



Giornale Italiano di Aritmologia e Cardiostimolazione

Rivista dell'Associazione Italiana
di Aritmologia e Cardiostimolazione

DIRETTORE

Maria Grazia Bongiorno

EDITORI ASSOCIATI

Giuseppe Boriani
Riccardo Cappato
Roberto De Ponti
Stefano Favale

COMITATO EDITORIALE

Enrico Adornato
Paolo Alboni
Fabrizio Ammirati
Gerardo Ansalone
Angelo Auricchio
Nicola Baldi
Fulvio Bellocchi
Gianluca Botto
Nicola Bottoni
Daniele Bracchetti
Michele Brignole
Andrea Campana
Alessandro Capucci
Giacomo Chiarandà
Domenico Corrado
Antonio Curnis
Pietro Delise
Paolo Della Bella
Matteo Di Biase
Paolo Dini
Marcello Disertori
Fabrizio Drago
Francesco Furlanello
Fiorenzo Gaita
Maurizio Gasparini
Pier Giorgio Golzio
Michele Gulizia
Giuseppe Inama
Catherine Klersy
Maria Teresa La Rovere

Maurizio Lunati
Carlo Mambretti
Salvatore Mangiameli
Roberto Mantovan
Paolo Marconi
Giampietro Marinoni
Carlo Menozzi
Annibale Sandro Montenero
Andrea Natale
Andrea Nava
Eraldo Occhetta
Renato Ometto
Giuseppe Oretto
Luigi Padeletti
Roberto Pedretti
Eligio Piccolo
Maria Vittoria Pitzalis
Rocco Polimeni
Silvia Priori
Alessandro Proclemer
Fabio Quartieri
Antonio Raviele
Jorge Salerno-Uriarte
Massimo Santini
Maurizio Santomauro
Peter J. Schwartz
Sergio Sermasi
Gianni Spinella
Giuseppe Vergara
Roberto Verlato
Paolo Zecchi
Massimo Zoni Berisso

ASSISTENTI DI REDAZIONE

Giuseppe Arena
Chiara Bartoli
Gabriele Giannola
Andrea Pozzolini
Ezio Soldati
Stefano Viani

SECRETARIA DI REDAZIONE

Ilaria Sbrana
Tel. 050/995333
Fax 050/995329
E-mail: m.g.bongiorno@med.unipi.it

DIREZIONE E AMMINISTRAZIONE

Centro Scientifico Editore
via Borgone, 57
10139 TORINO
Tel 011/385.36.56 r.a.
Fax 011/385.32.44

REDAZIONE

In-folio - Torino

IMPAGINAZIONE

Kino - Torino

STAMPA

MS Litografia - Torino

SEZIONI E RUBRICHE

Editoriali
Contributi originali
Rassegne
Messe a punto
Protocolli di studio AIAC
Le linee guida
L'industria informa
Dal Consiglio Direttivo AIAC
Dalla Segreteria AIAC
Casi clinici
ECG, EGM, Rx, immagini
Didattica
Storia dell'aritmologia
Recensioni
Gli italiani all'estero
Nursing

Il Giornale Italiano di Aritmologia e Cardiostimolazione è pubblicato trimestralmente. Il costo annuo dell'abbonamento è di € 50 per le persone fisiche e di € 60 per Enti e Società da versarsi con assegno bancario non trasferibile intestato a: Centro Scientifico Editore s.r.l. Il costo per l'estero è di € 77. I fascicoli singoli arretrati hanno un costo di € 21. A norma dell'art. 74 lett. C del DPR 26/10/72 n. 633 e successivo DM del 09/04/93, il pagamento dell'IVA, assolta dall'Editore sugli abbonamenti o sui singoli numeri, è compreso nel prezzo di vendita. Pertanto non verrà in alcun caso rilasciata fattura. Il Giornale Italiano di Aritmologia e Cardiostimolazione viene inviato per abbonamento; si prega di comunicare tempestivamente il cambio di indirizzo a: Centro Scientifico Editore, via Borgone 57 - 10139 Torino Tel. 011/385.36.56 Fax 011/385.32.44 E-mail: cse@cse.it http://www.cse.it

© Centro Scientifico Editore S.r.l. Tutti i diritti di proprietà letteraria ed artistica sono riservati, compreso quello di traduzione. I manoscritti e le fotografie, anche se non pubblicati, non si restituiscono. È vietata la riproduzione anche parziale (fotocopie, microfilm, ecc.) senza speciale autorizzazione dell'Editore. Aut. Trib. di Napoli n. 5021 del 18 febbraio 1999. Spedizione in abbonamento postale.

XI INTERNATIONAL SYMPOSIUM ON PROGRESS IN CLINICAL PACING

ROME, CAVALIERI HILTON HOTEL
NOVEMBER 30 – DECEMBER 3, 2004

Organizing Secretariat

Publi Créations – Partner of AIM Group
27, Bd. d'Italie
MC 98000 Monaco

Operating Secretariat

AISC & MGR – AIM Group
Via Adelaide Ristori 38
00197 Roma ITALY
Ph +39.06.809681
Fax +39.06.8088491
E-mail: pacing2004@aimgroup.it
www.aimgroup.it/2004/pacing

Scientific Secretariat

Prof. Massimo Santini
Cardiovascular Department
S. Filippo Neri Hospital
Via Martinotti 20
00135 Rome ITALY
Ph +39.06.33062294
Fax +39.06.33062489
E-mail: m.santini@rmnet.it

Contents

POSTER 1

WHAT FACTORS INFLUENCES HEMODYNAMIC IMPROVEMENT AFTER RIGHT VENTRICULAR TO BIVENTRICULAR PACING SYSTEM UPGRADE	1
A Kutarski, P Rucinski, T Sodolski, M Trojnar	
PHRENIC NERVE STIMULATION DOES NOT PRECLUDE SUCCESSFUL RESYNCHRONIZATION DEVICE IMPLANT	1
DL Scher	
QUANTIFICATION OF LEFT VENTRICULAR DYSYNCHRONY USING SEGMENTATION AND THREE DIMENSIONAL ECHOCARDIOG	1
Omid Souresrafil, Archemides Sanati	
RIGHT APICAL AND RIGHT OUTFLOW TRACT PACING - LONG-TERM ECHOCARDIOGRAPHIC COMPARISON	1
E Lewicka-Nowak, A Dabrowska-Kugacka, S Tybura, R Wilczek, J Staniewicz, M Gawrysiak, G Swiatecka	
LEFT VENTRICULAR DIASTOLIC FUNCTION IN PATIENTS WITH LONG-TERM RIGHT VENTRICULAR OUTFLOW TRACT (RVOT) VERSUS RIGHT VENTRICULAR APICAL (RVA) PACING	2
A Dabrowska-Kugacka, E Lewicka-Nowak, S Tybura, R Wilczek, J Staniewicz, M Gawrysiak, G Swiatecka	
FACTORS INFLUENCING DIFFERENCES OF RVA & RVOT PACING HEMODYNAMIC EFFECTS	2
A Kutarski, P Rucinski, T Sodolski, M Trojnar	
MITRAL REGURGITATION IN RIGHT VENTRICULAR PACING	2
Lj. Music, D. Muisc, A. Boskovic	
A 10-YEAR EXPERIENCE ON 1073 PATIENTS FITTED WITH 4 MM ² ATRIAL PACING LEADS	2
Guy Pioger, Joelle Pozzan, Michel Zygelman, Gérard Leny, Céline Bouat	
ACUTE PERFORMANCE AND QUALITATIVE EVALUATION OF A NEW PASSIVE LEAD FAMILY	3
C MOINI, A DEJEAN	
SUCCESSFUL IMPLANTATION OF ENDOVENOUS PACING SYSTEM IN A CHILD WITH RARE CONGENITAL HEART DISEASE	3
M LOVRIC BENCIC, B. MARINOVIC, V CORIC	
LONG TERM FOLLOW-UP OF ATRIAL LEADS WITH SHORT TIP-TO-RING SPACING: COMPARISON WITH STANDARD LEADS	3
A NASH, P.A.R. OWEN, T NEWBERRY, A.J. MARSHALL	
LEAD BODY ANCHORING BY ABSORBABLE SUTURE: NEW CONCEPTUAL APPROACH IN CHILDREN	4
Petras Stirbys	
FOLLOW-UP OF THE CHAGASIC DISEASE PATIENTS WITH AICD DEVICES	4
O.T. Greco, A.N. Cardinalli, A.C. Mazzo, R.A. Mazzo	
FOLLOW-UP PROGRAM: LIFE QUALITY AFTER AICD IMPLANTATION	4
R.A. Mazzo, A.C. Mazzo, O.T. Greco, A.C. Neto, R.L. Greco	
INTERDISCIPLINARITY PROGRAM: LIFE QUALITY AVALIATION IN DESFIBRILATOR (MEDTRONIC,INC)	4
R.A. Mazzo, O.T. Greco, A.N. Cardinalli, A.C. Mazzo	
METHICILLIN RESISTANT STAPHYLOCOCCUS AUREUS INFECTION OF IMPLANTABLE ANTIARRHYTHMIC DEVICE	5
T Sato, M Shoda, K Tanizaki, H Kawarai, Y Ajiro, K Takahashi, T Manaka, K Ejima, N Hagiwara, H Kasanuki	
LOST IN INTERROGATION: A STORY OF PM WITH HOLTER FUNCTION	5
D Sanfelici, F Ferraris, M Sottili	
PACEMAKER LONGEVITY DETERMINES EXCHANGE RATE - IMPLICATIONS FROM THE AVUS REGISTRY	5
B. Wagner, W. Irnich, T. Haeuser	
DDD AND SINGLE -LEAD VDD PACING:EVALUATION OF POSTURE, EXERCISE AND PLASMA NATRIURETIC PEPTIDE LEVELS	5
I. ZUPAN, D. ZIZEK, L. LIPAR, T. GABRIJELCIC, P. RAKOVEC, S. TERSEGLAV	

