

**Personal Information:****Ibrahim ALTUN**

MD, Consultant Cardiologist, Professor of Cardiology

Cardiac Imaging Specialist ( Cardiac CT, Cardiac MR, Echocardiography )

Mugla Sitki Kocman University, School of Medicine,

Department of Cardiology, Mugla, Turkiye

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**Area of Interest:** Cardiac CT, Cardiac MR, Echocardiography

**Education & Qualifications**

Professor	Mugla Sitki Kocman University, School of Medicine, Department of Cardiology	( 2023 – )
Research Fellow	Oxford Centre for Clinical Magnetic Resonance Research	( 2022-2023 )
Associate Professor	Mugla Sitki Kocman University, School of Medicine, Department of Cardiology	( 2017–2022 )
Assistant Professor	Mugla Sitki Kocman University, School of Medicine, Department of Cardiology	( 2014- 2017 )
Cardiology Resident	Istanbul University, Istanbul School of Medicine, Department of Cardiology	( 2005- 2011 )
Medical School	Istanbul University , Cerrahpasa School of Medicine	( 1999 - 2005 )

**Work Experience**

Cardiology Resident	Istanbul University, School of Medicine, Department of Cardiology	( 2005 - 2011 )
Consultant Cardiologist	Sarikamis Military Hospital, Kars , Turkiye	( 2011- 2012 )
Consultant Cardiologist	Baskale State Hospital, Van, Turkiye	( 2012- 2013 )
Consultant Cardiologist	Akcakoca State Hospital, Duzce, Turkiye	( 2013- 2014 )
Assistant Professor	Mugla Sitki Kocman University Research and Training Hospital	( 2014-2017 )
Associate Professor	Mugla Sitki Kocman University Research and Training Hospital	( 2017-2023 )
Professor	Mugla Sitki Kocman University Research and Training Hospital	( 2023 - )

## Membership of Medical Societies

Turkish Society of Cardiology (TSC)

European Society of Cardiology (ESC)

European Association of Cardiovascular Imaging (EACVI)

## My Cardiac CT Courses and Talks

- 1- How to Approach to Stable and Vulnerable Coronary Plaques: Cardiac CT for Coronary Plaque Assessment. Lipids and Atherosclerosis Course from Theory to Practice, Izmir, **June 2024**
- 2- Role of CCT in patient with Coronary Artery Disease: Real life Cases. Cardiology Days of Aegean Region, Izmir, **24-25 May 2024**
- 3- Assessment of Coronary Atherosclerosis in patients with Diabetes: Coronary CT Angiography. 21<sup>th</sup> National Hypertension and Cardiovascular Disease Congress, Izmir, **3-5 May 2024**
- 4- Istanbul Complete Cardiac CT Training. 2-day hands-on Cardiac CT course. Istanbul, **20-21 April 2024**
- 5- Role of Cardiac CT in Cardiology Practice: CCT for Non-coronary and Non-valvular indications. Turkish Society of Cardiology Spring Meeting, **7-10 March 2024**
- 6- Cardiovascular CT with real life cases. Ege University Cardiovascular Imaging Meeting, Izmir , **February 2024**
- 7- Noninvasive Imaging to Assess Coronary Atherosclerotic Plaque Composition and Disease Activity: CT Angiography. 39<sup>th</sup> National Turkish Cardiology Congress, Antalya, **8-12 November 2023**
- 8- Imaging in Acute Coronary Syndrome “ Cardiac CT and Cardiac MR ”. Cardiovascular Academy society Congress & International Academy of Young Cardiologists, Cyprus, **September 2023**
- 9- CT evaluation for TAVI training. 2-day hands-on Course for interventional Cardiologists with Trimensio software, Istanbul, **8-9 July 2023**
- 10- Role of CT-FFR in chronic coronary artery disease. 21<sup>th</sup> National Hypertension and Cardiovascular Disease Congress, Online Presentation, **May 2023**
- 11- Role of Cardiac CT in Congenital Heart Disease. 38<sup>th</sup> National Turkish Cardiology Congress, Online Presentation, **November 2022**
- 12- Role of Cardiac CT on the aortic valve disease ( native and prosthetic aortic valve ) with real life cases, 2<sup>th</sup> Uludag Cardiology Congress, Bursa, **March 2022**
- 13- Role of Cardiac CT in interventional Cardiology ( CTO, EVAR, TEVAR ), Interventional Cardiology Congress, Istanbul, **February 2022**
- 14- Role of Coronary Calcium Scoring and CT imaging methods in the decision to initiate lipid lowering therapy in primary prevention. 17<sup>th</sup> International Congress of Update in Cardiology and Cardiovascular Surgery Congress, Online, **December 2021**
- 15- Role of CCTA on the diagnosis of coronary artery disease with 10 real-life cases. Cardiovascular Academy society Congress ( Cardiology Almanag ), Istanbul, **December 2021**

