

## MELISSA MANNION CURRICULUM VITAE

**Date:** July 19, 2017

### PERSONAL INFORMATION:

Citizenship: U.S.A.  
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**RANK/TITLE:** Assistant Professor, Division of Pediatric Rheumatology  
Department: Pediatrics  
Business Address: Children's of Alabama (COA)  
Dept. of Pediatrics, Div. of Rheumatology  
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### EDUCATION:

2004	B.S. in Biology	The College of William and Mary
2008	M.D.	Eastern Virginia Medical School
2014	MSPH in Epidemiology	University of Alabama, Birmingham

### POSTDOCTORAL TRAINING:

2011-14	Fellow in Pediatric Rheumatology, University of Alabama at Birmingham
2009-11	Resident in Pediatrics, University of Alabama at Birmingham
2008-09	Intern in Pediatrics, University of Alabama at Birmingham

### ACADEMIC APPOINTMENTS:

2014-2015	Instructor, Pediatric Rheumatology, University of Alabama at Birmingham
2015	Adjunct Assistant Professor, Pediatrics, University of South Alabama
2015	Assistant Professor, Pediatric Rheumatology, University of Alabama at Birmingham

### LICENSURE:

Alabama (MD.29937)

### BOARD CERTIFICATION:

2011	American Board of Pediatrics
2015	American Board of Pediatrics, Pediatric Rheumatology

### **AWARDS/HONORS:**

- 2008 Abraham Jacobi Award for demonstrating genuine commitment to pediatrics, academic excellence, compassion, honesty, and sincere dedication to the care of children, Eastern Virginia Medical School, Department of Pediatrics
- 2011 Fellow-in-Training Scholarship to American College of Rheumatology annual scientific meeting
- 2012 Fellow-in-Training Scholarship to American College of Rheumatology State of the Art scientific meeting
- 2012 Fellow-in-Training Scholarship to American College of Rheumatology annual scientific meeting
- 2013 Fellow-in-Training Scholarship to American College of Rheumatology State of the Art scientific meeting
- 2013 Fellow-in-Training Scholarship to American College of Rheumatology annual scientific meeting
- 2013 American College of Rheumatology Distinguished Fellow Award
- 2014 Fellow-in-Training Scholarship to Pediatric Rheumatology Symposium (PRSYM)
- 2014 American College of Rheumatology Travel Grant to participate in OMERACT 12 conference

### **PROFESSIONAL SOCIETIES:**

- Alabama Society for Rheumatic Disease (2011-present)
- American Academy of Pediatrics (2008-present)
- American College of Rheumatology (2011-present)
- Society for Pediatric Research, Fellows section (2012 – present)
- Childhood Arthritis and Rheumatology Research Alliance (2011 – present)
- Pediatric Rheumatology Collaborative Study Group (2015 – present)

### **COUNCILS AND COMMITTEES:**

#### **Leadership Positions:**

- |                                     |  |
|-------------------------------------|--|
| November 1, 2012 – October 31, 2014 | American Academy of Pediatrics Section on Rheumatology Executive Committee, Post Residency Training Member |
| July 2013 – June 2015               | Childhood Arthritis and Rheumatology Research Alliance Fellows Committee                                   |
| November 2014 – October 2016        | American Academy of Pediatrics Section on Rheumatology Nominations Committee                               |
| January 2017 – present              | Pediatric Rheumatology Care and Outcomes Improvement Network (PR-COIN) UAB/COA Site Leader                 |
| February 2017 – present             | Arthritis Foundation Leadership Board Member   |
| June 2017 – present                 | Arthritis Foundation Medical Chair for Birmingham, AL  |

#### **University/Department Service:**

- |                         |  |
|-------------------------|--|
| February 2016 – present | Pediatric Rheumatology Scientific Review Committee |
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### **EDITORIAL POSITIONS:**

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| ad hoc reviewer for | Archives of Disease in Childhood,<br>Seminars in Arthritis and Research<br>BMC Cancer |
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abstract reviewer for  
American Journal of Epidemiology  
Pediatrics  
PLOS One  
Pediatric Rheumatology  
2016 CARRA Annual Scientific Meeting

**MAJOR RESEARCH INTERESTS:** My primary research interests are in epidemiologic analysis related to juvenile idiopathic arthritis (JIA). Specifically, I am interested in the use of medications to treat JIA, the outcomes of JIA in adulthood, and the comparative effectiveness of treatment modalities.