UNEXPLAINED PACING FAILURE IN A CASE SHOWING OVERLAPPING PHENOTYPE OF BRUGADA AND SICK SINUS SYNDROME WITH A NOVEL SCN5A MUTATION	6
F Yanagisawa, Y Higashi, H Shimojima, T Tsutsumi, Y Takeyama, T Makiyama, M Horie	
A CASE OF CARDIOMYOPATHY WITH CONDUCTION DISTURBANCES IN EMERY-DREIFUSS MUSCULAR DYSTROPHY	6
S. IACOPINO, G. VENTURA, F. MEGNA, F.P. CARIELLO	
HYPOTHETICAL CONTROL OF REFRACTORY PERIOD OF MYOCARDIUM: CONSIDERATIONS BASED ON THE PFLUGER'S LAW	6
P. STIRBYS	
TOWARD NEW THERAPY: STRATEGIC PHILOSOPHY TO REVITALIZE FUTURE DEVELOPMENTS OF PREVENTIVE TOOLS	7
P. STIRBYS	
LONG TERM PROGNOSTIC VALUE OF ELECTROPHYSIOLOGIC STUDY AFTER MYOCARDIAL INFARCTION: A TEN YEARS FOLLOW-UP STUDY	7
Simona Sarzi Braga, Rafaella Vaninetti, Roberto Pedretti	
ECG PATTERN OF T WAVE ALTERNANS IN POST AMI PATIENTS	7
N RADOI, O ISTRATOAI, C MILITARU, D.D. IONESCU	
REPRODUCIBILITY OF T WAVE ALTERNANS IN POST AMI PATIENTS	7
N RADOI, O ISTRATOAI, C MILITARU, D.D. IONESCU	
LONG TERM PROGNOSTIC VALUE OF NONINVASIVE TESTS AFTER MYOCARDIAL INFARCTION: A TEN YEARS FOLLOW-UP STUDY	8
Rafaella Vaninetti, Simona Sarzi Braga, Roberto Pedretti	
ELECTROANATOMICAL MAPPING OF ARRHYTHMOGENIC SUBSTRATE FOR VENTRICULAR TACHY ARRHYTHMIAS IN PATIENTS AFTER CORRECTION OF CONGENITAL HEART DISEASE	8
P. Peichl, J. Kautzner, R. Cihak, J. Bytesnik, J. Janousek	
CREBROCARDIOGRAPHY IN THE EARLY DIAGNOSIS OF CARDIOVASCULAR DISEASES	8
VITO RIZZO, DEMETRIO TALLARICO, PIER ANDREA CHIAVARI, PASQUALE MOLLO, GIUSEPPE CAMPOLONGO, FEDERICA PETRETTO	
USE OF THE LIFESHIR SYSTEM IN MONITORING TILTING TEST	8
M Santomauro, N Monteforte, L Ottaviano, A Borrelli, E Febbraro, S Buonerba, A Costanzo, C Liguori, M Chiariello	
HAND GRIP AND ARM TESTING FOR SYNCOPE I AND III (VASIS) TREATMENT: EFFICACY AND RESULTS DURING FOLLOW-UP	9
M Santomauro, A Borrelli, L Ottaviano, E Febbraro, S Buonerba, A Costanzo, C Liguori, M Chiariello	
INTRAATRIAL CONDUCTION TIME IN COMPLETE ISTHIMICAL BLOCK	9
F. MASCIA, M. VISCUSI, G. MASCIA, L. SANTARPIA, M. BRIGNOLI, P. GOLINO, R. RICCIARDIELLO, M. RAPONI	
EFFECTIVENESS OF CATHETER ABLATION FOR SVT IN ATHLETES RESUMING COMPETITIVE SPORTS	9
C. Bonanno, R. Ometto, G. Finocchi, L. La Vecchia, A. Fontanelli	
THE TREATMENT OF ATRIAL FIBRILLATION USING RADIOFREQUENCY MAZE PROCEDURE – HEART RHYTHM DURING FOLLOW UP	10
R Krausova, J Kautzner, J Pirk, J Maly, F Straka	
TREATMENT OF ATRIAL FIBRILLATION IN PATIENTS WITH MITRAL VALVE DISEASE USING ENDOCARDIAL ABLATION	10
Wojciech Sarnowski, Marek Jemielity, Bartłomiej Perek, Wojciech Stachowiak, Zofia Oko-Sarnowska, Wojciech Dyszkiewicz	
FACTORS CONTRIBUTING EFFECTIVENES OF CIRCUMFERENTIAL PULMONARY VEINS ABLATION IN ATRIAL FIBRILLATION	10
Anna Wnuk-Wojnar, Maria Trusz-Gluza, Iwona Skowerska, Cezary Czerwinski, Seweryn Nowak, Andrzej Hoffmann, Krzysztof Szydło, Agnieszka Drzewiecka	
LEFT ATRIAL ABLATION USING INTRACARDIAC ECHOCARDIOGRAPHY	10
H Shimojima, Y Higashi, K Wakabayashi, F Asano, F Tsutsumi, Y Takeyama	
CATHETER ABLATION OF INCESSANT VENTRICULAR TACHYCARDIA DUE TO RIGHT VENTRICULAR DYSPLASIA IN THE SETTING OF CARDIOGENIC SHOCK - CASE REPORT	11
N Mujovic, M Grujic, S Mrdja, T Potpara	
EVA STUDY: ELECTROGRAMS FOR VALIDATION OF ARRHYTHMIAS	105
J. Victor, J.M. Dupuis, P. Scanu, B. Derouich, P. Loiselet, F. Legal, R Reibel	

POSTER 2

DYNAMIC AV DELAY AND QUALITY OF LIFE (MULTICENTER STUDY GROUP)	12
M. RACCANELLO, D. PACETTA	
EVALUATION OF A NEW ACTIVE CAPTURE CONTROL ALGORITHM BASED ON EVOKED RESPONSE MORPHOLOGY DISCRIMINATION	12
M. Anelli-Monti, A. Hartmann, H. Oswald, D. Schmitz, K. Dominik, S. Löscher, L. Binner, K. Schmidt	
IMPEDANCE CARDIOGRAPHY FOR VV INTERVAL OPTIMIZATION IN PATIENTS WITH VENTRICULAR RESYNCHRONIZATION	12
A Al Sayegh, F Al Khandari, N Khan, M Akbar, H Salman, N Hayatt	
UNDERDETECTION OF ATRIAL FLUTTER IN CARDIAC RESYNCHRONIZATION DEVICES	12
B. STROHMER, C. SCHERNTHANER, M. PICHLER	
EFFECTS OF LATEST DEPOLARIZATION BIVENTRICULAR PACING ON THE ACUTELY INFARCTED SWINE HEART	13
M Kimmel, N Skadsberg, D Kaiser, T Fischer, P Iaizzo,	
EVALUATION OF CONTRACTION PATTERN IN BIVENTRICULAR PACING BY RADIONUCLIDE VENTRICULOGRAPHY	13
A Vado, E Menardi, G Rossetti, E Racca, M Feola, A Biggi, E Uslenghi	
EVALUATION OF DIASTOLIC FUNCTION IN CARDIAC RESYNCHRONIZATION THERAPY	13
M Bocchino, L Sciarra, E Moro, E Marras, C Marcon, P Delise	
SHORT-TERM EFFECT OF OPTIMAL A-V DELAY OF PATIENTS LIVING WITH ATRIO-BIVENTRICULAR PACEMAKER	14
Szabolcs Czuczor, László Melczer, Ilona Goják, Tamás Simor, Lajos Papp	
BIVENTRICULAR PACING IN PATIENTS WITH ADVANCED HEART FAILURE: SINGLE CENTER EXPERIENCE	14
E. Lewicka - Nowak, A. Dabrowska - Kugacka, A. Faran, A. Lubinski, M. Gawrysiak, A. Kutarski, G. Swiatecka	
COMPLICATIONS RELATED TO CORONARY SINUS LEAD IMPLANTATION FOR PERMANENT BIVENTRICULAR PACING IN PATIENTS WITH SEVERE HEART FAILURE	14
E. Lewicka-Nowak, A. Dabrowska-Kugacka, A. Faran, A. Lubinski, M. Gawrysiak, A. Kutarski, G. Swiatecka	
CARDIAC RESYNCHRONIZATION IMPROVES THE MECHANICAL PERFORMANCE OF THE RIGHT VENTRICLE	14
O Gurevitz, D Bar-Lev, S Bechar, M Feinberg, D Luria, M Eldar, M Glikson	
THE BENEFIT OF BIVENTRICULAR PACING ON GLUCOSE METABOLISM, PERFUSION AND WALL THICKENING ASSESSED BY	15
N Inoue, N Takahashi, T Ishikawa, T Kobayashi, K Matsushita, K Matsumoto, K Uchino, K Kimura, T Inoue, S Umemura	
INTERATRIAL CONDUCTION TIMES AS A DETERMINANT OF THE DURATION OF THE OPTIMAL AV DELAY IN BIVENTRICULAR PACING THERAPY OF CHF PATIENTS.....	15
J Wohlfahrt, T Koerber, B Ismer, H Minden, GH von Knorre, CA Nienaber	
THE IMPORTANCE OF OPTIMAL LOWER RATE PROGRAMING OF ATRIO-BIVENTRICULAR PACING AT REST	15
László Melczer, Szabolcs Czuczor, Ilona Goják, Tamás Simor, Lajos Papp	
IMPORTANCE OF ELECTRODE PACING IMPEDANCE IN THE CHOICE OF PACEMAKER PROGRAMMING	16
G. Bini, M. Pauletti, R. Bini, E. Manfredini, G. Corbucci, L. Paperini, E. Pardini	
ACUTE ELECTRICAL DATA ON 2792 VENTRICULAR PACING LEADS	16
Guy Pioger, Céline Bouat	
A 10-YEAR EXPERIENCE ON 2792 VENTRICULAR PACING LEADS	16
Guy Pioger, Joelle Pozzan, Michel Zygelman, Gérard Leny, Céline Bouat	
IS DIPYRIDAMOLE THALLIUM-201 SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY APPROPRIATE IN THE DIAGNOSIS OF CORONARY ARTERY DISEASE IN PACED PATIENTS ?	17
A. D'Aloia, P. Faggiano, L. Brentana, R. Giubbini, L. Bontempi, M. Racheli, G. Mascioli, L. Dei Cas	
SLEEP PARAMETERS IN PATIENTS(P.T) USING INTEGRITY PACEMAKERS (PM) WITH SLEEP RATE FUNCTION ON	17
O.T. Greco, A.N. Cardinali, R.A. Mazzo, A.C. Mazzo, R.L. Greco, M.A. Borges	
CHAGAS HEART DISEASE: PREDICTORS OF SUDDEN DEATH	17
O.T. Greco, R.A. Mazzo, A.N. Cardinali, A.C. Mazzo, R.L. Greco	
SHORTENING OF AV DELAY REDUCED DEGREE OF MITRAL REGURGITATION IN PATIENT WITH DDD PACEMAKER ...	17
S. Pavlovic, D. Kranjcec, M. Bergovec, I. Rudez	