- 16- Importance of CT for aortic and peripheral interventions. Cardiovascular CT on the diagnosis, management and treatment surveillance of Aortic disease. 37<sup>th</sup> National Turkish Cardiology Congress, Antalya, **November 2021**
- 17- Assessment of cardiovascular risk: Coronary imaging. 37<sup>th</sup> National Turkish Cardiology Congress, Antalya, **November 2021**
- 18- CCTA Course for Cardiologist. ACS21 congress, Istanbul, **September 2021**
- 19- Chronic total occlusion and Cardiac CT. Cardio-online Complex Interventions Platform, Izmir, **September 2021**
- 20- Coronary calcium score: Is it Paradox or real? 18<sup>th</sup> National Hypertension and Cardiovascular Disease Congress, Online, **December 2020**
- 21- Cardiac CT beyond the coronary arteries. 16<sup>th</sup> International Congress of Update in Cardiology and Cardiovascular Surgery Congress, Online, **October 2020**
- 22- CT coronary angiography in the diagnosis of CAD: Is catheter angiography will be ancient? 17<sup>th</sup> National Hypertension and Cardiovascular Disease Congress, Bodrum, **April 2019**

#### **My Cardiac MR Talks**

1. Role of CMR in patients with Pulmonary Hypertension. Pulmonary Hypertension Course, Istanbul, **January 2024**
2. Role of CMR in patients with Hypertrophic Cardiomyopathy. 39<sup>th</sup> National Turkish Cardiology Congress, Antalya, **8-12 November 2023**
3. A Glimpse to Cardiac MR with real life cases. Cardiovascular Academy society Congress & International Academy of Young Cardiologists, Cyprus, **September 2023**
4. Stress Perfusion Cardiac MR. Level 1 CMR course for Cardiologist, Online Participation, Sakarya, **2022**
5. Myocarditis and CMR. Resident Education Seminar, Mugla, **2021**

