

CURRICULUM VITAE

RICHARD JOHN SCHILLING

Current title: Professor of Cardiology and Electrophysiology– appointed 2009

Email r.schilling@qmul.ac.uk

www.londonafcentre.com

RICHARD JOHN SCHILLING

Date of Birth: 12 May 1966
Age: 48 Years
Nationality: British
Marital Status: Married
Address : London AF centre
2nd Floor St Olaf House
27 Tooley St
SE217BD
Work Telephone No: 0207 2342497
Pre-University Education: Forest School, London E17
Medical School: St. Thomas' Hospital Medical School
August 1983 - July 1989 London
Qualifications: M.B., B.S. (London) July 1989
M.R.C.P. (UK.) February 1992
MD (London) October 1999
CCST August 2000
FESC 2008
Prizes and Awards: British Cardiac Society Young Research Workers'
Competition Winner 1998
Rudolph Virchow award for outstanding innovation in
electrocardiology - awarded by the university of Berlin at
the 1999 world congress of electrophysiology
Oliver Sharpey Lecture and Prize 2011
GMC Registration: Full 1.8.90 (No. 3338881)
Society memberships: British Cardiovascular Society
Heart Rhythm UK
Heart Rhythm Society
European Cardiac Society
European Heart Rhythm Association

European Cardiac Arrhythmia Society

Non-clinical activity	<p>Transformation lead for research Barts Heart Centre 2013 -2014</p> <p>Medical Director for the Arrhythmia Alliance 2015- present</p> <p>Founder and director London AF centre 2004-present</p> <p>Director of strategy and commercial Barts Hospital 2015-present</p> <p>Director of research Barts Health cardiovascular clinical academic group 2012-2014</p> <p>Member of national specialised services clinical reference group for cardiovascular</p> <p>NICOR research committee 2012-2014</p> <p>Member of NICE AF guideline development group 2012- 2014</p> <p>Trustee of Arrhythmia Alliance 2012- present</p> <p>Trustee of Atrial Fibrillation Association 2008-present</p> <p>NHS information centre Cardiac Expert Working Group 2008-present</p> <p>Treasurer HRUK 2008-2012</p> <p>Lead for PBR and Tariff for HRUK 2006-2008</p> <p>Council member for HRUK 2004-2008</p> <p>Committee member for national service framework chapter 8 2002-2004</p>
Editorships	<p>Associate Editor Heart 2001- 2004</p> <p>Editor of cardiac rhythm news</p>
Courses	<p>Course director City Basic EP course 2001-present</p> <p>Course director City ICD course 2001 - present</p> <p>Course Director European Heart Rhythm Association Basic EP course 2006- 2014</p> <p>Course Director 2009-2011 “Together we can” international AF ablation meeting</p>

PRESENT CLINICAL APPOINTMENT

Jan 2001 Consultant cardiologist, St Bartholomew's and Royal London Hospital and professor of cardiology and electrophysiology (appointed 2009), Queen Mary University of London

PREVIOUS APPOINTMENTS

October 1998 SpR and Honorary Senior Registrar St. Mary's Hospital and Imperial College School of Medicine
Dr D.W.Davies, Dr R.A Foale, Dr J. Mayet, Professor N.S. Peters, Professor D. Sheridan

Jan 1996 – Honorary Senior Registrar and British Heart Foundation Junior
Sept 1998 Research Fellow Waller Department of Cardiology, St. Mary's Hospital and Imperial College School of Medicine
Dr D.W.Davies, Professor N.S. Peters

Cardiology Registrar Rotation

Nov 1994 – Registrar in Cardiology and General Medicine Castle Hill Hospital,
Nov 1995 Hull. Dr. G.C. Kaye

Feb 1994 – Registrar in Cardiology and General Medicine Grimsby District
Oct 1994 Hospital, Grimsby. Dr R Bain

Aug 1992 – Registrar in Cardiology Hull Royal Infirmary, Hull.
Jan 1994 Dr M S Norell, Dr J L Caplin, Dr G C Kaye

Feb 1992 – Royal Hallamshire Hospital, Sheffield. Senior S.H.O. General
July 1992 Medicine Dr J L Maddocks, Dr Anderson.

Aug 1990 – Medical S.H.O. Rotation. Rotating through Cardiology, Intensive
Jan 1992 Care, Gastroenterology, Rheumatology, Haematology, Geriatrics,
Hull Royal Infirmary, Hull.

Feb 1990 – H.S. General Surgery, Royal Cornwall Hospital, Treliske, Truro. Mr
July 1990 C Rickford

Aug 1989 – H.P. Renal and General Medicine, St. Thomas' Hospital, London.
Jan 1990 Dr. N Jones

CLINICAL EXPERIENCE

Current Post

I currently work as a consultant cardiologist at Barts Health NHS trust Hospital within the National Health Service. I have an unpaid position as Professor at Queen Mary University of London. I also see patients in clinics and on ward rounds at Whipps Cross Hospital. I also run a private practice the London AF centre.

Current practice

I was appointed as the second electrophysiologist at Barts Hospital at the beginning of 2001. At that time the department was a small one taking up 8 sessions in one catheter lab and had no complex ablation program. I established AF ablation at Barts in 2001 and developed the first dedicated persistent AF ablation program in the country. I then developed the London AF centre of which I am the director. I had the honour of training all of my colleagues who I work with at the London AF centre. The concept was of collaboration between clinical and research programs in the NHS and private sector. Clinical service was supported and grown by the presentation of clinical research and audit data both nationally and internationally. This led to a steady growth in referrals from both within our conventional referral region and from around the country and is now one of the largest AF ablation centres in the country. I started the biventricular pacing program at Barts in 2001 and have used a similar model of clinical research supporting excellence in clinical service to exponentially grow the implantable devices service. Improved patient referral was further supported by my establishing the first arrhythmia outreach clinic for Barts in 2003 and my colleagues have now followed my example and we now perform outreach clinics in all the referring hospitals within our region, supported by arrhythmia nurses. As a result Barts heart centre is one of the largest device implanting centres in the country and the only one to meet the implant rate target set by the NICE guidelines.

I have led a number of innovations including the establishment of the first 24/7 arrhythmia on call service in the country and acute arrhythmia centres taking direct paramedic triage patients with complete heart block or VT. I have also been involved in

the development of a number of novel technologies now currently in common use around the world including non-contact mapping, integration of 3D images into EP systems and robotic ablation systems. I developed techniques to reduce X-ray exposure to patients which means that my average X-ray time is lower than any other published data and for many complex AF ablation no X-rays are used at all.

Personal Experience

Pacing and intracardiac defibrillator implantation: I have been implanting both dual and single chamber pacemakers since 1992 and biventricular devices since 2001. My training in implantation of defibrillators began in 1994 and had the privilege of being trained when abdominal implantation of the defibrillator generator was commonplace and have been involved in defibrillator implantation during the evolution to sub-pectoral and then subcutaneous implantation.

Electrophysiology/Ablation: My clinical post involves >4 electrophysiology and ablation sessions a week. I am fully trained in all aspects of electrophysiology and catheter ablation and regularly perform transeptal puncture, atrial fibrillation and ventricular tachycardia ablation. I supervise and teach junior SpRs and consultant colleagues techniques for electrophysiology and ablation. My ex trainees are now leading heart rhythm specialists in teaching hospitals around the world.

