfieri procedure – 8. Implantation of a support ring required 130 (97.0%) patients. The correction of the associated valve disease required 125 patients (De Vega – 89.1%, ring – 8). Coronary bypass was required – 16 patients. There were no postoperative fatal cases. **Conclusions:** Based on the data obtained, reconstructive repair surgery can be recommended for valves of degenerative, post-traumatic, ischemic, post-endocardial etiology as effective and sustainable techniques over time, being a superior alternative to replacement with prosthetic valves. **Key words:** mitral valve repair, degenerative valve disease, cardiac valve surgery.

#### Cite this article

Moscalu VV. Repair surgical techniques in degenerative cardiac valve disease. *Mold Med J.* 2023;66(2):29-35. <https://doi.org/10.52418/moldovan-med-j.66-2.23.05>.