# **CURRICULUM VITAE**

# JOHN DILLON CARTER, M.D.

**ADDRESS:** 

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**PRESENT APPOINTMENT:** Founder & Owner

Recovery Rheum, LLC 2919 W Swann Ave

Suite 402

Tampa, FL 33609

September 16, 2024 - present

**BOARD CERTIFICATION:** American Board of Rheumatology, 2001, 2011, 2021

American Board of Internal Medicine, 1999

United States Medical Licensing Examination, Step 3, 1997 United States Medical Licensing Examination, Step 2, 1995 United States Medical Licensing Examination, Step 1, 1994

MEDICAL LICENSURE: Florida, ME 0074849

MILITARY STATUS: none

**EDUCATION:** 

Academic College: University of Texas

Austin, Texas

Bachelor of Business Administration, 1990

Premedical Studies: Saint Louis University

Saint Louis, Missouri, 1990-1991

Also worked full time as an oriental rug salesman, 1990-1992

Medical School: Saint Louis University School of Medicine

Saint Louis, Missouri M.D. Degree, 1996

**TRAINING:** 

Internship: Internal Medicine, University of South Florida

Tampa, Florida

July 1996 – June 1997

Residency: Internal Medicine, University of South Florida

Tampa, Florida

July 1997 – June 1999

Fellowship: Rheumatology, University of South Florida

Tampa, Florida

July 1999 – June 2001

### **FACULTY APPOINTMENTS:**

 Professor of Medicine, Chief, Division of Rheumatology, Director of Innovative Therapies and Clinical Research, Division of Rheumatology, Department of Internal Medicine, University of South Florida Morsani College of Medicine, Tampa, FL, July 2007 – September 13, 2024

- 2. Professor of Medicine, University of South Florida College of Medicine, Department of Internal Medicine, Tampa, Florida, August 9, 2014 – September 13, 2024
- 3. Associate Professor of Medicine, University of South Florida College of Medicine, Department of Internal Medicine, Tampa, Florida, July 1, 2007 August 8, 2014
- 4. Assistant Professor of Medicine, University of South Florida College of Medicine, Department of Internal Medicine, Tampa, Florida, July 2001 June 30, 2007

### **ADMINISTRATIVE APPOINTMENTS:**

Attending Physician, Health Park Rheumatology, Chief of Services, Tampa General Hospital, Tampa, Florida, July 2001 – September 13, 2024 Attending Physician, Rheumatology Section, James A. Haley Veterans Administration Hospital, Tampa, Florida, July 2001 – August 2008

### **HOSPITAL APPOINTMENTS:**

Tampa General Hospital, Tampa, Florida, 2001 – present James A. Haley Veterans Administration Hospital, Tampa, Florida, 2001 – 2008 H. Lee Moffitt Cancer Center & Research Institute, Tampa, Florida, 2001 – 2014

**ORGANIZATIONS:** Resident: American College of Physicians, 1997 - 1999

Member: American College of Rheumatology, 2000 – Present Member: Florida Society of Rheumatology, 2001 - Present

### I. RESEARCH & SCHOLARLY ACTIVITY

### **GRANTS**

# **Investigator Initiated**

1. Regional Grants in Aid (RGIA).

"The Effect of a Low Carbohydrate, High Protein/Fat Diet on Bone Turnover."

Granting Agency: Procter & Gamble (Investigator Initiated Grant)

Awarded August 2004.

Completed May 2006; published 2006.

Amount Awarded: \$17,675.00

**Principal Investigator** 

2 Unrestricted Fellowship Educational Grant.

"Training Fellows to Perform Clinical Research."

Granting Agency: Amgen. Awarded August 2004. Completed December 2004. Amount Awarded: \$2500.00

**Principal Investigator** 

3 Investigator Initiated Grants Initiative.

> "Male Osteoporosis: Recognition & Treatment." Granting Agency: Merck (Investigator Initiated Grant)

Awarded October 2004.

Project completed; manuscript published

Amount Awarded: \$24,835.00

**Principal Investigator** 

4. NIH Exploratory/Developmental Research Grant Award (R21)

> "Combination Antimicrobial Therapy as a Treatment for Chlamydia-Induced Reactive Arthritis." National Institutes of Health (National Institute of Musculoskeletal and Skin Diseases [NIAMS]).

International Multi-Center Trial (4 Study Sites) Assignment Number: 1 R21 AR053646-01

Start Date May 22, 2006 Stop Date May 21, 2008 Status: Target enrollment met Amount Awarded: \$415,031.00

**Principal Investigator** 

5. "A Safety Analysis of Oral Prednisone as a Pre-Treatment for Rituximab in Rheumatoid

Arthritis."

Sponsor: Genentech

Amount: \$501,125.00 (with the potential of \$998,945.00 based on study extension)

Project: November, 2006 – January, 2010

Target Enrollment: 50 patients; 44 subjects enrolled

**Principal Investigator** 

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6. "MRI and Ultrasound Findings in Patients with Gout and Normal Plain Radiographs."

Sponsor: TAP Pharmaceuticals

Amount: \$233,650.00 Status: Study completed **Principal Investigator** 

7. "Shifting the Paradigm of Gout: An Assessment of Chronic Synovial-Based Inflammation and its

Role with Serum Urate Levels."

Sponsor: Takeda Pharmaceuticals

Amount: \$523,372.00

Status: Study completed; manuscripts in press

**Principal Investigator** 

8. "A Retrospective Analysis of the Synovial-Based Inflammation During Inter-Critical Gout Using

Quantitative MRI Analysis."

Sponsor: AstraZeneca Amount: \$59,100.00

Status: Data analysis underway

**Principal Investigator** 

### **Pharmaceutical Sponsored Grants/Contracts**

1. "A Randomized, Placebo-Controlled, Double-Blind, Parallel Group, International Study to Evaluate the Safety and Efficacy of Rituximab (MabThera/Rituxan) in Combination with Methotrexate, Compared to Methotrexate Monotherapy, in Patients with Active Rheumatoid Arthritis."

Sponsor: Genentech; Grant: A673Z0; Protocol WA17045-U2973g; Jan 2006 – Sept 2006 **Principal Investigator** 

2. "A Phase III, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study of Retreatment with Rituximab in Subjects with Rheumatoid Arthritis Receiving Background Methotrexate."

