

CURRICULUM VITAE

PART 1:

General Information

1st July 2018

Name:

John Joseph Carey

Office Address:

Rheumatology Department, Galway University Hospitals,
Merlin Park, Galway, Ireland.

Academic Address:

Room 1007, Clinical Sciences Institute, Newcastle,
National University of Ireland, Galway, Ireland.

Current Position:

Consultant Physician, Rheumatology & Internal Medicine,
Galway University Hospitals, Galway, Ireland.
Appointed: 6th August 2007.

Personal Professor in Medicine, National University of
Ireland, Galway, Ireland. Appointed: November 2015.

Immediate Past-President, International Society for Clinical
Densitometry, www.iscd.org

Member, Committee for Scientific Affairs, International
Osteoporosis Foundation, www.osteofound.org

Education:

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| 1987-1993 | M.B. B.Ch. B.A.O. | Undergraduate/Medical School, University
College Dublin, Earlsfort Terrace, Dublin, Ireland. |
| 09/2003 –
02/2004 | Graduate Student | “Epidemiology and Biostatistics” program.
Cleveland Clinic Foundation, Professional
Development Program. Dr. Peter Imrey, Ph.D. |
| 07/2004 -
08/2006 | M.S. | Clinical Research Scholars Program, Case Western
Reserve University, Cleveland, OH 44106.
(Degree awarded 11 th August 2006)
Professor Regis E. McFadden, M.D. |

2005-7/07

Professional Development seminars on teaching methods at Cleveland Clinic, Cleveland, Ohio, 44120, U.S.A. Dr. Christine Taylor, Ph.D.

Activities of Current Position:

- Supervise running of the rheumatology inpatient outpatient services
- Lead trainer for house-staff and Rheumatology Specialist Registrars (Fellows)
- 6-week inpatient medicine & rheumatology service every 24 weeks
- Lead Clinician for the hospital's DXA and Fracture Liaison services
- Rheumatology Academic lead for N.U.I.G./SAOLTA Hospital Group
- Established, and lead clinician for the weekly Rheumatology Journal Club
- Established the Rheumatology Radiology Conference with Dr. Diane Bergin
- Member of Royal College of Physicians of Ireland Specialty training committee for Rheumatology Specialist registrars
- Established, and lead for GU Fellows Journal Club Programme
- Member of the organizing committee for the Irish Osteoporosis Society Annual meeting
- Immediate Past-President International Society for Clinical Densitometry
- Chair of I.S.C.D. Local Organising Committee for DXA Courses in Ireland
- Supervisor Rheumatology Research Registrar posts since 2009
- Rheumatology Lead, Clinical Research Facility, NUIG, Galway
- Established and modified the Rheumatology electronic medical record
- Establishing nurse-led remote monitoring of rheumatology arthritis patients, GUH
- Reviewer for several peer-reviewed medical journals
- Member of Trans-Atlantic Cardiovascular Risk Calculator for Rheumatoid Arthritis group (ATACC-RA)
- Member, Scientific Advisory Committee, International Osteoporosis Foundation
- Faculty for all ISCD courses: Osteoporosis Essentials, Vertebral Fracture Recognition, Body Composition Analysis and Paediatric Course.
- First ISCD Faculty to teach all 5 ISCD Courses

Postdoctoral Training:

1993-94	Internship	Medicine and Surgery, St Vincent’s University Hospital, Dublin, Ireland.
1994-95	Internship	Internal Medicine, Newton-Wellesley Hospital, Newton, MA 02162, U.S.A.
1995-1997	Resident	Internal Medicine, Boston University Medical Center, (Boston City Hospital, University Hospital, Boston V.A. Hospital, Brockton Hospital) Boston, MA 02118, U.S.A.
1997-98	Clinical Fellow	Rheumatology, Boston University Medical Center, Boston, MA 02118, U.S.A.
1/7/2003 - 1/10/2004	Fellow	Rheumatology, A50, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195, U.S.A.
1/10/2004 – 1/10/2006	Clinical Associate	Rheumatology and Metabolic Bone Disease, A50, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195, U.S.A.
5/7/2004 – 11/08/2006	Clinical Research	Clinical Research Scholars Program, Case Western Reserve University, Cleveland, OH 44106. (M.S. Degree awarded 11 th August 2006) Professor Regis E. McFadden, M.D.