I perform specialist arrhythmia clinics at St Barts and at Whipps Cross hospital and at the London AF centre,

RESEARCH

I was the director of research for cardiovascular at Barts Heart centre. During my appointment I have streamlined the peer review process and joined it with the basic science peer review group at William Harvey Research Institute to deliver peer review with a 10 day turn around. I have established a bi-monthly BRU seminar joint with WHRI which is stimulating translational research. I have collated data regarding all cardiovascular research at Barts Health and have been successful in obtaining additional funding support from CLRN based on Barts Health excellent recruitment rate to clinical trials. I have established a national arrhythmia multicentre trial group, which is currently

running the first multicentre AF ablation trial in the country which has recently had its research accepted in the late breaking trial section at the Heart Rhythm Society in San Francisco. I have a particular interest in novel arrhythmia mapping and ablation techniques and am currently supervising 3 research fellows, I have supervised five successful PhD/MD theses since appointed at BLT and am currently supervising 1 PhD research students. I also supervise 3 research nurses funded by industry and one by the British Heart foundation. I have established collaborations with WHRI (Tinker, Suzuki, Warner), the QMUL school of engineering (Wang), University College (Hemmingway), London Ambulance and international collaborators (University of Melbourne and Brisbane and Brigham Womens Hospital in Boston USA).

Other Duties

I wrote the arrhythmia care pathway for the national service framework (chapter 8). I served on guideline committees for catheter ablation of VT and AF for American and European cardiac societies.

I have served NICE both as an expert assessor for AF and VT ablation guidelines and was a member of the AF guideline committee, writing the guidelines for catheter ablation.

I am a member of the expert working group for the NHS information centre (involved in advising on tariffs for cardiac care) and am a member of specialised services clinical reference group cardiovascular.

I represent HRUK on the NICOR research committee and have established links with Professor Harry Hemmingway to characterise AF in the CALIBER data set.

I am a founder and trustee of the atrial fibrillation association, a patient support charity (www.atrialfibrillation.org.uk)

I am a founding member, trustee and medical director of the arrhythmia alliance, a patient and physician collaboration raising awareness of arrhythmia and its treatment. It also delivers patient education and increasing patient involvement in healthcare policy (www.heartrhythmcharity.org.uk).

TEACHING

Postgraduate

- 1) I am invited speaker at many international cardiac and arrhythmia meetings. I have given invited lectures at the ESC, ECAS, EHRA, HRS, Australasian Cardiac Society, Asia Pacific HRS.
- 2) I regularly teach, proctor and am guest operator at meetings and international catheter labs and have recently travelled to been to India, South Africa, Singapore and Bangkok in this role.
- 3) I am founder and course director for the City Basic EP course and City ICD course. I was the course director for the European Cardiac Arrhythmia Society electrophysiology course.

Undergraduate

I give regular tutorials to clinical students and am a lecturer on the cardiology BSc course.

AUDIT AND PROTOCOLS

I am regularly involved in audit particularly of electrophysiology, ablation and pacing procedures and developed electronic audit systems allowing complete collection of results and outcomes data on all pacing and electrophysiology procedures at Barts. I am one of the few (possibly only) consultant in the UK who openly publishes my AF ablation results.

LEISURE INTERESTS

I have a pilots license and instrument and multiengine rating. I have also completed a multi-crew course for large jet pilots, which I have used to inform my clinical practice and emulate the safety standards achieved by the large commercial airlines. I play 5-a-side football every week. I took up rugby for the first time in 1996 and played until 2003 as the 1st XV second or back row for Old Olavians RFC when a neck injury forced my retirement. I was awarded 2nd XV player of the year for 1997/98 and the coach's club player of the year for 1998/99. I regularly ski, climb and play golf (badly). I gave up skydiving after 200 jumps when I had children.

Publications

Papers – I continue to publish over 20 papers a year describing the outcomes of mainly clinical research, exploring the effectiveness of treatments for heart rhythm problems and describing new innovations for improving care.

- 1) Finlay MC, Lall K, Hunter RJ, Schilling RJ. Endocardial biventricular defibrillator implantation in a patient with superior vena cava obstruction. *Europace*. 2016 Feb 25. pii: euv052. [Epub ahead of print]
- 2) Ullah W, Ling LH, Prabhu S, Lee G, Kistler P, Finlay MC, Earley MJ, Sporton S, Bashir Y, Betts TR, Rajappan K, Thomas G, Duncan E, Staniforth A, Mann I, Chow A, Lambiase P, Schilling RJ, Hunter RJ. Catheter ablation of atrial fibrillation in patients with heart failure: impact of maintaining sinus rhythm on heart failure status and long-term rates of stroke and death. *Europace*. 2016 Feb 3. pii: euv440. [Epub ahead of print]
- 3) Sawhney V, Campbell NG, Brouillette SW, Coppen SR, Harbo M, Baker V, Ikebe C, Shintani Y, Hunter RJ, Dhinoja M, Johnston A, Earley MJ, Sporton S, Bendix L, Suzuki K, Schilling RJ. Telomere shortening and telomerase activity in ischaemic cardiomyopathy patients - Potential markers of ventricular arrhythmia. *Int J Cardiol*. 2016;207:157-63.
- 4) Hunter RJ, Baker V, Finlay MC, Duncan ER, Lovell MJ, Tayebjee MH, Ullah W, Siddiqui MS, McLEAN A, Richmond L, Kirkby C, Ginks MR, Dhinoja M, Sporton S, Earley MJ, Schilling RJ.. Point-by-Point Radiofrequency Ablation Versus the Cryoballoon or a Novel Combined Approach: A Randomized Trial Comparing 3 Methods of Pulmonary Vein Isolation for Paroxysmal Atrial Fibrillation (The Cryo Versus RF Trial). *J Cardiovasc Electrophysiol*. 2015;26:1307-14.
- 5) Prabhu S, Ling LH, Ullah W, Hunter RJ, Schilling RJ, McLellan AJ, Earley MJ, Sporton SC, Voskoboinik A, Blusztajn D, Mariani JA, Lee G, Taylor AJ, Kalman JM, Kistler PM The Impact of Known Heart Disease on Long-Term Outcomes of Catheter Ablation in Patients with Atrial Fibrillation and Left

- Ventricular Systolic Dysfunction: A Multicenter International Study. *J Cardiovasc Electrophysiol.* 2016;27:281-9
- 6) Domenichini G, Rahneva T, Diab IG, Dhillon OS, Campbell NG, Finlay MC, Baker V, Hunter RJ, Earley MJ, Schilling RJ. The lung impedance monitoring in treatment of chronic heart failure (the LIMIT-CHF study). *Europace.* 2016;18:428-35.
 - 7) Ling LH, Kistler PM, Kalman JM, Schilling RJ, Hunter RJ. Comorbidity of atrial fibrillation and heart failure. *Nat Rev Cardiol.* 2016;13:131-47
Rodríguez-Mañero M, Sacher F, de Asmundis C, Maury P, Lambiase PD, Sarkozy A, Probst V, Gandjbakhch E, Castro-Hevia J, Saenen J, Fukushima Kusano K, Rollin A, Arbelo E, Valderrábano M, Arias MA, Mosquera-Pérez I, Schilling R, Chierchia GB, García-Bolao I, García-Seara J, Hernandez-Ojeda J, Kamakura T, Martínez-Sande L, González-Juanatey JR, Haïssaguerre M, Brugada J, Brugada P. Monomorphic ventricular tachycardia in patients with Brugada syndrome: A multicenter retrospective study. *Heart Rhythm.* 2016;13:669-82
 - 8) Anselmino M, Matta M, D'ascenzo F, Pappone C, Santinelli V, Bunch TJ, Neumann T, Schilling RJ, Hunter RJ, Noelker G, Fiala M, Frontera A, Thomas G, Katriasis D, Jais P, Weerasooriya R, Kalman JM, Gaita F. Catheter ablation of atrial fibrillation in patients with diabetes mellitus: a systematic review and meta-analysis. *Europace.* 2015;17:1518-25.
 - 9) Lee G, Hunter RJ, Lovell MJ, Finlay M, Ullah W, Baker V, Dhinoja MB, Sporton S, Earley MJ, Schilling RJ. Use of a contact force-sensing ablation catheter with advanced catheter location significantly reduces fluoroscopy time and radiation dose in catheter ablation of atrial fibrillation. *Europace.* 2016;18:211-8.
 - 10) Ang R, Domenichini G, Finlay MC, Schilling RJ, Hunter RJ. The Hot and the Cold: Radiofrequency Versus Cryoballoon Ablation for Atrial Fibrillation. *Curr Cardiol Rep.* 2015;17:631