SINGLE LEAD VDD PACING: THE BEST CHOICE FOR PATIENTS WITH A-V BLOCK AND NORMAL SINUS FUNCTION? ...	18
A. CAMPANA, M. BRIGANTE, M. MANZO, N. MARRAZZO, G. MELCHIORRE, B. AVALLONE, F. SILVESTRI	
PREVALENCE OF ATRIAL AND VENTRICULAR ARRHYTHMIAS IN A PACEMAKER PATIENTS POPULATION	18
M AIT SAID, O PAZIAUD, P BIENVENU, A DEJEAN, T LAVERGNE, JY LE HEUZEY, L GUIZE	
EFFECT OF OPTIMISED POSTVENTRICULAR ATRIAL BLANKING ON INAPPROPRIATE MODE SWITCHING	18
R. Pospiech, C. Kolb, D. Maurer, M. Bitar, R. Weber, A. Schuchert, G. Janssen, A. Huemmer	
EVALUATION OF FUSION BEAT DETECTION WITH A NEW VENTRICULAR AUTOMATIC CAPTURE ALGORITHM IN ICDS	19
G Boriani, J Sperzel, M Biffi, M Piro, C Martignani, T Schwarz, A Koenig, S Temporin, R Willems, S Meyer	
ATRIAL FIBRILLATION UNDER CONTROL OF DUAL CHAMBER PACEMAKER SYSTEM	19
E. EBNER	
CARDIOVERSION AND DEFIBRILLATION FOR PACEMAKER USERS	19
M VAN DAMME	
VENTRICULAR RATE STABILIZATION DURING ATRIAL FIBRILLATION IN SICK SINUS SYNDROME PATIENTS	19
D. Carretta, G. Pavoni, R. Ialongo, U. Riva	
A PACEMAKER EXPERT SYSTEM FOR ATRIAL FIBRILLATION: T-STAR INTERIM RESULTS	20
A. Schuchert on be	
HYBRID ABLATION AND PREVENTIVE PACING THERAPY TO CONTROL PERSISTENT ATRIAL FIBRILLATION: HAPPI-AF PILOT STUDY RESULTS	20
P. NEUZIL, V.Y. REDDY, M. TABORSKY, P. NIEDERLE, J.N. RUSKIN	
LONG TERM PERFORMANCE OF A DYNAMIC ATRIAL OVERDRIVE ALGORITHM IN PAROXYSMAL ATRIAL FIBRILLATION	20
LT RICCIARDI, C LAU, E CRYSTAL	
NOVEL THREE-CHAMBER PACEMAKER FOR BIATRIAL PACING - STRATOS LA - EXAMINATION AND EVALUATION OF RELIABILITY (STEER II) STUDY	21
P Rucinski, J Meyer, A Kutarski	
HEART RATE VARIABILITY BEFORE EPISODES OF SINOATRIAL WENCKEBACH BLOCK.	21
E KRAMARZ, A DABROWSKI, K MAKOWSKI	
ASSESSMENT OF INTERATRIAL CONDUCTION TIME IN TRANSESOPHAGEAL ATRIAL PACING AND USING DOPPLER ECHOCARDIOGRAPHIC MEASUREMENTS - PRELIMINARY REPORT	21
A. Kugacka, M. Tokarczyk, B. Graff, M. Gawrysiak, S. Budrejko, D. Kozlowski, G. Swiatecka	
THE TRANSESOPHAGEAL LEFT ATRIAL PACING AN ALTERNATIVE NON INVASIVE METHOD FOR THE ASSESSMENT OF SINUS NODE FUNCTION	21
G Sakantamis, P Kyriakou, G Dadoush, I Voyiatzis, V Koutsimanis, I Kanonidis, CL Papadopoulos	
PREDICTION OF FOCAL ATRIAL TACHYCARDIA ORIGIN SITE USING P WAVE CHARACTERISTICS	22
N Mujovic, M Grujic, S Mrdja	
DAY HOSPITAL MANAGEMENT OF PATIENTS WITH ATRIAL FIBRILLATION REDUCES INHOSPITAL PROCEDUR AND COSTS	22
M Menozzi, M Zennaro, V Malavasi, E Casali, MG Modena	
HIGH NT-PRO-ANP PLASMA LEVELS IN HYPERTENSIVE PATIENTS PPRONE TO PAROXYSMAL ATRIAL FIBRILLATION ..	22
A Hatziyianni, P Kyriakou, M Toutouza, C Vasiliadi, C Stefanadis, P Toutouzas	
UTILITY AND SAFETY OF DC ELECTRICAL EXTERNAL CARDIOVERSION	22
M.M. MARTINELLI, B. VARAGNOLI, F. CARUSO	
REDUCTION OF LVOT GRADIENT AND MR FOLLOWING IMPLANTATION OD DDD PACEMAKER IN PATIENT WITH IHSS	23
D. Kranjcec, S. Pavlovic, M. Bergovec	
150	23
O.T. Greco, R.A. Mazzo, A.C. Mazzo, A.N. Cardinali, P. Gauch, M.A. Borges	

FREE PAPER

CLINICAL IMPACT OF IMPLANTABLE DEFIBRILLATORS

HEART FAILURE IN PATIENTS CANDIDATES TO A CARDIAC SURGERY INTERVENTION: A MULTICENTRIC ITALIAN REGISTRY	27
E. VITALI, O. ALFIERI, E. QUAINI, P. DI BIASI, N. LUCIANI, A. BAROSI, M. LUNATI, A.S. MONTENERO, B. MEDA, P. CARDANO	
ANALYSIS OF PATTERNS OF SPONTANEOUS VENTRICULAR TACHYARRHYTHMIAS ONSET FROM IMPLANTABLE CARDIOVERTER DEFIBRILLATOR	27
Paolo Rossi, Aldo Casaleggio, Andrea Faini, Tiziana Guidotto, Giuseppe Sartori, Giacomo Musso, Roberto Mureddu, Edoardo Casali, Vincenzo Malavasi, Sergio Chierchia	
A NEW ALGORITHM FOR VENTRICULAR CAPTURE DETECTION IN ICDS	27
J Sperl, M Biffi, M Piro, C Martignani, T Schwarz, A Koenig, R Willems, Y Dong, S Meyer, G Boriani	
CLINICAL EVALUATION OF CHANGES IN PACING THRESHOLD AND IN MORPHOLOGY OF EVOKED RESPONSE POST ICD SHO	27
F GADLER, J HORNSTEN, B LARSSON, E LJUNGSTROM	
INCIDENCE OF CAR ACCIDENTS IN PATIENTS IMPLANTED WITH ICDS	28
G Mascioli, A Curnis, L Bontempi, T Bordonali, T Bignotti, M Racheli, L Dei Cas	
PSYCHOLOGICAL EVALUATION AND INTERVENTION WITH BIOFEEDBACK IN PATIENTS WITH ICD	28
G. Neri, V. Cavasin, R. Zamprogno, D. Vaccari, A. Daniotti	

PACEMAKER FUNCTION ASSESSMENT

VENTRICULAR PACING THRESHOLD VARIATIONS IN CHILDREN	29
M Silveti, A De Santis, G Grutter, N Grovale, A Baccharini, F Drago	
THE REPLACEMENT OF VDD PACEMAKERS IS FEASIBLE, SAFE AND RELIABLE INDEPENDENTLY OF THE IMPLANTED LEAD	29
A. Fabiani, A. Burali, E. Manfredini, G. Corbucci, L. Bolognese	
CLINICAL PREDICTIVE FACTORS OF ELECTRICAL PARAMETERS VARIABILITY IN DDD PACEMAKERS	29
G Saccomanno, R Ricci, L Pandolfo, A Spampinato, C Pignalberi, T Marotta, T Corte, M Santini	
DAILY PACING THRESHOLD VARIABILITY IN DDD PACEMAKERS: HOW TO TAILOR DEVICE PROGRAMMING?	29
L Pandolfo, C Pignalberi, G Saccomanno, S Rapino, R Ricci, R Pulvirenti, N Grovale, M Santini	
DIAGNOSTIC DATA FROM DUAL SENSORS ARE USEFUL TO DETERMINE PATIENTS FUNCTIONAL CAPACITY.	30
E. Moro, E. Marras, L. Sciarra, G. Raciti, A. Galvagni, P. Delise	
VALIDATION OF ACTIVITY LOG INDEX: AN AUTOMATIC METHOD FOR MONITORING PHYSICAL ACTIVITY AND FUNCTIONAL CAPACITY IN PATIENTS IMPLANTED WITH PM	30
O. Pensabene, F. Ingrassia, A. Leto, F. Lo Jacono, G. Mancino, V. Mannino, G. Raciti, G. Arone, E. Badalamenti	
VECTOR-CARDIOGRAPHY AS A PREDICTOR OF THE ACUTE HEMODYNAMIC IMPROVEMENT BY CARDIAC RESYNCHRONIZATION THERAPY	30
J. BRANDL, W. KOGLEK, M. SCHLEGL, A. OBERBICHLER, G. GRIMM, C. BUTTER	

CATHETER ABLATION OF ATRIAL FIBRILLATION: LONG-TERM RESULTS

FOLLOW-UP RESULTS OF CPV RF ABLATION IN PATIENTS WITH PAF: USEFULNESS OF 7-DAYS HOLTER RECORDING	32
K. Szydło, A. Wnuk-Wojnar, M. Trusz-Gluza, C. Czerwinski, I. Wozniak, A. Hoffmann, S. Nowak	
RESULTS OF CATHETER ABLATION FOR CHRONIC ATRIAL FIBRILLATION USING CARTO NAVIGATED CIRCUMFERENTIAL AND COMPLEX LINEAR LESIONS	32
M Fiala, J Chovancik, R Neuwirth, R Nevralova, I Nykl, M Branny	

CATHETER ABLATION FOR PERSISTENT AND PERMANENT ATRIAL FIBRILLATION: LEFT ATRIAL ABLATION ALONE VERSUS BIATRIAL ABLATION	32
L Calo', F Lamberti, ML Loricchio, E de Ruvo, C Pandozi, M Santini	
ADVANTAGE OF CATHETER ABLATION IN THE TREATMENT OF AF IN MITRAL VALVE PATIENTS: FOLLOW UP DURING 18 MONTHS.	32
O. Kalejs, R. Lacis, U. Strazdins, E. Strike, N. Porite, J.V. Volkolakovs	
COMPARISON BETWEEN INTEGRATED AND ANATOMICAL APPROACH FOR PULMONARY VEINS ABLATION	33
R Mantovan, R Verlato, M Crosato, S Baccillieri, V Calzolari, A De Leo, P Turrini, G Pastore, P Stritoni	
INTRAOPERATIVE ABLATION OF ATRIAL FIBRILLATION	33
A Graffigna, A Motta, C Pederzoli, E Galvagni	
COMBINED ABLATION STRATEGY (ANATOMICAL AND ELECTROPHYSIOLOGICAL) FOR PERSISTENT ATRIAL FIBRILLATION.	33
R VERLATO, P TURRINI, MS BACCILLIERI, A ZAMPIERO, PG PIOVESANA, R MANTOVAN, A RAMONDO	
MULTI-DETECTOR COMPUTED TOMOGRAPHY WITH DEDICATED PULMONARY VEIN RECONSTRUCTION SOFTWARE PRIOR TO PULMONARY VEIN ISOLATION	34
Gareth J Morgan-Hughes, Carl A Roobottom, Nathan Manghat, Andrew J Marshall	

ECHOCARDIOGRAPHY TO ASSESS CARDIAC RESYNCHRONIZATION

WHAT IS THE BEST ULTRASOUND PREDICTOR OF CRT RESPONSE IN PATIENTS WITH HEART FAILURE?	35
D. Mele, T. Toselli, C. Pratola, A. De Simone, G. Stabile, M. Piacenti, M. Arlotti, A. Capucci, S. Lombroso, L. Sallusti	
ECHOCARDIOGRAPHIC OPTIMISATION OF THE VENTRICULAR-VENTRICULAR INTERVAL INCREASES STROKE VOLUME IN PATINETS WITH BIVENTRICULAR PACING	35
Thomas Winter, Peter Siostrzonek, Hans Reisinger, Eduard Zeindlhofer	
LONG TERM EFFECTIVENESS OF CARDIAC RESYNCHRONIZATION THERAPY IN PATIENTS WITH ECHOCARDIOGRAPHIC EVIDENCE OF MECHANICAL ASYNCHRONY.	35
D Pontillo, M Sassari, P Achilli, N Patruno, F Serra, L Sallusti, A Achilli	
THE BENEFITS OF OPTIMIZING THE V-V DELAY IN CARDIAC RESYNCHRONISATION BY DOPPLER INDEX	35
J.H Fast, A Onrust	
TAILORED ATRIO-VENTRICULAR AND INTER-VENTRICULAR DELAY PROGRAMMING IN CRT: IS IT CRUCIAL TO OPTIMIZE MYOCARDIAL PERFORMANCE IN HF PATIENTS?	36
M.C. Porciani, R. Macioce, G. Demarchi, P. Pieragnoli, A. Colella, G. Ricciardi, A. Michelucci, C. Dondina, L. Padeletti	
ECHOCARDIOGRAPHIC AND CLINICAL IMPROVEMENTS IN PATIENTS WITH HEART FAILURE TREATED WITH BIVENTRICULAR STIMULATION: RESULTS ST SHORT AND LONG TERM	36
A Bonzano, G Pistis, S Grossi, E Caruzzo, R Ricciardi, R Bevilacqua	
PREDICTIVE VALUE OF STANDARD AND TDI ECHOCARDIOGRAPHIC PARAMETERS FOR THE SELECTION OF CANDIDATES FOR CARDIAC RESYNCHRONIZATION THERAPY	36
C. PERALDO, A. PUGLISI, M. SASSARA, F. LAURENZI, A. CESARIO, S. ORAZI, G. FRATIANNI, E. LOMBARDO, M. MARTELLI, A. DELLA SCALA	
A NOVEL METHOD TO ASSESS CARDIAC RESYNCHRONIZATION THERAPY BY THREE DIMENSIONAL ECHOCARDIOGRAPHY	37
D GALZERANO, M MALLARDO, G RICCIARDI, P TAMMARO, D LAMA, B TUCCILLO, P CAPOGROSSO	