Sponsor: Genentech; Grant: A673AE; Protocol U3384g; February 2006 – September 2006

### **Principal Investigator**

3. "A Randomized, Double-blind, Placebo-Controlled Multiple Dose Study to Evaluate the Efficacy, Safety and Pharmacokinetics of Subcutaneous AMG 108 in Subjects With Rheumatoid Arthritis"

Sponsor: Amgen; Grant: 20050168; April 2007 – 2009

### **Principal Investigator**

4. "A randomized, double-blind, parallel group, international study to evaluate the safety and efficacy of ocrelizumab compared to placebo in patients with active rheumatoid arthritis continuing methotrexate treatment."

Sponsor: Genentech; Grant: WA20494/ACT3985g; January 2007 – 2010

# **Principal Investigator**

5. "A randomized, double-blind, parallel group, international study to evaluate the safety and efficacy of ocrelizumab compared to placebo in patients with active rheumatoid arthritis who have an inadequate response to at least one anti-TNF-α therapy."

Sponsor: Genentech; Grant: ACT3986g/WA20495; January 2007 - 2010

### **Principal Investigator**

6. "A Randomized, Double-Blind, Parallel Group, International Study to Evaluate the Safety and Efficacy of Ocrelizumab in Combination With Methotrexate (MTX)

Compared to MTX Alone in Methotrexate- Naive Patients With Active Rheumatoid Arthritis." Sponsor: Genentech; Grant: ACT3984g; March 2007 - 2010

#### **Principal Investigator**

7. "A Phase IIIb, multicenter study with a 12-week double-blind, placebo-controlled randomized period followed by an open-label, extension phase to evaluate the safety and efficacy of certolizumab pegol administered to patients with active rheumatoid arthritis."

Sponsor: UCB; Grant C87094: June 2008 - 2010

### **Principal Investigator**

8. "A Phase III Randomized, Double-Blind, Parallel-Group Study to Evaluate the Efficacy and Safety of Ocrelizumab in Combination with Methotrexate Compared With Infliximab Plus Methotrexate in Patients With Active Rheumatoid Arthritis Currently Responding Inadequately to Etanercept or Adalimumab."

Sponsor: Genentech; Grant ACT4562g; Dec 2008 – Jan 2010

### **Principal Investigator**

9. "A Multi-Center, Randomized, Double-Blind, Active-Controlled Study of the Safety and Efficacy of Rilonacept Administered Subcutaneously for the Treatment of an Acute Gout Flare."

Sponsor: Regeneron Pharmaceuticals; IL1T-GA-0814; March 2009 - 2010

### **Principal Investigator**

10. "A Multi-Center, Randomized, Double-Blind, Placebo Controlled Trial of the Safety of Rilonacept for the Prophylaxis of Gout Flares in Patients on Urate Lowering Therapy"

Sponsor: Regeneron Pharmaceuticals; IL1T-GA-0815; March 2009 - 2010

### **Principal Investigator**

11. "A Golimumab Phase 3b, Multicenter, Switch Assessment of Subcutaneous and Intravenous Efficacy in Rheumatoid Arthritis Patients Who Have Inadequate Disease Control Despite Treatment with Etanercept (ENBREL®) or Adalimumab (HUMIRA®)"

Sponsor: Centocor; CNTO148ART3002; Jan 2010- 2015

### **Principal Investigator**

12. "A 12-week, double-blind, randomized, parallel-group, placebo-controlled study of 4 doses of VX-509 in subjects with active rheumatoid arthritis."

Sponsor: Vertex Pharmaceuticals; Vx 509-09-101; June 2010 – 2014

### **Principal Investigator**

13. "A Phase III, Multi-Center, Randomised, Double-Blind, Placebo-Controlled, Parallel Group Study of Two Dosing Regimens of Fostamatinib Disodium in Rheumatoid Arthritis Patients with and inadequate Response to Methotrexate."

Sponsor: Astra Zeneca; OSKIRA-1; Aug 2010 – 2013

### **Principal Investigator**

14. "A Phase III, Multi-Center, Randomized, Double-Blind, Placebo- Controlled, Parallel Group Study of Two Dosing Regimens of Fostamatinib Disodium in Rheumatoid Arthritis Patients with and inadequate Response to a TNF-alpha antagonist."

Sponsor: Astra Zeneca; OSKIRA-2; Aug 2010 – 2013

### **Principal Investigator**

15. "A Phase 3, multicenter, randomized, double-blind, placebo-controlled, parallel-group, efficacy and safety study of two doses of apremilast (CC-10004) in subjects with active psoriatic arthritis."

Sponsor: Celgene; CC-10004-PSA-003: Sept 2010 – 2017

## **Principal Investigator**

John Dillon Carter, M.D.

"A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the 16. Efficacy and Safety of Subcutaneous LY2127399 in Patients with Systemic Lupus Erythematosus (SLE)."

Sponsor: Eli Lilly and Company, H9B-MC-BCDS: Jan 2011-2015

#### **Principal Investigator**

17. "A Phase 3, Multicenter, Open-Label, Extension Study To Assess the Safety and Tolerability of Epratuzumab Treatment in Systemic Lupus Erythematosis Subjects (EMBODY 4)."

Sponsor: UCB Inc, #SL0012: Jan 2011 – 2014.

### **Principal Investigator**

18. "A multi-center, open-label, single-arm study to evaluate the safety of administering rituximab at a more rapid infusion rate in patients with rheumatoid arthritis."

Sponsor: Genentech, Inc; ML25641: Jan 2012 – 2016.

### **Principal Investigator**

19. "A randomized, double-blind, placebo-controlled study of secukinumab to demonstrate the efficacy at 24 weeks and to assess the safety, tolerability and long-term efficacy up to 2 years in patients with active rheumatoid arthritis who have and inadequate response to anti-TNF agents."

Sponsor: Novartis, AIN457F: Feb 2012 – 2018.

### **Principal Investigator**

20. "A randomized, controlled study of sarilumab and methotrexate (MTX) versus etanercept and MTX in patients with rheumatoid arthritis (RA) and an inadequate response to 4 months of treatment with adalimumab and MTX."

UCB Pharmaceuticals; EFC11574

Dates: 2013 – 2018

# **Principal Investigator**

21. "A PHASE 3B, MULTICENTER, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, PARALLEL-GROUP STUDY TO EVALUATE THE EFFICACY AND SAFETY OF APREMILAST (CC-10004) MONOTHERAPY IN SUBJECTS WITH ACTIVE PSORIATIC ARTHRITIS."

