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## SESSIONI POSTER

## SALA WASHINGTON A

**1° SESSIONE POSTER COMUNICAZIONI BREVI**

## FOLLOW-UP E CARDIOCHIRURGIA

Moderatori: P. Festa (Massa); M. Padalino (Padova)

P1 OUTCOME OF PULMONARY VALVE REPLACEMENT IN OPERATED FALLOT. CAMPARISON WITH NON REOPERATED PATIENTS P. Festa, L. Ait-Ali, S. Turchi, C. Passino, V. Siciliano, D. De Marchi, B. Murzi (Massa, Pisa)

P2 IN OPERATED FALLOT IS RV TELEDIASTOLIC VOLUME > 170 ML/M2 A VALID CUT-OFF FOR INDICATION TO PULMONARY VALVE REPLACEMENT? V. Siciliano, L. Ait-Ali, C. Passino, G. Gnassi, M. Bernabei, M. Deiana, P. Festa (Massa, Pisa)

P3 CLINICAL COURSE AND OUTCOMES OF 39 PREGNANCIES IN 21 WOMEN AFFECTED BY CONGENITAL HEART DISEASE (CHD) D. Cassater, M.A. Prioli, A. Cristofaletti, L. Rossetti, G.B. Luciani, C. Vassanelli (Verona)

P4 INCIDENCE OF CONGENITAL HEART DISEASE IN A SERIES OF OUTPATIENTS REFERRED TO A TERTIARY LEVEL PEDIATRIC CARDIAC CENTER I. Kristo, A. Lunardini, V. De Lucia, S. Recla, L. Ait Ali, I. Spadoni, S. Giusti, A. Biagini (Massa, Pisa)

P5 SIZE MATCHING IN PEDIATRIC HEART TRANSPLANTATION P.A. Abbruzzese, E. Aidala, M.T. Cascarano, C. Riggi, A. Rizzo (Torino)

P6 RELATION OF RIGHT VENTRICULAR FUNCTION TO CARDIAC PERFORMANCE IN ADULTS PATIENTS WITH SYSTEMIC RIGHT VENTRICLE D. Alfano, G. Scognamiglio, B. Sarubbi, M. D'Alto, E. Romeo, G. Di Nardo, D. Colonna, M. Palma, G. Pacileo, M.G. Russo, R. Calabrò (Napoli)

P7 LONG TERM RESULTS OF TRANSCATHETER TREATMENT OF RIGHT VENTRICULAR OUTFLOW TRACT OBSTRUCTION IN THE FIRST YEAR OF LIFE I. Spadoni, A. Lunardini, I. Kristo, L. Ait-Ali, S. Recla, V. De Lucia, S. Giusti (Massa)

P8 CARDIAC SURGERY AFTER PDA STENTING IN DUCT-DEPENDENT PULMONARY CIRCULATION V.L. Vida, S. Speggiorin, N. Maschietto, M. Padalino, C. Tessari, R. Biffanti, A. Cerutti, A. Bhattarai, O. Milanese, G. Stellin (Padova)

## SALA VISCONTI

**2° SESSIONE POSTER**

## ARITMOLOGIA

Moderatori: L. De Simone (Firenze); M.S. Russo (Messina)

P9 RADIOFREQUENCY CATHETER ABLATION OF POSTEROSEPTAL ACCESSORY PATHWAYS IN CHILDREN AND ADOLESCENTS G. Di Nardo, B. Sarubbi, M. D'Alto, M.T. Palladino, G. Santarpia, E. Romeo, G. D'Alterio, N. Grimaldi, A. Corra, M.G. Russo, R. Calabrò (Napoli)

P10 SYNCOPE IN CHILDREN AND ADOLESCENTS: FOUR-YEAR EXPERIENCE IN AN EMERGENCY DEPARTMENT OF PEDIATRICS I. Bo, N. Carano, A. Agnetti, B. Tchana, D. Bertocelli, G. Barbato, S. Mori, C. Macchi, I. Quadrini, U. Squarcia (Parma)

P11 HEART RATE VARIABILITY IN PRETERM INFANTS WITH RESPIRATORY DISTRESS SYNDROME M.P. Calabrò, L. Manuri, L. Bruno, E. Gitto, G. Trimarchi, V. Pipitone, F.L. De Luca, I. Barberi (Messina)

P12 SURGICAL ABLATION OF SCAR-RELATED ATRIAL TACHYCARDIA IN ADULT CONGENITAL HEART DISEASE E. Romeo, B. Sarubbi, G. Farina, M. D'Alto, A. Petraio, G. D'Alterio, G. Scognamiglio, D. Alfano, M. Palma, E.