Degrees, Certification & Licensure:

1993	Registered Medical Practitioner, Ireland. #:17528.
1993	United States Medical Licensing Examination, part 1 and 2.
1995	American Heart Association Certification in Basic and Advanced Cardiac Life Support (renewed 2001).
1995	United States Medical Licensing Examination, part III, #:0-506-897-8.
1996	Medical license, Commonwealth of Massachusetts, #:151987.
1997	Diplomat, American Boards in Internal Medicine, #:175822.
1998	Licensed in Medicine and Rheumatology, Commonwealth of Massachusetts, #:151987.
2000	Certified Clinical Densitometrist (C.C.D.), The International Society For Clinical Densitometry (I.S.C.D.), Boston, MA, USA.
2004	Medical License, State of Ohio, #: 35.085085
2005	Diplomat, American Boards in Rheumatology, #:175822.
2009	Registered Medical Practitioner in specialty of Internal (General) Medicine, Ireland
2009	Registered Medical Practitioner in specialty of Rheumatology, Ireland.

Prior Appointments / Work Experience:

- 1993 Internship in Surgery, St Vincent's Hospital, Dublin, Ireland.
Mrs. Brian Hurson, Kieran O'Rourke, William Quinlan & Eamon Kelly
Orthopedic Surgery. Phone: 01-2694533.
Professor Niall O'Higgins, General and Thyroid Surgery and National
Breast Cancer Unit. Phone: 01-2694533.
- 1994 Internship in Medicine, St. Vincent's Hospital, Dublin, Ireland.
Professor Diarmuid O'Donoghue & Dr. John Hegarty Gastroenterology
and National Liver Transplant Unit.
Gastroenterology and Liver Unit, St. Vincent's University Hospital, Elm
Park, Dublin 4. Phone: 01-2694533. Ext 4711/4416. Fax: 01-2697949.=
Professor Muiris X. Fitzgerald, Pulmonary Medicine and National Cystic
Fibrosis Unit. Phone: 01-2694947.
- 1994-1995 Internship in Internal Medicine, Newton - Wellesley Hospital, Tufts
University, Boston, Massachusetts, U.S.A.
Professor John Harrington and Dr. Henry Yager.
Department of Medicine, Newton-Wellesley Hospital, 2014 Washington
Street, Newton, MA 02462, U.S.A.
Telephone: 001-617-244-6940. Fax: 001-617-243-6701
- 1996-1997 Junior/Senior Resident in Internal Medicine, Boston University
Medical Center, (Boston City Hospital, University Hospital, Boston
V.A. Hospital, Brockton Hospital) Boston, MA 02118, U.S.A.
Dr. Thomas Barber.
- 7/97-6/98 Clinical Fellow in Rheumatology, Boston University Medical Center,
MA 02118, U.S.A. Professor Joseph Korn (RIP).
Professor R. Simms.
Dr. T. McAlindon, MD, MPH.
- 07/98-06/03 Staff Physician in Internal Medicine and Rheumatology, Emerald
Physicians, Hyannis, Massachusetts, U.S.A. Partner: Dr. Cormac Coyle.
Phone: 001-508-778-4777. Fax: 001-508-771-9555.
- 07/98-06/03 Staff Physician in Internal Medicine, Cape Cod Hospital, 27 Park Street
Hyannis, MA 02601 U.S.A. Ms. Gail Negron.
Phone: 001- 508-862-5357 (office). 001-508-862-7316 (FAX)
gnegron@capecodhealth.org
- 2002 – 2003 Consultant Physician in Adolescent Medicine, Cape Cod Healthcare,
Hyannis, MA, U.S.A.

- 7/03-10/04 Fellow in Rheumatology, A50, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195, U.S.A. Professor Gary S.Hoffman.
- 10/2004 Clinical Associate in Rheumatology, Cleveland Clinic Foundation, Cleveland, Ohio, U.S.A. Professor Gary Hoffman.
- 10/06-6/07 Associate Staff in Rheumatology, Cleveland Clinic Foundation, Cleveland, Ohio, U.S.A. Professor Gary Hoffman.
- 10/06-6/07 Assistant Professor Cleveland Clinic Lerner College of Medicine/C.W.R.U. Cleveland, Ohio, U.S.A.
- 10/06-6/07 Staff Physician, The Center for Osteoporosis and Metabolic Bone Disease, Cleveland Clinic Foundation, Cleveland, Ohio, U.S.A.
- 10/04-6/07 Director of Rheumatology for Internal Medicine & Podiatry Residents, Cleveland Clinic Foundation, Cleveland, Ohio, U.S.A.
- 10/06-6/07 Associate Rheumatology Fellowship Program Director, Cleveland Clinic Foundation, Cleveland, Ohio, U.S.A.