> Celgene; PSA-006 Dates: 2013 - 2019

### **Principal Investigator**

22. "A Multicenter, Randomized, Double-Blind, Active and Placebo-Controlled 24-Week Study Followed by Long-Term Evaluation of Efficacy and Safety of Ixekizumab (LY2439821) in Biologic Disease Modifying Antirheumatic Drug-Naive Patients with Active Psoriatic Arthritis."

Eli Lilly; I1F-MC-RHAP Dates: 2013 – 2015

#### **Principal Investigator**

23. "A Phase 2 study assessing the effect of Pomalidomide in Scleroderma patients with interstial lung disease."

> Celgene; CC-4047 Dates: 2013 – 2015 **Principal Investigator**

24. 2014 – present: I have been the PI on >20 different pharmaceutical sponsored multi-center trials (not listed here but can be obtained from the Office of Clinical Research)

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### **Other Active Research**

1. "Intracellular Localization and Activation of P38-MAP Kinase in Synovial Fluid Neutrophils obtained from Patients with Inflammatory Arthritis."

May, 2005 - 2007

**Co-Investigator** 

2. "Evaluation of Pro-Inflammatory Matrix Molecules as Biomarkers for Progression of Vascular Lesions In Systemic Lupus Erythematosis Using a Confocal Laser Microscope."

December, 2005 - 2007

# **Principal Investigator**

3. "The Incidence of Malignancies in Patients Taking Tumor Necrosis Factor-alpha Antagonists." June 1, 2006 - 2008

# **Principal Investigator**

4. "CCR-5 delta 32 Mutation and its Relationship to the Development of Salmonella Induced Reactive Arthritis."

July 3, 2006 - 2010

**Principal Investigator** (laboratory testing funded by Co-PI, Alan P Hudson, PhD; Wayne State University)

5. "CCR-5 delta 32 Mutation and its Relationship to the Development of Chlamydia-Induced Reactive Arthritis."

July 3, 2006 - 2010

**Principal Investigator** (laboratory testing funded by Co-PI, Alan P Hudson, PhD; Wayne State University)

6. "The Effect of Tumor Necrosis Factor-alpha Inhibition on Persistent Chlamydia in Human Mononuclear Cells."

July 10, 2006 - 2018

**Principal Investigator** (laboratory testing funded by Co-PI, Alan P Hudson, PhD; Wayne State University)

### **Research Preceptorships**

1. Preceptor: Abdul L. Lodhi; M.D. (Rheumatology Fellow)

Title of Project: "Determining Rheumatologists' Accuracy at Assessing Functional Disability in Rheumatoid Arthritis Patients by Using the Health Assessment Questionnaire – Disability Index (HAQ-DI)."

July 2002 – June 2004

2. Preceptor: Erica Traina, MSI

Title of Project: "Determining Rheumatologists' Accuracy at Assessing Functional Disability in Rheumatoid Arthritis Patients by Using the Health Assessment Questionnaire – Disability Index (HAQ-DI)."

June 2004 – July 2004

3. Preceptor: Farah Sultan, MSI

Title of Project: "Male Osteoporosis: Recognition & Treatment."

June 2005 – July 2005

4. Preceptor: Shalini Patel, MS1

Title of Project: "Male Osteoporosis: Recognition & Treatment." June 2005 – July 2005

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John Dillon Carter, M.D.

5. Preceptor: Bradley Weitzner, M.D. (Rheumatology Fellow)

Title of Project: "Evaluation of Pro-Inflammatory Matrix Molecules as Biomarkers for Progression of Vascular Lesions In Systemic Lupus Erythematosis Using a Confocal Laser Microscope."

July 2004 – June 2006

6. Preceptor: Margaux Hemstreet, MSI

Title of Project: "The Incidence of Thromboembolic Events in Patients Taking TNF-alpha Antagonists."

June 2006 – July 2006

7. Preceptor: Humayun Beg, M.D. (Rheumatology Fellow)

Title of Project: "CCR-5 delta 32 Mutation and its Relationship to the Development of Salmonella Induced Reactive Arthritis."

June 2006 – 2008

8. Preceptor: Natalie Brown, M.D. (Rheumatology Fellow)

Title of Project: "Tumor Necrosis Factor-alpha Antagonists and the Induction of Autoantibodies in the setting of Rheumatoid Arthritis."

February 2005 – 2007

9. Preceptor: Jason Guthrie, M.D. (Rheumatology Fellow)

Title of Project: "CCR-5 delta 32 Mutation and its Relationship to the Development of Chlamydia-Induced Reactive Arthritis.

July 2006 - 2008

10. Preceptor: Aasim Rehman, M.D. (Rheumatology Fellow)

Title of Project: "CCR-5 delta 32 Mutation and its Relationship to the Development of Chlamydia-Induced Reactive Arthritis."

July 2008 – 2010

11. Preceptor: Vanessa Osting, D.O. (Rheumatology Fellow)

Title of Project: "A randomized prospective open-label comparison of two Vitamin D3 repletion strategies in Vitamin D deficient patients."

July 2008 - 2010

12. Preceptor: Ernesto Rodriguez, M.D.

Title of Project: "Shifting the Paradigm of Gout: An Assessment of Chronic Synovial-Based Inflammation and its Role with Serum Urate Levels."

July 2009 - 2011

13. Preceptor: Abie Alias, D.O.

Title of Project: "Ultrasound Detection of Monosodium Urate Crystal Deposits on Hyaline Cartilage and its Relationship to Serum Urate Level."

July 2009 – 2011

14. Preceptor: Julio Gonzalez, M.D.

Title of Project: "Assessment of a correlation between osteoarthritis of the cervical spine and hands."

July 2010 - 2012

15. Preceptor: Charles Degenhardt, M.D.

Title of Project: "Does patient-rheumatologist interaction alter a patient's global assessment of their disease?"

July 2010 – 2012

16. Preceptor: Amir Agha, M.D.

Title of Project: "Assessment of the Prevalence of Gout in Patients with Spondyloarthritis."

July 2011 – 2013

17. Preceptor: Ilias Oikonomopoulos, M.D.

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John Dillon Carter, M.D.