**EDUCATIONAL COURSES:**

2015 HCO628 Qualitative and Mixed Methods Research in Public Health, University of Alabama at Birmingham School of Public Health

**TEACHING EXPERIENCE:**

**CME/GRAND ROUNDS/EDUCATIONAL LECTURES:**

1. Lecturer, “Common Pediatric Biologics” - Pharmacy Continuing Education for the Children’s Hospital of Alabama, Birmingham, AL, August 2010
2. Course Lecturer, “Pediatric Patients” - UAB medical student Musculoskeletal Evaluation, Birmingham, AL, September 2011
3. Lecturer, “Non bacterial Osteitis” – Rheumatology Grand Rounds, UAB, Birmingham, AL January 2012
4. Lecturer, “Ultrasound in JIA patients in clinical remission” – Rheumatology Journal Club, UAB, Birmingham, AL, April 2012
5. Lecturer, “Episcleritis and Scleritis” – Rheumatology Grand Rounds, UAB, Birmingham, AL, June 2012
6. Course Lecturer, “Pediatric Patients” – UAB medical student Musculoskeletal Evaluation, Birmingham, AL, September 2012
7. Lecturer, “Parotitis” – Rheumatology Grand Rounds, UAB, Birmingham, AL, November 2012
8. Lecturer, “Randomized trial of Tocilizumab in systemic juvenile idiopathic arthritis” – Rheumatology Journal Club, UAB, Birmingham, AL, January 2013
9. Lecturer, “Varicella in immunocompromised patients” – Rheumatology Grand Rounds, UAB, Birmingham, AL, February 2013
10. Lecturer, “Rheumatology Review for Pediatric Residents” – Board Review, UAB, Birmingham, AL, May 2013
11. Lecturer, “Pericarditis” – Rheumatology Grand Rounds, UAB, Birmingham, AL, June 2013
12. Lecturer, “Parotitis” – Pediatric Resident Noon Conference, UAB, Birmingham, AL, October 2013
13. Lecturer, “Detection of Enthesitis in Children with Enthesitis-Related Arthritis” – Rheumatology Journal Club, UAB, Birmingham, AL January 2014
14. Lecturer, “Uveitis” – Rheumatology Grand Rounds, UAB, Birmingham, AL, February 2014

15. Lecturer, “Pediatric Rheumatology” – Pediatric Optometry Journal Club, UAB, Birmingham, AL, March 2014
16. Lecturer, “Rheumatology Review for Pediatric Residents” – Board Review, UAB, Birmingham, AL, March 2014
17. Lecturer, “Pediatric Rheumatology” – Pediatric Optometry Journal Club, UAB, Birmingham, AL, April 2014
18. Course Lecturer, “Pediatric Patients” – UAB medical student Musculoskeletal Evaluation, Birmingham, AL, September 2014
19. Lecturer, “The Biologic Basis of Clinical Heterogeneity in JIA” – Rheumatology Journal Club, UAB, Birmingham, AL, January 2015
20. Lecturer, “Rheumatology Review for Pediatric Residents” – Board Review, UAB, Birmingham, AL, March 2015
21. Course Lecturer, “Pediatric Patients” – UAB medical student Musculoskeletal Evaluation, Birmingham, AL, September 2015
22. Lecturer, “Ustekinumab – 2 trial results” – Rheumatology Journal Club, UAB, Birmingham, AL, January 2016
23. Invited Speaker, “An Update on JIA for the Primary Care Pediatrician” – University of South Alabama Pediatric Grand Rounds, Mobile, AL, December 2015
24. CME Course Lecturer, “Common Pediatric Vasculidites: HSP and Kawasaki Disease” – Springing into Pediatric Rheumatology Mini-Conference, Birmingham, AL, March 2016
25. Course Lecturer, “Pediatric Patients” – UAB medical student Musculoskeletal Evaluation, Birmingham, AL, September 2016
26. Lecturer, “The microbiome and ERA” – Rheumatology Journal Club, UAB, Birmingham, AL, January 2017
27. Lecturer, “Pediatric Rheumatology” – Pediatric Optometry Journal Club, UAB, Birmingham, AL, March 2017

