

**THE UNIVERSITY OF NEBRASKA MEDICAL CENTER
COLLEGE OF MEDICINE
CURRICULUM VITAE**

Date: June 20, 2023

PERSONAL INFORMATION:

Name: Bryant R. England, M.D., Ph.D., RhMSUS, FACP

ORCID ID Number: 0000-0002-9649-3588

Web of Science ResearcherID:AAH-6545-2020

Business Address: Division of Rheumatology and Immunology
University of Nebraska Medical Center (UNMC)
986270 Nebraska Medical Center
Omaha, NE 68198-6270

Phone: (402) 559-7288 / Fax (402) 559-6788

Email: bryant.english@unmc.edu

Place of Birth: Omaha, Nebraska

EDUCATION:

Institution	Degree	Dates
Truman State University, Kirksville, MO	B.S., Exercise Science <i>Valedictorian</i>	8/04-5/08
UNMC, Omaha, NE	M.D.	8/08-5/12
UNMC, Omaha, NE	Ph.D. Medical Sciences Interdepartmental Area - Clinical & Translational Research	8/15-12/19

Dissertation: England, Bryant, "Enhancing the Identification of Rheumatoid Arthritis-Associated Lung Disease" (2019). Theses & Dissertations. [405](#).

POSTDOCTORAL TRAINING:

Year	Position	Institution
7/12-6/15	Resident, Internal Medicine	UNMC, Omaha, NE
7/15-6/17	Fellow, Rheumatology	UNMC, Omaha, NE
10/16-6/17	Musculoskeletal Ultrasound Trainee	Ultrasound School of North American Rheumatologists (USSONAR)

<u>Post-Doctoral Courses</u>	<u>Date</u>
Update in Health Information Technology: Healthcare Data Analytics – Oregon Health & Sciences University	6/2018
Intermediate Pharmacoepidemiology – McGill University	6/2018
Training for Clinical Data Warehouse – UNMC	7/2019
Modern Approaches for Confounding Control – McGill University	5/2021
Advanced Pharmacoepidemiology – McGill University	6/2023

ACADEMIC APPOINTMENTS:

Dates	Rank/Title	Institution
7/2022-Present	Associate Professor	UNMC, Omaha, NE & VA Nebraska-Western IA Healthcare System
5/2020-Present	Graduate Faculty	University of Nebraska
6/2018-Present	Founder & Co-Director	Autoimmune Lung Clinic, UNMC <i>Pulmonary Fibrosis Foundation Care Center Recognition December 2022</i>
6/2018-Present	Founder & Provider	Tele-rheumatology, VA Nebraska-Western IA Healthcare System
7/2017-6/2022	Assistant Professor	UNMC, Omaha, NE & VA Nebraska-Western IA Healthcare System

BOARD CERTIFICATION:

	<u>Date</u>	<u>Number</u>
United States Medical Licensing Examination		52462785
Step 1	6/2010	
Step 2 CK	9/2011	
Step 2 CS	10/2011	
Step 3	9/2013	
American Board of Internal Medicine		363690
Internal Medicine	8/2015	
Rheumatology	11/2017	
American College of Rheumatology	7/2018	58817182041
Rheumatologic Musculoskeletal Ultrasound (RhMSUS)		

LICENSURE:

<u>State</u>	<u>Date</u>	<u>Perm./Temp.</u>	<u>Number</u>
Nebraska	4/15	Perm.	28511

ACTIVE GRANT SUPPORT:

<u>Title</u>	<u>Period/Role</u>	<u>Amount</u>
Department of Veterans Affairs CSR&D Career Development Award 2 (IK2 CX002203) – Improving the Management of RA-Associated Lung Disease in Veterans Using Real-World Data (PI: England)	1/21-12/25 <i>Principal Investigator</i>	\$1,022,876
Boehringer Ingelheim Investigator Initiated Study Elucidating Unique Disease Trajectories in RA-ILD and their Prognostic Importance (PI: England)	12/22-11/24 <i>Principal Investigator</i>	\$287,317
Department of Veterans Affairs BLR&D Merit (BX004600) Pathogenic role of malondialdehyde-acetaldehyde adducts in rheumatoid arthritis (PI: Mikuls)	10/19-09/23 <i>Co-I</i>	\$645,000
US Department of Defense (PR200793) Dynamic interaction of airborne biohazards in rheumatoid arthritis-associated lung disease (Co-PIs: Poole & Mikuls)	10/21-9/25 <i>Co-I</i>	\$3,087,566
Department of Veterans Affairs RR&D Merit Marching On for Veterans with Osteoarthritis of the Knee (“MOVE-OK”) (PI: Baker)	10/21-9/24 <i>Site PI</i>	\$250,241 (site)
Rheumatology Research Foundation Scientist Development Award – Immune and Inflammatory Mediators of Heart Failure Incidence and Severity In Rheumatoid Arthritis (PI: Johnson)	7/22-6/25 <i>Co-Mentor</i>	\$225,000

PAST GRANT SUPPORT:

<u>Title</u>	<u>Period/Role</u>	<u>Amount</u>
Rheumatology Research Foundation Resident Research Preceptorship – Determinants of Cardiovascular Disease Mortality in a High-Risk RA Cohort (PI: England)	9/1/14-11/30/14 <i>Principal Investigator</i>	\$15,000
UNMC Program of Excellence – Physician Scientist Training Program (PI: England)	7/1/17-6/30/19 <i>Principal Investigator</i>	\$100,000
UNMC Scientist Development Award -- Enhancing the Identification of Rheumatoid Arthritis Lung Disease (PI: England)	7/1/17-6/30/18 <i>Principal Investigator</i>	\$100,000

Central States Center for Agricultural Safety & Health (CS-CASH) – Agricultural & Occupational Exposures in U.S. Veterans with Rheumatoid Arthritis & Associations with Disease Severity (PI: England)	11/1/17-10/31/18 <i>Principal Investigator</i>	\$20,000
Rheumatology Research Foundation Resident Research Preceptorship – Direct and Indirect Effects of Methotrexate on Cardiovascular Risk in RA (PI: Johnson)	10/1/18-12/31/18 <i>Co-mentor</i>	\$15,000
Clinical Translational Research Mentored Scholars Program – Epidemiologic Study of Multimorbidity in Rheumatoid Arthritis (PI: England)	7/1/18-6/30/19 <i>Principal Investigator</i>	\$25,000
Great Plains IDEa CTR Scholars Program - Multimorbidity Phenotypes and their Relationship with Patient Outcomes and Health Care Utilization in U.S. Veterans with Rheumatoid Arthritis (PI: England) *funding period ended 12/31/2020 upon funding of VA CDA2	7/1/18-6/30/21* <i>Principal Investigator</i>	\$563,600
UNMC College of Medicine COVID-19 Rapid Response Grants – Risk and Outcomes of COVID-19 in Rheumatoid Arthritis: Insights into The Effects of Immunomodulatory Therapies Leveraging Big Data (PI: England)	6/1/20-6/30/21 <i>Principal Investigator</i>	\$46,025
Rheumatology Research Foundation Scientist Development Award – Epidemiologic Study of Multimorbidity in Rheumatoid Arthritis (competitive 3 rd year selected for funding) (PI: England)	7/1/18-6/30/21 <i>Principal Investigator</i>	\$225,000
Rheumatology Research Foundation Resident Research Preceptorship – Genetic and Environmental Susceptibility to Interstitial Lung Disease in RA (PI: Wheeler)	8/1/21-10/31/21 <i>Co-mentor</i>	\$15,000

PATENTS: None

HOSPITAL AND OTHER (NON-ACADEMIC) APPOINTMENTS:

7/17-present	Staff Physician UNMC/Nebraska Medicine, Omaha, NE
7/17-present	Staff Physician VA Nebraska-Western IA Healthcare System, Omaha, NE

CONSULTING POSITIONS: None

MILITARY SERVICE: None

HONORS/AWARDS:

<u>Year</u>	<u>Honor</u>
2008	Valedictorian, Truman State University
2008	Summa Cum Laude, Truman State University
2008	Phi Kappa Phi Honor Society, Truman State University
2008	Departmental Honors in Exercise Science, Truman State University
2008	Non-resident Tuition Scholarship, UNMC
2009	UNMC Edna Ittner Scholarship
2010	UNMC Margaret R. Noel Scholarship
2011	UNMC Charles J. Schramek Scholarship
2011	UNMC College of Medicine Alumni Scholarship
2011	UNMC College of Medicine Alumni Lifetime Membership Scholarship
2011	UNMC Kim F. Duncan Scholarship
2015	UNMC Internal Medicine Resident Research Award
2015	House Officer of the Year, UNMC
2015	Fellows-in-Training Annual Meeting Scholarship, American College of Rheumatology
2016	Rheumatology Research Workshop Scholarship, American College of Rheumatology
2016	Marshall J. Schiff, MD Memorial Fellow Research Award, Rheumatology Research Foundation
2016	Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>
2017	New Invention Notification, 2017 UNeMed Innovation Awards
2017	“Publication of the Quarter” Department of Internal Medicine, UNMC
2017	UNMC Internal Medicine Fellow Research Award
2017	Rheumatology Research Workshop Scholarship, American College of Rheumatology
2017	Top Fellow Poster, UNMC Internal Medicine Poster Session
2017	Distinguished Fellow Award, American College of Rheumatology
2017	Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>
2017	Top Teacher, UNMC Department of Internal Medicine
2018	Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>
2019	Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>
2019	Top Teacher, UNMC Department of Internal Medicine
2019	Fellowship Top Teacher, UNMC Department of Internal Medicine
2019	Top Reviewer for <i>Annals of Internal Medicine</i>
2020	Outstanding (top 5%) Reviewer for <i>Arthritis & Rheumatology</i>
2020	Fellow, American College of Physicians
2020	New Investigator Award, UNMC
2020	Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>
2020	Fellowship Top Teacher, UNMC Department of Internal Medicine
2020	Top Reviewer for <i>Annals of Internal Medicine</i>
2021	“Publication of the Quarter” Department of Internal Medicine, UNMC
2021	Outstanding (top 5%) Reviewer for <i>Arthritis Care & Research</i>
2021	New Invention, 2021 UNeMed Innovation Awards, UNMC
2021	Top Teacher, UNMC Department of Internal Medicine
2021	Top Reviewer for <i>Annals of Internal Medicine</i>

2022	Clinical Research Award, Department of Internal Medicine, UNMC
2022	Joseph P. & Harriet K. Gilmore Distinguished New Investigator Award, UNMC
2022	AOA Faculty Inductee, UNMC
2022	Top Reviewer for <i>Annals of Internal Medicine</i>
2023	Gold Humanism Honor Society Inductee, UNMC

PROFESSIONAL SOCIETIES:

<u>Year</u>	<u>Organization</u>
2015-present	American College of Rheumatology
2012-present	American College of Physicians
2016-present	USSONAR (Ultrasound School of North American Rheumatologists)
2019-present	International Society for Pharmacoepidemiology
2020-present	Society for Epidemiologic Research

PROFESSIONAL ACTIVITIES:

Committees

<u>Year</u>	<u>Committee</u>
2015-2017	Fellow representative, UNMC Graduate Medical Education Committee (Chair, Michael Wadaman, M.D.)
2016-2017	Fellows-in-Training Subcommittee, American College of Rheumatology
2016-2017	Fellow Representative, Quality of Care Committee, American College of Rheumatology (Chair, John Fitzgerald, MD, PhD, MBA)
2016-2019	Project Lead, Rheumatoid Arthritis Disease Activity Measures Working Group, American College of Rheumatology
2017-2018	Annual meeting abstract reviewer “Epidemiology & Public Health” American College of Rheumatology
2017-2020	Early Career Investigator Subcommittee, American College of Rheumatology (Chair: Grant Schulert, MD, PhD)
2018-2021	Standing member, Committee on Registries & Health Information Technology, American College of Rheumatology (Chair: Jinoos Yazdany, MD, MPH)
2018-present	UNMC Internal Medicine Research Council (Chair: Ted Mikuls, MD, MSPH)
2018-2021	Core Leadership Team, Rheumatoid Arthritis Treatment Guidelines, American College of Rheumatology (Chair: Liana Fraenkel, MD, MPH)
2018-present	Co-Director, Veterans Affairs Rheumatoid Arthritis Registry Data Analytics Group
2019	Lead, UNMC Internal Medicine Data Analytic Collaboration Working Group
2019-2021	Co-Chair, ACR Annual Meeting Abstracts “Epidemiology & Public Health”
2019-2021	Search committee for Division Chief of Pulmonary, Critical Care, Sleep, and Allergy, UNMC (Chair: Troy Plumb, MD)
2019-present	Executive committee member, Veterans Affairs Rheumatoid Arthritis Registry
2019-2020	UNMC CRANE/I2B2 Super User and CRANE/I2B2 trainer
2021-2022	Research committee member, USSONAR
2021-present	Advisory panel member, UNMC Mentored Scholars Program

2021-2023	Co-PI, Rheumatoid Arthritis Non-Pharmacologic Treatment Guidelines, American College of Rheumatology
2021-present	Research & Publications Subcommittee, American College of Rheumatology (Chair: Christie Bartels, MD, MS)
2022-present	Leadership Committee, Great Plains IDeA-CTR Professional Development Core
2022-present	Lead, Scientific Method Task Force, UNMC College of Medicine
2022-present	Guideline Subcommittee, American College of Rheumatology (Chair: Michael George, MD, MSCE)
2022-present	Alternate Member, Research & Development Committee VA NWHCS
2023-2025	Co-Chair, ACR Convergence Abstracts “Rheumatoid Arthritis – Diagnosis, Manifestations, & Outcomes”

Study Sections

<u>Year</u>	<u>Study Section</u>
2017-present	UNMC Internal Medicine Scientist Development Award
2021	Early Career Reviewer, Arthritis Connective Tissue and Skin Study Section, NIAMS
2021	Great Plains IDeA-CTR Research Scholars Award
2022	Rheumatology Research Foundation RISE Pilot Project Award
2022	Ad hoc reviewer, Department of Defense FY22 Peer Reviewed Medical Research Program (PRMRP) Pre-Application Screening
2022	Ad hoc reviewer, Department of Defense FY22 PRMRP Programmatic Review II, Autoimmune Disorders and Infectious Diseases
2022	Ad hoc reviewer, Rheumatology Research Foundation Future Physician Scientist Award
2023	Ad hoc reviewer, Patient Centered Outcomes Research Institute (PCORI) PLACER Merit Review Awards

Other

<u>Year</u>	<u>Activity</u>
2016-2017	USSONAR (Ultrasound School of North American Rheumatologists) Fellow Participant
2016-2017	Question Writer, Continuing Assessment Review Evaluation (CARE) 2017, American College of Rheumatology
2017-2018	Question Writer, CARE 2018, American College of Rheumatology
2018-present	Mentor, Creating Adult Rheumatology Mentorship in Academia (CARMA)
2018-2019	Question Writer, CARE 2019, American College of Rheumatology
2019-2020	Question Writer, CARE 2020, American College of Rheumatology
2020-2021	Section Editor - RA, CARE 2021, American College of Rheumatology
2021-2022	Section Editor – RA, CARE 2022, American College of Rheumatology
2022-2023	UNMC iLead Participant (2023 Graduate)

PEER REVIEW IN LAST THREE YEARS:

<u>Year</u>	<u>Publication</u>
2016-present	Arthritis Care & Research
2016	Therapeutic Advances in Musculoskeletal Disease
2017-present	PLoS ONE
2017-present	Seminars in Arthritis and Rheumatism