Other Education/Courses

- 2006 Vertebral Fracture Assessment (VFA) Course, The International Society For Clinical Densitometry (I.S.C.D.), Cleveland Ohio, USA.
- 2010 Paediatric Bone Densitometry Course, The International Society For Clinical Densitometry, San Antonio, Texas, USA
- 2011 Body Composition Course, The International Society For Clinical Densitometry, Miami, Florida, USA
- 2012 Interviewer Skills Course, Royal College of Physicians, Dublin, Ireland.
- 2013 Project ECHO Immersion Training, Albuquerque, New Mexico, USA

Professional Society Involvement:

- 1994 - Massachusetts Medical Society
- 1997 - American College of Rheumatology
- 2000 - International Society for Clinical Densitometry
- 2002 - American Society of Bone and Mineral Research.
- 2003 - The Arthritis Foundation
- 2005 - Irish Society for Rheumatology
- 2013 - International Osteoporosis Foundation

Achievements/Awards:

- 2000 Voted number 1 Doctor in patient poll, Cape Cod, Massachusetts.
- 2001 Voted number 1 Doctor's office for Cape Cod, Massachusetts.
- 2002 Voted number 1 Doctor's office for Cape Cod, Massachusetts.
- 2005 Awarded best Cleveland Clinic Foundation cluster group: Bone Deficiency Working Group.
- 2005 HON Code Approval: International Society For Clinical Densitometry (member of I.S.C.D. web committee)
- 2006 Webby Distinction Award: I.S.C.D. Web Site (member of I.S.C.D. web committee)
- 2007 Young Investigator Award, I.S.C.D. Annual Meeting, Tampa, Florida, USA.
- 2011 Fellow Member, Royal College of Physicians, Ireland.
- 2013 Winner Irish Health Care Awards for best use of IT
- 2014 Winner Health Innovation Hub Award, Cork, Ireland
- 2016 Winner H.S.E., Ireland Best Open Access Research Publication
- 2017 Invited Key Faculty as President of ISCD to the Asian Federation of Osteoporosis Societies, Kuala Lumpur, Malaysia
- 2017 Teaching Faculty for VFR, Body Comp and Paediatric Courses, KL, Malaysia
- 2017 Teaching Faculty for OE, VFR, Body Comp and Paediatric Courses, Manilla, Phillipines

PART 2: Research

Report of Research Activities:

My research expertise is in patient-oriented clinical research focusing on imaging and outcomes research. I have completed several training programmes, including a Master's degree in Clinical Research (Thesis on file at Case Western Reserve University, Cleveland, Ohio, USA), obtaining an A grade in all graded courses except CRSP 406 (B grade):

- CRSP 401 Introduction to Clinical Research
- CRSP 402 Epidemiology
- CRSP 403 Biostatistics
- CRSP 404 Seminar Series
- CRSP 406 Introduction to SAS programming
- CRSP 407 Logistic Regression and Survival Analysis
- CRSP 500 Observational Studies
- CRSP 515 Large Database Management and Analysis
- EPBI 460 Health Services Research Methods I
- IBMS 500 Being a Professional Scientist
- CRSP 651 Thesis Project

In addition, I have participated as a sub-investigator in several clinical trials: vasculitis (RAVE-ITN group), rheumatoid arthritis, juvenile idiopathic arthritis and osteoporosis.

Abilities:

- Study Design and Implementation.
- Data collection and Analysis
- Implementation of standardized assessment and data collection in Clinical Practice and Research.
- Cleaning and analysis of large databases.
- Able to work effectively with the following statistical software programs:
 1. SAS version 9.1, SAS Institute, North Carolina, U.S.A.
 2. S-plus, version 7.0 ,Insightful INC. Lucent technologies, U.S.A.
 3. MedCalc Software, version. 8.2.1.0. 9030 Mariakerke, Belgium.

I have worked with and helped integrate patient records from a completely paper system to a seamless paperless system, that not only improves efficiency, resource utilization, quality of care and patient satisfaction, but also captures information in a standardized systematic electronic template that can be stored and used for audit and research.