#### **PRECEPTORSHIPS:**

1. Small Group Preceptor for First Year medical students, “Patient, Doctor, and Society”, UAB, Birmingham, AL, August 2012

#### **GRANT SUPPORT:**

October 2013-September 2014      AHRQ T32 Health Services, Outcomes, and Effectiveness  
Research (HSOER) Training Program  
PI: Kenneth Saag, MD, MSc and Monika Safford, MD

#### **BIBLIOGRAPHY [citations]:**

##### **MANUSCRIPTS ALREADY PUBLISHED:**

1. Combs CD, Friend K, **Mannion M**, Alpino RJ. [Simulating the domain of medical modeling and simulation: the medical modeling and simulation database](#). Stud Health Technol Inform. 2006;119:105-7. PMID: 16404026.
2. **Mannion M**, Cron RQ. [Successful treatment of pediatric IgG4 related systemic disease with mycophenolate mofetil: case report and a review of the pediatric autoimmune pancreatitis literature](#). Pediatr Rheumatol Online J. 2011 Jan 4;9(1):1. PMID: 21205323. [**17 citations**]

3. Nigrovic PA, **Mannion M**, Prince FH, Zeft A, Rabinovich CE, van Rossum MA, Cortis E, Pardeo M, Miettunen PM, Janow G, Birmingham J, Eggebeen A, Janssen E, Shulman AI, Son MB, Hong S, Jones K, Ilowite NT, Cron RQ, Higgins GC. [Anakinra as first-line disease-modifying therapy in systemic juvenile idiopathic arthritis: report of forty-six patients from an international multicenter series.](#) Arthritis Rheum. 2011 Feb;63(2):545-55. PMID: 21280009. **[145 citations]**
4. Fain ET, **Mannion M**, Pope E, Young DW, Laxer RM, Cron RQ. [Brain cavernomas associated with en coup de sabre linear scleroderma: Two case reports.](#) Pediatr Rheumatol Online J. 2011 Jul 29;9:18. PMID: 21801349. **[7 citations]**
5. **Mannion M**, Cron RQ. [Intensive care requirement, rather than degree of serum ferritin elevation, predicts mortality in macrophage activation syndrome.](#) Pediatr Crit Care Med. 2012 Sep;13(5):616. PMID: 22955471. **[2 citations]**
6. **Mannion M**, Zolak M, Kelly DR, Beukelman T, Cron RQ. [Sarcoidosis in a young child with Alagille syndrome: a case report.](#) Pediatr Rheumatol Online J. 2012 Aug 31;10(1):32. PMID: 22937766.
7. **Mannion ML**, Beukelman T. [What is the background incidence of malignancy in children with rheumatic disease?](#) Curr Rheumatol Rep 2013 Mar;15(3):310. PMID: 23378144. **[2 citations]**
8. Beukelman T, Xie R, Baddley JW, Chen L, Delzell E, Grijalva CG, **Mannion ML**, Patkar NM, Saag KG, Winthrop KL, Curtis JR. [Brief report: incidence of selected opportunistic infections among children with juvenile idiopathic arthritis.](#) Arthritis Rheum 2013 May;65(5):1384-9. PMID: 23460423. **[11 citations]**
9. **Mannion ML**, Xie F, Curtis JR, and Beukelman T. Recent trends in medication usage for the treatment of juvenile idiopathic arthritis in the U.S. and the influence of TNF inhibitors. J Rheumatol 2014 Oct;41(10):2078-84. PMID: 25086081.
10. **Mannion ML** and Beukelman T. Risk of Malignancy Associated with Biologic Agents in Pediatric Rheumatic Disease. Curr Opin Rheumatol. 2014 Sep;26(5):538-42. PMID: 25010437.
11. **Mannion ML**, McAllister L, Cron RQ, Stoll ML. Ustekinumab as a therapeutic option for children with refractory enthesitis-related arthritis: a case series. J Clin Rheumatol. 2016 Aug;22(5):282-4. PMID: 27464779
12. **Mannion ML**, Xie F, Baddley J, Chen L, Curtis JR, Saag K, Zhang J, and Beukelman T. Analysis of Health Care Claims During Transition from Pediatric to Adult Care Among Juvenile Idiopathic Arthritis Patients. Pediatr Rheumatol Online J. 2016 Sept 5;14(1):49. PMID: 27596158.
13. Beukelman T, Xie F, Baddley JW, Chen L, **Mannion ML**, Saag KG, Zhang J, Curtis JR. The risk of hospitalized infection following initiation of biologic agents versus methotrexate in the treatment of juvenile idiopathic arthritis. Arthritis Res Ther. 2016 Sept 22;18(1):210. PMID: 27655411
14. Curtis JR, Xie F, Smith C, Saag KG, Chen L, Beukelman T, **Mannion M**, Yun H, Kertesz S. Changing Trends in Opioid Use among U.S. Rheumatoid Arthritis Patients. Arthritis Rheumatol. 2017 Jun. PMID 28635179.