*Merlino, G. Caianiello, M.G. Russo, R. Calabrò (Napoli)*

**P13 STORIA NATURALE DELLE TACHICARDIE DA RIENTRO AV CON ESORDIO IN ETÀ NEONATALE E PEDIATRICA**  
*M. Palma, B. Sarubbi, M. D'Alto, E. Romeo, R. Esposito, G. D'Alterio, G. Di Nardo, D. Colonna, M.T. Palladino, C. Iacono, M.G. Russo, R. Calabrò (Napoli)*

**P14 OUTCOME OF NEONATAL SUPRAVENTRICULAR TACHYCARDIA: 7 YEARS' EXPERIENCE IN A THIRD LEVEL CENTER**  
*R. Esposito, B. Sarubbi, M.T. Palladino, C. Iacono, G.B. Capozzi, M. D'Alto, E. Romeo, C. Morelli, C. Ricci, M. Carrozza, M.G. Russo, R. Calabrò (Napoli)*

**P15 ISOLATED VENTRICULAR NONCOMPACTION AND LONG QT SYNDROME**  
*M. Lombardi, M.R. Tagliente, T. Pirolo, E. Massari, G. Favia Guarnieri, U. Vairo (Bari)*

**P16 DIAGNOSTIC DILEMMA OF CARDIAC SYNCOPE IN PEDIATRIC PATIENTS: A RETROSPECTIVE STUDY OF 194 PATIENTS**  
*D. Cardaropoli, R. Cosimi, F. Cerrato, C. Gallo, G. Iasevoli, S. Cicala, G. Paollilo, M. Grieco, R. Paladini (Napoli)*

**P17 RECIPROCATING TACHYCARDIA IN RIGHT ATRIAL ISOMERISM: ACCESSORY PATHWAY AND TWIN AV NODES, CULPRIT OR BYSTANDER?**  
*E.M. Mariucci, G. Bronzetti, M. Bonvicini, F.M. Picchio, G. Gargiulo (Bologna)*

#### SALA GONZAGA

#### 3° SESSIONE POSTER

#### CARDIOLOGIA FETALE E ECOCARDIOGRAFIA

*Moderatori: M.E. Tibaldi (Torino); F. Ventriglia (Roma)*

**P18 FETAL ECHOCARDIOGRAPHY: 16 YEARS' EXPERIENCE IN A THIRD LEVEL CENTER**  
*G. Di Salvo, M.G. Russo, D. Paladini, C. Ricci, C. Morelli, M. Felicetti, L. Di Pietto, M. T. Palladino, G. Santoro, G. Pacileo, G. Caianiello, R. Calabrò (Napoli)*

**P19 OUTCOME OF 91 FETUSES WITH EARLY OR LATE PRENATAL DIAGNOSIS IN A THIRD REFERRAL CENTRE: IMPLICATIONS FOR ABORTION**  
*M. Tibaldi, A. Sciarone, P. Gaglioti, T. Todros, G. Botta, C.P. Murru, P. Galletto, G. Agnoletti (Torino)*

**P20 AVAILABILITY AND USE OF DIFFERENT ADVANCED IMAGING MODALITIES FOR CONGENITAL HEART DISEASE IN EUROPE - A MULTICENTRE SURVEY**  
*E.R. Valsangiacomo Buechel, D. Hoesli, L. Mertens, W.A. Helbing, J. Simpson, L. Sieverding, O. Milanesi (Imaging Working Group - AEPC)*