Title of Project: "Analysis Correlation of CRP and ESR in Patients with RA and PsA." July 2012-2014

18. Preceptor: Anna Muchnik, D.O.

Title of Project: "Comparison of PFTs vs. Echo at predicting pulmonary HTN in patients with Scleroderma."

July 2012 - 2014

19. Preceptor: Alicia Fierro, D.O.

Title of Project: "Assessment of the Prevalence of Gout in Patients with Spondyloarthritis."

July 2013 - 2015

20. Preceptor: Catherine Garcia, M.D.

Title of Project: "Increasing the Capture of patients with non-radiographic SpA with MRI."

July 2013 - 2015

21. Preceptor: Marielys Figueroa, M.D.

"Improving Glucocorticoid Induced Osteoporosis Screening and Management in Patients with Rheumatic Diseases Using the 2017 ACR Guidelines."

July 2019 - 2021

22. Preceptor: Silera Balbuena, M.D.

Title of Project: "Clinical Outcomes of COVID-19 Vaccination and Booster in Patients with Autoimmune Inflammatory Rheumatic Disease."

January 2021 - 2022

### **II. FORMAL TEACHING**

1. Physical Diagnosis of the Musculoskeletal System.

Course #: BMS-6830B University of South Florida Second Year Medical Students I personally designed and taught the course. 1999 – 2004

2. Clinical Rheumatology Elective

Course #: MEL-8339 University of South Florida Fourth Year Medical Student Elective

3. Rheumatology Exam Review Course

Course #: BCC-7144 University of South Florida Third Year Medical Student Internal Medicine Clerkship 2001 – 2005.

4. First Year Medical Student Longitudinal Clinical Experience Mentor Program (LCME).

Course #: BMS-6941-001 University of South Florida. 2002 – present.

5. Second Year Medical Student Longitudinal Clinical Experience Mentor Program (LCME).

Course #: BMS-6941-002 University of South Florida. 2002 – present.

6. Summer Research Elective for First Year Medical Students.

University of South Florida.

2004 - 2007.

7. Physical Diagnosis of the Musculoskeletal System.

Course #: BMS-6830B University of South Florida Second Year Medical Students 2004 - 2008

8. Skin and Bones Fourth Year Medical Student Clerkship

Course #: BCC-8116 University of South Florida 2006 – present.

9. Colloquium Years 1 & 2 Course #: BMS 6920 002

University of South Florida

2009 - 2010

## **III. BIBLIOGRAPHY**

### **PUBLICATIONS (Peer Reviewed Journals):**

- 1. **Carter JD**, Cutolo EP, Behnke RH, Adelman HM. Pulmonary Infiltrates in an Elderly Man. *Hospital Practice*. 34(8):21-4,1999.
- 2. **Carter JD**, Kanik KS, Valeriano J. Neck Mass in a Rheumatoid Arthritis Patient Taking Etanercept. *Journal of Clinical Rheumatology*. 6(2):80-1, 2000.
- 3. **Carter JD**, Vasey FB, Valeriano-Marcet J, Kanik KS. "G" Stands for Gout. *Arthritis and Rheumatism.* 43(6):1418, 2000.
- 4. **Carter JD**, Kanik KS, Vasey FB, Valeriano-Marcet J. Dermatomyositis with Normal Creatine Kinase and Elevated Aldolase Levels (letter). *Journal of Rheumatology*. 28(10):2366-7, 2001.
- 5. **Carter JD**, Vasey FB, Kanik KS, Valeriano-Marcet. Polymyalgia Rheumatica and Temporal Arteritis with Sacroiliitis and Osteitis Pubis. *Journal of Clinical Rheumatology*. 7(4):261-4, 2001.
- 6. **Carter JD**, Valeriano-Marcet J, Kanik KS, Vasey FB. ANA Negative Drug Induced Lupus Caused by Lisinopril. *Southern Medical Journal*. 94(11):1122-3, 2001.
- 7. **Carter JD**, Vasey FB. Psoriatic Arthritis: Genetics, Immunology, and Therapies (Editorial). *Journal of Clinical Rheumatology*. 7(6):363-5, 2001.
- 8. **Carter JD**, Valeriano J, Vasey FB. Reply to: Dermatomyositis with Normal Creatine Kinase and Elevated Aldolase Levels (letter). *Journal of Rheumatology*. 29(10):2242-3,2002.
- 9. Valeriano J, Carter JD, Vasey FB. Soft Tissue Infections (Review). *Rheumatic Disease Clinics of North America*. 29(1):77-88, 2003.
- 10. McIlwain L, Carter JD, Bin-Sagheer S, Vasey FB, Nord J. Hypersensitivity Vasculitis with Leukocytoclastic Vasculitis Secondary to Infliximab. *Journal of Clinical Gastroenterology*. 36(5):411-3, 2003.
- 11. **Carter JD**, Warner E. Tumoral Calcinosis in a patient with Sarcoidosis. *Arthritis & Rheumatism*. 48(6):1770, 2003.
- 12. **Carter JD**, Valeriano J, Vasey FB. A Case of Crohn's Disease Worsened by Anakinra. *Journal of Clinical Rheumatology*. 9(4):275-6, 2003.
- 13. **Carter JD**, Bognar B, Valeriano J, Vasey FB. Refractory neurosarcoidosis: a dramatic response to Infliximab. *American Journal of Medicine*. 117(4):277-9, 2004.
- 14. **Carter JD**, Valeriano J, Vasey FB. A Prospective, Randomized 9-Month Comparison of Doxycycline vs. Doxycycline and Rifampin in Undifferentiated Spondyloarthropathy with Special Reference to *Chlamydia*-Induced Arthritis. *Journal of Rheumatology*. 31(10):1973-80, 2004.
- 15. Lodhi A, Carter JD, Valeriano J, Vasey FB. Can We Classify Psoriatic Arthritis? (editorial). *Seminars in Arthritis & Rheumatism.* 34(3):571-2, 2004.