### **PUBLISHED ABSTRACTS:**

1. Nigrovic, P.A., **Mannion, M.**, Zeff, A., Rabinovich, E., van Rossum, M.A.J., Cortis, E., Pardeo, M., Miettunen, P.M., Janow, G., Birmingham, J., Eggebeen, A., Janssen, E., Shulman, A.I., Son, M.B., Hong, S., Jones, K., Ilowite, N.T., Cron, R.Q., and Higgins, G.C. 2010. Anakinra as first-line disease modifying therapy in systemic juvenile idiopathic arthritis: report of 46 patients from an international multicenter series (abstract). *Arthritis Rheum.* 62 (suppl 10):S89-S90. [ACR 2010, Atlanta, GA]
2. Beukelman T, Xie F, Baddley J, Chen L, Delzell ES, Grijalva C, **Mannion ML**, Patkar NM, Saag KG, Winthrop KL and Curtis JR. 2012. Incidence of Selected Opportunistic Infections Among Children with Juvenile Idiopathic Arthritis (abstract). *Arthritis Rheum.* 64 (suppl 10):S329. [ACR 2012, Washington, D.C.]
3. **Mannion M**, Xie F, Curtis JR, and Beukelman T. 2013. Recent trends in medication usage for the treatment of juvenile idiopathic arthritis in the U.S. and the influence of TNF inhibitors (abstract). *Ann Rheum Dis* 2013;72:Suppl 3 A149.
4. **Mannion M**, Xie F, Curtis JR, and Beukelman T. 2013. Recent trends in medication usage for the treatment of juvenile idiopathic arthritis in the U.S. and the influence of TNF inhibitors (abstract). *Arthritis Rheum.* 65 (suppl 10): S336–S337. [ACR 2013, San Diego, CA]
5. **Mannion ML**, Williams M, McGwin G, Saag KG, and Beukelman T. 2014. Qualitative Assessment of Important Long-Term Outcomes in Juvenile Idiopathic Arthritis (abstract). *Arthritis Rheum.* 66 (suppl 10):S129. [ACR 2014, Boston, MA].
6. **Mannion M**, Williams M, Ivankova N, McGwin G, Saag K, and Beukelman T. 2015. Qualitative Assessment of Patient Important Long-Term Outcomes in Juvenile Idiopathic Arthritis (abstract) [ACR 2015, San Francisco, CA].
7. **Mannion M**, Pedro S, Beukelman T, Curtis J, and Michaud K. 2015. Comparison of JIA and RA Patients in the National Data Bank for Rheumatic Disease (abstract). [ACR 2015, San Francisco, CA].
8. Beukelman T, Xie F, Baddley J, Chen L, **Mannion M**, Saag K, Zhang J, Curtis J. 2015. The Risk of Hospitalized Infection Following Initiation of Biologic Agents Versus Methotrexate in the Treatment of Juvenile Idiopathic Arthritis (abstract). [ACR 2015, San Francisco, CA].
9. Zhang J, Curtis J, Xie F, **Mannion M**, Lewis J, Clowse M, Saag K, Bethard S, Biggio J, McGwin G, Beukelman T. 2015. Utilization of Immune-Suppressive Medications during Pregnancy Among Women with Inflammatory Arthritis and Other Autoimmune Diseases (abstract). [ACR 2015, San Francisco, CA].
10. Curtis JR, Xie F, Saag KG, Chen L, Beukelman T, **Mannion M**, Yun H. 2016. Changing Patterns over Time in Opiate Use in U.S. Rheumatoid Arthritis Patients (abstract). [ACR 2016, Washington, D.C.].
11. Beukelman T, Xie F, Baddley J, Chen L, **Mannion M**, Saag KG, Zhang J, Curtis JR. 2016. The Risk of Hospitalized Infection Associated with Initiation of Abatacept Versus TNF Inhibitors in Juvenile Idiopathic Arthritis (abstract). [ACR 2016, Washington, D.C.].
12. Horton DB, Xie F, Chen L, **Mannion M**, Strom BL, Curtis JR, Beukelman T. Oral Glucocorticoids and Rates of Incident Diabetes Mellitus and Hypertension in Children