ATRIAL FIBRILLATION ELECTRICAL PREVENTION AND TREATMENT

EVALUATION OF DYNAMIC ATRIAL OVERDRIVE STIMULATION EFFECTS IN STRUCTURAL REMODELING OF ATRIUM IN PATIENTS WITH CHRONIC ATRIAL FIBRILLATION.	38
Antonio Menezes Junior, Murilo T Daher, Humbreto Granner Moreira	
PACE PREVENTION OF ATRIAL FIBRILLATION: RESULTS FROM THE VIP REGISTRY	38
T Lewalter, A Yang, F Saboroswki, D Pfeiffer, T Markert, J Schrickel, J Schwab, M Linhart, B Lüderitz	

LONG-TERM CLINICAL EFFECT OF PREVENTIVE ATRIAL PACING ALGORITHMS IN PAROXYSMAL ATRIAL FIBRILLATION	38
F. GIRALDI, S. RIVA, G. FASSINI, N. TREVISI, R. CHIODELLI, C. CARBUCICCHIO, P. DELLA BELLA	
EFFECT OF AT500 ON HOSPITALIZATION, CARDOVERSIONS, SYMPTOMS AND MEDICATION	38
Y. Copperman, L. Urban, P. Gfoellner, E. Yaacoby, D. Becker, O. Göing	
TOLERABILITY OF PACING ALGORITHMS FOR ATRIAL FIBRILLATION (AF) PREVENTION	39
D. Cervellati, N. Propato, M. Mambelli, F. Pignatti, P. Fontana, S. Orazi, P. Pepi, M. Trombetti	
THE EFFECT OF PACING ALGORITHM FOR SUPPRESSION OF ATRIAL FIBRILLATION	39
C Suga, K Matsumoto, R Kato, T Tosaka, R Chihara, H Yahata, T Tamaki, N Komiyama, S Nishimura, T Yamashita	
RANDOMIZED COMPARISON BETWEEN ATRIAL ATP THERAPY SETTINGS: SECONDARY ENDPOINT OF THE PITAGORA TRIAL	39
M. GULIZIA, G. CHIARANDÀ, S. MANGIAMELI, G. BORIANI, G. PICCIONE, A. COLLETTI, F. LISI, I. VACCARO, TOSTO, D. CORRAO	
EFFECTS OF AF SUPPRESSION ALGORITHM ASSOCIATED WITH DUAL - SITE ATRIAL STIMULATION AND β -BLOCKER THERAPY FOR THE PREVENTION OF RECURRENT ATRIAL FIBRIL	40
Antonio Menezes Junior, Martino Martinelli Filho, Roberto Costa, Jose Eduardo Soza	

CATHETER ABLATION TO CURE ATRIAL FIBRILLATION

RADIOFREQUENCY ABLATION WITH LINEAR LESION: EFFECTIVENESS IN DIFFERENT PATTERNS OF ATRIAL FIBRILLATION.	41
S GROSSI, R RICCARDI, E CARUZZO, G PISTIS, F BIANCHI, R BEVILACQUA	
TERMINATION OF PERSISTING ATRIAL FIBRILLATION DURING PULMONARY VEIN ISOLATION – FINDINGS FROM CONTINUOUS MAPPING OF PULMONARY VEINS AND CARTO NAVIGATE	41
M Fiala, J Chovancik, R Neuwirth, R Nevrlova, I Nykl, M Branny	
ORIGIN AND FUNCTION OF INTRINSIC NEURAL PATHWAYS LOCATED IN THE AREA OF PULMONARY VEINS.	41
V. Veikutis, R. Lekas, K. Morkunaite, T. Mickevicius, A. Peckauskaite	
HRV AFTER CPV RF ABLATION IN PATIENTS WITH PAROXYSMAL ATRIAL FIBRILLATION: FOLLOW-UP RESULTS	41
K. Szydlo, A. Wnuk-Wojnar, M. Trusz-Gluza, C. Czerwinski, I. Wozniak, S. Nowak, A. Hoffmann	
PROSPECTIVE ASSESSMENT OF LATE CONDUCTION RECURRENCE ACROSS RADIOFREQUENCY LESIONS PRODUCING ELECTRICAL DISCONNECTION AT THE PULMONARY VEIN OSTIUM IN PATIENTS WITH ATRIAL FIBRILLATION	42
Chen Liying, Riccardo Cappato, Domenico Pecora, Stefano Bentivegna, Pier Paolo Lupo, Cristina Esposito, Stefano Nardi, Franco Naccarella, Sara Foresti, Francesco Furlanello, Luigi De Ambroggi	
LEFT ATRIAL FUNCTION AFTER CIRCUMFERENTIAL AND LINEAR RADIOFREQUENCY LESIONS IN TREATMENT OF ATRIAL FIBRILLATION	42
L Sknouril, M Dorda, M Fiala, J Januska, J Chovancik, M Branny	
ANTIARRHYTHMIC AND ANTICOAGULATION TREATMENT AFTER PULMONARY VEIN ISOLATION – RANDOMIZED COMPARISON OF CONVENTIONAL VERSUS ELECTROANATOMICAL APPROACH	42
M Fiala, J Chovancik, P Heinz, R Neuwirth, R Nevrlova, I Nykl, J Lukl, M Branny	
ABLATION OF ATRIAL FIBRILLATION USING A NEW 8 MM TIP CATHETER WITH 4 THERMOCOUPLE SENSORS AND BASKET	43
G BARBATO, V CARINCI, F PERGOLINI, A FAVERO, M CASANOVA, G DI PASQUALE	

CARDIAC RESYNCHRONIZATION THERAPY

THE RESYNCHRONISATION THERAPY IN SEVERE CONGESTIVE HEART FAILURE: EFFECTS ON NEUROHORMONAL ASSESSMENT	44
E Menardi, A Vado, G Rossetti, M Feola, E Racca, F Rolfo, S Goletto, E Uslenghi	
EVALUATION OF THE IGF-1 IN PATIENTS WITH HEART FAILURE AND BIVENTRICULAR PACING	44
G Molon, F Accardi, E Adamo, E Dalla Vecchia, L Sallusti, S Ciaffoni, E Barbieri	

REDUCTION OF CIRCULATING ADRENOMEDULLIN LEVELS IN SEVERE CONGESTIVE HEART FAILURE PATIENTS SUCCESSFULLY TREATED WITH RESYNCHRONISATION THERAPY	44
MA Morales, S Del Ry, U Startari, MS Maltinti, M Emdin, D Giannessi, M Piacenti	
T WAVE ALTERNANS THRESHOLD AND NT-PRO-BNP IN HEART FAILURE PATIENTS WITH INDICATION FOR CARDIAC RESYNCHRONIZATION	44
G RICCIARDI, AM GORI, P PIERAGNOLI, L DI BIASE, G MESSERI, F PIROLO, R NISTRI, L PADELETTI, R ABBATE, A MICHELUCCI	
MECHANICAL AND ELECTRICAL ALTERNANS IN HEART FAILURE PATIENTS IMPLANTED WITH BIVENTRICULAR PACEMAKERS	45
A MICHELUCCI, SM ROMANO, P PIERAGNOLI, G RICCIARDI, L DI BIASE, A COLELLA, R NISTRI, L PADELETTI, GF GENSINI	
EVALUATION OF RESYNCHRONIZATION PATTERN IN BIVENTRICULAR PACING BY RADIONUCLIDE VENTRICULOGRAPHY	45
A Vado, E Menardi, G Rossetti, E Racca, M Feola, A Biggi, E Uslenghi	
BNP AND TWA FOR A MORE ACCURATE STRATIFICATION OF ARRHYTHMIC RISK IN PATIENTS ELIGIBLE FOR CRT	45
M. FALCONE, L. BARBONAGLIA, S. MAZZA, M. BERTOLAZZI, R. GUIDA, M. POLLONE, C. PAVANELLI, E. AROASIO, M. GRONDA	
CARDIAC RESYNCHRONISATION THERAPY: CORRELATION BETWEEN PEAK ENDOCARDIAL ACCELERATION AND AORTIC VTI OBTAINED BY STANDARD ECHOCARDIOGRAPHY MEASUREMENTS	45
P.P. DELNOY, P. RITTER, L. PADELETTI, S. GARRIGUE, J. SILVESTRE	

ATRIAL FIBRILLATION PREVENTION BY PHYSIOLOGICAL PACING

EFFECTIVENESS OF DDD+ OVERDRIVE ALGORITHM IN RECURRENT ATRIAL FIBRILLATION SUPPRESSION	47
Antonio Menezes Junior, Humberto Granner Moreira	
WHAT ARE THERE THE MAIN PREDICTORS OF ATRIAL FIBRILLATION RECURRENCE IN ELDERLY PATIENTS WITH SICK SINUS SYNDROME AFTER DDD PACEMAKER IMPLANTATION.	47
M Chudzik, JK Wranicz, A Klimczak, A Oszczygiel, I Cygankiewicz, JH Goch	
A META-ANALYSIS OF TRIALS ASSESSING EFFECT OF PACING MODE IN PATIENTS WITH ANTIBRADY CARDIA PACING	47
P. Zagodzdon	
SINUS RHYTHM BEGETS SINUS RHYTHM IN BRADY-TACHY SYNDROME PATIENTS IMPLANTED WITH DDDRP PACEMAKERS	48
S. Orazi, R. Ricci, G. Boriani, F. Magliari, Favilli, M.F. Pasqualini, P. Pieragnoli, A. Colella, R Pulvirenti, L. Padeletti	
SEASONAL VARIATION OF ATRIAL TACHYARRHYTHMIAS ACCORDING TO GEOGRAPHICAL ORIGIN OF BRADYCARDIA PATIENTS IMPLANTED WITH ANTITACHYCARDIA PACEMAKERS	48
A MICHELUCCI, M SANTINI, G BOTTO, A CAPUCCI, WG RAHUE, F DRAGO, R NISTRI, M PEPE, R PULVIRENTI, L PADELETTI	
ATRIAL MEASUREMENTS AT IMPLANT AND INCIDENCE OF ATRIAL FIBRILLATION IN PATIENTS WITH SSS AND IN PATIENTS WITH AV BLOCK	48
M. Pauletti, G.C. Bini, R. Bini, E. Pardini, A. Genovesi Ebert, L. Paperini	

SUDDEN DEATH RISK STRATIFICATION

DISPERSION OF QRS COMPLEX, QT AND TRANSMYOCARDIAL REPOLARISATION AS SUDDEN	49
A Z Pietrucha, D Mroczek - Czern, M Wegrzynowska, W Piwowarska	
IS MICROVOLT T-WAVE A RELIABLE MARKER OF SUDDEN CARDIAC DEATH IN PATIENTS WITH PACEMAKER OR IMPLANTABLE CARDIOVERTER/DEFIBRILLATOR ?	49
M Santomauro, A Borrelli, L Ottaviano, N Monteforte, M Chiariello	
T WAVE ALTERNANS AND ARRHYTHMIA INDUCIBILITY IN POST AMI PATIENTS	49
N RADOI, S PESCARIU, O ISTRATOAI, C MILITARU, D.D. IONESCU	
CALCIUM CHANNEL BLOCKERS INFLUENCE T WAVE ALTERNANS	49
N RADOI, O ISTRATOAI, C MILITARU, D.D. IONESCU	