**P21 THE ROLE OF STRESS ECHOCARDIOGRAPHY IN AUTHORIZING PHYSICAL ACTIVITY WITHOUT RESTRICTION IN PATIENTS WITH PREVIOUS KAWASAKI DISEASE**  
*V. De Lucia, A.M. Mazzoni, M. Terrazzi, A. Lunardini, S. Recla, I. Spadoni, S. Giusti (Massa)*

**P22 THE ENVIRONMENTAL FACTORS IN THE PRENATAL DIAGNOSIS OF CONGENITAL HEART DISEASE IN PREGNANT WITHOUT RISK FACTORS: ROLE OF PATERNAL EXPOSUR**  
*S. Costa, S. Redaelli, A.G. Cerillo, N. Assanta, S. Giusti, U. Bottone (Massa)*

**P23 PDA IN PRETERM NEWBORN WITH RDS: NEW APPROACH IN DIAGNOSIS AND THERAPY**  
*S. Ricato, P. Lago, O. Milanesi, S. Salvadori (Padova)*

**P24 RECURRENCE OF CONGENITAL HEART DISEASE IN OFFSPRINGS OF MOTHERS WITH CONGENITAL HEART DISEASE, SCREENED PRENATALLY BY ECHOCARDIOGRAPHY**  
*V. Fesslova, J. Brankovic, L. Piazza, L. Villa, V. Meli (San Donato Milanese - MI, Milano, Palermo)*

**P25 OUTCOME AND EARLY MANAGEMENT OF HYPOPLASTIC LEFT HEART SYNDROME DETECTED BY FETAL ECHOCARDIOGRAPHY SINCE 2005**  
*C. Ricci, G. Di Salvo, C. Morelli, M. Felicetti, L. Di Pietto, M.T. Palladino, G. Santoro, G. Pacileo, G. Caianiello, M.G. Russo (Napoli)*

**P26 BNP (B-TYPE NARIURETIC PEPTIDE) IN TERM AND PRETERM NEWBORNS: CORD BLOOD, PERINATAL VALUES AND ECHOCARDIOGRAPHIC PARAMETERS**  
*S. Mannarino, F. Garofoli, A.C. Codazzi, A. Mazzola, A. Licari, G. Corana, R.M. Cerbo, E. Mongini, C. Tinelli, M. Stronati (Pavia)*

**P27 A GIANT LEFT INTRAVENTRICULAR MASS: FROM PRE-NATAL DIAGNOSIS TO FOLLOW-UP**  
*A. Cristofaletti, L. Rossetti, M.A. Prioli, D. Cassater, E. Cerini, F. De Rita, G.B. Luciani, P. Biban (Verona)*

**P28 HEALTH RELATED QUALITY OF LIFE AND LIFE SATISFACTION IN PREGNANT WOMEN WITH CONGENITAL HEART DISEASE**  
*E. Callus, E. Quadri, M. Chessa, D. Negura, J. Brankovic, V. Fesslova (San Donato Milanese - MI)*

#### SALA BORROMEO

#### 4° SESSIONE POSTER

#### VARIE I

*Moderatori: F.L. De Luca (Messina); I. Pollini (Firenze)*

**P29 EISENMENGER SYNDROME: WHAT TO DO IN PATIENTS WITH PULMONARY WEDGE PRESSURE >15 MMHG?**  
*E. Romeo, M. D'alto, P. Argiento, B. Sarubbi, G. Scognamiglio, D. Alfano, N. Grimaldi, M.G. Russo, R. Calabrò (Napoli)*

**P30 THE HYPERTROPHIC CARDIOMIOPATHY IN PAEDIATRIC AGE: EPIDEMIOLOGY AND PROGNOSIS**  
*C. Comparato, G. Calcaterra, E.C. Bertolino (Palermo)*

**P31 EFFICACY OF ENZYME REPLACEMENT THERAPY FOR POMPE DISEASE IS MAINLY RELATED TO THE TIME OF DIAGNOSIS: A CASE REPORT**  
*M. Del Rizzo, A. Cerutti, C. Marrone, C. Cazzorla, M. Fanin, A.C. Nascimbeni, C. Angelini, A. Bordugo, O. Milanesi, A.B. Burlina (Padova, Napoli)*