with Juvenile Idiopathic Arthritis and Attention-Deficit/Hyperactivity Disorder (abstract). [ACR 2016, Washington, D.C.].

13. Beukelman T, Xie F, Chen L, Horton D, Lewis JD, Mamtani R, **Mannion M**, Saag KG, Zhang J, Curtis JR. Tumor Necrosis Factor Inhibitors and the Risk of Malignancy in the Treatment of Juvenile Idiopathic Arthritis (abstract). [ACR 2016, Washington, D.C.].

#### **ORAL PRESENTATIONS:**

1. Case Presentation, Lowe Conference, Alabama, October 2011
2. Storyboard Presentation, "PPD documentation", PR-COIN (pediatric rheumatology care and outcomes improvement network) Learning Session 3, Cincinnati, OH, March 2012
3. Case Presentation, Alabama Society for Rheumatic Disease, Alabama, June 2012
4. Oral Abstract Presentation, "Recent trends in medication usage for the treatment of juvenile idiopathic arthritis in the U.S. and the influence of TNF inhibitors", ACR Annual Meeting, San Diego, CA, October 27, 2013.
5. Research Presentation, "Recent Trends in Medication Use for the Treatment of Juvenile Idiopathic Arthritis in the United States and the Impact of TNF inhibitors" – Children's Health Investigator Forum, UAB, Birmingham, AL, November 2013
6. Article Presentation, "Biostatistical Review of *Prediction of Mortality in Clinical Practice for Medicare Patients Undergoing Defibrillator Implantation for Primary Prevention of Sudden Cardiac Death*" – Biostatistics 613, UAB SOPH, Birmingham, AL, November 2013
7. Work in Progress Presentation, "Development of a Long-Term Outcome Measure in Juvenile Idiopathic Arthritis", HSOER T32 Fellows meeting, Birmingham, AL, March 2014
8. Research Presentation, "Development of a Long Term Outcome Measure in Juvenile Idiopathic Arthritis", CARRA annual meeting, JIA Outcomes subgroup, Orlando, FL, April 2014
9. Thesis Presentation, "Development of a Long Term Outcome Measure in Juvenile Idiopathic Arthritis", UAB SOPH MSPH Thesis Defense, Birmingham, AL, April 18, 2014
10. Research Presentation, "Development of a Long Term Outcome Measure in Juvenile Idiopathic Arthritis", Children's Health Investigator Forum, UAB, Birmingham, AL, December 2016