- 16. **Carter JD**. Treatment of Relapsing Polychondritis with a Tumor Necrosis Factor Inhibitor. *Journal of Rheumatology*. 32(7):1413, 2005.
- 17. **Carter JD**, Valeriano J, Vasey FB. Antimicrobials for the Treatment of Chlamydia-Induced Reactive Arthritis. *Annals of the Rheumatic Diseases*. 64(3):512-3, 2005.
- 18. **Carter JD**, Valeriano J, Vasey FB. Tumor Necrosis Factor Inhibition and VATER Association: A Causal Relationship? *Journal of Rheumatology*. 33(5):1014-7, 2006.
- 19. Cruse LM, Valeriano J, Vasey FB, **Carter JD**. Prevalence of Evaluation and Treatment of Glucocorticoid-Induced Osteoporosis in Men Hospital. *Journal of Clinical Rheumatology*. 12(5):221-5, 2006.
- 20. **Carter JD**, Valeriano J, Vasey FB. Hydroxychloroquine as a Treatment for Atrophoderma of Pasini and Pierini. *International Journal of Dermatology*. 45(10):1255-6, 2006.
- 21. **Carter JD**, Vasey FB, Valeriano J. The Effect of a Low Carbohydrate Diet on Bone Turnover. *Osteoporosis International*. 17(9):1398-1403, 2006.
- 22. Vasey FB, Carter JD. Intestinal Flora and Psoriatic Arthritis. *Journal of Rheumatology*. 33(10):2099, 2006.
- 23. **Carter, JD**, Espinoza LR. The Interplay of Environment and Host Response in Reactive Arthritis: Can We Intervene? *Future Rheumatology*. 1(6):717-27, 2006.
- 24. **Carter, JD**. TNF-alpha Inhibition Causing Psoriasis? A More Plausible Explanation Exists. *Annals of the Rheumatic Diseases*. 65(12):1680, 2006.
- 25. **Carter JD**. Reactive Arthritis: Defined Etiologies, Emerging Pathophysiology, and Elusive Treatment. *Infectious Disease Clinics of North America*. 20(4):827-47, 2006.
- 26. **Carter JD**, Lodhi A, Nagda SR, Ricca L, Ward C, Traina E, Thompson ZJ, Huang x, Valeriano J, Vasey FB. Determining Rheumatologists' Accuracy at Assessing Functional Disability in Rheumatoid Arthritis Patients by Using the Health Assessment Questionnaire Disability Index (HAQ-DI). *Journal of Rheumatology*. 34(5):958-63, 2007.
- 27. Brown NA, Carter JD. Urticarial Vasulitis. Current Rheumatology Reports. 9(4):312-9, 2007.
- 28. **Carter JD**. Functional Disability Determination of the Rheumatoid Arthritis Patient: A Failing System. Touch Briefings, US Musculoskeletal Review. Issue II:26-7, 2007.
- 29. McKinley J, Vasey F, McMillen A, **Carter J**, Brady P. Joint Observations with Lessons for Rheumatologists and Gastroenterologists. *Inflammatory Bowel Disease* 14(5):730-1, 2008.
- 30. **Carter JD**, Patel S, Sultan FL, Thompson ZJ, Hemstreet M, Sterrett A, Carney G, Murphy N, Huang Y, Valeriano J, Vasey FB. The Recognition and Treatment of Vertebral Fractures in Males with Chronic Obstructive Pulmonary Disease. *Respiratory Medicine*. 102(8):1165-72, 2008. Epub 2008 Jun 18.

- 31. **Carter JD**, Gerard HC, Hudson AP. Psoriasiform Lesions Induced by TNF Antagonists: A Skin-Deep Medical Conundrum. *Annals of the Rheumatic Diseases* 67(8):1181-3, 2008. Epub 2008 Feb 25.
- 32. Baag AA, Vale FL, **Carter JD**, Rojiani AM. Granulomatosis with CNS Involvement: A Neuroimaging Clinicopathologic Correlation. *Journal of Neuroimaging* Epub 2008 Apr 3.
- 33. Shetty A, Marcum C, Glass LF, **Carter JD**. Successful Treatment of Pemphigus Vulgaris with the TNF-alpha Antagonist Etanercept in 4 Patients. *Journal of Drugs in Dermatology* 2009;8(10):940-3.
- 34. **Carter JD**, Ladhani A, Ricca LR, Valeriano J, Vasey FB. A Safety Assessment of TNF Antagonists During Pregnancy: A Review of the FDA Database. *Journal of Rheumatology*. 2009;36(3):635-41.
- 35. Ingram S, McKinley JM, Vasey F, **Carter JD**, Brady PG. Are Inflammatory Bowel Disease and Pouchitis a Reactive Enteropathy to Group D Streptococci (Enterococci)? *Inflammatory Bowel Disease* 2009;15(11):1609-10.
- 36. **Carter JD**, Gérard HC, Espinoza LR, Ricca LR, Valeriano-Marcet J, Snelgrove J, Oszust C, Vasey FB, Hudson AP. Chlamydiae as Etiologic Agents for Chronic Undifferentiated Spondyloarthropathy. *Arthritis & Rheumatism* 2009;60(5):1311-1316.
- 37. Gerard HC, Whittum-Hudson JA, Carter JD, Hudson AP. Molecular Biology of Infectious Agents in Chronic Arthritis. *Rheumatic Disease Clinics of North America* 2009;35(1):1-19.
- 38. **Carter JD**, Hudson AP. Reactive Arthritis: Clinical Aspects and Medical Management. *Rheumatic Disease Clinics of North America* 2009;35(1):21-44.
- 39. Breglia M, **Carter JD**. Atypical Insufficiency Fracture of the Tibia Associated with Long-Term Bisphosphonate Therapy. *Journal of Clinical Rheumatology* 2010;16(2):76-8
- 40. **Carter JD**, Kedar RP, Anderson SR, Osorio AH, Albritton NL, Gnanashanmugam S, Valeriano-Marcet J, Vasey FB, Ricca LR. MRI and Ultrasound Findings in Patients with Gout and Normal Plain Radiographs. *Rheumatology (Oxford)* 2009;48(11):1442-6.
- 41. **Carter JD**, Hudson AP. Time to Prove the Infective Etiology of Ankylosing Spondylitis and Related Spondyloarthritidies. *Arthritis & Rheumatism* 2009;60(11):3520-1.
- 42. Stanich JA, **Carter JD**, Whittum-Hudson JA, Hudson AP. Rheumatoid arthritis: disease or syndrome? *Open Access Rheumatology: Research and Reviews* 2009;1(12).
- 43. Gérard HC, Stanich JA, Oszust C, Whittum-Hudson JA, **Carter JD**, Schumacher HR, Hudson AP. Functional CCR5 receptor protects arthritis patients from high synovial burden of infecting Chlamydia trachomatis. *American Journal of Medical Sciences* 2010;340(6):448-51. Aug 31 epub ahead of print.
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1. **Carter JD**. Methotrexate. In Adelman HM. Rheumatology Questions and Answers. Merit Publishing International. Surrey, England. 2008:199-205.