- 11) Ullah W, Hunter RJ, Baker V, Ling LH, Dhinoja MB, Sporton S, Earley MJ, Schilling RJ. Impact of Catheter Contact Force on Human Left Atrial Electrogram Characteristics in Sinus Rhythm and Atrial Fibrillation. *Circ Arrhythm Electrophysiol.* 2015;8:1030-9.
- 12) Abrams DJ, Kirkby C, Page SP, Earley MJ, Nitiou D, Kellsell DP, Schilling RJ. Evolution of Electrocardiographic and Structural Features Over 3 Decades in Arrhythmogenic Cardiomyopathy. *Circulation.* 2015;131:2233-5
- 13) Ang R, Hunter RJ, Baker V, Richmond L, Dhinoja M, Sporton S, Schilling RJ, Pugliese F, Davies C, Earley M. Pulmonary vein measurements on pre-procedural CT/MR imaging can predict difficult pulmonary vein isolation and phrenic nerve injury during cryoballoon ablation for paroxysmal atrial fibrillation. *Int J Cardiol.* 2015;195:253-8
- 14) Rodríguez-Mañero M, de Asmundis C, Sacher F, Arbelo E, Probst V, Castro-Hevia J, Maury P, Rollin A, Lambiase P, García-Bolao I, Chierchia GB, Fukushima Kusano K, Gourraud JB, Schilling R, Kamakura T, Martínez-Sande JL, Haïssaguerre M, González-Juanatey JR, Brugada J, Brugada P. T-wave oversensing in patients with Brugada syndrome: true bipolar versus integrated bipolar implantable cardioverter defibrillator leads: multicenter retrospective study. *Circ Arrhythm Electrophysiol.* 2015;8:792-8
- 15) Goetze S, Zhang Y, An Q, Averina V, Lambiase P, Schilling R, Trappe HJ, Winter S, Wold N, Manola L, Kestens D. Ambulatory respiratory rate trends identify patients at higher risk of worsening heart failure in implantable cardioverter defibrillator and biventricular device recipients: a novel ambulatory parameter to optimize heart failure management. *J Interv Card Electrophysiol.* 2015;43:21-9
- 16) Breitenstein A, Glanzmann M, Falk V, Maisano F, Stämpfli SF, Holy EW, Finlay M, Ling LH, Schilling RJ, Lüscher TF, Steffel J, Camici GG. Increased prothrombotic profile in the left atrial appendage of atrial fibrillation patients. *Int J Cardiol.* 2015;185:250-5

- 17) Anselmino M, Matta M, D'Ascenzo F, Bunch TJ, Schilling RJ, Hunter RJ, Pappone C, Neumann T, Noelker G, Fiala M, Bertaglia E, Frontera A, Duncan E, Nalliah C, Jais P, Weerasooriya R, Kalman JM, Gaita F. Response to letter regarding "Catheter ablation of atrial fibrillation in patients with left ventricular systolic dysfunction: a systematic review and meta-analysis". *Circ Arrhythm Electrophysiol.* 2015;8:246
- 18) Domenichini G, Diab I, Campbell NG, Dhinoja M, Hunter RJ, Sporton S, Earley MJ, Schilling RJ. A highly effective technique for transseptal endocardial left ventricular lead placement for delivery of cardiac resynchronization therapy. *Heart Rhythm.* 2015;12:943-9
- 19) Jarman JW, Panikker S, DAS M, Wynn GJ, Ullah W, Kontogeorgis A, Haldar SK, Patel PJ, Hussain W, Markides V, Gupta D, Schilling RJ, Wong T. Relationship between contact force sensing technology and medium-term outcome of atrial fibrillation ablation: a multicenter study of 600 patients. *J Cardiovasc Electrophysiol.* 2015;26:378-84
- 20) Calkins H, Gerstenfeld EP, Schilling R, Verma A, Willems S; RE-CIRCUIT Study Steering Committee. RE-CIRCUIT study-randomized evaluation of Dabigatran etexilate compared to warfarin in pulmonary vein ablation: assessment of an uninterrupted periprocedural anticoagulation strategy. *Am J Cardiol.* 2015;115:154-5
- 21) Ullah W, Hunter RJ, McLean A, Dhinoja M, Earley MJ, Sporton S, Schilling RJ. Impact of steerable sheaths on contact forces and reconnection sites in ablation for persistent atrial fibrillation. *J Cardiovasc Electrophysiol.* 2015;26:266-73
- 22) Ullah W, Hunter RJ, Baker V, Dhinoja MB, Sporton S, Earley MJ, Schilling RJ. Factors affecting catheter contact in the human left atrium and their impact on ablation efficacy. *J Cardiovasc Electrophysiol.* 2015;26:129-36
- 23) Morley KI, Wallace J, Denaxas SC, Hunter RJ, Patel RS, Perel P, Shah AD, Timmis AD, Schilling RJ, Hemingway H. Defining disease phenotypes using

- national linked electronic health records: a case study of atrial fibrillation. *PLoS One*. 2014;9(11)
- 24) Anselmino M, Matta M, D'Ascenzo F, Bunch TJ, Schilling RJ, Hunter RJ, Pappone C, Neumann T, Noelker G, Fiala M, Bertaglia E, Frontera A, Duncan E, Nalliah C, Jais P, Weerasooriya R, Kalman JM, Gaita F. Catheter ablation of atrial fibrillation in patients with left ventricular systolic dysfunction: a systematic review and meta-analysis. *Circ Arrhythm Electrophysiol*. 2014;7:1011-8
- 25) Ullah W, Hunter RJ, Haldar S, McLean A, Dhinoja M, Sporton S, Earley MJ, Lorgat F, Wong T, Schilling RJ. Comparison of robotic and manual persistent AF ablation using catheter contact force sensing: an international multicenter registry study. *Pacing Clin Electrophysiol*. 2014;37:1427-35
- 26) Haywood GA, Davies EJ, Boulos MN, Rapanotti L, Schilling R, Todd D, Rajapan K, Betts T, Earley M, Thomas G, Tomlinson D, Tayebjee M, Lambiase P, Haywood G; UK Multi-Centre Cardiac Electrophysiology Trials Group. Use of avatar virtual conferencing to co-ordinate cardiac multi-centre research. *Int J Cardiol*. 2014;176:1086-8.
- 27) Sawhney V, Graham A, Campbell N, Schilling R. Does modification to the approach to contacting potential participants improve recruitment to clinical trials? *J Clin Med Res*. 2014;6:384-7
- 28) De Caterina R, Ammentorp B, Darius H, Le Heuzey JY, Renda G, Schilling RJ, Schliephacke T, Reimitz PE, Schmitt J, Schober C, Zamorano JL, Kirchhof P; PREFER in AF Registry Investigators. Frequent and possibly inappropriate use of combination therapy with an oral anticoagulant and antiplatelet agents in patients with atrial fibrillation in Europe. *Heart*. 2014;100:1625-35
- 29) *Heart*. 2014;100:1625-35
- 30) Campbell NG, Cantor EJ, Sawhney V, Duncan ER, DeMartini C, Baker V, Diab IG, Dhinoja M, Earley MJ, Sporton S, Davies LC, Schilling RJ. Predictors of new onset atrial fibrillation in patients with heart failure. *Int J Cardiol*. 2014;175:328-32