2017	Journal of Clinical Rheumatology
2017-present	Journal of Rheumatology
2018-present	Arthritis & Rheumatology
2018	Arthritis Research & Therapy
2018-present	Clinical Rheumatology
2018	Mayo Clinic Proceedings
2019	Clinical Therapeutics
2019-present	Annals of Internal Medicine
2020	Scientific Reports
2020-present	Rheumatology
2020-present	RMD Open
2021-present	Annals of the Rheumatic Diseases
2021-present	ACR Open Rheumatology
2022	Pharmacoepidemiology & Drug Safety
2022	New England Journal of Medicine
2023	Scandinavian Journal of Rheumatology

EDITORIAL BOARDS:

<u>Year</u>	<u>Details</u>
2017	Guest Academic Editor, PLoS ONE
2019-present	Editorial Board - <i>Arthritis Care & Research</i> 2019-2021 term 2022-2024 term
2020	Section Editor – Rheumatoid Arthritis, <i>Current Opinion in Rheumatology</i>
2020-2022	Section Editor – Rheumatoid Arthritis, Continuing Assessment Review Evaluation (American College of Rheumatology)
2020-2022	Guest Editor “Environmental risks and rheumatic disease”, <i>Rheumatic Disease Clinics of North America</i>

COMMUNITY SERVICE:

<u>Year</u>	<u>Details</u>
2012-2017	Volunteer, Zion Congregational Church
2018-2020	Volunteer, Christ Community Church Youth Program
2019-2022	Coach, Westgate/Westside Athletic Association Youth Baseball/Softball
2022-2023	Coach, JCC Little Lions Basketball
2022-2023	Coach, Jr Warriors Basketball

BIBLIOGRAPHY:

Underlined names indicate trainees.

Original Articles:

1. **England BR**, Sayles H, Mikuls TR, Johnson DS, Michaud K. Validation of the Rheumatic Disease Comorbidity Index in rheumatoid arthritis. *Arthritis Care Res* 2015; 67: 865-72. PMID: [25186344](#)
2. **England BR**, Michaud K, Sayles H, Caplan L, Davis L, Cannon GW, Sauer B, Solow E, Reimold A, Kerr GS, Schwab P, Baker J, Mikuls TR. Cause-Specific Mortality in US Veteran Men with Rheumatoid Arthritis. *Arthritis Care Res* 2016; 68: 36-45. PMID: [26097231](#)
3. **England BR**, Sokolove J, Robinson WH, Thiele GM, Ganti AK, Sayles H, Michaud K, Caplan L, Davis LA, Cannon GW, Sauer B, Solow EB, Reimold A, Kerr GS, Schwab P, Baker JF, Mikuls TR. Associations of Circulating Cytokines and Chemokines with Cancer Mortality in Men with Rheumatoid Arthritis. *Arthritis Rheumatol* 2016 68(10):2394-402. PMID: [27111000](#).
*2017 "Publication of the Quarter" Department of Internal Medicine, UNMC
4. George MD, Giles JT, Katz PP, **England BR**, Mikuls TR, Michaud K, Ogdie-Beatty AR, Ibrahim S, Cannon GW, Caplan L, Sauer BC, Baker JF. The impact of obesity and adiposity on inflammatory markers in patients with rheumatoid arthritis. *Arthritis Care Res* 2017; 69(12):1789-1798. PMID: [28393498](#)
5. **England BR**, Baker JF, Sayles H, Michaud K, Caplan L, Davis LA, Cannon GW, Sauer BC, Solow EB, Reimold AM, Kerr GS, Mikuls TR. Body Mass Index, Weight Loss, and Cause-Specific Mortality in Rheumatoid Arthritis. *Arthritis Care Res* 2018; 70(1):11-18. PMID: [28426913](#)
6. Ozen G, Kamen DL, Mikuls TR, **England BR**, Wolfe F, Michaud K. Trends and Determinants of Osteoporosis Treatment and Screening in Patients with Rheumatoid Arthritis Compared to Osteoarthritis. *Arthritis Care Res* 2018; 70(5):713-723. PMID: [28771973](#)
7. **England BR**, Mikuls TR, Xie F, Yang S, Chen L, Curtis JR. Herpes zoster as a risk factor for giant cell arteritis. *Arthritis Rheumatol* 2017; 69(12):2351-2358. PMID: [28853238](#)
8. Baker JF, Sauer B, Teng J, George M, Cannon GW, Ibrahim S, Cannella A, **England BR**, Michaud K, Caplan L, Davis LA, O'Dell JR, Mikuls TR. Initiation of Disease Modifying Therapies in Rheumatoid Arthritis is Associated with Changes in Blood Pressure. *Journal of Clin Rheumatol* 2017; 24(4):203-209. PMID: [29664818](#).
9. Mikuls TR, Duryee MJ, **England BR**, Anderson DR, Hearth-Holmes M, Su K, Michaud K, Payne JB, Sayles H, Hunter C, McGowan JD, Klassen LW, Thiele GM. Malondialdehyde-acetaldehyde antibody concentrations in rheumatoid arthritis and other rheumatic conditions. *International Immunopharmacology* 2018; 56:113-118. PMID: [29414640](#)

10. Wood PR, Manning E, Baker JF, **England B**, Davis L, Cannon GW, Mikuls TR, Caplan L. Blood glucose changes surrounding initiation of tumor-necrosis factor inhibitors and conventional disease-modifying anti-rheumatic drugs in veterans with rheumatoid arthritis. *World Journal of Diabetes* 2018; 9(2):53-58. PMID: [29531640](#)
11. Baker JF, **England BR**, Mikuls TR, Sayles H, Cannon GW, Sauer BC, George MD, Caplan L, Michaud K. Obesity, weight loss, and progression of disability in rheumatoid arthritis. *Arthritis Care Res* 2018; 70(12):1740-1747. PMID: [29707921](#)
12. George MD, Sauer BC, Teng CC, Cannon GW, **England BR**, Kerr GS, Mikuls TR, Baker JF. Biologic and glucocorticoid use after methotrexate initiation in patients with rheumatoid arthritis. *J Rheumatol* 2018; 46(4):343-350. PMID: [30275262](#)
13. **England BR**, Sayles H, Michaud K, Thiele GM, Poole JA, Caplan L, Sauer BC, Cannon GW, Reimold A, Kerr GS, Baker JF, Mikuls TR. Chronic lung disease in U.S. Veterans with rheumatoid arthritis and the impact on survival. *Clinical Rheumatology* 2018; 37(11):2907-2915. PMID: [30280369](#).
14. Johnson T, Register KA, O'Dell JR, Mikuls TR, Michaud K, **England BR**. Correlation of the multi-biomarker disease activity score with rheumatoid arthritis disease activity measures: A systematic review and meta-analysis. *Arthritis Care & Research*, 2019; 71(11):1459-1472. PMID: [30320973](#).
15. McCulley CB, Barton JL, Cannon GW, Sauer BC, Teng CC, George MD, Caplan L, **England BR**, Mikuls TR, Baker JF. Body mass index and persistence of conventional DMARDs and TNF inhibitors in rheumatoid arthritis. *Clin Exp Rheumatol*, 2019; 37(3):422-428. PMID: [30418120](#).
16. Baker JF, Stokes A, Mikuls TR, George M, **England BR**, Sayles H, Michaud K. Current and Early Life Weight and Associations with Mortality in Rheumatoid Arthritis. *Clin Exp Rheum*, 2019; 37(5):768-773. PMID: [30719967](#).
17. Maloley PM, **England BR**, Sayles H, Thiele GM, Michaud K, Sokolove J, Cannon GW, Reimold AM, Kerr GS, Baker JF, Caplan L, Case AJ, Mikuls TR. Post-traumatic stress disorder and serum cytokine and chemokine concentrations in patients with rheumatoid arthritis. *Semin Arthritis Rheum*, 2019; 49(2):229-235. PMID: [30777365](#).
18. Zhao M, Mauer L, Sayles H, Cannon GW, Reimold A, Kerr GS, Baker JF, Thiele GM, **England BR**, Mikuls TR. HLA-DRB1 haplotypes, Shared Epitope, and Disease Outcomes in US Veterans with Rheumatoid Arthritis. *J Rheumatol* 2019; 46(7):685-693. PMID: [30824656](#).
19. Maynard C, Mikuls TR, Cannon GW, **England BR**, Conaghan PG, Ostergaard M, Baker DG, Kerr G, George MD, Barton JL, Baker JF. Sex Differences in the Achievement of Remission and Low Disease Activity in Rheumatoid Arthritis. *Arthritis Care Res* 2020; 72(3):326-333. PMID: [30875461](#).
20. Baker JF, **England BR**, Mikuls TR, Hsu JY, George MD, Pedro S, Sayles H, Michaud K. Changes in Alcohol Use and Associations with Disease Activity, Health Status, and