## **Publications**

### **Original Articles, Review, Editorial, Case Reports, Original Image and Letter to Editor (SCI or SCI Expanded)**

1. Gonzales RA, Ibáñez DH, Hann E, Popescu IA, Burrage MK, Lee YP, **Altun I**, Weintraub WS, Kwong RY, Kramer CM, Neubauer S; Hypertrophic Cardiomyopathy Registry (HCMR) Investigators; Oxford Acute Myocardial Infarction (OxAMI) Study; Ferreira VM, Zhang Q, Piechnik SK. Quality control-driven deep ensemble for accountable automated segmentation of cardiac magnetic resonance LGE and VNE images. *Front Cardiovasc Med.* **2023** Sep 11;10:1213290.
2. **Altun I**. Role of Cardiac Magnetic Resonance Imaging in the Management and Treatment of Patients with Ventricular Arrhythmias, Turkish Clinics, Cardiology Special Issue, on Ventricular Arrhythmias, **2023**
3. **Altun I**. Role of Cardiac CT and Circulating Biomarkers in Coronary Artery Disease: Recent Advances for Expanding Cardiac Imaging Access. *Turk Kardiyol Dern Ars.* **2023** Jun;51(4):231-234.
4. Akin F, **Altun I**, Ayca B, Kose N, Altun İ. Associations of Non-High-density Lipoprotein Cholesterol and Triglyceride/High-density Lipoprotein Cholesterol Ratio with Coronary Plaque Burden and Plaque Characteristics in Young Adults. *Bosn J Basic Med Sci.* **2022** May 8.
5. **Altun I**, Başaran Ö, Çelik O, Altun İ, Çullu N. A frequently overlooked cause of chest pain: Acute aortic intramural hematoma. *Turk Kardiyol Dern Ars.* **2022** Jan;50(1):85.
6. **Altun I**, Altun I. Evaluation of coronary flow with computed tomography derived FFR: Advantages and Pitfalls. *Turk Kardiyol Dern Ars.* **2021** Dec;49(8):675-681. *Review*
7. **Altun I**, Basaran O, Celik O, Altun I, Harmandar B. A bicuspid aortic valv sign in ascending aorta: An acute circumferential type 1 aortic dissection with intimo-intimal intussusception. *Anatol J Cardiol.* **2021**; 25(5): 5021-5021.
8. Cullu N, **Altun I**, Altun I. A rare coronary anomaly: Absence of a right coronary artery. *Anatol J Cardiol.* **2021**; 25(5): 5019-5019.
9. Köse N, Yıldırım T, Akin F, Yıldırım SE, **Altun I**. Prognostic role of NLR, PLR, and LMR in patients with pulmonary embolism. *Bosn J Basic Med Sci.* **2020** May 1;20(2):248-253.
10. Cullu N, Özdemir MY, Özlek E, Yeniçeri Ö, **Altun I**. Fistulization of the right coronary artery to the superior vena cava. *Anatol J Cardiol.* **2020** Apr;23(5):E13.
11. Kose N, Akin F, Yildirim T, Ergun G, **Altun I**. The association between the lymphocyte-to-monocyte ratio and coronary artery disease severity in patients with stable coronary artery disease. *Eur Rev Med Pharmacol Sci.* **2019** Mar;23(6):2570-2575.
12. Derin S, **Altun I**, Koseoglu S, Sahin C, Yilmaz M, Akin F, Sahan M. Association of epicardial fat thickness with clinical and polysomnographic parameters in non-obese obstructive sleep apnoea patients. *J Laryngol Otol.* **2018** May; 132(5):439-445.
13. Golcuk E, Yalin K, Akdeniz CS, Teker E, Teker B, Hancer VS, **Altun I**, Sezer M, Kucukkaya RD, Oncul A. Glycoprotein Iba Kozak polymorphism in patients presenting with early-onset acute coronary syndrome. *Arch Med Sci.* **2018** Jun; 14(4):788-793.
14. Belli AA, Altun I, **Altun I**. Thickness of carotid intima and epicardial fat in rosacea: a cross-sectional study. *An Bras Dermatol.* **2017** Nov-Dec; 92(6):820-825.