**P32 RESULTS OF TREATMENT WITH BOSENTAN FOR MORE THAN 2 YEARS IN ADULT PATIENTS WITH DOWN SYNDROME AND EISENMENGER REACTION RELATED TO CONGENITAL HEART DISEASE**  
*C. Romeo, D. Montanaro, R. Crepaz, W. Pitscheider, M. Guerriero (Bolzano, Verona)*

**P33 PROGRESSION OF MIOINTIMAL THICKNESS IN PAEDIATRIC HEART TRANSPLANTATION. A LONGITUDINAL STUDY**  
*L. Papavasileiou, M. Pilati, P. Guccione, G. Pongiglione, M.G. Gagliardi (Roma)*

**P34 RESULTS OF A QUESTIONNAIRE EVALUATING THE USE AND THE QUALITY OF THE GERMAN GUIDELINES FOR PAEDIATRIC CARDIOLOGY**  
*J. Weil, U. Gottschalk, S. Recla, A.A. Schmaltz, G. Mueller (Amburgo)*

**P35 EVALUATION OF RESIDUAL SHUNT AFTER TRANSCATHETER OCCLUSION OF ATRIAL SEPTAL DEFECTS WITH THE HELEX SEPTAL OCCLUDER: A CONTRAST-ENHANCED TRANSCRANIAL DOPPLER STUDY**

*A. Lunardini, S. Recla, L. Ait-Ali, D. Chiappino, A. Monteleone, V. De Lucia, I. Kristo, I. Spadoni (Massa)*

**P36 OUTCOME OF ACUTE MYOCARDITIS IN PEDIATRIC POPULATION: SINGLE CENTER EXPERIENCE**  
*D. Poli, S. Agati, P. Gitto, I. Bianca, D. Salvo (Messina, Taormina - ME)*

**P37 SVILUPPO DI UN LABORATORIO DI EMODINAMICA IN CAMERUN** *S. Bruschi, A. Kongnyuy, J.C. Ambassa, C. Tantchoui, G. Butera (San Donato Milanese - MI, Shisong)*

**P38 CONGENITAL CARDIAC MALFORMATIONS IN CHILDREN WITH CONGENITAL HYPOTHYROIDISM IN CALABRIA REGION** *M. Baserga, B. Vonella, M. Barreca, S. Spagnolo, V. Talarico, A. Olivieri (Catanzaro, Roma)*

#### SALA WASHINGTON A

#### 5° SESSIONE POSTER COMUNICAZIONI BREVI

##### VARIE II

*Moderatori: C. Arcidiacono (Acireale - CT); A. De Zorzi (Roma)*

**P39 ENDOVASCULAR STENTING VS SURGICAL REPAIR IN PATIENTS AFTER SUCCESSFUL REPAIR OF AORTIC COARCTATION: MYOCARDIAL FUNCTION AND GEOMETRY** *M. Carrozza, G. Di Salvo, G. Santoro, G. Caianiello, G. Gaio, B. Castaldi, G. Farina, M.T. Palladino, G. Pacileo, M.G. Russo, R. Calabrò (Napoli)*

**P40 SELECTIVE-SITE PACING WITH THE SELECT SECURE SYSTEM AND RISK OF VEIN OCCLUSION IN PEDIATRIC PATIENTS** *F. Gabbarini, G. Agnoletti (Torino)*

**P41 NEW INDEX FOR EVALUATION OF ELASTIC PROPERTIES OF AORTIC WALL IN PATIENTS WITH BICUSPID AORTIC VALVE BY MAGNETIC RESONANCE IMAGING** *M. Levorato Basso, L. Ait-Ali, G. Aquaro, I. Foffa, M.G. Andreassi, P. Keilberg, P. Festa (Massa, Pisa)*

**P42 FUNZIONE RENALE NEI CARDIOPATICI CONGENITI ADULTI: CONFRONTO DI POPOLAZIONI**  
*G. Scognamiglio, B. Sarubbi, A. Correrà, D. Alfano, M. D'Alto, P. Argiento, M. Palma, G. D'Alterio, N. Grimaldi, E. Romeo, M.G. Russo, R. Calabrò (Napoli)*