- 31) Ullah W, McLean A, Hunter RJ, Baker V, Richmond L, Cantor EJ, Dhinoja MB, Sporton S, Earley MJ, Schilling RJ. Randomized trial comparing robotic to manual ablation for atrial fibrillation. *Heart Rhythm*. 2014;11:1862-9
- 32) Jones C, Pollit V, Fitzmaurice D, Cowan C; Guideline Development Group. The management of atrial fibrillation: summary of updated NICE guidance. *BMJ*. 2014 Jun 19;348
- 33) Shurrab M, Schilling R, Gang E, Khan EM, Crystal E. Robotics in invasive cardiac electrophysiology. *Expert Rev Med Devices*. 2014;11:375-81
- 34) Heidbuchel H, Wittkamp FH, Vano E, Ernst S, Schilling R, Picano E, Mont L. Practical ways to reduce radiation dose for patients and staff during device implantations and electrophysiological procedures. *Europace*. 2014;16:946-6.
- 35) Robson J, Dostal I, Mathur R, Sohanpal R, Hull S, Antoniou S, Maccallum P, Schilling R, Ayerbe L, Boomla K. Improving anticoagulation in atrial fibrillation: observational study in three primary care trusts. *Br J Gen Pract*. 2014 May;64(622):e275-81.
- 36) Sawhney V, Diab I, Thomas G, Schilling RJ. Recurrent sepsis post-cardiac device removal. *QJM*. 2014;107:1009-10
- 37) Le Heuzey JY, Ammentorp B, Darius H, De Caterina R, Schilling RJ, Schmitt J, Zamorano JL, Kirchhof P. Differences among western European countries in anticoagulation management of atrial fibrillation. Data from the PREFER IN AF Registry. *Thromb Haemost*. 2014;111:833-41.
- 38) Page SP, Herring N, Hunter RJ, Withycombe E, Lovell M, Wali G, Betts TR, Bashir Y, Dhinoja M, Earley MJ, Sporton SC, Rajappan K, Schilling RJ. Periprocedural Stroke Risk in Patients Undergoing Catheter Ablation for Atrial Fibrillation on Uninterrupted Warfarin. *J Cardiovasc Electrophysiol*. 2014;25:585-90
- 39) De Caterina R, Renda G, Sangiuolo R, Attenu E, Di Lecce L, Romeo F; Steering Committee del Registro Europeo PREFER in AF (vedi Appendice 1).

- Management of thromboembolic risk in patients with atrial fibrillation in Italy: baseline data from the PREFER in AF European Registry]. *G Ital Cardiol (Rome)*. 2014;15:99-109. Italian.
- 40) Ullah W, Hunter RJ, Baker V, Dhinoja MB, Sporton S, Earley MJ, Schilling RJ. Target indices for clinical ablation in atrial fibrillation: insights from contact force, electrogram, and biophysical parameter analysis. *Circ Arrhythm Electrophysiol*. 2014;7:63-8
- 41) Hunter RJ, Berriman TJ, Diab I, Kamdar R, Richmond L, Baker V, Goromonzi F, Sawhney V, Duncan E, Page SP, Ullah W, Unsworth B, Mayet J, Dhinoja M, Earley MJ, Sporton S, Schilling RJ. A randomized controlled trial of catheter ablation versus medical treatment of atrial fibrillation in heart failure (the CAMTAF trial). *Circ Arrhythm Electrophysiol*. 2014;7:31-8.
- 42) Mielewczik M, Cole GD, Nowbar AN, Schilling R, Whinnett ZI, Bordachar P, Wilmschurst P, Chambers JC, Olshansky B, Morgan J, Israel C, Sethi AS, van Houwelingen M, Cleland JG, Schmidt G, Francis DP. The C-CURE Randomized Clinical Trial (Cardiopoietic stem Cell therapy in heart failURE). *J Am Coll Cardiol*. 2013;62:2453
- 43) Kirchhof P, Ammentorp B, Darius H, De Caterina R, Le Heuzey JY, Schilling RJ, Schmitt J, Zamorano JL. Management of atrial fibrillation in seven European countries after the publication of the 2010 ESC Guidelines on atrial fibrillation: primary results of the PREvention oF thromboemolic events--European Registry in Atrial Fibrillation (PREFER in AF). *Europace*. 2014;16:6-14
- 44) Ceelen F, Hunter RJ, Boubertakh R, Sommer WH, Armbruster M, Schilling RJ, Petersen SE. Effect of atrial fibrillation ablation on myocardial function: insights from cardiac magnetic resonance feature tracking analysis. *Int J Cardiovasc Imaging*. 2013;29:1807-17
- 45) Yeo WT, Sporton SC, Dhinoja M, Schilling RJ, Earley MJ. Utility of Mapping Signals to Improve Precision of Atrioventricular Node Ablation. *Pacing Clin Electrophysiol*. 2013;36:1357-63

- 46) Malcolme-Lawes LC, Juli C, Karim R, Bai W, Quest R, Lim PB, Jamil-Copley S, Kojodjojo P, Ariff B, Davies DW, Rueckert D, Francis DP, Hunter R, Jones D, Boubertakh R, Petersen SE, Schilling R, Kanagaratnam P, Peters NS. Automated analysis of atrial late gadolinium enhancement imaging that correlates with endocardial voltage and clinical outcomes: A 2-center study. *Heart Rhythm*. 2013;10:1184-91
- 47) Sawhney V, Corden B, Abdul-Mukith K, Harris T, Schilling RJ. Are patients admitted to emergency departments with regular supraventricular tachycardia (SVT) treated appropriately? *Clin Med*. 2013;13:146-8
- 48) Shurrab M, Laish-Farkash A, Lashevsky I, Morriello F, Singh SM, Schilling RJ, Wijesundera HC, Pinter A, Newman D, Crystal E. Three-dimensional localization versus fluoroscopically only guided ablations: A meta-analysis. *Scand Cardiovasc J*. 2013;47:200-9
- 49) Jones DA, Andiapen M, Van-Eijl TJ, Webb AJ, Antoniou S, Schilling RJ, Ahluwalia A, Mathur A. The safety and efficacy of intracoronary nitrite infusion during acute myocardial infarction (NITRITE-AMI): study protocol of a randomised controlled trial. *BMJ Open*. 2013 Apr 2;3(4)
- 50) Sawhney V, Brouillette S, Abrams D, Schilling R, O'Brien B Current genomics in cardiovascular medicine. *Curr Genomics*. 2012 Sep;13(6):446-62.
- 51) Chahal CA, Ali O, Hunter RJ, Schilling RJ. Impact of controlling atrial fibrillation on outcomes relevant to the patient: focus on dronedarone. *Patient Relat Outcome Meas*. 2012;3:95-103
- 52) Hunter RJ, Jones DA, Boubertakh R, Malcolme-Lawes LC, Kanagaratnam P, Juli CF, Davies DW, Peters NS, Baker V, Earley MJ, Sporton S, Davies LC, Westwood M, Petersen SE, Schilling RJ. Diagnostic accuracy of cardiac magnetic resonance imaging in the detection and characterization of left atrial catheter ablation lesions: a multicenter experience. *J Cardiovasc Electrophysiol*. 2013;24:396-403.
- 53) Cheung VT, Hunter RJ, Ginks MR, Schilling RJ, Earley MJ, Bowles L. Management of thromboembolic risk in persons with haemophilia and atrial