- 2. **Carter JD**. <u>Hydroxychloroquine</u>. In Adelman HM. Rheumatology Questions and Answers. Merit Publishing International. Surrey, England. 2008:205-8.
- 3. **Carter JD**. <u>Calcitonin</u>. In Adelman HM. Rheumatology Questions and Answers. Merit Publishing International. Surrey, England. 2008:229-33.
- 4. **Carter JD**. <u>Leflunomide</u>. In Adelman HM. Rheumatology Questions and Answers. Merit Publishing International. Surrey, England. 2008:210-4.
- 5. **Carter JD**. <u>Etanercept</u>. In Adelman HM. Rheumatology Questions and Answers. Merit Publishing International. Surrey, England. 2008:214-20.
- 6. **Carter JD**. <u>Infliximab</u>. In Adelman HM. Rheumatology Questions and Answers. Merit Publishing International. Surrey, England. 2008:220-3.
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- 8. Guthrie JP, Carter JD. Reactive Arthritis (a monograph written for an online textbook). British Medical Journal Publishing; London, England. 2008 (updated 2009, 2010, 2011)
- 9. **Carter JD.** <u>Lupus Panniculitis</u>. In Valeriano-Marcet J & Bateman H. Visual Diagnosis: Self Tests on Rheumatology. 2009:52-54.
- 10. **Carter JD.** <u>Pustular Psoriasis and TNF Antagonists</u>. In Valeriano-Marcet J & Bateman H. Visual Diagnosis: Self Tests on Rheumatology. 2009:55-58.
- 11. **Carter JD.** <u>Hypersensitivity Vasculitis</u>. In Valeriano-Marcet J & Bateman H. Visual Diagnosis: Self Tests on Rheumatology. 2009:65-70.59-64.
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- 14. **Carter JD**. <u>Reactive Arthritis</u>. In Fitzpatrick's Dermatology in General Medicine (8<sup>th</sup> Edition). McGraw Hill Publishing. Philadelphia, PA. 2012; Chapter 20:243-52.
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- 17. **Carter JD**. <u>Reactive Arthritis</u>. In inPractice Rheumatology (Borenstein D, Editor). inPractice Resources, LLC.; 2016

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- 19. **Carter JD**, Hudson AP. <u>Reactive Arthritis</u>. In Kelley's Textbook of Rheumatology (10<sup>th</sup> Edition). WB Suanders & Co, Philadelphia, PA. 2016
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- 22. **Carter JD**. <u>Reactive Arthritis: The Hidden Bacterial Connection</u>. In The Human Microbiota and Chronic Disease Dysbioses as a Cause of Human Pathology. Wiley Blackwell Publishing, Hoboken, NJ. 2017
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### **Abstracts Presented/Published:**

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- 3. Kirzhner I, Howell T, Rhee D, Warman M, Sandy J, **Carter JD**, Plaas A. Disulfide Bonded Multimers of Lubricin in Normal Synovial Fluid Synthesis and Assembly by Synovial Lining Cells. Cartilage Innovation Summit; Cleveland Clinic, May 2005.

- 4. Lodhi A, Valeriano J, Vasey FB, **Carter JD**. Rheumatologists' Ability to Predict Functional Disability in Rheumatoid Arthritis Patients by Using the Health Assessment Questionnaire (HAQ).
  - American College of Rheumatology National Convention, San Diego, CA; November 11-17, 2005.
  - University of South Florida Research Day, Tampa, FL; February 23, 2006
- 5. Brown NA, Vasey FB, **Carter JD**. TNF-alpha Antagonists and the Induction of Autoantibodies. University of South Florida Research Day, Tampa, FL; February 23, 2007. Rheumatology on the Beach, Destin, FL; March 28, 2007.
- 6. Guthrie JP, Oszust C, Hudson AP, **Carter JD**. CCR-5 Delta 32 Mutation and its Relationship to the Development of *Chlamydia*-Induced Reactive Arthritis. Rheumatology on the Beach, Destin, FL; March 28, 2007.
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- 9. Carter JD, Ladhani A, Ricca L, Valeriano J, Vasey FB. A Safety Assessment of the TNF Antagonists During Pregnancy: A Review of the FDA Database. 71<sup>st</sup> American College of Rheumatology National Annual Scientific Meeting. Boston, MA, November 6-11, 2007. ARTHRITIS RHEUM 2007; Vol.56, No.9:S286. Plenary Session Presentation.
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- 21. **Carter JD**, Sebba AI, Osorio AH, Albritton NL, Pfeiffer GL, Valeriano J, Vasey FB. A Safety Analysis of Oral Prednisone as a Pre-Treatment for Rituximab in Rheumatoid Arthritis. ACR Scientific Meeting. Philadelphia, PA. October 19-22, 2009.
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- 23. Inman RD, Chiu B, Hudson AP, Carter JD. IL-12p70 Profiles in Antibiotic Treatment of Chlamydia-induced Reactive Arthritis (ReA). ACR Scientific Meeting. Atlanta, GA Nov 6-11, 2010. Oral Concurrent Session Presentation.