**P43 CARDIAC MRI IN THE EVALUATION OF NEONATES CANDIDATE TO GLENN OPERATION: A PRELIMINARY EXPERIENCE** *G. Puppini, M. Pilati, A. Prioli, A. Cristofaletti, G.B. Luciani, C. Vassanelli, S. Montemezzi (Verona)*

**P44 EVALUATION OF THE GLOBAL CV RISK IN A CHILD POPULATION AFFECTED BY METABOLIC SYNDROME**  
*G. Fazio, F. Cardella, M. Mongiovi, G. Ferro, S. Novo, S. Pipitone (Palermo)*

**P45 FETUSES WITH SINGLE UMBILICAL ARTERY: A TEN-YEARLY EXPERIENCE WITH FETAL ECHOCARDIOGRAPHY**  
*F. Calzolari, V. Martucci, S. Macerola, E. Boccuzzi, E. Casinelli, F. Ventriglia (Roma)*

**P46 CSX/NKX-2.5 GENE ANALYSIS IN ITALIAN PATIENTS WITH CONGENITAL HEART DISEASE**  
*A. Rampazzo, A. Cecchetto, G. Beffagna, A. Lorenzon, A. Angelini, M. Padalino, V.L. Vida, G. Stellin, L. Dal Bianco, L. D'Alento (Padova)*

**P47 LONE ATRIAL FIBRILLATION IN PEDIATRIC AGE** *L. De Simone, L. Padeletti, A. Michelucci, G. Calabri, E. Chiappa (Firenze)*

**P48 PULMONARY HYPERTENSION IN PRETERM INFANTS WITH BRONCHOPULMONARY DYSPLASIA: A SINGLE CENTER EXPERIENCE** *E. Rosati, G. Latini (Brindisi)*

**P49 AUTONOMIC CARDIAC FUNCTION IN PATIENTS AFFECTED BY DRAVET SYNDROME** *A.B. Delogu, A. Spinelli, D. Battaglia, C. Dravet, A. De Nisco, A. Saracino, C. Romagnoli, G.A. Lanza, F. Crea (Roma)*

**P50 INCIDENCE AND PREDICTIVE FACTORS FOR RESIDUAL SHUNT AFTER PERCUTANEOUS CLOSURE OF PATENT FORAMEN OVALE** *L. Salomone, A. Donti, R. Formigari, D. Prandstraller, V. Gesuete, G. Testa, A. Balducci, L. Ragni, F.M. Picchio (Bologna)*

#### SALA VISCONTI

#### 6° SESSIONE POSTER

##### CARDIOCHIRURGIA

*Moderatori: L. Galletti (Bergamo); F. Iorio (Monza)*

**P51 THYROIDAL RESPONSE IN CHILDREN WITH DIFFERENT CONGENITAL HEART DISEASES UNDERGOING CARDIAC SURGERY** *M. Cantinotti, R. Margaryan, S. Storti, L. Arcieri, A. Maizza, S. Luisi, M. Bernabei, M. Crocetti, N. Assanta, G. Iervasi, B. Murzi (Massa)*

**P52 CAVAL VEINS AND PULMONARY ARTERIES MORPHOLOGY AND BLOOD FLOW PATTERNS IN PATIENTS AFTER TOTAL OR PARTIAL CAVO-PULMONARY CONNECTION FOR SINGLE VENTRICLE PHYSIOLOGY. EVALUATION BY CARDIOVASCULAR MAGNETIC RESONANCE IMAGING** *R. Crepaz, J. Stuefer, C. Rome, C. Pedron, G. Bonatti, W. Pitscheder, G. Stellin (Bolzano, Padova)*

**P53 THE HYBRID APPROACH FOR PATIENTS WITH TETRALOGY OF FALLOT** *V.L. Vida, N. Maschietto, C. Tessari, M. Padalino, A. Cerutti, R. Biffanti, A. Bhattarai, O. Milanese, G. Stellin (Padova)*