- fibrillation: is left atrial appendage occlusion the answer for those at high risk?
Haemophilia. 2013;19:e84-6.
- 54) Page SP, Duncan ER, Thomas G, Ginks MR, Earley MJ, Sporton SC, Dhinoja M, Schilling RJ. Epicardial catheter ablation for ventricular tachycardia in heparinized patients. *Europace*. 2013 Feb;15(2):284-9.
- 55) D'Ascenzo F, Corleto A, Biondi-Zoccai G, Anselmino M, Ferraris F, di Biase L, Natale A, Hunter RJ, Schilling RJ, Miyazaki S, Tada H, Aonuma K, Yenn-Jiang L, Tao H, Ma C, Packer D, Hammill S, Gaita F. Which are the most reliable predictors of recurrence of atrial fibrillation after transcatheter ablation?: a meta-analysis. *Int J Cardiol*. 2012 May 22. [Epub ahead of print]
- 56) Duncan ER, Finlay M, Page SP, Hunter R, Goromonzi F, Richmond L, Baker V, Ginks M, Ezzat V, Dhinoja M, Earley MJ, Sporton S, Schilling RJ. Improved Electrogram Attenuation during Ablation of Paroxysmal Atrial Fibrillation with the Hansen Robotic System. *Pacing Clin Electrophysiol*. 2012;35:730-8
- 57) Hunter RJ, Liu Y, Lu Y, Wang W, Schilling RJ. Left atrial wall stress distribution and its relationship to electrophysiologic remodeling in persistent atrial fibrillation. *Circ Arrhythm Electrophysiol*. 2012;5:351-60.
- 58) Finlay MC, Hunter RJ, Baker V, Richmond L, Goromonzi F, Thomas G, Rajappan K, Duncan E, Tayebjee M, Dhinoja M, Sporton S, Earley MJ, Schilling RJ. A randomised comparison of Cartomerge vs. NavX fusion in the catheter ablation of atrial fibrillation: the CAVERN Trial. *J Interv Card Electrophysiol*. 2012;33:161-9
- 59) Sperzel J, Dänschel W, Gutleben KJ, Kranig W, Mortensen P, Connelly D, Trappe HJ, Seidl K, Duray G, Pieske B, Stockinger J, Boriani G, Jung W, Schilling R, Saberi L, Hallier B, Simon M, Rinaldi CA. First prospective, multi-centre clinical experience with a novel left ventricular quadripolar lead. *Europace*. 2012;14:365-72
- 60) Hunter RJ, McCready J, Diab I, Page SP, Finlay M, Richmond L, French A, Earley MJ, Sporton S, Jones M, Joseph JP, Bashir Y, Betts TR, Thomas G, Staniforth A, Lee G, Kistler P, Rajappan K, Chow A, Schilling RJ. Maintenance

- of sinus rhythm with an ablation strategy in patients with atrial fibrillation is associated with a lower risk of stroke and death. *Heart*. 2012;98:48-53
- 61) Diab IG, Hunter RJ, Kamdar R, Berriman T, Duncan E, Richmond L, Baker V, Abrams D, Earley MJ, Sporton S, Schilling RJ. Does ventricular dyssynchrony on echocardiography predict response to cardiac resynchronisation therapy? A randomised controlled study. *Heart*. 2011;97:1410-6.
- 62) Hunter RJ, Diab I, Tayebjee M, Richmond L, Sporton S, Earley MJ, Schilling RJ. Characterization of Fractionated Atrial Electrograms Critical for Maintenance of AF: A Randomized Controlled Trial of Ablation Strategies (The CFAE AF Trial). *Circ Arrhythm Electrophysiol*. 2011;4:622-9
- 63) Page SP, Pfeffer C, Schilling RJ, Sporton SC. Dual Ventricular Response: What Is the Mechanism? *J Cardiovasc Electrophysiol*. 2012 Jun;23(6):669-71
- 64) Tayebjee MH, Hunter RJ, Baker V, Creta A, Duncan E, Sporton S, Earley MJ, Schilling RJ. Pulmonary vein isolation with radiofrequency ablation followed by cryotherapy: a novel strategy to improve clinical outcomes following catheter ablation of paroxysmal atrial fibrillation. *Europace*. 2011 Sep;13(9):1250-5
- 65) Hunter RJ, Schilling RJ. Catheter ablation for AF: the case of the missing end-points. Featured correspondence: author reply. *Heart*. 2011: 97; 87.
- 66) Hunter RJ, Schilling RJ. New European guidelines on atrial fibrillation. *BMJ*. 2011 Feb 21;342:d897.
- 67) Kalla M, Rajappan K, Kalra S, Thomas G, Redpath C, Earley MJ, Sporton SC, Schilling RJ. Routine Transthoracic Echocardiography to Assess Pericardial Collections in Patients after Extensive Left Atrial Catheter Ablation: A Prospective Study. *J Cardiovasc Electrophysiol*. 2011;22:756-60
- 68) Duncan E, Schilling RJ, Earley M. Isolated Left Atrial Standstill Identified during Catheter Ablation. *Pacing Clin Electrophysiol*. 2010 Nov 11
- 69) Hunter RJ, Schilling RJ. Catheter and surgical ablation of cardiac arrhythmias. *Primary Care Cardiovascular Journal*. 2010: 3; S13-17.
- 70) Page SP, Siddiqui MS, Finlay M, Hunter RJ, Abrams DJ, Dhinoja M, Earley MJ, Sporton SC, Schilling RJ. Catheter Ablation for Atrial Fibrillation on

- Uninterrupted Warfarin: Can It Be Done Without Echo Guidance? *J Cardiovasc Electrophysiol.* 2011;22:265-70
- 71) Hunter RJ, Ginks M, Ang R, Diab I, Goromonzi FC, Page S, Baker V, Richmond L, Tayebjee M, Sporton S, Earley MJ, Schilling RJ. Impact of variant pulmonary vein anatomy and image integration on long-term outcome after catheter ablation for atrial fibrillation. *Europace.* 2010;12:1691-7
- 72) Duncan E, Thomas G, Johns N, Pfeffer C, Appanna G, Shah N, Hunter R, Finlay M, Schilling RJ, Sporton S. Do Traditional VT Zones Improve Outcome in Primary Prevention ICD Patients? *Pacing Clin Electrophysiol.* 2010;33:1353-8
- 73) Tayebjee MH, Creta A, Moder S, Hunter RJ, Earley MJ, Dhinoja MB, Schilling RJ. Impact of angiotensin-converting enzyme-inhibitors and angiotensin receptor blockers on long-term outcome of catheter ablation for atrial fibrillation. *Europace.* 2010;12:1537-42.
- 74) Duncan E, Johns N, Schilling RJ, Sporton S. Robotic Catheter Navigation within the Left Ventricle. *Pacing Clin Electrophysiol.* 2010
- 75) Hunter RJ, Schilling RJ Long-term outcome after catheter ablation for atrial fibrillation: safety, efficacy and impact on prognosis.. *Heart.* 2010;96:1259-63
- 76) Sawhney V, Ezzat VA, Sharp AS, Schilling RJ. Iatrogenic asystole on the ITU. *Lancet.* 2010;376:204.
- 77) Veasey RA, Silberbauer J, Schilling RJ, Morgan JM, Paul V, Furniss SS, Sulke N The evaluation of pulmonary vein isolation and wide-area left atrial ablation to treat atrial fibrillation in patients with implanted permanent pacemakers: the Previously Paced Pulmonary Vein Isolation Study. *Heart.* 2010;96(13):1037-42
- 78) Hunter RJ, Berriman TJ, Diab I, Baker V, Finlay M, Richmond L, Duncan E, Kamdar R, Thomas G, Abrams D, Dhinoja M, Sporton S, Earley MJ, Schilling RJ. Long-term efficacy of catheter ablation for atrial fibrillation: impact of additional targeting of fractionated electrograms *Heart.* 2010;96:1372-8