HEART RATE VARIABILITY AND PHYSICAL PERFORMANCE CHANGES INDUCED BY BIVENTRICULAR PACING IN CONGESTIV	49
F. GIRALDI, C. CARBUCICCHIO, S. RIVA, N. TREVISI, G. FASSINI, M. BERTI, P. DELLA BELLA	
HEART RATE TURBULENCE: AN USEFUL NON INVASIVE RISK PREDICTOR IN PATIENTS WITH MYOTONIC DYSTROPHY TYPE 1	50
M Casella, L Messano, M Pace, A Dello Russo, G De Martino, G Pelargonio, G.A Lanza, A Sestito, P Zecchi, F Bellocchi	

CARDIAC PACING: TECHNICAL ISSUES

A NEW IMPLANTING TECHNIQUE THROUGH CEPHALIC VEIN	51
G. Mazzocca, M. Pacchini, M. Fiaschi, G. Corbucci	
INCIDENCE OF MUSCLE STIMULATION DURING VENTRICULAR AUTOCAPTURE THRESHOLD TEST	51
K Radunski, T Utrobicic, S Frantz, A Fuchs, J Scheiner	
THERAPY ADVISOR IN PACEMAKERS: C-STAR INTERIM RESULTS	51
A. Schuchert, R. Charles	
THE POSSIBLE INFLUENCE OF THE RING (INDIFFERENT ELECTRODE) ON THE STIMULATION THRESHOLD	51
J.C.J. Res, G. Kroon, R. Abels	
FRACTAL CORRELATION PROPERTIES AND VENTRICULAR PREMATURE BEATS IN CHAGAS DISEASE	52
MR Sousa, F Lombardi, AA Perez, MD Gomes, MO Rocha, MV Barros, V Barros, AL Ribeiro	
IMPACT OF THE FULLY DIGITAL PACEMAKERS ON THE DAILY FOLLOW-UP ACTIVITIES	52
P. Scipione, F. Capestro, P. Cecchetti, A. Misiani, M. Trombetti	

CARDIAC RESYNCHRONIZATION THERAPY FOLLOW-UP

PREDICTORS OF LONG-TERM SURVIVAL IN PATIENTS TREATED WITH CARDIAC RESYNCHRONIZATION THERAPY: THE INSYNC/INSYCNICD ITALIAN REGISTRIES	53
R. RICCI, M. GASPARINI, M. LUNATI, M. TRITTO, A. CURNIS, M. BOCCHIARDO, A. VINCENTI, A. SPOTTI, A. GISOTTI	
CARDIAC OUTPUT IN SEQUENTIAL BIVENTRICULAR PACING WITH SINUS RHYTHM IN HEART FAILURE PATIENTS	53
M. Heinke, R. Surber, H. Kuehnert, G. Dannberg, H.H. Sigusch, D. Reinhardt, H.R. Figulla	
CARDIAC RESYNCHRONIZATION THERAPY IN NYHA II PATIENTS: THE INSYNC/INSYCN ICD ITALIAN REGISTRIES	53
G. LUZZI, M. SASSARA, M. BIFFI, G. MOLON, A.S. MONTENERO, F. LAURENZI, M. GASPARINI, M. LUNATI, R. FIORELLA, J. COMISSO	
IS THERE A DIFFERENCE BETWEEN PACING SITES IN CARDIAC RESYNCHRONIZATION THERAPY WITH RESPECT TO THE HEMODYNAMIC RESPONSE?	53
C(L)MC van Campen, H(D)S Vos, FC Visser, CC de Cock, CA Visser	
UPGRADE TO BIVENTRICULAR PACING: THE INSYNC/INSYCN ICD ITALIAN REGISTRIES	54
G. MASCIOLI, M. LUNATI, M. GASPARINI, M. BOCCHIARDO, M. SANTINI, A. VINCENTI, M. LANDOLINA, R. OMETTO, V. RIZZO, S. GUIDOTTI	
BENEFITS OF CRT IN CHRONICALLY PACED PATIENTS WITH HEART FAILURE: SHOULD WE UPGRADE?	54
O GUREVITZ, Y ARBEL, D BAR-LEV, D LURIA, S BECHAR, C GRANIT, M ELDAR, M GLIKSON	

TAILORING PERMANENT CARDIAC PACING

WHICH IS THE RELATION BETWEEN ATRIAL FIBRILLATION DURATION AND PHYSICALLY DISABLING SYMPTOMS IN PM PATIENTS?	55
G. Maglia, N. Cardona, G. Raciti, G. Arone, M. Comito	
PHYSIOLOGICAL RATE ADAPTATION WITH AN ELEVATED BASIC RATE FOR PREVENTION OF PAROXYSMAL AND PERSISTENT ATRIAL FIBRILLATION	55
Antonio Menezes Jr, Murilo T Daher	
CLINICAL PROGRAMMING OF AV INTERVAL IN CARDIAC RESYNCHRONIZATION THERAPY	55
R Chirife, MC Tentori, H Mazzetti	

EFFECTIVENESS, SAFETY AND REDUCTION OF THE TIME OF VENTRICULAR FIBRILLATION INDUCTION WITH DC-FIBBER METHOD	55
C Muto, G Carreras, M Canciello, C Sacra, B Tuccillo, D Damaso, E Romano	
PACEMAKER POCKET PAIN: A MAMMALIAN SOLUTION	56
T.M. Kieser, J.M. Rothschild, A.M. Gillis, R.M. Giuffre, J.R. Harder, R.S. Sheldon	
THE USE OF FIBRILLAR REGENERATED OXIDIZED CELLULOSE (SURGICEL FIBRILLAR - JOHNSON & JOHNSON) TO PREVENT BLEEDINGS IN CARDIOLOGY	56
G. Zanotto, G. Morani, R. Tomej, E. Frongia	

RIGHT ATRIUM ABLATION

RIGHT ATRIAL RADIOFREQUENCY COMPARTIMENTALIZATION IN PATIENTS WITH ATRIAL FIBRILLATION. LEFT ATRIAL EFFECTS BY ELECTROANATOMIC CARTO EVALUATION	57
Raffaele Luise, Giuseppe D’Orazio, Giovanni Muoio, Pericle Di Napoli, Alfonso Taccardi, Pierluig Marrone	
ROLE OF ELECTRO-ANATOMIC FEATURES OF CAVO-TRICUSPIDAL ISTHMUS TO PREDICT OUTCOME IN ATRIAL FLUTTER	57
A Colella, P Pieragnoli, M Giaccardi, G Ricciardi, N Musilli, MC Porciani, R Molino Lova, L Padeletti, A Michelucci, GF Gensini,	
RANDOMIZED STUDY ON TWO DIFFERENT APPROACH FOR RF ABLATION OF TYPICAL ATRIAL FLUTTER	57
T Bordonali, G Mascioli, L Bontempi, M Racheli, T Bignotti, GP Gelmini, A Curnis, L Dei Cas	
COMPARATION OF TWO DIFFERENT APPROACHES DURING RADIOFREQUENCY ABLATION OF TYPICAL ATRIAL FLUTTER: A RETROSPECTIVE ANALYSIS	57
G ZINGARINI, F ASCANI, V CHIODINI, P DE CIUCEIS, E TOSCANO, M DOTTORI	
RADIOFREQUENCY CATHETER ABLATION OF POSTERO-SEPTAL ACCESSORY PATHWAYS IN PAEDIATRIC AGE	58
B. Sarubbi, M. D’Alto, E. Romeo, R. Calvanese, G. Santarpia, M.G. Russo, R. Calabrò	
USEFULNESS OF A NON FLUOROSCOPIC NAVIGATION SYSTEM DURING ECTOPIC ATRIAL TACHYCARDIA RF ABLATION	58
D. Catanzariti, M. Maines, G. Vergara	

EXTERNAL CARDIOVERSION OF ATRIAL FIBRILLATION

BIFASIC EXTERNAL ELECTRICAL CARDIOVERSION IN PERSISTENT ATRIAL FIBRILLATION: THE EXPERIENCE OF A SINGLE CENTRE	59
A. Reggiani, P. Pepi, H. Kuwornu, F. Cionini, L Tomasi, R. Zanini	
FACILITATING CARDIOVERSION OF ATRIAL FIBRILLATION WITH IBUTILIDE PRETREATMENT AND TRANSTHORACIC BIPHASIC SHOCK	59
G. Mazzocca, G. Corbucci, E. Venturini, L. Becuzzi	
THE EFFECT OF PHARMACOTHERAPY ON THE RESULTS OF EXTERNAL CARDIOVERSION.	59
O. Kalejs, J. Jirgensons, S. Sakne, M. Vikmane	
ELEVATED LEVELS OF C REACTIVE PROTEIN PREDICT ATRIAL FIBRILLATION RECURRENCES	59
ML Loricchio, C Cianfrocca, V Pasceri, L Bianconi, F Lamberti, L Calo’, E De Ruvo, C Pandozi, A Auriti, M Santini	
CLINICAL PREDICTION OF TIME TO RECURRENCE OF PERSISTENT ATRIAL FIBRILLATION AFTER CARDIOVERSION	60
T Potpara, M Grujic, B Radojkovic, B Vujisic, N Mujovic	
CHANGING OF TEI-INDEX AFTER SUCCESSFUL CARDIOVERSION FROM CHRONIC ATRIAL FIBRILLATION	60
M LOVRIC BENCIC, J SEPAROVIC, A ERNST, A SMALCELJ	

PACING LEADS

FLOATING ATRIAL SENSING IN DEFIBRILLATION LEAD IMPROVES SPECIFICITY OF SINGLE CHAMBER ICD	61
A Curnis, V Calvi, P Delise, P Piti, G Botto	

VDD LEAD-LEAD INTERACTION AND ATRIAL OVERSENSING, AN ACUTE ANIMAL STUDY	61
M Cohen, S Pedersen, S Brabec, T Laske, J Coles	
VENTRICULAR OVERSENSING REDUCTION BY A NOVEL LEAD DESIGN	61
M Yang, E Falkenberg	
A SCREW-IN ELECTRODE COMPARED IN 2 GROUPS: SICK SINUS SYNDROME AND AV-BLOCK.	61
J.C.J. Res, M.J.J.A. Bokern	
FIRST CLINICAL RESULTS OF A NEW ACTIVE-FIXATION SINGLE COIL DEFIBRILLATION LEAD	62
L. Binner, B. Subin, F. Anselme, P. Mabo, N. Sadoul, J.S. Hermida, N. Kamouche, R. Ocklenburg, R.-U. Mletzko	
OPEN HEART SURGERY IN INFECTED PACEMAKER SYSTEMS	62
A.E. Krein, S.O. Thees, K. Neukam, H. Langenfeld, O. Elert	

AUTOMATIC EXTERNAL DEFIBRILLATION

TECHNICAL DIFFERENCES USING AUTOMATIC EXTERNAL DEFIBRILLATOR: CLINICAL IMPLICATIONS	63
M Santomauro, L Ottaviano, A Borrelli, A Costanzo, C Liguori, E Febbraro, N Monteforte, S Buonerba, M Chiariello	
TRIDENTE VITA PROJECT	63
A. Altamura, F. Lo Bianco, F. Messina, A. Totteri, A. Cautilli	
TREATMENT AND PREVENTION OF IN-HOSPITAL CARDIAC ARREST	63
G. Fradella, F. Bandini, R. Oggioni, A. Pedullà, M. Pratesi, M.V. Tonelli, B. Padelletti, P.F. Ticali, A. Fortini, C.R. Tomassini	
PILOT EXPERIENCE ON CONDOMINIUM CARDIAC DEFIBRILLATION	63
G Altamura, F Lo Bianco, F Messina, A Totteri, A Cautilli	
A PILOT STUDY OF HOME DEFIBRILLATION IN POST-MI PATIENTS AT INTERMEDIATE RISK OF SUDDEN DEATH: STUDY POPULATION CHARACTERISTICS AND PRELIMINARY RESULT	64
F Bellocci, T Sanna, F Fedele, I Genuini, M Ruzzolini, A Puglisi, P Azzolini, G Altamura, F Lobianco	
USEFULNESS OF TELECARDIOLOGY: THE CAPRI SAFE HEART PROJECT	64
M Santomauro, A Borrelli, L Ottaviano, N Monteforte, E Febbraro, A Costanzo, C Liguori, M Chiariello	