- Mortality in Rheumatoid Arthritis. *Arthritis Care Res* 2020; 72(3):301-308. PMID: [30891938](#).
21. **England BR**, Duryee MJ, Roul P, Mahajan TD, Singh N, Poole JA, Ascherman DP, Caplan L, Demoruelle MK, Deane KD, Klassen LW, Thiele GM, Mikuls TR. Malondialdehyde-Acetaldehyde Adducts and Antibody Responses in Rheumatoid Arthritis-Interstitial Lung Disease. *Arthritis Rheumatol*, 2019; 71(9):1483-1493. PMID: [30933423](#).
 22. Poole JA, Thiele GM, Janike K, Nelson AJ, Duryee MJ, Rentfro K, **England BR**, Romberger DJ, Carrington JM, Wang D, Swanson BJ, Klassen LW, Mikuls TR. Combined Collagen-Induced Arthritis and Organic Dust-Induced Airway Inflammation to Model Inflammatory Lung Disease in Rheumatoid Arthritis. *J Bone Miner Res*, 2019; 34(9):1733-1743. PMID: [30995344](#).
 23. Singh N, Varghese J, **England BR**, Solomon JJ, Michaud K, Mikuls TR, Healy HS, Kimpston EM, Schweizer ML. Impact of the Pattern of Interstitial Lung Disease on Mortality in Rheumatoid Arthritis: A Systematic Literature Review and Meta-Analysis. *Semin Arthritis Rheum* 2019; 49(3):358-365. PMID: [31153706](#).
 24. Chiou A, **England BR**, Sayles H, Thiele GM, Duryee MJ, Baker JF, Singh N, Cannon GW, Kerr GS, Reimold A, Gaffo A, Mikuls TR. Coexistent Hyperuricemia and Gout in Rheumatoid Arthritis: Associations with Comorbidities, Disease Activity and Mortality. *Arthritis Care & Res* 2020; 72(7):950-958. PMID: [31074584](#)
 25. Ozen G, Pedro S, **England BR**, Mehta B, Wolfe F, Michaud K. Risk of serious infection in patients with rheumatoid arthritis treated with biologic versus non-biologic disease-modifying anti-rheumatic drugs. *ACR Open Rheumatology*, 2019; 1(7):424-432. PMID: [31777822](#).
 *Top 10% downloaded publications of 2018-2019
 26. **England BR**, Roul P, Mahajan TD, Singh N, Yu F, Sayles H, Cannon GW, Sauer B, Baker JF, Curtis JR, Mikuls TR. Accuracy of Administrative Algorithms to Identify Interstitial Lung Disease in Rheumatoid Arthritis. *Arthritis Care & Res* 2019 [Epub ahead of print]. PMID: [31421018](#).
 27. Kass DJ, Nouraie M, Glassberg MK, Ramreddy N, Fernandez K, Harlow L, Zhang Y, Chen J, Kerr GS, Reimold AM, **England BR**, Mikuls TR, Gibson KF, Dellaripa PF, Rosas IO, Oddis CV, Ascherman DP. Comparative Profiling of Serum Protein Biomarkers in Rheumatoid Arthritis-Associated Interstitial Lung Disease and Idiopathic Pulmonary Fibrosis. *Arthritis Rheumatol* 2020; 72(3):409-419. PMID: [31532072](#).
 28. **England BR**, Tiong BK, Bergman MJ, Curtis JR, Kazi S, Mikuls TR, O'Dell JR, Ranganath VK, Limanni A, Suter L, Michaud K. 2019 Update of the American College of Rheumatology Recommended Rheumatoid Arthritis Disease Activity Measures. *Arthritis Care & Res*, 2019; 71(12):1540-1555. PMID: [31709779](#).
 *Top 10% downloaded publications of 2018-2019, 2019-2020
 *Top Cited Article 2019-2020

29. Zhou DJ, Mikuls TR, Schmidt C, **England BR**, Bergman DA, Rizzo M, Merickel J, Michaud K. Driving Ability and Safety in Rheumatoid Arthritis: A Systematic Review. *Arthritis Care & Res* 2021;73(4):89-497. PMID: [31909890](#).
30. Aslam F, **England BR**, Cannella AC, Sharp V, Kao L, Arnason J, Albayda J, Bakewell C, Sanghvi S, Fairchild R, Torralba K, Evangelisto A, DeMarco P, Bethina N, Kissin E. Ultrasound Doppler and Tenosynovial Fluid Analysis in Tenosynovitis. *Annals Rheum Dis* 2020; 79(7):908-913. PMID: [32213497](#).
31. Thiele GM, Duryee MJ, Hunter CD, **England BR**, Fletcher BS, Daubach EC, Pospisil TP, Klassen LW, Mikuls TR. Immunogenic and inflammatory responses to citrullinated proteins are enhanced following modification with malondialdehyde-acetaldehyde adducts. *International Immunopharm* 2020; 80:106433. PMID: [32224441](#).
32. Michaud K, Wipfler K, Shaw Y, Simon TA, Cornish A, **England BR**, Ogdie A, Katz P. Experiences of Patients with Rheumatic Diseases in the US During Early Days of the COVID-19 Pandemic. *ACR Open Rheumatol* 2020; 2(6):335-343. PMID: [32311836](#).
**Top cited article 2020-2021*
**Top 10 most downloaded articles 2019-2020*
33. Baker JF, Stokes A, Pedro S, Mikuls TR, George M, **England BR**, Sayles H, Wolfe F, Michaud K. Obesity and the Risk of Incident Chronic Opioid Use in Rheumatoid Arthritis. *Arthritis Care & Res* 2021; 73(10):1405-1412. PMID: [32475039](#).
34. Helget LN, **England BR**, Roul P, Sayles H, Petro AD, Michaud K, Mikuls TR. The Incidence, Prevalence, and Burden of Gout in the Veterans Health Administration. *Arthritis Care & Res* 2021; 73(9):1363-1371. PMID: [32475070](#).
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106. Baker J, **England B**, George M, Wysham K, Kerr G, Reimold A, Monach P, Kunkel G, Sauer B, Hamilton B, Hunter C, Duryee M, Thiele G, Mikuls T. Elevations in Adipocytokines and Mortality in Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol*. 2021; 73 (suppl 10).
107. Gregory A, Kliment C, Thiele G, Duryee M, Mikuls T, **England B**, Poole J, Ascherman D. Cigarette Smoking Induces Post-translational Protein Modifications in Both in Vitro and in Vivo Models of Rheumatoid Arthritis-associated Interstitial Lung Disease [abstract]. *Arthritis Rheumatol* 2021; 73 (suppl 10).