I am familiar with the following Electronic patient information Systems:

- Vista A, Veterans Administration Hospital, Jamaica Plain, MA, USA.
- American Medical Softwares, β-test centre, St. Louis, MI, USA
- Epicare, Cleveland Clinic, Ohio, USA.
- Cellma, Riomed.org, Hampshire, UK.

Current Research Projects:

1. Langan M, Armstrong C, Heaney F, Carey JJ. The SPOOF (Secondary Prevention Of Osteoporotic Fractures) and HOOFF (Hospital Outcomes following Osteoporotic Fracture) Projects. Working with Fracture liaison service to promote evaluation and treatment of osteoporosis among persons aged 50 years and older presenting to the orthopaedic fracture clinics.
2. Carey JJ et al. Establishment of a West of Ireland DXA database – in progress.
3. Novel predictors of cardiovascular disease in Rheumatoid Arthritis –ATACCRA consortium
4. Tocilizumab in Giant Cell Arteritis and undifferentiated inflammatory disorders
5. Epidemiology, outcomes and economic consequences of Arthritis in Ireland (in progress; lead/PI: Prof. Brian McGuire, Dept. of Psychology, N.U.I.G., Galway)
6. Observational study of arthritis patients switched to biosimilar medications.
7. Diabetic Bone Disease: Of mice and men Prof T. O'Brien, Dr. Cynthia Coleman, Prof. John J. Carey, Prof. Laoise McNamara, Mr. John McCabe, Mr. Stephen Kearns, Dr. Miriam F. Delaney, Mr. Colin Murphy.
8. Cost-effectiveness of Fracture Liaison Programmes for Ireland
9. Epidemiology of osteoporotic fractures in Ireland
10. Meta-analysis of infections risk with methotrexate

Publications:**Original Research (Pubmed Citations: >100)**

1. **Carey J**, Spence L, Blickman H, Eustace S. *MRI of pediatric growth plate injury: correlation with plain film radiographs and clinical outcome.* Skeletal Radiol. 1998 May;27(5): 250-5.
2. Eustace S, Tello R, DeCarvalho V, **Carey J**. *Whole body turbo STIR MRI in unknown primary tumor detection.* J Magn Reson Imaging. 1998 May-Jun; 8(3): 751-3.
3. Eustace S, Tello R, DeCarvalho V, **Carey J**. *A comparison of whole-body turboSTIR MR imaging and planar 99mTc-methylene diphosphonate scintigraphy in the examination of patients with suspected skeletal metastases.* AJR Am J Roentgenol. 1997 Dec;169(6): 1655-61.
4. Wadhvani A, **Carey J**, Propeck T. *Isolated scaphotrapezoid osteoarthritis: a possible radiographic marker of chronic scapholunate ligament disruption.* Clin Radiol. 1998 May; 53(5): 376-8.
5. Adams JG, McAlindon T, Dimasi M, **Carey J**, Eustace S. *Contribution of meniscal extrusion and cartilage loss to joint space narrowing in osteoarthritis.* Clin Radiol. 1999 Aug; 54(8):502-6.
6. Sikon AL, Thacker HL, **Carey JJ**, Deal CL, Licata AA. *Secondary Osteoporosis: Are We Recognizing It?* J Women's Health. 2006 Dec; 15(10): 1174-83.
7. **Carey JJ**, Delaney, MF, Love TE, Richmond BJ, Cromer BA, Miller PD, Manilla-McIntosh M, Lewis SA, Thomas CL, Licata AA. *DXA-generated Z-scores and T-scores may differ substantially and significantly in Young Adults.* J Clin Densitom. 2007;10(4):351-8.
8. Villa-Forte A, Clark TM, Gomes M, **Carey J**, Mascha E, Karafa MT, Arrigain S, Roberson G, Langford CA, Hoffman GS. *Substitution of methotrexate for cyclophosphamide in Wegener granulomatosis: a 12 year single-practice experience.* Medicine (Baltimore) 2007; 86(5):269-77.
9. **Carey JJ**, Delaney MF, Love TE, Richmond BJ, Cromer BA, Miller PD, Manilla-McIntosh M, Lewis SA, Thomas CL, Licata AA. *Dual-Energy X-Ray Absorptiometry Diagnostic Discordance Between Z-Scores and T-Scores in Young Adults.* J Clin Densitom. 2009; 12(1):11-16.
10. McGonagle D, Tan AL, **Carey J**, Benjamin M. *The Anatomical Basis for a novel classification of osteoarthritis and allied disorders.* J Anat. 2010;216(3):279-91.
11. Palomo L, Buencamino-Francisco MC, **Carey JJ**, Sivanandy M, Thacker H. *Is Long-term bisphosphonate therapy associated with benefits to the periodontium in postmenopausal women?* Menopause. 2011;18(2):164-70.
12. Dinizulu T, Griffin D, **Carey J**, Mulkerrin E. *Vitamin D supplementation versus combined calcium and vitamin D in older female patients – An observational study.* J Nutr Health Aging. 2011; 15(8):605-8.
13. Mohammad A, **Carey JJ**, Storan E, Scarry M, Coughlan RJ, Lee JM. *Prevalence of fibromyalgia among patients with chronic hepatitis C infection: relationship to viral characteristics and quality of life.* J Clin Gastroenterol 2012; 46(5):407-12.