- 24. Lin J, Shetty AG, Carter JD. The Diagnosis of Reactive Arthritis in the Real World and Factors that Might Contribute to its Under/Misdiagnosis. ACR Scientific Meeting. Atlanta, GA Nov 6-11, 2010.
- 25. Rodriguez E, Sterrett AG, Bateman HR, Ricca LR, Carter JD, Valeriano J. "Medical Student Education in the Electronic Age: A Web-Based Virtual Teaching Tool" ACR Scientific Meeting. Atlanta, GA Nov 6-11, 2010.
- 26. **Carter JD**, Gerard HC, Hudson AP. *C trachomatis* is Present and Metabolically Active During the Remitting Phase in Synovial Tissues From Patients with Chronic *Chlamydia*-Induced Reactive Arthritis. Arthritis & Rheum 2011;63(10)[supp]:S755. ACR Scientific Meeting. Chicago, IL Nov 4-9, 2011.
- 27. Guthrie JP, Rehman A, Gerard HC, Stanich J, Hudson AP, Carter JD. The Effect of CCR5-Delta-32 Mutation on *Chlamydia*-Induced Reactive Arthritis. Arthritis & Rheum 2011;63(10)[supp]:S758. ACR Scientific Meeting. Chicago, IL Nov 4-9, 2011.
- 28. **Carter JD**, Albritton N, Zarabadi SA, Ricca LR, Valeriano-Marcet J, Vasey FB, Sebba A. A safety Analysis of Oral Prednisone as a Pre-Treatment for Rituximab in Rheumatoid Arthritis. Arthritis & Rheum 2011;63(10)[supp]:S876. ACR Scientific Meeting. Chicago, IL Nov 4-9, 2011.
- 29. Osting VC, Gonzalez J, Valeriano J, **Carter JD**. A randomized prospective open-label comparison of two Vitamin D3 repletion strategies in Vitamin D deficient patients. USF Health Research Day. Feb 24, 2012.
- 30. Baillargeon A, **Carter JD**. MRI Findings in Patients with Eosinophilic Fasciitis. USF Health Research Day. Feb 24, 2012.
- 31. **Carter JD**, Patelli M, Anderson SR, Prakash N, Aydelott R, Rodriquez EJ, Bateman H, Sterrett AG, Valeriano J, Ricca LR. An Assessment of Chronic Synovial-Based Inflammation in Gout and its Correlation with Serum Urate Levels. EULAR National Meeting. Madrid, Spain. June 15, 2013.
- 32. Oikonomopoulos I, **Carter JD**. Comparison of C-Reactive Protein (CRP) and Erythrocyte Sedimentation Rate (ESR) with Estimated Glomerular Filtration Rate (eGFR) in Patients with Rheumatoid Arthritis (RA). ACR Scientific Meeting. Boston, MA Nov 14-19, 2014.
- 33. Genovese M, Fleishmann R, Furst D, Jannsen N, Carter JD, Dasgupta B, Pitzalis C, Vasyutin I, Kavariasu T, Krotkova A, Durez P. Improvements in Patient-Reported Outcomes with Olokizumab Treatment in Patients with Active, Moderate to Severe Rheumatoid Arthritis who had Failed Previous Anti-TNF Therapy: Results from the RA0056 Double-Blind, Randomized Controlled Study, and RA0057, Its Open Label Extension. EULAR National Meeting. London, England. June 9, 2016.

- 34. Gina A. Montealegre Sanchez1, Adam Reinhardt2, Paul Brogan3, Dawn C. Chapelle4, Hanna Kim4, Samantha Judd4, Bahar Kost4, Michelle O'Brien4, Wendy Goodspeed4, Robert A. Colbert4, Meryl Waldman5, Deborah L. Stone6, Ling Gao7, JA Dare8, Susanne Schalm9, Thomas L. Klausmeier10, Sara Murias11, Yackov Berkun12, Diane Brown13, **John D.**Carter14, Fehime K Eroglu15, A. Zlotogorski16, Philip Hashkes17, Helmut Wittkowski18, Suzanne Ramsey19, Seza Ozen20, Adriana Almeida de Jesus21 and Raphaela Goldbach-Mansky21Preliminary Response to JAK1/2 Inhibition with Baricitinib in "Candle", "Savi" and "Candle-like" Diseases. a New Therapeutic Approach for Type I IFN Mediated Autoinflammatory Diseases. ACR Scientific Meeting. Washington D.C. Nov 12-16, 2016.
- 35. Figueroa-Sierra M, Cao, S, Yuanyuan L, Bateman H, **Carter JD**, Lin, YC, Cuchacovich R, Maldonado M, Valeriano-Marcet J, Montes-Rivera G. Improving Glucocorticoid Induced Osteoporosis Screening and Management in Patients with Rheumatic Diseases Using the 2017 ACR Guidelines. ACR Scientific Convergence 2020. Arthritis Rheumatol 2020; 72 (suppl 9).
- 36. Holguin Balbuena S, Radisic A, Goodman S, Gor S, Wood B, Shahin A, Samuel K, Mhaskar R, Carter JD. Clinical Outcomes of COVID-19 Vaccination and Booster in Patients with Autoimmune Inflammatory Rheumatic Disease. ACR Scientific Convergence 2022. Arthritis Rheumatol 2022; 74 (suppl 9). Chosen as an "Ignite Talk".

### **Continuing Professional Education/Invited Lectures**

1. First Annual New Frontiers in Rheumatology

CPE Course designed for Primary Care Physicians, PA's, and ARNP's

CPE Credit: 4 hours April 14, 2005

Wyndham Westshore; Tampa, FL

**Course Director and Lecturer** 

2. Second Annual New Frontiers in Rheumatology

CPE Course designed for Primary Care Physicians, PA's, and ARNP's

CPE Credit: 5 hours September 30, 2006

Wyndham Westshore; Tampa, FL

**Course Director** and **Lecturer** 

3. "Nonvertebral Fracture Efficacy: Shifting the Paradigm with a Focus on Absolute Risk Reduction."

**CPE Publication Newsletter** 

CPE Credit: 1 hour

Spring 2006 – Spring 2007

**Sole Author** 

4. Practical Orthopedics and Sports Medicine for Primary Care

"Non-surgical Treatment of Arthritis"

CPE Credit: 0.5 hour February 22, 2008 Hilton; Clearwater, FL

Lecturer

5. Florida Society of Rheumatology

"Psoriatic Arthritis: A Rash of New Treatments"

CPE Credit: 1.0 hour

July 12, 2008

Westin Diplomat, Hollywood, FL

#### Lecturer

6. Florida Society of Rheumatology

"Reactive Arthritis: What's a Bug Like You Doing in a Joint Like This?"

CPE Credit: 1.0 hour

July 13, 2008

Westin Diplomat, Hollywood, FL

#### Lecturer

7. Tennessee Rheumatology Society

"Reactive Arthritis: What's a Bug Like You Doing in a Joint Like This?"

CPE Credit: 1.0 hour March 14, 2009

Embassy Suites, Nashville, TN

#### Lecturer

8. Takeda Pharmaceuticals, Inc

"Gout: New Imaging of an Old Disease: What have we been Missing?"