108. Johnson T, Yang Y, Mahabir C, Goldsweig A, Roul P, Baker J, Sauer B, Cannon G, Mikuls T, **England B**. Risk of Aortic Stenosis and Undergoing Aortic Valve Replacement in Rheumatoid Arthritis: An Underrecognized Cardiovascular Complication [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
109. Helget L, O'Dell J, Newcomb J, Androsenko M, Brophy M, Davis-Karim A, **England B**, Ferguson R, Pillinger M, Neogi T, Palevsky P, Wu H, Mikuls T. Health-Related Quality of Life Improvements Resulting from a Treat-to-Target Strategy in the Management of Gout: Post- Hoc Analysis of a Multicenter, Randomized, Double-Blind, Non-Inferiority Trial [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
110. Singh N, Peterson A, Baraff A, Chung S, Coffey D, **England B**, Reid P, Baker J, Barton J, Smith N, Mikuls T, Weiss N. Use of Disease Modifying Anti-rheumatic Drugs and Risk of Multiple Myeloma in US Veterans with Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
111. Helget L, Davis-Karim A, O'Dell J, Mikuls T, Newcomb J, Androsenko M, Brophy M, **England B**, Ferguson R, Pillinger M, Neogi T, Wu H, Palevsky P. Efficacy and Safety of Allopurinol and Febuxostat in Patients with Gout and Chronic Kidney Disease: A Subgroup Analysis of the STOP Gout Study [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
112. Luedders B, Roul P, Yang Y, Cope B, DeVries M, Campbell W, Hershberger D, Rojas J, Cannon G, Sauer B, Baker J, Curtis J, Mikuls T, **England B**. Natural Language Processing of Chest CT Reports as a Novel Method of Identifying RA-ILD in Real-World Data [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
113. Kass D, Nourai M, Zhang Y, **England B**, Mikuls T, Kerr G, Reimold A, Gibson K, Glassberg M, Dellaripa P, Doyle T, Oddis C, Ascherman D. Idiopathic Pulmonary Fibrosis Molecular Profile Correlates with Stage of Rheumatoid Arthritis-Associated Interstitial Lung Disease [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
114. Johnson T, Yang Y, Roul P, Alonso W, Baker J, Sauer B, Cannon G, Mikuls T, **England B**. An Increased Risk of Heart Failure and Heart Failure-Related Death Persists in Rheumatoid Arthritis: A National, Matched Cohort Study from 2000 to 2019 [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
115. Wallace B, **England B**, Baker J, Kunkel G, Braaten T, Rojas J, Petro A, Roul P, Mikuls T, Sauer B, Cannon G. Lowering Expectations: Glucocorticoid Tapering Among Veterans with Rheumatoid Arthritis Achieving Low Disease Activity on Stable Biologic Therapy [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
116. Dolomisiewicz A, Ali H, Roul P, Yang Y, Cannon G, Baker J, Mikuls T, Michaud K, **England B**. Updating and Validating the Rheumatic Disease Comorbidity Index to Incorporate ICD-10 Diagnostic Codes [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).

117. Curtis J, Su Y, Clinton C, Stewart P, **England B**, Buekelman T, Xie F. Primary Non-adherence to Biologics and Immunomodulatory Therapies for Rheumatoid Arthritis, Psoriatic Arthritis, and Spondyloarthritis Using Linked EHR and Pharmacy Claims Data [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
118. Dutt S, Roul P, Yang Y, Michaud K, Sauer B, Cannon G, Baker J, Curtis J, Mikuls T, **England B**. Distinct Patterns of Multimorbidity Are Associated with Longitudinal Disease Activity and Functional Status in a Multicenter, Prospective Rheumatoid Arthritis Cohort [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
119. Singh N, Gold L, Wysham K, Andrews J, Reid P, Makris U, **England B**, Lee J, George M, Baker J, Jarvik J, Heagerty P, Singh S. Frailty Is Associated with Serious Infections in Biologic and Targeted-synthetic DMARD Treated Patients with Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
120. Johnson T, Gundry R, Lindsey M, Roul P, Yang Y, Baker J, Sauer B, Cannon G, Thiele G, Mikuls T, **England B**. Machine Learning Identifies Molecular Phenotypes That Predict Incident Cardiovascular Disease in Patients with Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
121. Wallace B, Gao Y, Kim H, Roul P, Mikuls T, Clauw D, **England B**, Baker J, Sauer B, Cannon G, Cohen-Mekelberg S, Wiitala W, Sussman J, Hayward R, Waljee A. Time-Dependent Evaluation of Glucocorticoid Exposure Duration and Major Adverse Cardiovascular Events in a Cohort of Veterans with Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
122. Johnson T, Helget L, Sayles H, Roul P, O'Dell J, Mikuls T, **England B**. Poor Serum Urate Control Is a Driver of Excess Cardiovascular Risk in Patients with Gout [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
123. Wheeler A, Yang Y, Baker J, Poole J, Ascherman D, Kerr G, Reimold A, Kunkel G, Cannon G, Wysham K, Singh N, Lazaro D, Monach P, Bridges, Jr. S, Mikuls T, **England B**. Genetic and Environmental Risk Factors in Rheumatoid Arthritis-Associated Interstitial Lung Disease [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
124. Helget L, O'Dell J, Newcomb J, Androsenko M, Brophy M, Davis-Karim A, **England B**, Ferguson R, Pillinger M, Neogi T, Palevsky P, Wu H, Mikuls T. Race and Disease Severity Predict Reduced Response to Treat-to-Target Urate Lowering Therapy in Gout: Post-hoc Analysis of a Multicenter, Randomized, Double-Blind, Non-Inferiority Trial [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
125. Luedders B, Ascherman D, Baker J, Duryee M, Yang Y, Roul P, Wysham K, Monach P, Reimold A, Kerr G, Kunkel G, Cannon G, Poole J, Thiele G, Mikuls T, **England B**. Higher Matrix Metalloproteinase Levels Are Predictive of Incident Interstitial Lung Disease Among a Cohort of US Veterans with Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).

126. Ramler E, Mikuls T, Thiele G, Nelson A, Duryee M, Gaurav R, Wyatt T, Schwabb A, hunter c, **England B**, Poole J. Combination of Repetitive Inhalant Endotoxin Exposure and Collagen-induced Arthritis Interact in a Testosterone-dependent Manner to Drive Inflammatory Lung Disease Processes and Arthritis Severity in Mice [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
127. Aripova N, Reed G, **England B**, Robinson W, Pappas D, Kremer J, Thiele G, Mikuls T. An Expanded Anti-citrullinated Protein Antibody Profile Derived Using Unsupervised Machine Learning Predicts Treatment Responses to Biologic Therapies in Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
128. Desilet L, Sayles H, Roul P, Barton J, Kerr G, Michaud K, Mikuls T, **England B**. Association of Urban vs. Rural Residence with New DMARD Initiation in US Veterans with Active Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
129. Fletcher B, Roul P, Yang Y, Sauer B, Rojas J, Cannon G, Baker J, Mikuls T, **England B**. Epidemiology of Rheumatoid Arthritis and Rheumatoid Arthritis-Interstitial Lung Disease in the Veterans Health Administration from 2004 to 2018 [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
130. Naik A, Wysham K, **England B**, Roul P, George M, Baker J, Barton J, Liew J, Makris U, Kerr G, Cannon G, Mikuls T, Singh N. Escalation to Biologics After Methotrexate Among US Veterans with Rheumatoid Arthritis Living in Rural versus Urban Areas [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
131. Brooks R, Yang Y, Roul P, Luedders B, Singh N, Sauer B, Cannon G, Baker J, Mikuls T, **England B**. Increased Risk of Lung Cancer in Rheumatoid Arthritis and Rheumatoid Arthritis-Associated Interstitial Lung Disease: A Matched Cohort Study with Cancer Registry Linkage [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
132. **England B**, George M, Yang Y, Roul P, Rojas J, Sauer B, Cannon G, Baker J, Curtis J, Mikuls T. Influence of Forced Vital Capacity Impairment on Treatment Selection and Outcomes in RA-ILD Patients Initiating a Biologic or Targeted-Synthetic DMARD [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
133. Aripova N, Duryee M, Daubach E, hunter c, **England B**, O'Dell J, Mikuls T, Thiele G. Supernatants from Activated Macrophages Contain Citrullinated Vimentin and Induce Extracellular Matrix Deposition from Fibroblasts [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
134. Poole J, **England B**, Cole K, Talmadge J, Nelson A, Gaurav R, Schwabb A, Gleason A, Duryee M, Walenz R, Kramer B, VanDeGraaff J, May S, Thiele G, Mikuls T. Identification of Distinct Peripheral Blood Myeloid Cell Subpopulations in Patients with Rheumatoid Arthritis-associated Interstitial Lung Disease [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
135. Aripova N, Duryee M, hunter c, **England B**, Romberger D, O'Dell J, Thiele G, Mikuls T. Peptidyl Arginine Deiminase Expression and Macrophage Polarization Following

