



Jennifer Frankovich

Clinical Professor, Pediatrics - Rheumatology

 NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Immune Behavioral Health (IBH) Clinic**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Jacquelyn Horgan - Immune Behavioral Health Program
Manager

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Bio

BIO

Dr. Frankovich is a Clinical Professor in the Department of Pediatrics, Division of Allergy, Immunology Rheumatology (AIR) at Stanford University/ Lucile Packard Children's Hospital (LPCH). Her clinical expertise is in systemic inflammatory and autoimmune diseases that co-occur with psychiatric symptoms. She completed her training in pediatrics, pediatric rheumatology, and clinical epidemiology at Stanford University/LPCH. She directs the Stanford Immune-Behavioral Health Program (2012- present) where she and her psychiatry/psychology collaborators have created a longitudinal clinical database and biorepository of patient and healthy control biospecimens. In addition to generating clinical data to better understand immune-behavioral health conditions, she is collaborating with basic science labs who aim to understand the immunological underpinnings of post-infectious neuropsychiatric conditions including PANS and related conditions.

CLINICAL FOCUS

- Pediatric Acute Onset Neuropsychiatric Syndrome (PANS)
- Pediatric Rheumatology
- systemic autoimmune disease with psychiatric features
- arthritis in patients with OCD
- enthesitis related arthritis
- psoriatic arthritis
- spondyloarthritis

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Rheumatology
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- IBH Program Director, Stanford Children's Hospital, (2012- present)
- Clinical Assistant Professor, now Professor, Pediatric Rheumatology, Stanford Children's Hospital, (2010- present)

- Instructor, General Pediatrics & Pediatric Rheumatology, Stanford Children's Hospital, (2008-2010)

HONORS AND AWARDS

- Clinical Science Research Award, Stanford Medicine, Department of Pediatrics (2020)
- Junior Faculty, Clinical Award of Excellence, Stanford Children's Hospital (2014)

PROFESSIONAL EDUCATION

- Residency: Stanford Health Care at Lucile Packard Children's Hospital (2004) CA
- Fellowship: Stanford University Pediatric Rheumatology Fellowship (2008) CA
- Masters, Stanford University , Clinical Epidemiology (2009)
- Board Certification: Pediatric Rheumatology, American Board of Pediatrics (2009)
- Board Certification: Pediatrics, American Board of Pediatrics (2004)

LINKS

- PANS Program Website: <http://med.stanford.edu/pans.html>
- Immune Behavioral Health (IBH) Clinic: <https://www.stanfordchildrens.org/en/service/pans-pandas>
- Frankovich PubMed: <https://pubmed.ncbi.nlm.nih.gov/?term=jennifer+frankovich&sort=date>
- Orcid: <https://orcid.org/0000-0001-7356-5617>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My primary interest and role at Stanford is to evaluate and treat children with both systemic and organ specific autoimmune disease. In October of 2012, we started a multidisciplinary clinic dedicated to treating patients with PANS (Pediatric Acute-onset Neuropsychiatric Syndromes). I am currently the clinical and research director for the PANS program.

CLINICAL TRIALS

- Neurobiologic, Immunologic, and Rheumatologic Markers in Youth With PANS, Recruiting
- Phase III Study To Compare The Effect of Panzyga Versus Placebo in Patients With Pediatric Acute-onset Neuropsychiatric Syndrome (PANS/ PANDAS), Not Recruiting

Publications

PUBLICATIONS

- **Sex-associated and disease state-dependent monocyte polarization and CNS-trafficking phenotypes in pediatric acute-onset neuropsychiatric syndrome (PANS).** *Journal of neuroinflammation*
Rahman, S. S., Hussein, N., Galfrè, S. G., Gaertner, F., Macaubas, C., Chan, A., Columbo, L., Gao, J., Galehdari, S., Bayram, B., Ma, M., Manko, C., Miles, et al
2025; 22 (1): 273
- **EVIDENCE FOR INFLAMMATION IN PANS**
Frankovich, J.
ELSEVIER SCIENCE INC.2025
- **Ultrarare Variants in DNA Damage Repair and Mitochondrial Genes in Pediatric Acute-Onset Neuropsychiatric Syndrome and Acute Behavioral Regression in Neurodevelopmental Disorders.** *medRxiv : the preprint server for health sciences*
Vettiail, D., Soorajkumar, A., Dubin, R. A., Pedrosa, E., Schornagel, A., Lambert, J. S., Costa, I. P., McDonald, J., Swagemakers, S. M., van der Spek, P. J., Frankovich, J., Cunningham, J. L., Lachman, et al
2025