15. Belli AA, **Altun I**. Assessment of Framingham risk score and systemic coronary risk evaluation in rosacea patients. *Dermatologica Sinica*. **2017** March; 35(3): 127-130.
16. Oz F, Onur I, Elitok A, Ademoglu E, **Altun I**, Bilge AK, Adalet K. Galectin-3 correlates with arrhythmogenic right ventricular cardiomyopathy and predicts the risk of ventricular -arrhythmias in patients with implantable defibrillators. *Acta Cardiol*. **2017** Aug;72(4):453-459.
17. Biteker M, Başaran Ö, Doğan V, **Altun I**, Özpamuk Karadeniz F, Tekkesin Aİ, Çakıllı Y, Türkkan C, Hamidi M, Demir V, Gürsoy MO, Tek Öztürk M, Aksan G, Seyis S, Ballı M, Alıcı MH, Bozyel S. Real-World Clinical Characteristics and Treatment Patterns of Individuals Aged 80 and Older with Nonvalvular Atrial Fibrillation: Results from the ReAl-life Multicenter Survey Evaluating Stroke Study. *J Am Geriatr Soc*. **2017** Aug; 65(8):1684-1690.
18. Çekiç EG, Başaran Ö, Filiz Başaran N, Elmas O, Doğan V, Mert GÖ, Mert KU, **Altun I**, Akin F, Biteker M. Cutaneous microvascular reactivity and aortic elasticity in coronary artery disease: Comparison of the laser Doppler flowmetry and echocardiography. *Microvasc Res*. **2017** Jan; 109:19-25.
19. **Altun I**, Unal Y, Basaran O, Akin F, Emir GK, Kutlu G, Biteker M. Increased Epicardial Fat Thickness Correlates with Aortic Stiffness and N-Terminal Pro-Brain Natriuretic Peptide Levels in Acute Ischemic Stroke Patients. *Tex Heart Inst J*. **2016** Jun 1; 43(3):220-6.
20. Başaran Ö, Beton O, Doğan V, Tekinalp M, Aykan AÇ, Kalaycıoğlu E, Bolat İ, Taşar O, Şafak Ö, Kalçık M, Yaman M, **Altun I**, Soylu MÖ, Kıрма C, Biteker M; RAMSES Study. ReAl-life Multicenter Survey Evaluating Stroke prevention strategies in non-valvular atrial fibrillation (RAMSES study). *Anatol J Cardiol*. **2016** Oct ;16(10):734-741.
21. Soylu MO, **Altun I**, Basaran O, Uzun Y, Dogan V, Ergun G, Akin F, Biteker M. Impact of QRS morphology on heart rate turbulence and heart rate variability after cardiac resynchronization therapy in patients with heart failure. *Eur Rev Med Pharmacol Sci*. **2016** ;20(2):317-22.
22. **Altun I**, Akin F, Kose N, Sahin C, Kirli I. Predictors of slow flow in angiographically normal coronary arteries. *Int J Clin Exp Med*. **2015** Aug 15 ; 8(8):13762-8.
23. **Altun I**, Pamukcu B, Yildiz CE, Arkaya SC, Guz G, Yilmaz A, Bilge AK, Turkoglu UM, Adalet K. Cardiotrophin-1: A new predictor of atrial fibrillation relapses after successful cardioversion. *Bosn J Basic Med Sci*. **2015** Jul 23 ;15(3):68-73.
24. Basaran O, Filiz Basaran N, Cekic EG, **Altun I**, Dogan V, Mert GO, Mert KU, Akin F, Soylu MO, Memic Sancar K, Biteker M. PRescriptiOn PattERns of Oral Anticoagulants in Nonvalvular Atrial Fibrillation (PROPER study). *Clin Appl Thromb Hemost*. **2017** May ;23(4):384-391.
25. Akin F, Ayca B, Kose N, **Altun I**, Avsar M, Celik O, Satilmis S, Eksik A, Okuyan E. Relation of platelet indices to severity of coronary artery disease in patients undergoing primary percutaneous coronary intervention. *Perfusion*. **2016** Apr; 31(3):216-22.
26. Akin F, Celik O, **Altun I**, Ayca B, Ozturk D, Satilmis S, Ayaz A, Tasbulak O. Relation of red cell distribution width to contrast-induced acute kidney injury in patients undergoing a primary percutaneous coronary intervention. *Coron Artery Dis*. **2015** Jun;26(4):289-95.