- Stimulation with Citrullinated and Malondialdehyde-acetaldehyde Modified Fibrinogen [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
136. Braaten T, Sauer B, Kunkel G, Walsh J, Rojas J, **England B**, Baker J, Cannon G. No Impact of Prior DMARD Exposures on Mortality in US Veterans with Cancer Treated with Immune Checkpoint Inhibitors [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
137. Jones S, Aripova n, Duryee M, Ragland A, **England B**, Mikuls T, Thiele G. Malondialdehyde-Acetaldehyde (MAA) Modified Matrix Gla Protein (MGP) Increases Citrullination by Human Macrophages [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
138. Baker J, Wysham K, **England B**, Roul P, Lenert A, Cannon G, Sauer B, Thiele G, Mikuls T. Serum Adipokines Predict Incident Osteoporotic Fracture in Patients with Rheumatoid Arthritis [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).
139. Helget L, **England B**, Roul P, Sayles H, Petro A, Neogi T, O'Dell J, Mikuls T. Factors Driving Opioid Use in United States Veterans with Gout [abstract]. *Arthritis Rheumatol.* 2022; 74 (suppl 9).

Abstracts – Oral Presentations

1. **England BR**, Sokolove J, Robinson WH, Thiele GM, Ganti AK, Sayles H, Michaud K, Caplan L, Davis LA, Cannon GW, Sauer B, Solow EB, Reimold A, Kerr GS, Schwab P, Baker JF, Mikuls TR. Circulating cytokine/chemokine concentrations predict cancer mortality in men with rheumatoid arthritis.
2015 American College of Rheumatology Annual Meeting, San Francisco, CA.
2. **England BR**, Sayles H, Michaud K, Caplan L, Davis LA, Cannon GW, Sauer BC, Solow EB, Reimold AM, Kerr GS, Schwab P, Baker JF, Singh N, Mikuls TR. Associations of chronic lung comorbidity with medications, disease activity, and all-cause mortality in rheumatoid arthritis.
2016 American College of Rheumatology Annual Meeting, Washington, D.C.
3. **England BR**, Mikuls TR, Xie F, Yang S, Chen L, Curtis JR. Herpes zoster and the risk of incident giant cell arteritis.
2016 American College of Rheumatology Annual Meeting, Washington, D.C.
4. **England BR**, Pedro S, Mikuls TR, Michaud K. Biologic and small molecule therapies in rheumatoid arthritis and risk of cancer: A large US cohort study.
2016 American College of Rheumatology Annual Meeting, Washington, D.C.
5. **England BR**, Thiele GM, Duryee M, Ascherman D, Caplan L, Demoruelle MK, Deane K, Mikuls TR. Increased expression of malondialdehyde-acetaldehyde adducts and anti-MAA antibody in rheumatoid arthritis-interstitial lung disease.
2017 American College of Rheumatology Annual Meeting, San Diego, CA
6. **England BR** on behalf of the ACR RA disease activity measures working group. Update on the ACR Recommended Disease Activity Measures.

2017 American College of Rheumatology Annual Meeting, San Diego, CA

7. **England BR**, Sayles H, Roul P, Ganti A, Sokolove J, Robinson WH, Cannon GW, Sauer B, Baker JF, Thiele GM, Mikuls TR. Serum cytokine/chemokine concentrations predict incident cancer in US Veterans with rheumatoid arthritis.
2018 American College of Rheumatology Annual Meeting, Chicago, IL
8. **England BR**, Roul P, Yu F, Sayles H, Michaud K, Xie F, Curtis J, Mikuls T. Trajectory of multimorbidity in rheumatoid arthritis in a U.S. commercial insurance claims database from 2006-2015.
2019 American College of Rheumatology Annual Meeting, Atlanta, GA
9. **England BR**, Yun H, Chen L, Michaud K, Mikuls TR, Curtis JR. Multimorbidity in Rheumatoid Arthritis, Psoriatic Arthritis, Gout, and Osteoarthritis within the Rheumatology Informatics System for Effectiveness (RISE) Registry.
2020 American College of Rheumatology Convergence, Virtual
10. **England BR**, Thiele G, Ascherman D, Duryee M, Hunter C, Yang Y, Roul P, Sayles H, Reimold A, Kerr G, Baker J, Poole J, Mikuls T. Antibodies to Malondialdehyde-Acetaldehyde (MAA) Modified Proteins Predict Incident RA-ILD.
2021 American College of Rheumatology Convergence, Virtual
11. **England BR**, Yang Y, Roul P, Haas C, Sayles H, Yu F, Sauer B, Baker J, Michaud K, Curtis J, Mikuls T. Patient Clustering Based on Multimorbidity Patterns Predicts Healthcare Utilization and Mortality in Rheumatoid Arthritis within Independent Real-World Datasets.
2021 American College of Rheumatology Convergence, Virtual
12. Wheeler A, Poole A, Baker J, Ascherman D, Kerr G, Reimold A, Kunkel G, Wysham K, Singh N, Lazaro D, Monach P, Mikuls T, **England BR**. Genetic and Environmental Risk Factors in Rheumatoid Arthritis-Associated Interstitial Lung Disease.
2022 VISN23 Research Meeting, St. Paul, MN
13. Fletcher B, Roul P, Yang Y, Sauer B, Rojas J, Cannon G, Baker J, Mikuls T, **England B**. Epidemiology of Rheumatoid Arthritis and Rheumatoid Arthritis-Interstitial Lung Disease in the Veterans Health Administration from 2004 to 2018.
2022 American College of Rheumatology Convergence, Philadelphia, PA

Presentations: (See also “Listing of Continuing Education Lectures” under Teaching Activities)

<u>Year</u>	<u>Title</u>
11/2014	UNMC Internal Medicine Senior Seminar “Predicting mortality by examining the hands”
9/2015	UNMC Rheumatology Fellow Talk “Novel Biomarkers in Rheumatoid Arthritis”
9/2015	2015 Veterans Affairs Rheumatoid Arthritis Registry meeting “Serum biomarkers and cause-specific mortality”
12/2015	UNMC Rheumatology Fellow Talk “Rheumatoid Arthritis Associated Respiratory Disease, More than Meets the ILD”
3/2016	UNMC Rheumatology Fellow Talk “DMARDs and Respiratory Disease in RA: Cause, Treatment, or Both?”

