

# 27<sup>th</sup> European Cardiology Conference

October 22-24, 2018 | Rome, Italy



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### Mitral Repair and Mini-invasive Surgery: Long Term Results

Minimally invasive surgical mitral valve repair (MVRepair) has become routine for the treatment of mitral valve regurgitation, and indications have been expanded to include reoperations. Current European Society of Cardiology/European Association for CardioThoracic Surgery guidelines for the management of valvular heart disease recommended standards in terms of mitral valve disease differentiation, timing of intervention and surgical techniques to improve patient care. Numerous minimally invasive techniques to lessen the invasiveness have been described, such as the minimal-access J-sternotomy (ministernotomy), the parasternal incision, the port-access technique and the right minithoracotomy. Despite the development of catheter-based techniques, surgical repair remains the gold standard today for nearly all patients with degenerative valvular diseases and the majority of patients with other types of valvular diseases. Techniques include resection of the prolapsed segment, neo-chordae implantation and ring annuloplasty. The right anterolateral minithoracotomy in the third/ fourth intercostal space is currently the most commonly applied approach. For these procedures, videoscopic assistance and the use of tele-manipulative robots (e.g. da Vinci system) are adjunctive techniques for further decreasing trauma of the surgical access. In experienced hands, the minimally invasive approach has shown excellent results with regard to operative complications and the durability of surgical MVRepair. Furthermore, today MVRepair is the gold standard for treatment of significant MR with results of high patient satisfaction, short hospital stays, low perioperative morbidity and mortality rates and excellent long-term outcomes.

### Biography

Martinelli Gian Luca is currently working as Vascular Surgeon at San Gaudenzio Clinic - Gruppo Policlinico di Monza- Novara, Italy. From 2014-2015: Head of Cardiac Surgery Department Policlinico di Monza- Monza Brianza, Italy. September 2012 to May 2014 co-Director of Cardiac Surgery Service, Casa di Cura Santa Maria (private hospital accredited by Servizio Sanitario Nazionale - Italian National Health Service), Bari. From 2002-2012: Head of Cardiac Surgery service in the Cardiovascular Department of St. Anna Hospital, Catanzaro, referral Center accredited by Servizio Sanitario Nazionale (Italian National Health Service). Free-lance cardiac surgeon with Azienda Sanitaria Ospedaliera San Giovanni Battista-Molinette Hospital in Turin in 2001. In 2000: Consultant for the Jo Ann Medical Center of Tblisi, Republic of Georgia, where I initiated the first Center of Cardiosurgery for adults, with the support of local government. From January 2 1996 - August 2000: Full-time Staff Assistant at the Cardiovascular Surgery Department of the Hospital Villa Maria Pia in Turin. Responsibilities as primary surgeon. From January 26 1994-January 2 1996: Staff Assistant at the Organic Surgery Unit for Cardio and Vascular Surgery of the Silvestrini Hospital of Perugia (Head: Professor Ugo Mercati).