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New insights into the surgical treatment of mitral regurgitation

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New Insights into the Surgical Treatment of Mitral Regurgitation

Wobbe Bouma

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Foar Pake Atte



18-04-1922 – 30-08-2011

Abbreviations

| | |
|---------|--|
| 2D | Two-dimensional |
| 3D | Three-dimensional |
| A | Atrium |
| A | Apposition |
| AA | Anterior mitral annulus |
| Ab | Antibodies |
| AC | Anterior commissure |
| AC | Antegrade cardioplegia |
| AC | Arterial cannula |
| ACC | Aortic cross-clamp |
| ACC | American College of Cardiology |
| ACE(i) | Angiotensin-converting enzyme (inhibitors) |
| AD | Annular diameter |
| AHA | American Heart Association |
| AIMR | Acute ischemic mitral regurgitation |
| AL | Anterolateral (mitral annulus) |
| ALPM | Anterolateral papillary muscle |
| ALPMI | Anterolateral papillary muscle infarction |
| ALPMR | Anterolateral papillary muscle rupture |
| (A)MI | (Acute) myocardial infarction |
| AM(V)L | Anterior mitral valve leaflet |
| Ao | Aorta |
| AoC | Aortic cannula |
| AoV | Aortic valve |
| aPLs | Antiphospholipid antibodies |
| APS | antiphospholipid syndrome |
| APTAR | Anterior / posterior tethering angle ratio |
| (AP)4CH | (Apical) four-chamber view |
| ARN | Aortic root needle |
| ATA | Anterior tethering angle |
| AUC | Area under the curve |
| AV | Atrioventricular |
| AVC | Atrioventricular canal |
| AVN | Atrioventricular node |
| BC | Bulbus cordis |
| BZ | Basal zone |
| CA | Camera access |
| CABG | Coronary artery bypass grafting |

| | |
|-----------------|---|
| CAD | Coronary artery disease |
| CE | Carpentier-Edwards |
| CHF | Congestive heart failure |
| CI | Confidence interval |
| CIMR | Chronic ischemic mitral regurgitation |
| CK(-MB) | Creatine phosphokinase (myocardial band) |
| C(L) | Coaptation (line) |
| CMA | Carpentier-McCarthy-Adams |
| (C)MR(I) | (Cardiac) magnetic resonance (imaging) |
| CO ₂ | Carbon dioxide (line) |
| Coapt | Coaptation |
| CPB | Cardiopulmonary bypass |
| CRP | C-reactive protein |
| CRT(-D) | Cardiac resynchronization therapy (-defibrillator) |
| CS | Coronary sinus |
| CSD | Cardiac support device |
| CT | Chordae tendinae |
| CT | Computertomography |
| CTSNI | Cardiothoracic Surgical Trials Network |
| CVA | Cerebrovascular accident |
| CW | Commissural width |
| CZ | Clear zone |
| DDD | Dual chamber / dual demand |
| ds-DNA | Double stranded deoxyribonucleic acid |
| EACTS | European Association of CardioThoracic Surgery |
| EC | Endocardial cushion(s) |
| EF | Ejection fraction |
| ERO(A) | Effective regurgitant orifice (area) |
| ES (II) | EuroSCORE (II) |
| ESC | European Society of Cardiology |
| ET | Endocardial tubes |
| F | Female |
| FDA | Food and Drug Administration |
| FO | Foramen ovale |
| FO | Fossa ovalis |
| FVC | Fibrous valvular continuity |
| GA | Groin access |
| GIPS-III | Glycometabolic Intervention as adjunct to Primary percutaneous intervention in ST elevation myocardial infarction-III trial |
| HOCM | Hypertrophic obstructive cardiomyopathy |
| HR | Hazard ratio |
| IABP | Intra-aortic balloon pump |