- 4/2016 UNMC Rheumatology and Arthritis Investigational Network Symposium “Gout, RA, or Both?”
- 6/2016 UNMC Internal Medicine Research Council “Research and Trainee Involvement in Mentored Scholars Program”
- 6/2016 Infectious Disease City Wide Meeting “Rheumatic Manifestations of Chikungunya Virus”
- 6/2016 UNMC Eppley Institute for Research in Cancer, Lab Meeting “Using Cytokines and Chemokines to Predict Cancer in Rheumatoid Arthritis”
- 9/2016 2016 Veterans Affairs Rheumatoid Arthritis Registry meeting “Biomarkers of incident cancer in RA”
- 9/2016 2016 Veterans Affairs Rheumatoid Arthritis Registry meeting “Biomarkers in extra-articular disease, severity, and mortality”
- 1/2017 UNMC Rheumatology Fellow Talk “ACPAs in RA: Pathogenic?”
- 4/2017 UNMC Rheumatology and Arthritis Investigational Network Symposium “Case Presentation: Tissue is the issue”
- 9/2017 2017 Veterans Affairs Rheumatoid Arthritis Registry meeting “Big Data Getting Bigger”
- 9/2017 2017 Veterans Affairs Rheumatoid Arthritis Registry meeting “Update: Identification and characterization of RA-lung disease”
- 9/2017 2017 Veterans Affairs Rheumatoid Arthritis Registry meeting “Update on National Death Index & VA Central Cancer Registry”
- 9/2017 2017 Veterans Affairs Rheumatoid Arthritis Registry meeting “Telerheumatology & VARA”
- 12/2017 UNMC Internal Medicine Grand Rounds – Publications of the Quarter “Associations of Circulating Cytokines and Chemokines with Cancer Mortality in Men with Rheumatoid Arthritis”
- 1/2018 UNMC Internal Medicine Grand Rounds – “Rheumatoid Arthritis in 2018: What doesn’t kill you makes you multimorbid”
- 4/2018 2018 RAIN Research Retreat – “8 Steps to Trainee Research Success & UNMC Resources to Help You Along the Way”
- 5/2018 UNMC Pulmonary Critical Care Sleep & Allergy Research Conference – “Identification of Rheumatoid Arthritis-Associated Lung Disease”
- 6/2018 Rheumatology Research Foundation Rheumatology Research Workshop (San Francisco, CA) – “Academic Medicine: Top 10 Questions You Didn’t Know to Ask”
- 8/2018 UNMC Internal Medicine Resident Research Interest Group “9 Steps to Trainee Research Success & UNMC Resources to Help You Along the Way”
- 9/2018 2018 Veterans Affairs Rheumatoid Arthritis Registry meeting “Update: Identification and Characterization of RA-lung disease”
- 9/2018 2018 Veterans Affairs Rheumatoid Arthritis Registry meeting “Targeting Multimorbidity in Rheumatoid Arthritis”
- 9/2018 2018 Veterans Affairs Rheumatoid Arthritis Registry meeting “VINCI, VACCR, NDI, and Other Acronyms”
- 9/2018 2018 Veterans Affairs Rheumatoid Arthritis Registry meeting “Finding Rheumatoid Arthritis in National VA Data and the Quest for Controls”
- 6/2019 UNMC Rheumatology & Immunology Summer Undergraduate Research Program Student Session “Preparing and Delivering a Killer Scientific Presentation”
- 6/2019 2019 Rheumatology Research Workshop, Washington, D.C. “Yes, There is Life After Funding! Managing Your Grant and Moving Projects Forward”

- 6/2019 2019 RRF Investigators Meeting, Washington, D.C.
“Leveraging RISE for Rheumatology Research: Multimorbidity in Rheumatoid Arthritis”
- 9/2019 2019 Veterans Affairs Rheumatoid Arthritis Registry meeting “RA-Associated Lung Disease: The Elephant in the Room”
- 9/2019 2019 Veterans Affairs Rheumatoid Arthritis Registry meeting “Lessons Learned from the VINCI Data Extraction Group”
- 9/2019 2019 Veterans Affairs Rheumatoid Arthritis Registry meeting “Update on Non-RA Controls and Other VA Datasets: Exploring the VA World and Beyond”
- 11/2019 2019 ACR/ARP Annual Meeting, Atlanta, GA
“After Funding: Tips on Successfully Managing Your Grant”
- 11/2019 2019 ACR/ARP Annual Meeting, Atlanta, GA
“Maintenance of Certification Session: Connective Tissue Disease-Interstitial Lung Disease”
- 5/2020 Virtual Rheumatology Learning Collaborative (ViRL) Webinar – ACR
“Clinical Study Design 101: Theory and Application”
- 8/2020 Rheumatology Research Foundation Summer Research Series, Virtual
“Multimorbidity in Rheumatoid Arthritis”
- 9/2020 2020 Veterans Affairs Rheumatoid Arthritis Registry meeting “Updates in RA-Associated Lung Disease”
- 9/2020 2020 Veterans Affairs Rheumatoid Arthritis Registry meeting “COVID-19 and Veterans with RA”
- 11/2020 American College of Rheumatology Convergence 2020, Virtual
“Tips on Successfully Managing Your Grant”
- 11/2020 American College of Rheumatology Convergence 2020, Virtual
“Overview of Guideline Development and Rationale for Topics Covered: Draft ACR 2020 Pharmacologic Treatment Recommendations for RA”
- 1/2021 UNMC Pulmonary, Critical Care, Sleep & Allergy Grand Rounds, “Making Progress Against Progression: RA-Lung Disease in 2021
- 1/2021 University of Alabama at Birmingham Comprehensive Arthritis, Musculoskeletal, Bone and Autoimmunity Center – “What Doesn’t Kill Our Patients, Only Makes Them Multimorbid”
- 2/2021 NHLBI/NIAMS Meeting on Airway Disease in Rheumatoid Arthritis –
“Bringing it all together, shared risk factors in RA-related lung diseases”
- 3/2021 Great Plains IDeA-CTR Seminar Series, Virtual – “Leveraging the Great Plains IDeA-CTR to Pursue Research Independence”
- 9/2021 2021 Veterans Affairs Rheumatoid Arthritis Registry Annual Meeting - “Hotrod Review & 2021 Upgrades”
- 9/2021 2021 Veterans Affairs Rheumatoid Arthritis Registry Annual Meeting - “RA-ILD in VARA”
- 11/2021 2021 American College of Rheumatology Convergence 2021, Virtual – Review Course: “RA Updates”
- 4/2022 UNMC Gilmore Symposium, “What Doesn’t Kill our RA Patients Only Makes them Multimorbid”
- 5/2022 Great Plains IDeA-CTR Multimorbidity Symposium, Virtual “Multimorbid Rheumatoid Arthritis”
- 7/2022 Virtual Rheumatology Learning Collaborative (ViRL) Webinar – ACR
“Epidemiology and Diagnosis of Rheumatoid Arthritis”
- 9/2022 2022 Veterans Affairs Rheumatoid Arthritis Registry Annual Meeting – “Data Potpourri”

9/2022	2022 Veterans Affairs Rheumatoid Arthritis Registry Annual Meeting – “Data Analytics Group Update”
9/2022	2022 Veterans Affairs Rheumatoid Arthritis Registry Annual Meeting – “RA-ILD Progression and Management Strategies”
9/2022	Brigham & Women’s Rheumatology Section of Clinical Sciences – “What Doesn’t Kill People with RA Makes them Multimorbid”
11/2022	American College of Rheumatology Convergence 2022 – “2022 American College of Rheumatology Guideline for Exercise, Rehabilitation, Diet, and Additional Integrative Interventions for Rheumatoid Arthritis”
12/2022	UNMC Internal Medicine Grand Rounds - “RA-ILD: Where are We (and it) Going?”
2/2023	UNMC MD, PhD Seminar – “Merging Medicine, Epidemiology, and Informatics to Address Systemic RA”
5/2023	VA NWIHCS Research Week – “Using Big Data to Study RA-ILD”

Published Audiovisual or Computer-Based Educational Materials and Computer Software: None

Published Continuing Education Material:

2016-2017	Question Writer, Continuing Assessment Review Evaluation (CARE) 2017, American College of Rheumatology
2017-2018	Question Writer, Continuing Assessment Review Evaluation (CARE) 2018, American College of Rheumatology
2018-2019	Question Writer, Continuing Assessment Review Evaluation (CARE) 2019, American College of Rheumatology
2019	Lead, Question Development, Continuing Assessment Review Evaluation (CARE) Maintenance of Certification Sessions, 2019 ACR/ARHP Annual Meeting
2019-2020	Question Writer, Continuing Assessment Review Evaluation (CARE) 2020, American College of Rheumatology
2020-2021	Section Editor – Rheumatoid Arthritis, Continuing Assessment Review Evaluation (CARE) 2021, American College of Rheumatology
2021-2022	Section Editor – Rheumatoid Arthritis, Continuing Assessment Review Evaluation (CARE) 2022, American College of Rheumatology

Invited Panelist:

7/2017	UNMC Summer Undergraduate Research Program Investigator Panel
10/2017	UNMC Resident Research Hour “Systematic Reviews & Meta-analysis”
10/2017	UNMC McGoogan Library “Systematic Reviews: What’s it all about?”
11/2019	RISE table representative – 2019 ACR/ARP Fellows-in-Training Session, Atlanta, GA
11/2020	American College of Rheumatology Convergence 2020, Virtual “Building Mentorship Networks”
11/2020	American College of Rheumatology Convergence 2020, Virtual “Discussion of New ACR Recommendations for the Management of Rheumatoid Arthritis”
2/2021	NHLBI/NIAMS Meeting on Airway Disease in Rheumatoid Arthritis, Virtual
4/2021	NRSG 937 “Tips on Grant Writing”
8/2021	RISE Summit, Virtual - “Getting the Most Out of RISE”
11/2021	American College of Rheumatology Convergence 2021, Virtual – “Meet the Expert: Managing Complexity and Multimorbidity in RA”
12/2021	UNMC Department of Internal Medicine – “Drafting and Submitting K Grants”
4/2022	CTR 903, “Mentored Scholars Program Presentations & Grant Reviews”

- 11/2022 American College of Rheumatology Convergence 2022 Fellows-in-Training Session, Philadelphia, PA – “Career Panel”
- 11/2022 American College of Rheumatology Convergence 2022 Fellows-in-Training Session, Philadelphia, PA – “Roundtable: Preparing an NIH Biosketch”

TEACHING ACTIVITIES:

Listing of Lectures Given in Team-Taught Courses:

- 12/2017 “Crystalline & Infectious Arthritis” - M1 Musculoskeletal Core
- 3/2018 “Rheumatoid Arthritis” – M2 Musculoskeletal Core
- 12/2018 “How to Intelligently Find and Interpret Medical Evidence” – M1 Musculoskeletal Core & Inquiry Coil
- 12/2019 “Crystalline & Infectious Arthritis” - M1 Musculoskeletal Core
- 12/2019 “How to Intelligently Find and Interpret Medical Evidence” – M1 Musculoskeletal Core & Inquiry Coil
- 8/2020 “Introduction to Medical Literature & Evidence Based Medicine” – M1 Fundamental Block & Inquiry Coil
- 12/2020 “How to Intelligently find and Interpret Medical Evidence” – M1 Musculoskeletal Core & Inquiry Coil
- 6/2021 “Strategies for Practicing Evidence Based Medicine” – Phase III Curriculum Enhancement Rotation, Medical Students Group A
- 7/2021 “Strategies for Practicing Evidence Based Medicine” – Phase III Curriculum Enhancement Rotation, Medical Students Group B
- 8/2021 “Introduction to Medical Literature & Evidence Based Medicine” – M1 Fundamental Block & Inquiry Coil
- 12/2021 “How to Intelligently find and Interpret Medical Evidence” – M1 Musculoskeletal Core & Inquiry Coil
- 4/2022 “Strategies for Practicing Evidence Based Medicine” – Phase III Curriculum Enhancement Seminars
- 8/2022 “Introduction to Medical Literature & Evidence Based Medicine” – M1 Fundamental Block & Inquiry Coil
- 9/2022 “Introduction to the Scientific Method” – M1 Fundamental Block & Inquiry Coil
- 12/2022 “How to Intelligently find and Interpret Medical Evidence” – M1 Musculoskeletal Core & Inquiry Coil

Listing of Courses for which I was Coordinator/Supervisor:

- 2016-2017 Small group leader, Problem Based Learning for M2 Rheumatology Core
- 2016-present Small group leader, Rheumatology Patient Experience M2 Rheumatology Core
- 2017-present Small group leader, Point-of-Care Ultrasound (Musculoskeletal) M1 Musculoskeletal Core
- 2017-present Small group leader, Rheumatology Patient Experience M1 Musculoskeletal Core
- 2017-2020 Proctor, M1 Musculoskeletal OSCE
- 2019-2020 Facilitator, Interprofessional Education (IPE), Total days = 3
March 1, 2019 – Spring, Year 2
August 21, 2019 – Fall, Year 1
February 12, 2020 – Spring, Year 1
- 2019-present Director, Monthly Nebraska Arthritis Outcomes Research Center Meeting
- 2022 Director, Great Plains IDeA-CTR Multimorbidity Symposium
- 2022-present Lead, Scientific Method Task Force, UNMC College of Medicine Curriculum

Information on Teaching of Graduate Students:

Graduate Student Committee Member

1. Nozima Aripova. MD/PhD Program. Dates: 7/2020-Current.
Committee Chair: Geoffrey Thiele, PhD.
2. Courtney Loecker, MSN, APRN. PhD in Nursing Program. Dates: 6/2021-Current.
Committee Chair: Lani Zimmerman, PhD, RN
3. Tate Johnson, MD. PhD in Clinical & Translational Research Program. Dates:
8/2021-Current.
Committee Chair: Bryant England, MD, PhD
4. Lindsay Helget, MD. MSIA in Clinical & Translational Research Program. Dates:
8/2021-Current
Committee Chair: Ted Mikuls, MD, MSPH
5. Brent Luedders, MD. MSIA in Clinical & Translational Research Program. Dates:
8/2022-Current.
Committee Chair: Bryant England, MD, PhD

Information on Teaching Activities Related to Those in Residency/Fellowship Training:

2017-present	Musculoskeletal Ultrasound Training of Rheumatology Fellows (didactic: 1 hr/week; hands-on: 1.5 hrs/wk)
2021-2022	Faculty leader, Internal Medicine Residency Journal Club

Listing of Lectures Given to Those in Residency/Fellowship Training:

7/2019	“Finding and Using Medical Literature” – Rheumatology Fellow Didactics
8/2019	“Clinical Study Design 101: Theory and Application” – Rheumatology Fellow Didactics
9/2019	“Study Design 101: Theory and Application to Resident Research – Part 1” – Internal Medicine Residency Research Interest Group Curriculum
10/2019	“Study Design 101: Theory and Application to Resident Research – Part 2” – Internal Medicine Residency Research Interest Group Curriculum
11/2019	“Connective Tissue Disease-Interstitial Lung Disease” – Rheumatology Fellow Didactics
5/2020	“Clinical Study Design 101: Theory and Application” - Virtual Rheumatology Learning Collaborative (ViRL) Webinar, ACR
8/2020	“Resident Research Using EHR Data: How to Get Started” – Internal Medicine Residency Research Interest Group Curriculum
9/2020	“Finding and Interpreting Medical Evidence” – Internal Medicine Residency Noon Conference
7/2021	“Clinical Study Design 101” – UNMC/Children’s Pediatrics Hospitalist Fellowship Curriculum
7/2021	“Finding and Using Medical Literature” – Rheumatology Fellow Didactics
8/2021	“Clinical Study Design 101: Theory and Application” – Rheumatology Fellow Didactics
5/2022	“Finding and Interpreting Medical Evidence” – Internal Medicine Residency Noon Conference

- 6/2022 “Internal Medicine Board Review: Rheumatoid Arthritis” – Internal Medicine Residency Board Review
- 9/2022 “Clinical Study Design 101: Theory and Application” – Rheumatology Fellow Didactics

Listing of Continuing Education Lectures/Courses Given:

- 11/2019 “Connective Tissue Disease-Interstitial Lung Disease” Maintenance of Certification Session at 2019 ACR Annual Meeting, Atlanta, GA
- 11/2021 “RA Updates” Review Course at 2021 ACR Convergence, Virtual

CLINICAL TEACHING (in ward, clinic or operating room):

<u>Year</u>	<u>Where Teaching Occurred</u>	<u>Weeks/yr</u>	<u>Hours/wk</u>
2017-present	VA DMARD clinic	50	4
2017-present	UNMC Rheumatology Clinic with MSUS	50	4
2018-present	Inpatient Consult Service (Staff)	4	15
2018-present	UNMC Autoimmune Lung Clinic	13	4