**P54 THE NEWBORN WITH CONGENITAL HEART DISEASE (CHD): CLINICAL AND EPIDEMIOLOGIC CONSIDERATIONS IN 520 CONSECUTIVE CASES IN A NEONATAL UNIT AND NEONATAL INTENSIVE CARE UNIT (NICU)** *F. Schena, E. Ciarmoli, L. Colombo, A.M. Colli, M.A. Galli, P. Salice, S. Ghiglia, F. Mosca (Milano)*

**P55 TRICUSPID VALVE DETACHMENT FOR REPAIR OF CONGENITAL VENTRICULAR SEPTAL DEFECTS. IS TRICUSPID VALVE FUNCTION PAYING A PRICE?** *G. Lucchese, F. De Rita, D. Cassater, A. Cristofaletti, L. Rossetti, M.A. Prioli, G. Faggian, A. Mazzucco, G.B. Luciani (Verona)*

**P56 NT-PRO BNP VALUE, ASD AREA, ASD-AREA TO BSA RATIO: IS THERE A CORRELATION?** *A. Quarti, M. Colaneri, A. Baldinelli, E. Soura, A. Oggianu, E. Cetrano, M. Pozzi (Ancona)*

**P57 VENTRICULAR SEPTAL DEFECT AND AORTIC INCOMPETENCE: TWO PROBLEMS WITH ONE SOLUTION**  
*C. Pace Napoleone, G. Oppido, E. Angeli, E. Resciniti, G. Gargiulo (Bologna)*

**P58 EXTRACELLULAR MATRIX GRAFT FOR CARDIAC AND VASCULAR RECONSTRUCTIVE SURGERY: AN EXPERIMENTAL MURINE MODEL** *M. Padalino, C. Castellani, A. Dedja, M. Lo Rito, V.L. Vida, M. Fedrigo, G. Thiene, A. Angelini, G. Stellin (Padova)*

**P59 TRICUSPID VALVE REGURGITATION IN GROWN-UPS WITH CONGENITALLY CORRECTED TRANSPOSITION OF THE GREAT ARTERIES: LONG-TERM OUTCOME** *G. Lucchese, F. De Rita, M.A. Prioli, L. Rossetti, A. Forni, G. Faggian, A. Mazzucco, G.B. Luciani (Verona)*

P60 PEDIATRIC HEART TRANSPLANTATION: OUR EXPERIENCE *V. Gesuete, L. Ragni, D. Prandstraller, R. Formigari, G. Testa, C. Pace, G. Oppido, G. Gargiulo, F.M. Picchio (Bologna)*

P61 DETECTION OF CORONARY COMPLICATIONS AFTER CORONARY REIMPLANTATION SURGERY: FIRST EXPERIENCE WITH MULTISLICE COMPUTED TOMOGRAPHY IN CHILDREN *D. Marini, E. Roberto, C. Defilippi, G. Di Rosa, P.A. Abbruzzese, G. Agnoletti (Torino)*

P62 CONTEGRA® PERFORMANCE IN INFANT TRUNCUS ARTERIOSUS REPAIR: MID-TERM FOLLOW-UP *G. Palma, R. Giordano, V. Russolillo, S. Palumbo, S. Cioffi, M. Mucerino, V. Poli, C. Vosa (Napoli)*

P63 STANDARDIZED PARENTERAL NUTRITION IN PICU: PRELIMINARY DATA *C. Iacolla, S. Picardo, M. Gambarara, C. Garisto, F. Panetta, A. Diamanti (Roma)*

P64 BNP HUMORAL RESPONSE IN CHILDREN AFTER CARDIAC SURGERY FOR CONGENITAL HEART DISEASES *M. Cantinotti, R. Margaryan, S. Storti, C. Prontera, N. Assanta, L. Arcieri, M. Crocetti, S. Luisi, A. Maizza, M. Bernabei, R. Moschetti, B. Murzi (Massa)*