#### **POSTER PRESENTATIONS:**

1. Mannion ML, Williams MS, McGwin G, Saag K, and Beukelman T. Development of a Long Term Outcome Measure in Juvenile Idiopathic Arthritis. ACTS Translational Science Annual Meeting, Washington, D.C., April 2014.
2. Mannion ML, Williams MS, McGwin G, Saag K, and Beukelman T. Development of a Long Term Outcome Measure in Juvenile Idiopathic Arthritis. OMERACT 2014. Budapest, Hungary. May 2014.
3. Mannion ML, Williams MS, McGwin G, Saag K, and Beukelman T. Development of a Long Term Outcome Measure in Juvenile Idiopathic Arthritis. AcademyHealth Annual Meeting. San Diego, CA, June 2014.
4. Mannion ML, Williams MS, McGwin G, Saag K, and Beukelman T. Qualitative Assessment of Important Long-Term Outcomes in Juvenile Idiopathic Arthritis. CARRA Annual Meeting. Austin, TX, April 2015.

#### **LAY PRESS:**

[Covering the article: Nigrovic, P.A., **Mannion, M.**, Zeft, A., Rabinovich, E., van Rossum, M.A.J., Cortis, E., Pardeo, M., Miettunen, P.M., Janow, G., Birmingham, J., Eggebeen, A., Janssen, E., Shulman, A.I., Son, M.B., Hong, S., Jones, K., Ilowite, N.T., Cron, R.Q., and Higgins, G.C. 2011. Anakinra as first-line disease modifying therapy in systemic juvenile idiopathic arthritis: report of 46 patients from an international multicenter series. *Arthritis Rheum.* 63:545-555.]

1. Jancin, B. 2011. Big changes in treatment of systemic JIA. *Rheumatology News* 10:30.
2. Schonfeld, A.R. 2011. Systemic JIA guidelines urged early treatment. *Rheumatology News* 10:8,19. <http://download.journals.elsevierhealth.com/pdfs/journals/1541-9800/PIIS1541980011702368.pdf>

#### **TEXTBOOK CHAPTERS:**

1. **Mannion, M.L.**, and Cron, R.Q. “Diskitis” IN The 5-Minute Pediatric Consult (7th edition). M.D. Cabana, P. Brakeman, M. Curran, L.A. Dimeglio, W.C. Golden, R. Goldsby, A. Hartman, T. Kind, J.L. Lightdale, C. Sabella and R. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, 2014.
2. **Mannion, M.L.** and Cron, R.Q. “Spondyloarthritis” IN The 5-Minute Pediatric Consult (7th edition). M.D. Cabana, P. Brakeman, M. Curran, L.A. Dimeglio, W.C. Golden, R. Goldsby, A. Hartman, T. Kind, J.L. Lightdale, C. Sabella and R. Tanel, Eds., Lippincott Williams & Wilkins, Philadelphia, PA, 2014.

#### **VOLUNTEER WORK:**

1. Medical Staff for Camp M.A.S.H. (Make Arthritis Stop Hurting), Mobile, AL, June 2012
2. Medical Staff for Camp M.A.S.H., Mobile, AL, June 2013
3. Medical Staff for Camp M.A.S.H., Mobile, AL, June 2014
4. Medical Staff for Camp M.A.S.H., Mobile, AL, June 2015
5. “Ask the Doc” speaker at Juvenile Arthritis Family Day, Birmingham, AL, April 2016
6. Medical Staff for Camp M.A.S.H., Mobile, AL, June 2016
7. Medical Director for Camp M.A.S.H., Mobile, AL, June 2017