14. Conway R, Bergin D, **Carey JJ**, Coughlan RJ. *Tibial insufficiency fractures in rheumatoid arthritis: a new clinical sign.* J Rheumatol. 2012; 39(9):1893-4.
15. Conway R, Coughlan RJ, **Carey JJ**. *Adherence to uric acid treatment guidelines in a rheumatology clinic.* Clin Rheumatol. 2012; 31(12):1707-11.
16. Mohammad A, **Carey JJ** Storan E, Scarry M, Coughlan RJ, Lee JM. *High Prevalence of Fibromyalgia in Patients with HFE related Hereditary Hemochromatosis 2012.* J Clin Gastroenterol. 2013; 47(6):559-64.
17. Mohammad A, Lohan D, Bergin D, Mooney S, Newell J, O'Donnell M, Coughlan RJ, **Carey JJ**. *The Prevalence of Aortic Calcification on Vertebral Fracture Assessment (VFA) Imaging among Patients with Rheumatoid Arthritis.* J Clin Densitom. 2014 Jan-Mar;17(1):72-7.
18. A Mohammad, D Lohan, D Bergin, S Mooney, J Newell, M O' Donnell, RJ Coughlan, and **JJ Carey**. *The Prevalence of Vertebral Fractures on Vertebral Fracture Assessment (VFA) Imaging in a Large Cohort of Patients with Rheumatoid Arthritis.* Rheumatology (Oxford). 2014 May;53(5):821-7.
19. A Mohammad, D Lohan, D Bergin, S Mooney, J Newell, M O' Donnell, RJ Coughlan, and **JJ Carey**. *Vertebral Fracture Assessment-detected Abdominal Aortic Calcification Enhances Cardiovascular Disease Risk Stratification of Rheumatoid Arthritis Patients.* Semin Arthritis Rheum. 2014 Apr;43(5):632-7.
20. A Mohammad, S Mooney, RJ Coughlan, and **JJ Carey**. *Appropriateness of Referrals to a Tertiary Referral Centre for Bone Mineral Density Testing.* Irish Journal of Medical Science DOI: 10.1007/s11845-013-1044-5.
21. Conway R, Low C, Coughlan RJ, O'Donnell MJ, **Carey JJ**. *Methotrexate and lung disease in rheumatoid arthritis: a meta-analysis of randomized controlled trials.* Arthritis Rheumatol. 2014 Apr;66(4):803-12.
22. Conway R, Low C, Coughlan RJ, O'Donnell MJ, **Carey JJ**. *Expanding Access to Rheumatology Care; The Rheumatology General Practice Toolbox.* Ir Med J. 2015 Feb;108(2):48-50.
23. Reid C, Conway R, O'Neill L, Usman A, Coughlan RJ, **Carey JJ**. *Rheumatologists Need Better Education on Clinical Features and Management of Psoriasis: Results of a Survey of Clinical Rheumatologists.* Revista Latinoamericana de Psoriasis y Artritis Psoriásica 2014;11:7-14.
24. Conway R, Low C, Coughlan RJ, O'Donnell MJ, **Carey JJ**. *Methotrexate use and risk of lung disease in psoriasis, psoriatic arthritis, and inflammatory bowel disease: systematic literature review and meta-analysis of randomised controlled trials.* BMJ. 2015 Mar 13;350:h1269. doi: 10.1136/bmj.h1269.
25. Conway R, Low C, Coughlan RJ, O'Donnell MJ, **Carey JJ**. *Risk of liver injury among methotrexate users: A meta-analysis of randomised controlled trials.* Semin Arthritis Rheum. 2015 Oct;45(2):156-62.
26. Conway R, Low C, Coughlan RJ, O'Donnell MJ, **Carey JJ**. *Leflunomide Use and Risk of Lung Disease in Rheumatoid Arthritis: A Systematic Literature Review and Meta-Analysis of Randomised Controlled Trials.* J Rheumatol. 2016 Mar 15. pii: jrheum.150674. [Epub ahead of print]
27. Lewiecki EM, Binkley N, Morgan SL, Shuhart CR, Camargos BM, **Carey JJ**, Gordon CM, Jankowski LG, Lee JK, Leslie WD; International Society for Clinical Densitometry. *Best Practices for Dual-Energy X-ray Absorptiometry*