#### SALA GONZAGA

##### 7° SESSIONE POSTER

##### EMODINAMICA

Moderatori: *N. Carano (Parma); U. Vairo (Bari)*

P65 AORTIC COARCTATION ASSOCIATED WITH WALL ANEURYSM: THE ROLE OF COVERED STENT *G. Butera, M. Heles, A. Shridar, L. Piazza, D. Negura, M. Chessa, A. Micheletti, C. Arcidiacono, R. Abella, A. Giamberti, G. Pomè, C. Bussadori, A. Frigiola, M. Carminati (San Donato Milanese - MI)*

P66 INTERVENTIONAL COMPLETION OF BI- OR ONE AND HALF VENTRICULAR REPAIR IN PULMONARY ATRESIA WITH INTACT VENTRICULAR SEPTUM *M. Pilati, M.G. Gagliardi, L. Papavasileiou, G. Egho, D. Di Carlo, G. Pongiglione, P. Guccione (Roma)*

P67 CLOSURE OF PATENT DUCTUS ARTERIOSUS IN INFANTS *G. Egho, M.G. Gagliardi, M. Pilati, L. Papavasileiou, L. Ballerini, G. Pongiglione, P. Guccione (Roma)*

P68 STENTING OF THE FONTAN CONDUIT *M. Pilati, L. Papavasileiou, A. Amodeo, S. Giannico, P. Guccione, G. Pongiglione, M.G. Gagliardi (Roma)*

P69 INTERVENTIONAL CATHETERIZATION AFTER TOTAL CAVOPULMONARY CONNECTION: EXPERIENCE IN 53 PATIENTS *D. Marini, F. Gabbarini, C. Riggi, M. Villar, G. Agnoletti (Torino)*

P70 BUBBLE CONTRAST ECHOCARDIOGRAPHY DURING CARDIAC CATHETERIZATION IN DETECTING PULMONARY ARTERIOVENOUS FISTULAS IN CONGENITAL HEART DISEASE *M. Pilati, M.G. Gagliardi, L. Papavasileiou, G. Pongiglione, P. Guccione (Roma)*

P71 INCIDENCE AND CLINICAL RELEVANCE OF PRIMARY CONGENITAL ANOMALIES OF CORONARY ARTERIES IN CHILD AND ADULT *G. Tuo, M. Balbi, M. Marasini, C. Brunelli (Genova)*

P72 RESCUE TREATMENT BY PERCUTANEOUS CLOSURE OF INTERATRIAL SEPTAL DEFECT OR PFO IN INFANTS WITH BERLIN HEART *L. Papavasileiou, M.G. Gagliardi, M. Pilati, C. Varano, A. Amodeo, P. Guccione, G. Pongiglione (Roma)*

P73 SELECTIVE PULMONARY ARTERY EMBOLIZATION IN SINGLE VENTRICLE WITH ACQUIRED PULMONARY VEIN ATRESIA *S. Bondanza, M. Derchi, L. Zannini, M. Marasini (Genova)*

P74 INDICATIONS AND RESULTS OF PERCUTANEOUS CLOSURE OF ATRIAL SEPTAL DEFECTS IN PATIENTS WITH RVOT OBSTRUCTION *S. Recla, L. Ait-Ali, A. Lunardini, V. De Lucia, S. Giusti, I. Spadoni (Massa)*

P75 PERCUTANEOUS CLOSURE OF GIANT PULMONARY ARTERIOVENOUS FISTULA WITH AMPLAZER PLUG 2 IN A NEWBORN *G. Annoni, L.D. Mauri, D. Artioli, E. Colombo, E. Ribera, A. Corato, G. Vignati (Milano)*

P76 STENT PERCUTANEOUS DILATATION OF SUPERIOR SYSTEMIC VENOUS RETURN IN PATIENTS WITH GREAT ARTERY TRANSPOSITION TREATED USING MUSTARD TECHNIQUE *M. Saitta, A. Basile, A. Privitera, F. De Luca, M. Patti, G. Pongiglione (Catania, Roma)*

P77 RESIDUAL VENTRICULOPULMONARY SHUNT AFTER FONTAN REPAIR. DECLINE IN CLINICAL STATUS AND CLOSURE BY INTERVENTIONAL CATHETERIZATION *A. Agnetti, B. Tchana, N. Carano, D. Bertoncelli, I. Bo, M. Dutto, G. Barbato, C. Cavalli, C. Macchi, M. Al-Obeyde, I. Quadrini, L. Zavota, U. Squarcia (Parma)*