- 79) Sawhney V, Thomas G, Webster P, Schilling R. Resolution of Brugada-pattern ECG after withdrawal of the selective serotonin reuptake inhibitor paroxetine. *Heart*. 2010;96:1165-660.
- 80) Duncan E, Schilling RJ. Intracoronary ethanol ablation - a novel technique for the ablation of ventricular fibrillation. *Heart Rhythm*. 2010;7:1131-4
- 81) Opel A, Murray S, Kamath N, Dhinoja M, Abrams D, Sporton S, Schilling R, Earley M. Cryoablation versus radiofrequency ablation for treatment of atrioventricular nodal reentrant tachycardia: cryoablation with 6-mm-tip catheters is still less effective than radiofrequency ablation. *Heart Rhythm*. 2010;7(3):340-3.
- 82) Hunter RJ, Schilling RJ. Termination of atrial fibrillation by flecainide: mechanistic insights from spectral analysis. *Europace*. 2010;12:453-4.
- 83) Natale A, Raviele A, Al-Ahmad A, Alfieri O, Aliot E, Almendral J, Breithardt G, Brugada J, Calkins H, Callans D, Cappato R, Camm JA, Della Bella P, Guiraudon GM, Haïssaguerre M, Hindricks G, Ho SY, Kuck KH, Marchlinski F, Packer DL, Prystowsky EN, Reddy VY, Ruskin JN, Scanavacca M, Shivkumar K, Soejima K, Stevenson WJ, Themistoclakis S, Verma A, Wilber D; Venice Chart members. Venice Chart International Consensus document on ventricular tachycardia/ventricular fibrillation ablation. *J Cardiovasc Electrophysiol*. 2010;21(3):339-79.
- 84) Duncan E, Tayebjee M, Schilling RJ. Distinguishing Far-Field Appendage from Local Pulmonary Vein Signal in the Left Upper Pulmonary Vein During Atrial Tachycardia. *J Cardiovasc Electrophysiol*. 2010;21:469-72.
- 85) Schilling RJ, Sporton SC, Earley MS. The NICE guidelines for percutaneous epicardial catheter ablation of ventricular tachycardia: symptomatic of a guideline-obsessed health service? *Heart*. 2010;96:229-30.
- 86) Schilling RJ. Cardioversion of atrial fibrillation: the use of antiarrhythmic drugs. *Heart*. 2010;96:333-8.
- 87) Kamdar R, Frain E, Warburton F, Richmond L, Mullan V, Berriman T, Thomas G, Tenkorang J, Dhinoja M, Earley M, Sporton S, Schilling R. A prospective

- comparison of echocardiography and device algorithms for atrioventricular and interventricular interval optimization in cardiac resynchronization therapy. *Europace*. 2010;12:84-91.
- 88) Finlay M, Sawhney V, Schilling R, Thomas G, Duncan E, Hunter R, Viridi G, Abrams D, Sporton S, Dhinoja M, Earley M. Uninterrupted Warfarin for Periprocedural Anticoagulation in Catheter Ablation of Typical Atrial Flutter: A Safe and Cost-Effective Strategy. *J Cardiovasc Electrophysiol*. 2010;21:150-4
- 89) Hunter RJ, Diab I, Thomas G, Duncan E, Abrams D, Dhinoja M, Sporton S, Earley MJ, Schilling RJ. Validation of a classification system to grade fractionation in atrial fibrillation and correlation with automated detection systems. *Europace*. 2009;11:1587-96.
- 90) Hunter RJ, Finlay M, Schilling RJ, Sporton S. A broad complex tachycardia with conflicting information from pacing manoeuvres. *Europace*. 2009;11:1392-5.
- 91) EHRA/HRS Expert Consensus on Catheter Ablation of Ventricular Arrhythmias: developed in a partnership with the European Heart Rhythm Association (EHRA), a Registered Branch of the European Society of Cardiology (ESC), and the Heart Rhythm Society (HRS); in collaboration with the American College of Cardiology (ACC) and the American Heart Association (AHA). Aliot EM, Stevenson WG, Almendral-Garrote JM, Bogun F, Calkins CH, Delacretaz E, Della Bella P, Hindricks G, Jaïs P, Josephson ME, Kautzner J, Kay GN, Kuck KH, Lerman BB, Marchlinski F, Reddy V, Schalij MJ, Schilling R, Soejima K, Wilber D; European Heart Rhythm Association (EHRA); Registered Branch of the European Society of Cardiology (ESC); Heart Rhythm Society (HRS); American College of Cardiology (ACC); American Heart Association (AHA). *Heart Rhythm*. 2009;6:886-933.
- 92) Liew R, Baker V, Richmond L, Rajappan K, Gupta D, Finlay M, Thomas G, Earley M, Sporton S, Harris S, Schilling R. A randomized-controlled trial comparing conventional with minimal catheter approaches for the mapping and ablation of regular supraventricular tachycardias. *Europace*. 2009;11:1057-64

- 93) Rajappan K, Baker V, Richmond L, Kistler PM, Thomas G, Redpath C, Sporton SC, Earley MJ, Harris S, Schilling RJ. A randomized trial to compare atrial fibrillation ablation using a steerable vs. a non-steerable sheath. *Europace*. 2009;11:571-5
- 94) Rajappan K, Kistler PM, Earley MJ, Thomas G, Izquierdo M, Sporton SC, Schilling RJ. Acute and chronic pulmonary vein reconnection after atrial fibrillation ablation: a prospective characterization of anatomical sites. *Pacing Clin Electrophysiol*. 2008;31:1598-605.
- 95) Kistler PM, Rajappan K, Harris S, Earley MJ, Richmond L, Sporton SC, Schilling RJ. Impact of image integration on catheter ablation of atrial fibrillation using electroanatomic mapping: a prospective randomized study *Eur Heart J*. 2008;29:3029-36.
- 96) Bardy GH, Lee KL, Mark DB, Poole JE, Toff WD, Tonkin AM, Smith W, Dorian P, Packer DL, White RD, Longstreth WT Jr, Anderson J, Johnson G, Bischoff E, Yallop JJ, McNulty S, Ray LD, Clapp-Channing NE, Rosenberg Y, Schron EB; HAT Investigators. Home use of automated external defibrillators for sudden cardiac arrest. *N Engl J Med*. 2008;358:1793-804
- 97) Richmond L, Rajappan K, Voth E, Rangavajhala V, Earley MJ, Thomas G, Harris S, Sporton SC, Schilling RJ. Validation of Computed Tomography Image Integration into the EnSite NavX Mapping System to Perform Catheter Ablation of Atrial Fibrillation. *J Cardiovasc Electrophysiol*. 2008;19:821-7.
- 98) Kamdar RH, Schilling RJ. Percutaneous permanent pacemaker implantation via the azygous vein in a patient with superior vena cava occlusion. *Pacing Clin Electrophysiol*. 2008;3:386-8
- 99) Kistler PM, Ho SY, Rajappan K, Morper M, Harris S, Abrams D, Sporton SC, Schilling RJ. Electrophysiologic and anatomic characterization of sites resistant to electrical isolation during circumferential pulmonary vein ablation for atrial fibrillation: a prospective study. *J Cardiovasc Electrophysiol*. 2007;18:1282-8.
- 100) Showkathali R, Earley MJ, Gupta D, Alzetani M, Harris S, Kistler PM, Sporton SC, Schilling RJ. Current case mix and results of catheter ablation of