- Measurement and Reporting: International Society for Clinical Densitometry Guidance.* J Clin Densitom. 2016 Apr;19(2):127-40. doi: 10.1016/j.jocd.2016.03.003. Epub 2016 Mar 22.
28. Fox L, Walsh JC, Morrison TG, O' Gorman D, Ruane N, Mitchell C, **Carey JJ**, Coughlan R, McGuire BE. Cognitive Coping Style and the Effectiveness of Distraction or Sensation-Focused Instructions in Chronic Pain Patients. PLoS One. 2016 Apr 12;11(4):e0142285. doi: 10.1371/journal.pone.0142285. eCollection 2016.
 29. McNicholas BA, Griffin TP, Donnellan S, Ryan L, Garrahy A, Coughlan R, Giblin L, Lappin D, Reddan D, **Carey JJ**, Griffin MD. *ANCA-associated vasculitis: a comparison of cases presenting nephrology and rheumatology services.* QJM. 2016 Dec;109(12):803-809.
 30. Conway R, **Carey JJ.** *Methotrexate and lung disease in rheumatoid arthritis.* Panminerva Med. 2017; 59(1);33-46.
 31. Abdalla A, Byrne NE, Conway R, Walsh T, Mannion G, Hanly M, O'Sullivan M, Curran AM, **Carey JJ.** *Long-term safety and efficacy of Biosimilar Infliximab among patients with inflammatory arthritis switched from reference product.* Open Access Rheumatology 2017; 9:29-35.
 32. **Carey JJ**, Delaney MF. *Utility of DXA for monitoring, technical aspects of DXA BMD measurement and precision testing.* Bone 2017; 104:44-53.
 33. Conway R, **Carey JJ.** *Risk of liver disease in methotrexate treated patients.* World J Hepatol 2017; 18(9):1092-1100.
 34. Conway R, et al. Increased platelet reactivity as measured by plasma glycoprotein VI in gout. Platelets 2017; 1:1-6.
 35. Lewiecki EM, Bilezikian JP, **Carey JJ**, Dell RM, Gordon CM, Harris ST, McClung MR, Miller PD, Rosenblatt M. Proceedings of the 2017 Santa Fe Bone Symposium: Insights and Emerging Concepts in the Management of Osteoporosis. J Clin Densitom 2018; 21:3-21.
 36. Carey JJ, Lewiecki EM, Blank RD, Shuhart CR, Buehring B. Treatment of Low Bone Density or Osteoporosis to Prevent Fractures in Men and Women. Ann Intern Med 2017; 167:901.
 37. Kelly MA, McGowan B, McKenna MJ, Bennett K, Carey JJ, et al. Emerging Trends in hospitalization for fragility fractures in Ireland. Ir J Med Sci 2018. PMID: 29353418.
 38. Goncalves J, et al. Antigenic Response to CT-P13 and infliximab originator in inflammatory bowel disease patients shows similar epitope recognition. Aliment Pharmacol Ther. 2018. PMID: 29873091.

Under Review:

Ibrahim A, Conway R, **Carey JJ.** Risk of Infection with methotrexate use in rheumatic diseases: A systematic review and meta-analysis. Submitted to JAMA.

Singer A, Lewiecki EM, Adler R, Rosen C, Carey JJ et al. Using the ACP Osteoporosis Clinical Practice Guideline Wisely: Joint Society Position Statement. Submitted to Annals of Internal Medicine.