| | |
|----------|---|
| IACUC | Institutional animal care and use committee |
| IAG | Interatrial groove |
| ICD | Implantable cardioverter defibrillator |
| IMR | Ischemic mitral regurgitation |
| IPMD | Interpapillary muscle distance |
| IRA | Infarct-related artery |
| ISHLT | International Society of Heart and Lung Transplantation |
| IV | Intravenous |
| IVCC | Inferior vena cava cannula |
| IVS | Interventricular septum |
| L | Lateral (mitral annulus) |
| LA | Left atrium |
| LAD | Left anterior descending coronary artery |
| LCC | Left coronary cusp |
| (L)Cx | (Left) circumflex coronary artery |
| LFT | Left fibrous trigone |
| LGE | Late gadolinium-enhanced |
| (Log) ES | (Logistic) EuroSCORE |
| LS | Libman-Sacks |
| LV | Left ventricle (/ ventricular) |
| LVEDD | Left ventricular end-diastolic diameter |
| LVEDP | Left ventricular end-diastolic pressure |
| LVEDV | Left ventricular end-diastolic volume |
| LVEF | Left ventricular ejection fraction |
| LVESD | Left ventricular end-systolic diameter |
| LVESV | Left ventricular end-systolic volume |
| LVF | Left ventricular function |
| LVOT | Left ventricular outflow tract |
| M | Male |
| M | MitraClip |
| MAA | Mitral annular area |
| MI | Myocardial infarction |
| MIMVS | Minimally invasive mitral valve surgery |
| MPI | Myocardial performance index |
| MR | Mitral regurgitation |
| MS | Mitral stenosis |
| MT | Minithoracotomy |
| MTD | Mitral transverse diameter |
| MV | Mitral valve |
| MVA | Mitral valve annulus |
| MVA | Mitral valve annuloplasty |
| MVA | Mitral valve area |

| | |
|-------------|---|
| MVO | Mitral valve orifice |
| MVP | Mitral valve plasty / repair |
| MVR | Mitral valve replacement |
| MVTa | Mitral valve tethering area |
| MVTI | Mitral valve tethering index |
| MVTv | Mitral valve tethering volume |
| N | Normal values |
| n | Number |
| NA | Not available / applicable |
| NCC | Non-coronary cusp |
| NR | Not reported |
| NS | Not specified |
| NSTEMI | Non ST-segment elevation myocardial infarction |
| NBTE | Non-bacterial thrombotic endocarditis |
| NYHA | New York Heart Association |
| OR | Odds ratio |
| PA | Primitive atrium |
| PA | Posterior (mitral) annulus |
| PAP | Pulmonary artery pressure |
| PBV | Percutaneous balloon valvuloplasty |
| PC | Posterior commissure |
| PCh | Primary chords / chordae |
| PCI | Percutaneous coronary intervention |
| PCWP | Pulmonary capillary wedge pressure |
| PHT | Primary heart tube |
| PISA | Proximal isovelocity surface area |
| (P)LAX | Parasternal long-axis view |
| PM | Papillary muscle |
| PMI | Papillary muscle infarction |
| PMPM | Posteromedian papillary muscle |
| PMPMI | Posteromedian papillary muscle infarction |
| PMPMR | Posteromedian papillary muscle rupture |
| PMR | Papillary muscle rupture |
| PM(V)L | Posterior mitral valve leaflet |
| post-MI PMR | Post-myocardial infarction papillary muscle rupture |
| (PR-)PTFE | (Pledget reinforced) polytetrafluorethylene |
| PSAX | Parasternal short-axis view |
| PTA | Posterior tethering angle |
| PTMA | Percutaneous transvenous mitral annuloplasty |
| Pts | Patients |
| PV | Primitive ventricle |
| PV | Pulmonary valve |

| | |
|-------|--|
| RA | Right atrium |
| RA | Retractor access |
| RAA | Right atrial appendage |
| RC | Retrograde cardioplegia |
| RCA | Right coronary artery |
| RCC | Right coronary cusp |
| Ref | Reference |
| RFT | Right fibrous trigone |
| RLPV | Right lower pulmonary vein |
| ROC | Receiver operating characteristic |
| RUPV | Right upper pulmonary vein |
| RV | Regurgitant volume |
| RV | Right ventricle |
| RZ | Rough zone |
| S | Septal (mitral annulus) |
| SA | Subvalvular apparatus |
| SAM | Systolic anterior motion |
| SCh | Secondary chords / chordae |
| SD | Standard deviation |
| SE | Standard error |
| SL | Septolateral |
| SLE | Systemic lupus erythematosus |
| SP | Septum primum |
| SSI | Systolic sphericity index |
| STEMI | ST-segment elevation myocardial infarction |
| SVCC | Superior vena cava cannula |
| T | Tumor |
| TA | Truncus arteriosus |
| TA | Tenting area / Tethering area |
| TCh | Tertiary chords / chordae |
| TEE | Transesophageal echocardiography |
| TH | Tenting height / Tethering height |
| TIMI | Thrombolysis in myocardial infarction |
| TR | Tricuspid regurgitation |
| TTE | Transthoracic echocardiography |
| TV | Tricuspid valve |
| V | Ventricle |
| V | Vegetation |
| V | Vent |
| VC | Vena contracta |
| VC | Venous cannula |
| WMSI | Wall motion score index |

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