NEW TECHNIQUES FOR CARDIAC RESYNCHRONIZATION

BRIGHT STUDY (BIFOCAL PACING IN CONGESTIVE HEART FAILURE PATIENTS); INTERIM RESULTS	65
J.C.J. Res, M.J.J.A. Bokern, H.S. Vos	
IS BIFOCAL STIMULATION A REASONABLE ALTERNATIVE TO BIVENTRICULAR STIMULATION?	65
A. Bulava, J. Lukl, D. Marek	
OUTCOME OF RIGHT VENTRICULAR BIFOCAL PACING IN PATIENTS WITH PERMANENT ATRIAL FIBRILLATION AND SEVERE DILATED CARDIOMIOPATHY DUE TO CHAGAS DISEASE	65
Antonio Menezes Junior, Murilo T Daher, Humberto Granner Moreira	
LEFT VENTRICULAR PACING IN CARDIAC RESYNCHRONISATION THERAPY BY EPIMYOCARDIAL LEADS - A SINGLE CENTER EXPERIENCE	65
A.E. Krein, S.O. Thees, O. Ritter, W. Bauer, H. Langenfeld, O. Elert	
ACUTE, EARLY AND LATE COMPLICATIONS OF CARDIAC RESYNCHRONIZATION: SUMMARY OF 5 YEAR EXPERIENCE	66
O Gurevitz, D Bar-Lev, S Bechar, C Granit, G Rosenfeld, D Luria, M Eldar, M Glikson	
DEVICE LEAD INTRODUCER SHEATH SELECTION CAN HELP WITH EASE OF IMPLANT.	66
D GOLDMAN, A KARICHERLA, K HEGGS, C JENNY	
INFLUENCE OF IMPLANTER EXPERIENCE AND NEW LEADS ADOPTION IN BIVENTRICULAR DEVICES IMPLANTATION: 1502 CASES OF THE INSYNC/INSYNICD ITALIAN REGISTRIES	66
M. SASSARA, A. VINCENTI, P. PIERAGNOLI, G. LUZZI, M. LANDOLINA, G.B. PEREGO, M. GASPARINI, M. LUNATI, F. MASSI, L. BELGINI	

BENEFITS OF CARDIAC RESYNCHRONIZATION THERAPY EXTEND TO PATIENTS UP-GRADED FROM RIGHT VENTRICULAR TO 67
 L Sciarra, G Paparella, M Bocchino, G Pastore, E Marras, D Milan, E Moro, C Marcon, P Delise, R Cazzin

ATRIAL FIBRILLATION: PHARMACOLOGICAL PREVENTION AND TREATMENT

SOTALOL-FLECAINIDE ASSOCIATION FOR PAEDIATRIC ARRHYTHMIAS 68
 R. Calvanese, B. Sarubbi, M. D’Alto, E. Romeo, P. Vergara, G. Santarpia, R. Iadicola, M.G. Russo, R. Calabrò

CAUSES OF DEATH IN PATIENTS WITH ATRIAL FIBRILLATION TREATED WITH DOFETILIDE 68
 O.D. Pedersen, B Brendorp, L Køber, C Trop-Pedersen

REPEATED INTRAVENOUS BOLUSES OF ADENOSINE FOR SHORT AND LONG RP’ TACHYCARDIA TERMINATION: A 105 PATIENT STUDY. 68
 S Lavanga, F Guzzini, C Iacono, G Favia, G Giudice, M Celano, S Cattaneo, R Baroffio, M Onofri, A Croce

REPEATED INTRAVENOUS BOLUSES OF IBUTILIDE FOR CLASS 1C DRUGS RESISTANT ATRIAL FIBRILLATION TERMINATION: A TWENTY PATIENT STUDY 68
 Saverio Lavanga, Adriano Croce

INFLUENCE OF AMIODARONE THERAPY ON P-WAVE DISPERSION AND P-WAVE DURATION IN PATIENTS WITH PAROXYSMAL ATRIAL FIBRILLATION 69
 P.A. Ptaszynski, J. Ruta, S. Ceranka, J.H. Goch

EFFECTS OF STATIN THERAPY ON THE RECURRENCE OF PERSISTENT ATRIAL FIBRILLATION IN HYPERTENSIVE PATIENTS 69
 F Colivicchi, V Guido, A Pimpinella, F Ammirati, M Santini

EFFECT OF OMEGA-3 FATTY ACIDS ON RECURRENCES OF PAROXYSMAL ATRIAL FIBRILLATION 69
 F. Biscione, A. Totteri, A. De Vita, F. Lo Bianco, G. Altamura

EFFECTIVENESS OF N-3 FATTY ACIDS FOR THE PREVENTION OF ATRIAL FIBRILLATION AFTER CORONARY ARTERY BYPASS SURGERY 70
 L. Calo’, L. Bianconi, A. Meo, F. Lamberti, M.L. Loricchio, E. de Ruvo, C. Pandozi, M. Santini

CARDIAC PACING HEMODYNAMIC BENEFITS

CLOSED-LOOP STIMULATION FOR PATIENTS WITH CHRONOTROPIC INCOMPETENCE 71
 W. Lai, D. Finch, L. Josephson

INITIAL EXPERIENCE OF IMPLANTED PACEMAKERS WITH HEMODYNAMIC SENSOR. EVALUATION OF SENSOR SAFETY 71
 N. Galizio, J. Gonzalez, R. Chirife, H Fraguas, J Barra, S Graf, E. De Forteza, F. Di Gregorio

HEMODYNAMIC ASSESSMENT USING A TRANSVALVULAR IMPEDANCE SENSOR. INITIAL ANIMAL EXPERIENCE WITH IMPLANTED SOPHOS PACEMAKER 71
 R Chirife, F Di Gregorio, N Galizio, J Barra, S Graf

CORRELATION AMONG THE CLOSED-LOOP STIMULATION, THE CARDIOPULMONARY CAPACITY AND THE QUALITY OF LIFE. 71
 Antonio Menezes Junior, Murilo T Daher

EFFECTS OF RIGH APICAL VENTRICULAR PACING IN PATIENTS WITH LEFT BUNDLE BRANCH BLOCK AND REDUCED VENTRICULAR FUNCTION 72
 G Pastore, G Paparella, P Serra, D Milan, L Sciarra, R Cazzin

HOW THE LV FUNCTION DOES CHANGE BY APICAL PACING OF THE RV: THE WHERE STUDY 72
 L. PADELETTI, M. SANTINI, A. RAVAZZI, S. ORAZI, F. BELLOCCI, F. BISCIONE

LONG-TERM VENTRICULAR FUNCTION IS NOT ADVERSELY AFFECTED BY RIGHT VENTRICULAR APEX PACING IN PATIENTS WITH CONGENITAL AV BLOCK. 72
 S Sagar, A Jahangir, PA Friedman, Y Cha, RF Rea, CJ Porter, DL Hayes, WK Shen

INHERITED ARRHYTHMOLOGIC DISEASES

BRUGADA-TYPE ECG AND ST SEGMENT ALTERNANS DUE TO ISCHEMIA OF CONUS ARTERY OR RV BRANCH OF PROXIMAL RIGHT CORONARY ARTERY	74
C Omichi, T Omura, N Fujimoto, T Koji, A Kawasaki, S Kato, A Kasai	
SIMULTANEOUS LQT3 AND BRUGADA SYNDROME, A UNIFYING HYPOTHESIS REGARDING NEW FORMS YET TO BE REPORTED	74
S. Ghafurian, M. Eftekhazadeh, J.G. Shakibi	
EXERCISE INDUCED CHANGES OF T WAVE PATTERN IN LONG QT INDIVIDUALS	74
T Novotny, A Florianova, J Kadlecova, R Gaillyova, M Sisakova, O Toman, K Chroust, I Papousek, B Semrad, J Spinar	
BRUGADA SYNDROME ASSOCIATED WITH NEURALLY MEDIATED SYNCOPE: ELECTROPHYSIOLOGICAL STUDY IS MANDATORY.	74
N. Patruno, D. Pontillo, G. Ruggeri	
ELECTROANATOMIC VOLTAGE MAPPING IN ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY: COMPARISON WITH NON INVASIVE ASSESSMENT OF RIGHT VENTRICLE	75
A. AVELLA, E. ZACHARA, F. LAURENZI, P. DI RENZI, F. ALBI, F. RE, P. TANZI, G. MESSINA	
ATRIAL FIBRILLATION IN WPW SYNDROME DURING CHILDHOOD AND ADOLESCENCE	75
S. TADIC, M. GRUJIC, R. PAPIC	

SUDDEN DEATH PREDICTORS

EVALUATION OF DISPERSION OF QRS, QT AND TRANSMYOCARDIAL QT	76
B Pietrucha, E Siara, B Zaluska-Pitak, W Król-jawien, M Stolarczyk, A Rudzinski	
DOES LBBB MAINTAIN PREDICTING ROLE OF TOTAL MORTALITY AND SUDDEN DEATH IN PATIENTS WITH IDIOPATHIC DILATED CARDIOMYOPATHY RECEIVING BETA BLOCKERS?	76
A Di Lenarda, A Aleksova, M Zecchin, M Moretti, F Brun, A Percan, G Sinagra	
EVALUATION OF CLINICAL FACTORS INFLUENCING HEART RATE TURBULENCE IN PATIENTS WITH CORONARY DISEASE	76
A Pietrucha, D Czernecka, M Wegrzynowska, M Bobrowska, W Pivowarska	
PREDICTING ROLE OF NONSUSTAINED VENTRICULAR TACHYCARDIA FOR SUDDEN DEATH AND TOTAL MORTALITY RISK IN PATIENTS WITH IDIOPATHIC DILATED CARDIOMYOPATHY	77
M ZECCHIN, A ALEXSOVA, A DI LENARDA, L SALVATORE, F LONGARO, G SABBADINI, M DRIUSSI, M MORETTI, G SINAGRA	
HEART RATE VARIABILITY IN VARIOUS STAGES AND DEPTHS OF ANESTHESIA	77
M Yahalom, E Kukuyev, A Bickel, N Roguin	

ATRIAL FIBRILLATION EPIDEMIOLOGY

ATRIAL FIBRILLATION PATIENTS CLINICAL FEATURES AND TREATMENTS. EURO HEART SURVEY ON AF. THE BOLOGNA EXPERIENCE	78
Franco Naccarella, Barbara Bresciani, Chen Liying, Stefano Sdringola Maranga, Mauro Gatti, Zhang Jinrong, Giovannina Lepera	
REASONS FOR RECURRENCE OF INTERMITTENT ATRIAL FIBRILLATION AFTER PULMONARY VEIN ISOLATION - FINDINGS FROM PULMONARY VEIN MAPPING DURING REABLATION	78
M Fiala, J Chovancik, R Neuwirth, R Nevalova, I Nykl, M Branny	
CLINICAL FEATURES, CAD PATTERNS, INVASIVE PROCEDURES IN PATIENTS WITH AND WITHOUT DIABETES. THE EURO HEART SURVEY ON DIABETES. THE BOLOGNA EXPERIENCE.	78
Chen Liying, Giuseppina Premuda, Franco Naccarella, Stefano Sdringola Maranga, Mauro Gatti, Zhang Jinrong, Giovannina Lepera, Giovanna Spinelli	
PERMANENT ATRIAL FIBRILLATION AND PROPHYLAXIS OF THROMBOEMBOLISM IN PACEMAKER PATIENTS	78
M. Pauletti, G.C. Bini, R. Bini, L. Paperini, E. Pardini, A. Genovesi Ebert	
PREVALENCE OF ATRIAL FIBRILLATION AND ASSOCIATED FACTORS IN CHRONICALLY HAEMODIALYSED PATIENTS ...	79
A. VINCENTI, D. POGLIANI, A. RIVA, S STEFANI, I. ACQUISTAPACE, A. FAINI, M.G. VALSECCHI, S. GENOVESI	