Case Reports:

1. Conway R, Bergin D, Coughlan RJ, **Carey JJ**. *Renal infarction due to spontaneous renal artery dissection in Ehlers-Danlos Syndrome type IV*. J Rheumatol. 2012; 39(1):199-200.
2. Conway R, **Carey JJ**, Coughlan RJ. A case of occupational gout. Ir Med J. 2011; 104(10):316-7.
3. Conway R, Bergin D, **Carey JJ**, Coughlan RJ. *A case of Behcet's Syndrome presenting as focal myositis*. Rheumatology (Oxford). 2012; 51(6):975.
4. English C, Coughlan R, **Carey J**, Bergin D. *Plantar and palmar fibromatosis: characteristic imaging features and role of MRI in clinical management*. Rheumatology (Oxford). 2012; 51(6):1134-6.

Other Peer-reviewed Articles:

Member RAVE ITN Research Group (See "Carey JJ" in pubmed):

Efficacy of remission-induction regimens for ANCA-associated vasculitis. N Engl J Med 2013; 369(5): 417-27.

Rituximab versus cyclophosphamide for ANCA-associated vasculitis. N Engl J Med 2010; 363 (3): 221-32.

1. **Carey John J**. *What is a "failure" of bisphosphonate therapy for osteoporosis?* Cleveland Clinic Journal of Medicine 2005; 72:1033-9.
2. **Carey John J**, Licata AA, Delaney MF. *Biochemical Markers of Bone Turnover*. Clinical Reviews in Bone and Mineral Metabolism, 2006; 4(3): 197-211.
3. **Carey John J**, Palomo LB. *Bisphosphonates and Osteonecrosis of the Jaw: Innocent Association or Significant Risk?* Cleve Clin J Med Dec 2008; 75(12):871-9.
4. Sheehy C, Another, M. Barry M, **Carey JJ**. *Treating Osteoporosis: Do bisphosphonates really increase the risk of osteonecrosis of the Jaw?* Ir Med J. June 2008; 101(6):166-7.
5. **Carey John J**. Delaney Miriam.F. *T-scores and Z-scores*. Clinical Reviews in Bone and Mineral Metabolism: 2010; 8(3): 113-121.
6. **Carey John J**. *Fracture Risk Models in Clinical Practice*. May 1st 2009. Available at: <http://www.iscd.org/visitors/resources/fractureriskmodels.cfm>.
7. Aamir MU, **Carey John J**. *Scleroderma*. Modern Medicine 2010; 40(3): 23-32.
8. Aamir MU, Mannion G, **Carey John J**. *Raynaud's Phenomenon*. Modern Medicine 2010; 40(4): 42-4.

Book Chapters:

1. **Carey J**. Wilke W. *Osteoarthritis*. Cleveland Clinic Disease Management Project. Available at: <http://www.clevelandclinicmeded.com/medicalpubs/diseasemanagement/rheumatology/osteoarthritis/>
2. **Carey JJ**, Delaney MF, Thacker HL. *Osteoporosis*. Chapter 22 in Clinical Reproductive Medicine and Surgery. Falcone and Hurd, Elsevier Publications.
3. Abelson A, **Carey J**, Deal C. *Management of Osteoporosis*. Chapter 190 in

- Rheumatology 4e. Hochberg, Silman, Smolen, Weinblatt & Weisman. Elsevier Publications.
4. **Carey J.** Afridi K, Carey B, Mulkerrin EC. *Bone and Joint Disorders*. In *Medicine in Old Age: A Clinical Approach*. Advanced Medical Publications, London UK, 2009.

Letters:

1. **Carey JJ**, Delaney MF. *FDA approved Bisphosphonates*. JBJS, American Ed. August 2005.
2. Delaney MF, **Carey JJ**. *Hypercalcaemia*. Cleveland Clinic J Medicine 2005; 72:1075.
3. Thompson E, Sheehy C, Barry M, **Carey J**. *Treating Osteoporosis Letter to the editor. Author's Response*. Irish Medical Journal March 2009; 102(3):89.
4. Conway R, **Carey JJ**. *Comment on: Efficacy and safety of various repeat treatment dosing regimens of rituximab in patients with active rheumatoid arthritis: results of a Phase III randomized study (MIRROR)*. Rheumatology (Oxford). 2011; 50(3):631-2.
5. **Carey JJ**, Coughlan RJ, OSullivan M. *When Should a Rheumatologist Suspect a Mitochondrial Myopathy, Comment on: the article by Albert et al*. Arthritis Care Res 2012 Jan 11. doi10.1002/acr.21605.
6. Conway R, Coughlan RJ, Low C, O'Donnell MJ, **Carey JJ**. *Reply to Comment on Meta-analysis of methotrexate and lung disease in rheumatoid arthritis*. Arthritis Rheumatol. 2014 Sep;66(9):2642. doi: 10.1002/art.38732.
7. Conway R, Low C, Coughlan RJ, O'Donnell MJ, **Carey JJ**. *Reply to: methotrexate and not much harm to the lungs by H. Yazici*. Clin Exp Rheumatol. 2014 Nov-Dec;32(6 Suppl 87):S-11. Epub 2014 Sep 10.
8. Carey JJ, Lewiecki EM, Blank RD, Shuhart CR, Buehring B. *Treatment of Low Bone Density or Osteoporosis to Prevent Fractures in Men and Women*. Ann Intern Med 2017; 167:901.

Other Publications:

1. Bone Disease in Wegener's Granulomatosis. Vasculitis Foundation Newsletter. March 2006.
2. Treatment of Bone Loss. Cleveland Clinic Foundation 'Arthritis Adviser. May 2006.
3. **Carey John J**. Thesis for Master's Degree in Science, Clinical Research and Scholar's Programme, Case Western Reserve University, May 2006.
Full copy on file at the University Library.
4. McCausland Joanna. Advisor and Mentor for Ms. McCausland for her Master's thesis, copy on file at National University of Ireland, Cork.
5. Carey JJ. Hospital Medicine (Ireland). *Best Rheumatology Abstracts 2010*.

Hospital Guidelines:

1. McCausland J. Carey John J. Galway University Hospital: Guidelines for the

- management of glucocorticoid-induced osteoporosis, Galway, Ireland.
2. McCausland J. Carey John J. Galway University Hospital Protocol for the administration of Aclasta to osteoporosis patients, Galway, Ireland.
 3. Carey John J. 2009 Hospital Guidelines for DXA service, Galway University Hospitals, Ireland.
 4. Carey John J, Mooney S, Coughlan RJ, Bergin D, Lohan D. 2010 Hospital Guidelines for DXA service, Galway University Hospitals, Ireland.

Revised/Up-dated Following Web pages:

- Osteoarthritis. Cleveland Clinic Website 2005:
<http://www.clevelandclinic.org/arthritis/treat/facts/osteoarthritis.htm>
- Treatment of Osteoarthritis. Cleveland Clinic Website 2005:
<http://www.clevelandclinic.org/arthritis/treat/facts/osteoarthritis%20treatment.htm>
- Patient information page on bone density testing May 2006.
<http://www.iscd.org/Visitors/patient/index.cfm>
- Useful links and resources page for ISCCD website.
<http://www.iscd.org/visitors/resources/index.cfm>
- Clarified changes and missing information to reflect current ISCD positions 2007.
<http://www.iscd.org/visitors/resources/IntroBoneDens.ppt?fromResources=7>

Speaker Summary:

Invited Speaker at Numerous Conferences in Rheumatology and Osteoporosis including Cleveland Clinic 2005, Irish Osteoporosis Society, Annual Meeting of the International Society for Clinical Densitometry, National Rheumatology Symposium of Greece.

I have spoken on behalf of several companies on use of biosimilar medications in rheumatology, endocrinology, gastroenterology and dermatology at numerous venues around the world including Canada, Brazil, USA, Portugal, Spain, Greece and Ireland in the past 4 years.

I was invited to speak at Rheumatology Rounds in several Canadian Major Teaching Hospitals on biosimilar medications or methotrexate toxicity including Vancouver, Toronto General, University of Calgary and London Ontario.

Sponsor: Hospira/Pfizer Canada.

We presented oral abstracts at the World Orthopaedic Nursing Symposium in Hong Kong 2017 and IOF-ESCEO meeting in Italy in 2017 on the results of our Fracture Liaison Programme for Hip fracture outcomes.

Other interests/Awards:

Numerous sporting accolades including:

1. Representing Irish Universities in Rugby Football 1992.
2. Captain St. Vincent's Hospital Rugby Club, 1993.
3. County Tipperary Gaelic Football Championship Titles , 1983, 1985, 1987, 1990, 1992, with Moyle Rovers G.A.A. club.
4. Music: Irish Flute & Whistle.