June 17, 2009

Takeda Pharmaceuticals, Chicago, IL

**Lecturer** for SMART Lecture Series

9. American College of Physicians – Florida Chapter

"Gout: New Advances of an old Disease"

September 11, 2009

The Tradewinds, St. Petersburg, FL

#### Lecturer

10. Wayne State University Rheumatology Grand Rounds

"Reactive Arthritis"

February 12, 2010

#### Lecturer

11. Broward General Medical Center Grand Rounds

"Non-Breaking News in Osteoporosis"

February 3, 2011

#### Lecturer

12. American Society of Consultant Pharmacists

"Biologics in RA: Efficacy and Safety"

Tampa, FL; June 6, 2011

### Lecturer

13. American College of Rheumatology National Convention

"Reactive Arthritis: Clinical Insights and Treatment Options"

Chicago, IL. November 8, 2011

### Lecturer

14. American Society of Consultant Pharmacists

"Biologics in the Elderly"

St. Petersburg, FL; May 4, 2012

### Lecturer

15. Morton Plant Mease Hospital Grand Rounds

"Advances in Gout"

Clearwater, FL May 8, 2012

#### Lecturer

16. European League Against Rheumatism (EULAR) International Convention "Viable Joint Resident Microbes as Drivers of Arthritis"

Berlin, Germany. June 9<sup>th</sup>, 2012

### Lecturer

17. SPARTAN/GRAPPA Regional Symposium

"Comorbidities of Psoriatic Arthritis and Ankylosing Spondylitis"

Tampa, FL. April 12th, 2015

### Lecturer

18. SPARTAN/GRAPPA Regional Symposium

"Reactive Arthritis, Iritis, and Inflammatory Bowel Disease Arthritis"

Tampa, FL. April 12th, 2015

### Lecturer

19. American Society of Consultant Pharmacists

"Biologics in the Elderly"

Grapevine, TX; November 8, 2019

#### Lecturer

20. Southeastern Rheumatology Fellowship Symposium

"Reactive Arthritis"

Tampa, FL October 23, 2022

Lecturer

# **Innovative Creative Projects**

1. "Reactive Arthritis"

**CD** Presentation

Recruiting Tool for my NIH Funded International Multi-Centered Trial

Designed May 2006

### **IV. SERVICE**

### University/Local

1. Scientific Review Committee

University of South Florida

May 2002 - 2019

2. Billing Integrity Committee.

University of South Florida.

May 2004 - 20010.

3. Faculty Council

University of South Florida

August 2008 – 2010

4. PACE (Project to Advance Clinical Education) Committee.

University of South Florida.

Musculoskeletal/Dermatology Committee.

Mission: Design Curriculum for the new Mandatory 4<sup>th</sup> Year Student Skin & Bones Clerkship

### Chair.

September 2004 – May 2005.

Curriculum Vitae 24

John Dillon Carter, M.D.

5. Committee On Research

University of South Florida College of Medicine

September 2009 – 2010.

6. Promotion and Tenure Committee

Department of Internal Medicine

University of South Morsani College of Medicine

2014 - present

### **Committees (Regional)**

1. Florida Board of Osteoporosis. July 2005 – July 2007.

#### **Committees (National)**

- 1. Official Board Reviewer for the American Board of Internal Medicine Rheumatology. 2002 present.
- 2. NIH Reviewer for RFP NIH-NIAMS-BAA-07-01

Title: Innovative Therapies for Rheumatic and Skin Diseases

October 17-18, 2006.

3. American College of Rheumatology National Meeting Abstract Reviewer Section: Infection-Related Rheumatic Diseases

July, 2010

4. American College of Rheumatology National Meeting Section Co-Chair Section: Infection-Related Rheumatic Diseases

2011, 2012, 2013

5. NIH Reviewer 2012/05 Council ZAR1 CNR M2

SBIR Rare Disease Grant Review

April 18, 2012

### **Journal Editorial Board**

1. *Clinical Rheumatology* – Editor: Luis R. Espinoza, M.D.

Impact Factor: 2.037

2012 - 2020

### Journal Reviewer

1. *Journal of Rheumatology* - Editor: Duncan Gordon, M.D.

Impact Factor: 3.695

2. *Annals of the Rheumatic Diseases* - Editor: Leo van de Putte, M.D.

Impact Factor: 9.111

3. Rheumatology

Impact Factor: 4.226

4. Arthritis and Rheumatism - Editor: Michael Lockshin, M.D.

Impact Factor: 7.866

5. Seminars in Arthritis and Rheumatism - Editors: Roy D. Altman, M.D. & Normal L. Gottlieb,

M.D..

Impact Factor: 3.580

6. Bone - Editor: Roland Baron, M.D.

Impact Factor: 3.966

25

John Dillon Carter, M.D.

7. Journal of Clinical Rheumatology – Editor: H. R. Schumacher, M.D. Impact Factor: 1.416

8.

CHEST - Editor: Richard S. Irwin, M.D. Impact Factor: 4.008

9. Nature Reviews Rheumatology – Editor: Jenny Buckland, PhD Impact Factor: 6.448

### **Community Service**

1. Walk for a Cure. Arthritis Foundation Fundraiser 2004-present

2. Arthritis Yearly Benefit Arthritis Foundation Update on Arthritis Lecture Series 2001 - 2009

Tampa General Patient Education Series 3. Yearly Lecture on Arthritis 2002 - present

# **AWARDS:**

- 1. Winner of the First Annual Amgen Rheumatology Young Investigator Forum. Destin, Florida; September 17, 2003.
- 2. Florida Medical Association Distinguished Physician Award; June 30, 2006.
- 3. "America's Top Physicians"; Consumers' Research Council of America; 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2917, 2018, 2019, 2020, 2021, 2022, 2023
- 4. "Best Doctors in America"; Best Doctors, Inc.; 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
- 5. National Institutes of Health Loan Repayment Award. July 2007 – June 2009.
- 6. Alpha Omega Alpha; elected 2009
- 7. Patients' Choice Recognition Award; 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
- 8. America's Most Compassionate Doctors Award; 2011, 2012, 2013, 2014, 2015, 2016
- 9. Tampa Bay Top Doctors: 2009 - present
- 10. Outstanding Faculty Research Award, USF Health; 2012
- 11. USF Morsani College of Medicine Press Gainey Top Performer Award; 2019 and 2022