HIGH PLASMA LEVELS OF BRAIN NATRIURETIC PEPTIDEIN HYPERTENSIVE PATIENTS PREDISPOSED TO PAROXYSMAL ATRIAL FIBRILLATION	79
A Hatziyianni, P Kyriakou, M Toutouza, C Vasiliadi, C Stefanadis, P Toutouzas	

CARDIAC ELECTROPHYSIOLOGY

CORONARY AND NON CORONARY EVENTS, CARDIAC PROCEDURES AND HOSPITALIZATIONS IN DIABETICS AT ONE YEAR FOLLIOW UP. EURO HEART SURVEY ON DIABETES. THE BOLOGNA EXPERIENCE	80
Franco Naccarella, Giuseppina Premuda, Chen Liying, Stefano Sdringola Maranga, Mauro Gatti, Zhang Jinrong, Giovannina Lepera, Vittorio Angelini	
TILT TRAINING AS TREATMENT OF RECURRENT VASOVAGAL SYNCOPE	80
J. Simon, J. Jírovcová	
ATRIAL FLUTTER WITH 1:1 CONDUCTION: A DIAGNOSTIC CHALLENGE	80
Cesare Saponieri, Philippe Akhrass, Antonella Sette, Ronald Pedalino, Nabil El-Sherif, Gioia Turitto	
REPEATED INTRAVENOUS BOLUSES OF FLECAINIDE FOR ACUTE ATRIAL FIBRILLATION TERMINATION: AN EFFICACY STUDY WITHIN TWO HOURS	80
S Lavanga, A Colombo, F Guzzini, M Viecca, L Cazzaniga, S Cattaneo, R Baroffio, M Onofri, A Croce	
SINUS NODE DYSFUNCTION CAUSED BY ATRIAL TACHYCARDIA?	81
P KASEM-SUWAN	
ROLE OF ELECTROPHYSIOLOGIC STUDY IN A CASE OF TACHYCARDIA WITH LONG QRS COMPLEXES	81
S. IACOPINO, G. VENTURA, F. MEGNA, F.P. CARIELLO	

HEMODYNAMIC EVALUATION OF PERMANENT PACING EFFECTIVENESS

PERMANENT CARDIAC PACING IN PATIENTS WITH RECURRENT VASOVAGAL SYNCOPE: RESULTS OF THE OESIL PACEMAKER PROSPECTIVE REGISTRY	82
Fabrizio Ammirati, Furio Colivicchi, Massimo Santini	
EVALUATION OF LEFT VENTRICULAR FUNCTION IN CONVENTIONAL DDD PACING: A LONG TERM INTRA-PATIENT STUDY	82
E. MORO, F. CAPRIOGLIO, C. MARCON, L. SCIARRA, E. MARRAS, M. BOCCHINO, P. DELISE	
NATRIURETIC PEPTIDES AND PREVALENCE OF CONGESTIVE HEART FAILURE IN PACEMAKER PATIENTS	82
Marianne Gwechenberger, Martin Huelsmann, Senta Graf, Rudolf Berger, Diane Bondermann, Brigitte Stanek, Friedric Rauscha, Richard Pacher	
SINGLE SITE PACING INDUCED ELECTRICAL DYSYNCHRONY AND THE HEMODYNAMIC RESULTS	82
ND SKADSBERG, DR KAISER, TM FISCHER, PA IAIZZO	

BIVENTRICULAR PACING/ICD

CARDIAC RESYNCHRONIZATION THERAPY: PACEMAKER OR IMPLANTABLE DEFIBRILLATOR IN HEART FAILURE PATIENTS? SHORT TERM RESULTS FROM A MULTI-CENTER STUDY	84
A. DELLO RUSSO, G. PELARGONIO, G. DE MARTINO, F. BELLOCCI, F. ZERBO, S. TEMPORIN, P. ZECCHI	
CRT-ICD AS A BRIDGE TO HEART TRANSPLANTATION	84
G. Sgarito, A. Amodeo, G. Coppola, R. Torcivia, G. Ciaramitaro, P. Assennato, S. Novo	
OPTIMIZING INTERVENTRICULAR DELAY IN CARDIAC RESYNCHRONISATION BY DOPPLER INDEX AND DP/DT (LV) ...	84
J.H Fast, A Onrust	
UTILIZATION OF PMS1000 PROGRAMMER TO OPTIMIZE THE AV DELAY IN BIVENTRICULAR PACING SYSTEMS IRRESPECTIVE OF MAKE AND MODEL	84
T Koerber, B Ismer, GH von Knorre, W Voss, F Weber, J Wohlfahrt, H Minden, CA Nienaber	
FIRST EXPERIENCE WITH A NEW CARDIAC RESYNCHRONIZATION THERAPY PACEMAKER	85
G. DE MARTINO, A. DELLO RUSSO, G. PELARGONIO, F. BELLOCCI, F. ZERBO, S. TEMPORIN, P. ZECCHI	

SICK SINUS SYNDROME

PREVENTION OF ATRIAL FIBRILLATION RECURRENCES IN SICK SINUS SYNDROME WITH SINGLE CHAMBER ATRIAL PACI	86
J. Makmur, E. Arosio, GL Bergandi, M. Ivaldi	
INCIDENCE OF ONSET MECHANISMS OF ATRIAL FIBRILLATION IN PATIENTS WITH SICK SINUS SYNDROME TREATED WITH DEDICATED PACING ALGORITHMS	86
L. Libero, P.G. Golzio, M. Jorfida, G. Francalacci, E. Occhetta, A. Vado, G. Rossetti, E. Menardi, P. Diotallevi, E. Gostoli	
CAN WE SELECT PATIENTS WITH SSS AND ATRIAL FIBRILLATION RESPONDER TO PACING? THE RESULTS OF THE RANDOMIZED AND PROSPECTIVE EPASS PILOT STUDY	86
R. Verlato, F. Zanon, E. Bertaglia, P. Turrini, M.S. Baccillieri, E. Baracca, P. Pascotto, E. Venturini, G. Corbucci	
ANTIARRHYTHMIC DRUGS AND CIRCADIAN BEHAVIOUR OF ATRIAL TACHYARRHYTHMIAS IN PATIENTS WITH BRADYCARDIA IMPLANTED WITH ANTITACHYCARDIA PACEMAKERS	86
A MICHELUCCI, L PADELETTI, G BARLETTA, L ZAMPARELLI, A CAPUCCI, R RICCI, C PUNTRELLO, L MALLUZZO, F ZANNA, M MAZZARELLA	
QUALITY OF LIFE, SYMPTOMS AND HOSPITALIZATIONS IN BT-SSS: SECONDARY ENDPOINTS OF THE PITAGORA TRIAL	87
S. ORAZI, M. GULIZIA, S. MANGIAMELI, C. PUNTRELLO, V. SPADOLA, V. GUZZO, O. PENSABENE, A. COPPOLA, A. VIRGILIO, G. SCARDACE	
INDEPENDENT PREDICTORS OF CEREBRAL ISCHAEMIC EVENTS IN PATIENTS PACED FOR SINUS NODE DISEASE	87
N. DI BELARDINO, M. SANTINI, G. BORIANI, G. MOLON, G. LUZZI, F. DRAGO, M. ACCOGLI, P. PIERAGNOLI, E. MAZZINI, L. PADELETTI	

CARDIAC PACING CLINICAL ISSUES

WHAT IS THE MINIMUM PACING RATE TO ACHIEVE A REGULAR VENTRICULAR RHYTHM IN PATIENTS WITH ATRIAL FIBRILLATION?	88
G. Mazzocca, T. Giovannini, F. Frascarelli, A. Fabiani, A. Burali, E. Manfredini, G. Corbucci	
IMPACT OF VENTRICULAR RATE REGULARISATION ON SYMPTOMS IN CHRONIC AF: WHICH PATIENT BENEFITS MORE?	88
G. Di Donato, Sgorbini, Leggio, Solimene, Vicentini, Muscio, Raciti, Bonolis, Del Giudice, Ciaramitaro	
ATRIAL FIBRILLATION AND AV DELAY OPTIMIZATION: MATE2 STUDY	88
G Molon, A Costa, R Cazzin, G Boriani, P Armigliato, A Raviele, A Capucci, P Alboni, A Vicentini, C Menozzi	
POLISOMNOGRAPHY AND HEART FAILURE: CENTRAL SLEEP APNOEA AND BIVENTRICULAR PACING	88
A Daniotti, M Marcon, D Vaccari, R Zamprogno, G Neri, L Celegon, G Micaglio	
PREVALENCE OF CORONARY ARTERY DISEASE IN PACEMAKER PATIENTS	89
M. Pauletti, R. Bini, G.C. Bini, L. Paperini, E. Pardini, A. Genovesi Ebert	
PACING IN NEONATES AND INFANTS: LONG-TERM OUTCOME	89
M.S. Silveti, A. De Santis, G. Grutter, F. Drago	

CARDIAC ELECTROPHYSIOLOGY II

TRANSESOPHAGEAL ECHOCARDIOGRAPHY IN THE ELECTROPHYSIOLOGY LABORATORY	90
V CARINCI, G BARBATO, F PERGOLINI, A BRUNELLI, U DE CASTRO, G DI PASQUALE	
USEFULNESS OF TRANSESOPHAGEAL ELECTROPHYSIOLOGIC STUDY IN PATIENTS WITH UNKNOWN ORIGIN PALPITATIONS	90
L. Corò, N. Sitta, M. Bocchino, L. Sciarra, E. Marras, P. Delise	
ECHOCARDIOGRAPHYC DETECTION AND CLINICAL MANAGEMENT OF FETAL ARRHYTHMIAS.	90
M. D'Alto, B. Sarubbi, E. Romeo, G. Santarpia, D. Cardaropoli, D. Paladini, M.G. Russo, R. Calabrò	
ATRIOVENTRICULAR NODAL RE-ENTRY TACHYCARDIA IN WILLIAMS SYNDROME: AN UNCOMMON CONDITION	90
P Vergara, B Sarubbi, M D'Alto, E Romeo, G Santarpia, MT Palladino, MG Russo, R Calabrò	

NONPOSTSURGICAL JUNCTIONAL ECTOPIC TACHYCARDIA (NPS-JET) IN CHILDREN: WHICH MANAGEMENT TO DELAY ABLATION THERAPY?	91
R RICCIOTTI, M.G. BETTUZZI, F CAPESTRO, M COLANERI, G.P. PERNA	
COMPLETE ATRIOVENTRICULAR BLOCK IN TREATED HYPERTHYROID PATIENT	91
P KASEM-SUWAN, S SURAMORNKUL	
SURGICAL TREATMENT OF ATRIAL FIBRILLATION	91
A Graffigna	