27. Akin F, Celik O, Ayca B, **Altun I**, Diker VO, Bıyık I, Siriopol D, Covic A, Kanbay M. Associations of fibroblast growth factor 23 and fetuin-A with coronary plaque burden and plaque composition in young adults. *J Investig Med*. **2015** Apr; 63(4):613-9.
28. Akin F, Celik O, **Altun I**, Ayca B, Diker VO, Satılmış S, Sahin C. Relationship of fibroblast growth factor 23 and fetuin-A to coronary atherosclerosis. *J Diabetes Complications*. **2015** May-Jun; 29(4):550-5.
29. Akin F, Celik O, Ayça B, Yalçın AA, **Altun I**, Köse N. Association of glomerular filtration rate with slow coronary flow in patients with normal to mildly impaired renal function. *Angiology*. **2014** Oct;65(9):844-8.
30. Polat N, Oz F, Baykız D, Cizgici AY, **Altun I**, Buğra Z, Umman B, Tufan F, Oflaz H. Predictors of functional capacity in younger and elderly chronic heart failure patients: an observational study. *Anadolu Kardiyol Derg*. **2013** Dec;13 (8):778-83.
31. Yelken B, Caliskan Y, Gorgulu N, **Altun I**, Yilmaz A, Yazici H, Oflaz H, Yildiz A. Reduction of uric acid levels with allopurinol treatment improves endothelial function in patients with chronic kidney disease. *Clin Nephrol*. **2012** Apr; 77 (4):275-82
32. Demirtürk M, Polat N, Güz G, Gürdal A, **Altun I**, Gelincik A, Toz B, Oflaz H, Çolakoğlu B, Dal M, Büyükköztürk S. There is an increased risk of atherosclerosis in hereditary angioedema. *Int Immunopharmacol*. **2012** Jan;12(1):212-6.
33. Aslanger E, **Altun I**, Guz G, Kiraslan O, Polat N, Golcuk E, Oflaz H. The preoperative cardiology consultation: goal settings and great expectations. *Acta Cardiol*. **2011** Aug; 66(4):447-52.
34. Yildiz CE, Babaoglu K, Korkmaz A, Dursun M, **Altun I**, Mert M, Guden M, Cetin G: Rare variation in partial anomalous venous drainage in 2 cases: diagnosis, assessment methods, and surgical approach. *Heart Surg Forum*. **2010** Dec 1:13(6):E373-5.
35. Ozben B, **Altun I**, Sabri Hancer V, Bilge AK, Tanrikulu AM, Diz-Kucukkaya R, Fak AS, Yilmaz E, Adalet K. Angiotensin-converting enzyme gene polymorphism in arrhythmogenic right ventricular dysplasia: is DD genotype helpful in predicting syncope risk? *J Renin Angiotensin Aldosterone Syst*. **2008** Dec; 9(4):215-20.
36. Tayyareci Y, Nisanci Y, Umman B, Oncul A, Yurdakul S, **Altun I**, Umman S, Bugra Z. Early detection of right ventricular systolic dysfunction by using myocardial acceleration during isovolumic contraction in patients with mitral stenosis. *Eur J Echocardiogr*. **2008** Jul;9(4):516-21.
37. Aslanger E, **Altun I**. Sudden cardiac arrest in a patient taking chloroquine. *Resuscitation*. **2009** Feb; 80 (2):285-6.
38. Aslanger E, **Altun I**, Umman B. Sudden cardiac arrest in a patient with an anomalous left main coronary artery originating from the pulmonary artery. *Acta Cardiol*. **2009** Dec;64 (6): 835-7.
39. Guz G, **Altun I**, Karaayvaz B, Akin F, Kocaaga M, Atesal S. An aortic dissection treated with left main coronary artery stent implantation. *Postepy Kardiol Interwencyjne* **2014**;10,(4):314–316.
40. Dogan V, Basaran O, **Altun I**, Biteker M. Transesophageal echocardiography guidance is essential in the management of prosthetic valve thrombosis. *Int J Cardiol*. **2014** Oct 5;177 (3):1103-1104.

41. **Altun I**, Akin F, Basaran O, Biteker M. Management of peripartum cardiomyopathy. Int J Cardiol. **2014** Oct 13;177(2):714
42. **Altun I**, Akın F, Biteker M. Peripartum cardiomyopathy and triplet pregnancy. Anadolu Kardiyol Derg. **2015** Jan;15 (1):85-6.
43. Kalemci S, **Altun I**, Sancar KM, Biteker M. Effect of COPD on cognitive functions in patients with heart failure. Heart Lung. **2015** May-Jun;44(3):264.
44. Kalemci S, **Altun I**, Akin F, Biteker M. Obstructive sleep apnea and stroke risk in atrial fibrillation: Is there a correlation or not? Int J Cardiol. **2015** Apr 1;184:306.
45. **Altun I**, Akin F, Biteker M. The Role of Epicardial Fat Thickness and Neutrophil-to-Lymphocyte Ratio Are Needed to Be Studied in Real-World Stroke Patients. J Stroke Cerebrovasc Dis. **2015** May;24(5):1100.
46. Biteker M, Biteker G, **Altun I**, Başaran Ö, Soylu MÖ. Late recovery in peripartum cardiomyopathy. Int J Cardiol. **2015** Mar 27;187:316.
47. Yıldırım B, Başaran Ö, Soylu MÖ, **Altun I**, Biteker M. Inadequately investigated drugs in acute peripartum cardiomyopathy. Int J Cardiol. **2015** Apr 15;189:198.
48. Kırat T, Köse N, **Altun I**, Akın F. Hyperkalemia induced sinoatrial block or atrial fibrillation? Int J Cardiol. **2015** Apr 16;190:102.
49. Guz G, **Altun I**, Kocaaga M, Emet S, Atesal S. Unexpected reason for a persistent cough: carotid artery pseudoaneurysm with arteriovenous fistula. Euro Intervention. **2015** Aug 22;11(4):e1