- regular supraventricular tachycardia: are we giving unrealistic expectations to patients? *Europace*. 2007;11:1064-8.
- 101) Kistler PM, Schilling RJ, Rajappan K, Sporton SC. Image integration for atrial fibrillation ablation-pearls and pitfalls. *Heart Rhythm*. 2007;4:1216-1221.
- 102) Rajappan K, Schilling RJ. Non-contact mapping in the treatment of ventricular tachycardia after myocardial infarction. *J Interv Card Electrophysiol*. 2007 Jun;19:9-18
- 103) Liew R, Rajappan K, Gupta D, Kistler P, Schilling R. Percutaneous epicardial ablation reverses ventricular tachycardia mediated cardiomyopathy. *J Interv Card Electrophysiol*. 2007;18:265-267.
- 104) Segal OR, Wong T, Chow AW, Jarman JW, Schilling RJ, Markides V, Peters NS, Wyn Davies D. Intra-coronary guidewire mapping-A novel technique to guide ablation of human ventricular tachycardia. *J Interv Card Electrophysiol*. 2007;18:143-154.
- 105) Natale A, Raviele A, Arentz T, Calkins H, Chen SA, Haissaguerre M, Hindricks G, Ho Y, Kuck KH, Marchlinski F, Napolitano C, Packer D, Pappone C, Prystowsky EN, Schilling R, Shah D, Themistoclakis S, Verma A. Venice Chart international consensus document on atrial fibrillation ablation. *J Cardiovasc Electrophysiol*. 2007;18:560-80.
- 106) Abrams DJ, Earley MJ, Sporton SC, Kistler PM, Gatzoulis MA, Mullen MJ, Till JA, Cullen S, Walker F, Lowe MD, Deanfield JE, Schilling RJ. Comparison of noncontact and electroanatomic mapping to identify scar and arrhythmia late after the Fontan procedure. *Circulation*. 2007;115:1738-46.
- 107) Lane RE, Chow AW, Mayet J, Francis DP, Peters NS, Schilling RJ, Davies DW. The interaction of interventricular pacing intervals and left ventricular lead position during temporary biventricular pacing: evaluated by tissue Doppler imaging. *Heart*. 2007;93:1426-32.
- 108) Rajappan K, Sporton SC, Schilling RJ. Left atrial tachycardia and inferior vena cava thrombotic occlusion complicating atrial fibrillation ablation successfully treated from the right subclavian vein. *Heart*. 2007;93:28

- 109) Gupta D, Earley MJ, Haywood GA, Richmond L, Fitzgerald M, Kojodjojo P, Sporton SC, Peters NS, Broadhurst P, Schilling RJ. Can atrial fibrillation with a coarse electrocardiographic appearance be treated with catheter ablation of the tricuspid valve-inferior vena cava isthmus? Results of a multicentre randomised controlled trial. *Heart*. 2006;93:688-93.
- 110) Gupta D, Al-Lamee RK, Earley MJ, Kistler P, Harris SJ, Nathan AW, Sporton SC, Schilling RJ. Cryoablation compared with radiofrequency ablation for atrioventricular nodal re-entrant tachycardia: analysis of factors contributing to acute and follow-up outcome. *Europace*. 2006;8:1022-6.
- 111) Abrams DJ, Earley MJ, Sporton SC, Schilling RJ. Successful ablation of atrioventricular nodal reentry tachycardia following the atriopulmonary Fontan procedure. *Europace*. 2006;8:907-10
- 112) Earley MJ, Abrams DJ, Sporton SC, Schilling RJ. Validation of the noncontact mapping system in the left atrium during permanent atrial fibrillation and sinus rhythm. *J Am Coll Cardiol*. 2006;48:485-91
- 113) Kistler PM, Rajappan K, Jahingir M, Earley MJ, Harris S, Abrams D, Gupta D, Liew R, Ellis S, Sporton SC, Schilling RJ. The impact of CT image integration into an electroanatomic mapping system on clinical outcomes of catheter ablation of atrial fibrillation. *J Cardiovasc Electrophysiol*. 2006;17:1093-101.
- 114) Kistler PM, Earley MJ, Harris S, Abrams D, Ellis S, Sporton SC, Schilling RJ. Validation of Three-Dimensional Cardiac Image Integration: Use of Integrated CT Image into Electroanatomic Mapping System to Perform Catheter Ablation of Atrial Fibrillation. *J Cardiovasc Electrophysiol*. 2006;17:341-8.
- 115) Earley MJ, Showkathali R, Alzetani M, Kistler PM, Gupta D, Abrams DJ, Horrocks JA, Harris SJ, Sporton SC, Schilling RJ. Radiofrequency ablation of arrhythmias guided by non-fluoroscopic catheter location: a prospective randomized trial. *Eur Heart J*. 2006;27:1223-9

- 116) Earley MJ, Abrams DJ, Staniforth AD, Sporton SC, Schilling RJ. Catheter ablation of permanent atrial fibrillation: medium term results. *Heart*. 2006;92:233-8
- 117) Kistler PM, Schilling RJ. Non-pharmacological treatment of arrhythmias. *Br J Hosp Med*. 2005;66:692-5
- 118) Earley MJ, Schilling RJ. Catheter and surgical ablation of atrial fibrillation. *Heart*. 2006;92:266-74.
- 119) Abrams D, Schilling R. Mechanism and mapping of atrial arrhythmia in the modified Fontan circulation. Abrams D, Schilling R. *Heart Rhythm*. 2005;2:1138-44.
- 120) Segal OR, Chow AW, Markides V, Schilling RJ, Peters NS, Davies DW. Long-term results after ablation of infarct-related ventricular tachycardia. *Heart Rhythm*. 2005;2:474-82.
- 121) Staniforth AD, Sporton SC, Early MJ, Wedzicha JA, Nathan AW, Schilling RJ. Ventricular arrhythmia, Cheyne-Stokes respiration and death: observations from patients with defibrillators. *Heart*. 2005;91:1418-22.
- 122) Archbold RA, Robinson NM, Schilling RJ. Radial artery access for coronary angiography and percutaneous coronary intervention. *BMJ* 2004;329:443-6
- 123) Sporton SC, Earley MJ, Nathan AW, Schilling RJ. Electroanatomic vs. fluoroscopic mapping for catheter ablation procedures: a prospective randomised study. *J Cardiovasc Electrophysiol*. 2004;15:310-5.
- 124) Schilling RJ. Non-contact mapping of the left ventricle and new insights into the mechanisms for success of biventricular pacing. *Heart*. 2004;90:3-4.
- 125) Staniforth AD, Sporton SC, Robinson NM, Cooper J, Earley MJ, Nathan AW, Schilling RJ. Is there a sex bias in implantable cardioverter-defibrillator referral and prescription? *Heart*. 2004;90:937-8.
- 126) Sporton SC, Davies DW, Earley MJ, Markides V, Nathan AW, Schilling RJ. Catheter inversion: a technique to complete isthmus ablation and cure atrial flutter. *Pacing Clin Electrophysiol*. 2004;27:775-8.