SELECTIVE SITES PERMANENT PACING

STRATIFICATION OF IMPLANTS STRATEGIES IN SELECTIVE SITE PACING: DATA FROM THE SOUTH EUROPEAN SELECT SECURE REGISTRY	92
C. PIGNALBERI, P. PIERAGNOLI, D. CATANZARITI, F. SOLIMENE, F. ZANON, A. CURNIS, P. DIOTALLEVI, P. CARDANO, T. MAROTTA, M. SANTINI	
SAFE AND EASY APPROACH TO DIRECT HIS BUNDLE PACING: A MULTICENTER ITALIAN EXPERIENCE.	92
F. ZANON, C. PIGNALBERI, A. COLELLA, D. CATANZARITI, G. SENATORE, E. OCCHETTA, G. PEREGO, F. GIRALDI, T. MAROTTA, P. CARDANO	
SELECTIVE SITE PACING FEASIBILITY AND SAFETY USING A NEW LEAD IMPLANT SYSTEM: THE SOUTH EUROPEAN SELECT SECURE REGISTRY	92
A. Colella, C. Pignalberi, F. Zanon, A. Curnis, D. Catanzariti, J. Leal, P. Cardano, T. Marotta, L. Padeletti	
EARLY EXPERIENCE WITH THE SELECTSECURE PACING LEAD SYSTEM	92
M Anelli-Monti, H Mächler, P Oberwalder, D Martin, L Salaymeh	
A NOVEL APPROACH TO CORONARY SINUS CANNULATION AND LEFT VENTRICULAR LEAD POSITIONING USING A DUAL-CATHETER SYSTEM.	93
F. Zanon, E. Baracca, S. Aggio, G. Rigatelli, C. Dondina, G. Marras, G. Boaretto, G. Braggion, P. Zonzin	
ELECTRICAL PERFORMANCE OF THE MEDTRONIC 3830 LEAD AS AN EPICARDIAL APPLICATION	93
M Cohen, S Brabec, M Teodori, S Pedersen, J Coles, T Laske	
PET AND SPECT EVALUATION OF CARDIAC METABOLISM AND PERFUSION CHANGES INDUCED BY CRT IN PATIENTS WITH HEART FAILURE AND LEFT BUNDLE BRANCH BLOCH (LBBB)	93
C. Bonanno, R. Ometto, G. Neri, L. La Vecchia, P. Orsolon, A. Lupi, A. Fontanelli, P. Zanco	
MULTISLICE CT AND RETROGRADE ANGIOGRAPHY OF CORONARY SINUS AND CRT: CORRELATION AND PREDICTIVE VALUE	94
D Vaccari, A Daniotti, R Mantovan, R Zamprogno, G Neri, V Calzolari, L Celegon, G Liessi	

MULTISITE PACING FOR HEART FAILURE TREATMENT

LONG TERM MORTALITY RATES IN PATIENTS TREATED WITH BIVENTRICULAR DEVICES (CRT): A SINGLE CENTRE EXPE	95
A Curnis, G Mascioli, L Bontempi, E Chiari, M Racheli, T Bordonali, E De Maria, M Metra, S Nodari, L Dei Cas	
AF IN CRT PATIENTS: RESULTS OF THE ITALIAN AF-CRT REGISTRY	95
L Padeletti, F Bonomi, MG Bongiorno, G Boriani, A Colella, E Occhetta, G Rognoni, R Mantovan, M Rossetti, P Silvestri	
VENTRICULAR REPOLARIZATION AND CLINICAL OUTCOME DURING BIVENTRICULAR PACING	95
P PIERAGNOLI, R MANTA, U SIGNORINI, G RICCIARDI, A COLELLA, N MUSILLI, L DI BIASE, L PADELETTI, A MICHELUCCI	
CAN A NON RESPONDER TO CARDIAC RESYNCHRONIZATION THERAPY BE CONVERTED TO A RESPONDER BY USING AN ALTERNATIVE PACING SITE?	95
C(L)MC van Campen, H(D)S Vos, FC Visser, CC de Cock, CA Visser	
DEVICE LONGEVITY WITH CARDIAC RESYNCHRONIZATION THERAPY: FIRST INDICATORS	96
G. PELARGONIO, G. DE MARTINO, A. DELLO RUSSO, F. BELLOCCI, F. ZERBO, S. TEMPORIN, P. ZECCHI	
A NEW FORM OF MULTISITE PACING, BASED ON LEFT INTERVENTRICULAR SEPTAL PACING (AN ANIMAL STUDY) ...	96
M. Grosfeld, J.C.J. Res, H.S. Vos, T.J.M. de Boer	

WHERE TO PLACE THE RIGHT VENTRICULAR LEAD IN RESYNCHRONIZATION THERAPY?	96
C(L)MC van Campen, H(D)S Vos, FC Visser, CC de Cock, CA Visser	
BIVENTRICULAR PACEMAKER OR ICD? THE ROLE OF SYNCOPE IN NON ISCHEMIC CARDIOMYOPATHY	97
B PEZZULICH, G VARALDA, A PREVITI, A LUCIANO, P GRECO LUCCHINA	

IMPLANTABLE DEFIBRILLATORS: PRIMARY AND SECONDARY SUDDEN DEATH PREVENTION

MADIT II PATIENTS. WHAT DO THEY REALLY NEED?	98
N. Galizio, P. Dávila, J. Gonzalez, L. Medesani, G. Fava, L. Favalaro, M. Diez	
MADIT II INDICATION IN THE ITALIAN CLINICAL PRACTICE: SEARCH-MI REGISTRY FOLLOW-UP	98
W. Rauhe, M. Santini, G. Boriani, A. Proclemer, M. Lunati, G. Vergara, G. Botto, C. Menozzi, S. Toscano, E. Santi	
IMPLANTATION OF A CARDIOVERTER-DEFIBRILLATOR IS ASSOCIATED WITH LOWER MORTALITY AMONG PATIENTS WITH SYNCOPE AND ADVANCED STRUCTURAL HEART DISEASE	98
Furio Colivicchi, Fabrizio Ammirati, Alessandro Pimpinella, Massimo Santini	
SYNCOPE AS AN INDICATION FOR ICD UP GRADE OF AN IMPLANTED CRT SYSTEM	98
A.E. Krein, W. Bauer, M. Koller, S.O. Thees, H. Langenfeld, O. Elert	
INDICATION FOR CARDIAC-RESYNCHRONISATION-THERAPY, MORTALITY AND ARRHYTHMIA RECURRENCES IN ICD-PATIENTS DURING LONG-TERM FOLLOW-UP	99
Ch. Perings, D. Schalk, C. Müller, H.-J. Trappe	
PREDICTORS FOR INAPPROPRIATE THERAPY DELIVERY FROM ICD	99
C Suga, K Matsumoto, R Kato, T Tamaki, R Chihara, Y Hotta, H Yahata, T Tosaka, S Nishimura, T Hoshika	
CHARACTERISTICS OF INAPPROPRIATE THERAPY DELIVERY IN PATIENTS WITH ICD	99
Jean-Luc Pasquie, Pascal Defaye, Marc Delay, Jean-Mar Davy, Olivier Bizeau, Herve Le Marec, Rachida Azoui, Antoine Leenhardt	
RISK OF APPROPRIATE SHOCKS IN PATIENTS WITH IMPLANTABLE CARDIOVERTER DEFIBRILLATORS ACCORDING TO CLINICAL VARIABLES	100
P Faggiano, A D'Aloia, M Brieda, L Brentana, F Antonini-Canterin, A Curnis, L Bontempi, F Zardo, L Dei Cas	

ATRIAL FIBRILLATION

HIGH PLASMA LEVELS OF BNP OR NT-PRO-ANP FOR THE DETECTION OF HYPERTENSIVE PATIENTS VULNERABLE TO ATRIAL FIBRILLATION?	101
A Hatziyianni, P Kyriakou, M Toutouza, C Vasiliadi, C Stefanadis, P Toutouzas	
RELATIONSHIP BETWEEN INFLAMMATORY STATUS AND MARKERS OF THROMBOEMBOLIC RISK ON TRANSESOPHAGEAL ECHOCARDIOGRAPHY IN PATIENTS WITH ATRIAL FIBRILLATION	101
C Cianfrocca, ML Loricchio, V Pasceri, A Auriti, L Bianconi, S Ficili, V Guido, M Galeazzi, E de Ruvo, L Calo'	
CORRELATING NT-PROANP PLASMA LEVELS AND LEFT ATRIAL DIMENSIONS FOR THE PREDICTION OF PAROXYSMAL AF IN SUBJECTS WITH ESSENTIAL HYPERTENSION	101
A Hatziyianni, P Kyriakou, M Toutouza, C Vasiliadi, C Stefanadis, P Toutouzas	
DIFFERENCES IN PERMANENT VERSUS CHRONIC ATRIAL FIBRILLATION. EURO HEART SURVEY ON AF. THE BOLOGNA EXPERIENCE.	101
Chen Liying, Giuseppina Premuda, Franco Naccarella, Stefano Sdringola Maranga, Mauro Gatti, Zhang Jinrong, Giovannina Lepera, Giovanna Spinelli	
REPEATED INTRAVENOUS BOLUSES OF FLECAINIDE FOR ACUTE ATRIAL FIBRILLATION TERMINATION: A COMPARATIVE STUDY WITHIN TWENTY MINUTES.	102
S Lavanga, A Colombo, M Viecca, F Guzzini, S Cattaneo, R Baroffio, M Onofri, G Tisi, A Croce	
META-ANALYSIS OF MORTALITY IN RHYTHM VERSUS RATE CONTROL TRIALS IN ATRIAL FIBRILLATION	102
C. Bonanno, R. Ometto, L. La Vecchia, G. Finocchi, F. Ottani, A. Fontanelli	
DOES ANNUAL REASSESSMENT FOR ISCHEMIA AND LEFT VENTRICULAR DYSFUNCTION ALTER USE OF TYPE 1C AGENTS?	102
D.L. SCHER	

CONSCIOUS SEDATION ADMINISTERED BY CARDIOLOGIST FOR TRANSTHORACIC ELECTRICAL
CARDIOVERSION OF ATRIAL FIBRILLATION 103
M Mennuni, S Antonicoli, D Frongillo, G Molle, P Rossi, M Sbardella, E Venturini, S Toscano

CARDIAC PACING MISCELLANEA

MANAGEMENT OF ATRIAL TACHYARRHYTHMIC EVENTS (MATE STUDY):AV DELAYOPTIMISATION AND
REDUCTION OF ATRIAL TACHYARRHYTHMIAS. 105
A. Vincentini, A. Fusco (a),A. Raviele, G. Gasparini, G. Molon, E. Barbieri, A. Capucci, G. Boriani, P. Alboni, R. Cazzin, C. Menozzi

CORRELATION BETWEEN RIGHT VENTRICULAR EVOKED QT INTERVAL AND LEFT VENTRICULAR SYSTOLIC
INTERVAL: A PILOT STUDY 105
E. Occhetta, G. Francalacci, S. Said, H. Droste, R. Hofmann, M. Bortnik, C. Vassanelli, J. Smit, G. Corbucci

LEFT & RIGHT VENTRICULAR CAPTURE VERIFICATION: AN EVOKED RESPONSE MORPHOLOGY BASED
ALGORITHM 105
P Diotallevi, A Ravazzi, G De Marchi, E Gostoli, C Militello, H Kraetschmer, R Audoglio

VENTRICULAR TACHYCARDIAS AND VALUE OF STORED ELECTROGRAMS IN PACEMAKER PATIENTS 106
S PARASKEVAIDIS, K POLYMEROPOULOS, A ZIAKAS, C GIRASSIS, G PECHLIVANOUDIS, J STYLIADIS, G LOURIDAS

PACEMAKER IMPLANTATION: IS THERE A BIAS AGAINST IMMIGRANTS? 106
M. Hochleitner

COST OF CARE DISTRIBUTION IN BRADY-TACHY SYNDROME AFTER PACEMAKER IMPLANTATION 106
P Rucinski, A Kutarski, L Wdowiak

PREDICTING THE LONG-TERM HEALTH BENEFITS AND COST-EFFECTIVENESS OF IMPLANTING DUAL
CHAMBER VS. SINGL 106
J CARO, A WARD

AUTHOR INDEX 109