***Proceedings of Meetings in International Congress:***

1. Tayyareci Y, Buğra Z, Umman B, **Altun I**, Yurdakul S, Nişancı Y, Meriç M. Validity of the right ventricular isovolumic myocardial acceleration to assess the severity of rheumatic mitral stenosis. Euroecho 10 Congress, December 06-09 **2006**, Prague, Czech Republic.
2. Yelken B, Caliskan Y, Gorgulu N, **Altun I**, Yılmaz A, Yazıcı H, Oflaz H, Yıldız A. Reduction of uric acid levels with allopurinol treatment improves endothelial function in patients with chronic renal failure. XLVII ERA-EDTA Congress - II DGfN Congress, June 25-28 **2010**, Munich, Germany.
3. **Altun I**, Bilge Kaya A, Güz G, Altun İ, Yılmaz A, Yıldız Eray C, Polat N, Yılmaz E, Adalet K. Place of Cardiotrophin-1 in prediction of sinus rhythm in patients with persistent atrial fibrillation, ESC Congress, August 27-31 **2011**, Paris, France.
4. Demirturk M, Polat N, Güz G, Gürdal A, **Altun I**, Gelincik A, Toz B, Oflaz H, Çolakoğlu B, Dal M, Büyükoztürk S. Is there an increased risk of atherosclerosis in hereditary angioedema? 30th Congress of European Academy of Allergy and Clinical Immunology, June 11-15 **2011**, İstanbul, Turkey.
5. Çalışkan Y, Beşiroğlu M, Yazıcı H, **Altun I**, Gürdal A, Ecdar T, Türkmen A, Sever M. Endothelial dysfunction in renal transplant recipients with functioning arteriovenous fistula. ASN Kidney Week, November 08-13 **2011**, Philadelphia, USA.

6. **Altun I**, Güz G, Polat N, Önür İ, Oflaz H, Bilge Kaya A, Yılmaz E, Adalet K. A heart transplant depending on arrhythmia storm. 3rd World Heart Failure Congress, 29 November- 02 December **2012**, İstanbul, Turkey
7. Akin F, **Altun I**, Kose N. Two cases of an unoperated adult patient with single ventricle. 10th International Congress Of Update in Cardiology and Cardiovascular Surgery, March 13-16 **2014**, Antalya, Turkey
8. Köse N, Akin F, **Altun I**, Harmandar B. Brachial artery pseudoaneurysm after percutaneous coronary angiography: A case report. 10th International Congress Of Update in Cardiology and Cardiovascular Surgery, March 13-16 **2014**, Antalya, Turkey
9. **Altun I**, Kose N, Beydilli H, Akin F, Guz G, Polat N, et al. Unusual history of a patient with subsequent giant left ventricular aneurisms. 10th International Congress Of Update in Cardiology and Cardiovascular Surgery, March 13-16 **2014**, Antalya, Turkey
10. Kose N, Akin F, **Altun I**, Harmandar B. Iatrogenic bilateral femoral arteriovenous fistula: A case report. 10th International Congress Of Update in Cardiology and Cardiovascular Surgery, March 13-16 **2014**, Antalya, Turkey
11. **Altun I**, Kose N, Beydilli H, Akin F, Guz G, Polat N, et al. Hard Case; Congenitally corrected transposition of The great arteries. 10th International Congress Of Update in Cardiology and Cardiovascular Surgery, March 13-16 **2014**, Antalya, Turkey
12. Basaran O, **Altun I**, Sozen H, Akin F, Caylak S, Dogan V, Sahin C. Psychogenic polydipsia precipitated acute hyponatremia complicated by aspiration pneumonia and infective endocarditis. The 6th Eurasia Congress of Infectious Diseases. 24-27 September **2014**, Belgrad, Serbia.
13. F. Akin, C. Omer, **Altun I**, B. Ayca. Associations of Fibroblast Growth Factor 23 and Fetuin-A with coronary plaque Burden and Plaque Composition in patients with and without diabetes. 83th European Atherosclerosis Society Congress, 22-25 March **2015**, Glasgow, United Kingdom.
14. F. Akin, C. Omer, B. Ayca, **Altun I**, V. Diker, M. Kanbay, A. Covic. Associations of Fibroblast Growth Factor 23 and Fetuin-A with coronary plaque Burden and Plaque Composition in young Adults. 83th European Atherosclerosis Society Congress, 22-25 March **2015**, Glasgow, United Kingdom.