- 127) Archbold RA, Schilling RJ. Atrial pacing for the prevention of atrial fibrillation after coronary artery bypass graft surgery: a review of the literature. *Heart*. 2004;90:129-33.
- 128) Staniforth AD, Schilling RJ. Reuse of Occluded Veins During Permanent Pacemaker Lead Extraction: A New Indication for Femoral Lead Extraction. *Indian Pacing Electrophysiol. J.* 2002;2:97
- 129) Markides V, Schilling RJ. Atrial fibrillation: classification, pathophysiology, mechanisms and drug treatment. *Heart*. 2003;89:939-43.
- 130) Sporton S, Schilling R. Developments in clinical electrophysiology. *Hosp Med*. 2003;64:70-1
- 131) Markides V, Schilling RJ, Ho SY, Chow AWC, Davies DW, Peters NS. Characterization of left atrial activation in the intact human heart. *Circulation*. 2003;107:733-9.
- 132) Chow AWC, Schilling RJ, Davies DW, Peters NS. Characteristics of wave front propagation in reentrant circuits causing human ventricular tachycardia. *Circulation*. 2002;105:2172-8.
- 133) Dalby MC, Schilling RJ. Lesson of the issue: Transection, migration and recovery of a peel-away introducer sheath during permanent pacemaker implantation. *Europace*. 2002;4:159-60.
- 134) Peters NS, Schilling RJ, Kanagaratnam P, Markides V. Atrial fibrillation: strategies to control, combat, and cure. *Lancet* 2002;35:593-603
- 135) Schilling RJ. Which patient should be referred to an electrophysiologist : supraventricular tachycardia. *Heart* 2002;87:299-304.
- 136) Schilling R. Replacement of extracted permanent pacemaker or defibrillator leads by cannulation of veins using the femoral “drag-through” technique. . *Heart* 2002;87:276-278.
- 137) Schilling R. Can catheter ablation cure postinfarction ventricular tachycardia? *Eur Heart J* 2002;23:352-354.

- 138) Chow AC, Schilling RJ, Peters NS, Davies DW. Catheter ablation of ventricular tachycardia related to coronary artery disease: the role of non-contact mapping. *Curr Cardiol Reports* 2000;2:529-536.
- 139) Schilling RJ, Peters NS. An introduction to catheter ablation of arrhythmias. *Br J Cardiol* 2000;7:594-599.
- 140) Schilling RJ, Peters NS, Goldberger J, Kadish AH, Davies DW. Characterization of the anatomy and conduction velocities of the human right atrial flutter circuit determined by noncontact mapping. *JACC* 2001;38:385-393.
- 141) Kanagaratnam P, Peters N, Schilling RJ. Implantable cardiac defibrillators. *Br J Cardiol* 2000;7:145-148.
- 142) Schilling RJ, Kadish AH, Peters NS, Goldberger J, Davies DW. Endocardial mapping of atrial fibrillation in the human right atrium using a non-contact catheter. *Eur Heart J* 2000;21:550-564.
- 143) Kanagaratnam P, Markides V, Lamb DW, Schilling RJ, Davies DW, Chow AWC, Patel P, Peters NS. Human atrial activation mapping: the role of structure and ultrastructure. *G Ital Cardiol* 1999;29:333-337.
- 144) Chow AC, Schilling RJ, Peters NS, Davies DW. Non-contact mapping. How does this affect our ability to ablate difficult arrhythmias. *G Ital Cardiol* 1999;29:337-340.
- 145) Schilling RJ, Peters NS, Davies DW. Non-Contact mapping of cardiac arrhythmias. *Journal of Electrocardiology* 1999;32:13-15.
- 146) Lamb D, Schilling R. Who's for a pacemaker? *Br J Cardiol* 1999;6: 580-582
- 147) Schilling R, Peters N. Insertion of permanent pacemakers. *Br J Cardiol* 1999;6: 550-6
- 148) Schilling RJ, Davies DW, Peters NS. Clinical developments in cardiac activation mapping. *Eur Heart J* 2000;21:801-807.
- 149) Schilling RJ. Pacing lead entanglement in the tricuspid valve apparatus during implantation. *Europace* 1999;1:201.

- 150) Schilling RJ, Peters NS, Davies DW. Feasibility of a non-contact catheter for endocardial mapping of human ventricular tachycardia. *Circulation* 1999;99:2543-2552.
- 151) Schilling RJ, Peters NS, Davies DW. Mapping and ablation of ventricular tachycardia with the aid of a non-contact mapping system. *Heart* 1999;81:570-576.
- 152) Schilling RJ, Peters NS, Davies DW. Simultaneous endocardial mapping in the human left ventricle using a noncontact catheter: comparison of contact and reconstructed electrograms during sinus rhythm. *Circulation* 1998;98:887-898.
- 153) Schilling RJ, Davies DW, Peters NS. Characteristics of Sinus Rhythm Electrograms at Sites of Ablation of Ventricular Tachycardia Relative to All Other Sites: a Non-Contact Mapping Study of the Entire Left Ventricle. *J Cardiovasc Electrophysiol* 1998;9:921-933.
- 154) Peters NS, Jackman W, Schilling RJ, Beatty G, Davies DW. Human Left Ventricular Endocardial Activation Mapping using a Novel Non-Contact Catheter. *Circulation* 1997;95:1658-1660.
- 155) Schilling RJ, Davies DW. Intracardiac Electrophysiology, Ablation and Implantable Cardiac Defibrillators. *Medicine* 1998;26(1):164-170.
- 156) Burn S, Schilling RJ, Kaye GC. Cardiac syncope due to transient coronary artery occlusion: the role of percutaneous angioplasty. *Post Grad Med J* 1998;74:361-362.
- 157) Schilling RJ, Kaye GC. Epidemiology and management of Sudden Cardiac Death. *Hospital Medicine* 1998;59:116-120.
- 158) Schilling RJ, Kaye GC. Atrial Flutter associated with a large paraoesophageal hernia. *PACE* 1998;21:1303-1306.
- 159) Schilling RJ, Norell MS. Coronary artery disease in identical twins. *European Heart Journal* 1995;16: 134-135.
- 160) Schilling RJ, Francis CM, Shaw TRD, Norell MS. Inoue balloon rupture during dilation of calcified mitral valves. *British Heart Journal* 1995;73(4):390.

- 161) Schilling RJ, Hurding S, Maddocks JL. Treatment of acute asthma after discharge from hospital: A hospital audit. *Journal Of Asthma* 1995;32(2):161-163.
- 162) Sinha S, Schilling RJ, Kaye GC, Caplin JL. Clinical evaluation of a dual sensor, Rate responsive Pacemaker. *PACE* 1994;17(II):1950-1954.
- 163) Schilling RJ. Resuscitation of patients and the presence of relatives. *BMJ* 1994;309:406 (Letter).

Book Chapters

Non-Contact Endocardial Activation Mapping. Peters NS, Schilling RJ, Davies DW. In *Cardiac Electrophysiology: From Cell to Bedside*. Saunders: Philadelphia Pennsylvania, Editors Zipes DP, Jalife J. Pp839-844.

Lead Problems, device infections and lead extraction Schilling RJ and Sporton S. In *Implantable cardiac pacemakers and defibrillators: all you wanted to know*. Blackwell: Massachusetts, Editors Chow AC and Buxton AE. Pp 151-171.

Non-contact endocardial mapping. Schilling RJ. In *Cardiac Mapping: second edition*. Eds Shenasa M, Borggreffe M, Bredihart G. Elmsford NY: Blackwell Publishing Inc. 2003. pp 59-102.