P78 EARLY EXPERIENCE WITH A NOVEL VASCULAR PLUG *B. Castaldi, G. Santoro, G. Gaio, M.T. Palladino, C. Iacono, G. Capozzi, G. Caianiello, M.G. Russo (Napoli)*

#### SALA BORROMEO

##### 8° SESSIONE POSTER

##### VARIE III

Moderatori: *E. De Caro (Genova); S. Picardo (Roma)*

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## **IN OPERATED FALLOT IS RV TELEDIASTOLIC VOLUME > 170 ML/M2 A VALID CUT-OFF FOR INDICATION TO PULMONARY VALVE REPLACEMENT ?**

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**Introduction:** Patients with tetralogy of Fallot (TOF) repaired by means a transannular patch, suffer of residual pulmonary regurgitation leading to right ventricle (RV) dilatation. Several groups have recently demonstrated that if these pts are re-operated for pulmonary valve implant (PVR) since RV tele-diastolic volume (RVtd Vol) exceeds 170 mL/m<sup>2</sup>, the RV volumes do not decrease to normal values. However the beneficial hemodynamic effects of PVR still have to be weighted against the need for re-operation for valve failure.

**Aim:** to compare the clinical outcome and instrumental data of two matched repaired TOF population, differing by RVtd Vol ( $\geq 170$  ml/m<sup>2</sup> vs  $< 170$  ml/m<sup>2</sup>).

**Methods:** From Sept. 2003 to March 2010, 58 operated Fallot patients with transannular patch as primary repair and not yet re-operated, were evaluated by cardiac MR, echocardiography, cardiopulmonary exercise test and Amino-Terminal pro-Brain Natriuretic Peptide (NT-proBNP) blood assay. All clinical adverse outcomes were also recorded. The population study was divided in two groups according to the RVtd Vol:  $< 170$  ml/m<sup>2</sup> (group 1 = 42 pts) and  $\geq 170$  ml/m<sup>2</sup> (Group 2 = 16 pts).

**Results:** Only pulmonary regurgitation fraction resulted significantly different between the two groups ( $33 \pm 10\%$  in group 1 vs.  $42 \pm 15\%$  in group 2  $p < 0,001$ ). Conversely neuro-hormonal blood assay and MR parameters resulted not significant different: NT-Pro-BNP  $105 \pm 74$  pg/ml in group 1 vs.  $140 \pm 99$  pg/ml in group 2  $p = ns$ , Vo<sub>2</sub>/kg/min  $21,7 \pm 5,7$  ml/Kg/min in group 1 vs.  $23,5 \pm 7$  ml/Kg/min in group 2  $p = ns$ , RV ejection fraction  $53,6 \pm 6,8\%$  in group 1 vs.  $51 \pm 6,4\%$  in group 2  $p = ns$ . Eight pts (14%), 5 from Group 1 (12%) and 3 from Group 2 (19%), experienced adverse outcome: 1 sustained ventricular tachycardia, 5 major atrial arrhythmias, 2 worsening in NYHA functional class or significant symptom. Therefore RVtd Vol  $\geq 170$  ml/m<sup>2</sup> was not associated to adverse event (O.R. 1,7 95% CI: 0,357 to 8,164,  $p = 0.5$ ).

### **Conclusion:**

From our data, adverse event or any instrumental finding of RV dysfunction were not significant different between the two groups.

Furthermore in operated TOF by means transannular patch, the RV will never be a “normal” RV, even if with normal volume, due to the previous infundibulectomy and other surgical procedures at the time of primary repair. For these reasons we believe that the RVtd Vol should be evaluated in combinations with several other factors, such as potential residual lesions (as pulmonary pathway stenosis, infundibular fibrosis and/or dyskinesia, tricuspid insufficiency and several arrhythmias patterns). Moreover the timing of PVR should take into account several clinical-instrumental parameters.