- **The Immune/Inflammatory Underpinnings of Neurodevelopmental Disorders and Pediatric Acute-Onset Neuropsychiatric Syndrome: A Scoping Review.** *International journal of molecular sciences*
Gagliano, A., Cucinotta, F., Giunta, I., Di Modica, I., De Domenico, C., Costanza, C., Germanò, E., Frankovich, J.
2025; 26 (16)
- **Defining Clinical Course of Patients Evaluated for Pediatric Acute-Onset Neuropsychiatric Syndrome: Phenotypic Classification Based on 10 Years of Clinical Data.** *Developmental neuroscience*
Masterson, E. E., Miles, K., Schlenk, N., Manko, C., Ma, M., Farhadian, B., Chang, K., Silverman, M., Thienemann, M., Frankovich, J.
2025: 1-17
- **New-onset OCD and juvenile enthesitis related arthritis after COVID-19 (Three Cases).** *Developmental neuroscience*
Saini, T., Ma, M., Sandberg, J., Farhadian, B., Manko, C., Xie, Y., Madan, J., Bauer, K., Tran, P., Frankovich, J.
2025: 1-29
- **Sudden Onset Disordered Eating Behaviors and Appetite Issues in a Local Clinical Cohort of Children With Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS).** *The International journal of eating disorders*
Kapphahn, C., Peet, B., Gao, J., Chan, A., Farhadian, B., Ma, M., Silverman, M., Tran, P., Schlenk, N., Thienemann, M., Frankovich, J.
2025
- **Obsessive-Compulsive Disorder Associated with Autoimmunity in Youth: Clinical Course before and after Rituximab +/- Adjunctive Immunomodulation.** *Developmental neuroscience*
Frankovich, J., Calaprice, D., Ma, M., Knight, O., Miles, K., Manko, C., Hernandez, J. D., Sandberg, J., Farhadian, B., Xie, Y., Silverman, M., Madan, J., Strand, et al
2025: 1-19
- **Neurological Soft Signs at Presentation in Patients With Pediatric Acute-Onset Neuropsychiatric Syndrome.** *JAMA network open*
Zebrack, J. E., Gao, J., Verhey, B., Tian, L., Stave, C., Farhadian, B., Ma, M., Silverman, M., Xie, Y., Tran, P., Thienemann, M., Wilson, J. L., Frankovich, et al
2025; 8 (3): e250314
- **Eight cases of Pediatric Acute Onset Neuropsychiatric Syndrome (PANS) with Inflammatory Bowel Disease (IBD): Immunologic Intersections.** *Developmental neuroscience*
Tang, A. W., Prieto Jimenez, P. M., Miller, I. K., Madan, J. C., Nguyen, J., Ma, M., Silverman, M., Farhadian, B., Wilson, J., Goyal, A., Manko, C., Davies, Y., Rabizadeh, et al
2025: 1-23
- **Ultrarare Variants in DNA Damage Repair Genes in Pediatric Acute-Onset Neuropsychiatric Syndrome or Acute Behavioral Regression in Neurodevelopmental Disorders.** *Developmental neuroscience*
Cunningham, J. L., Frankovich, J., Dubin, R. A., Pedrosa, E., Baykara, R. N., Schlenk, N. C., Maqbool, S. B., Dolstra, H., Marino, J., Edinger, J., Shea, J. M., Laje, G., Swagemakers, et al
2024: 1-20
- **Cerebrospinal fluid characteristics of patients presenting for evaluation of pediatric acute-neuropsychiatric syndrome.** *Frontiers in behavioral neuroscience*
Pooni, R., Zheng, W., Ma, M., Silverman, M., Xie, Y., Farhadian, B., Thienemann, M., Mellins, E., Frankovich, J.
2024; 18: 1342486
- **Development of Autoimmune Diseases Among Children With Pediatric Acute-Onset Neuropsychiatric Syndrome** *JAMA network open*
Ma, M., Masterson, E. E., Gao, J., Karpel, H., Chan, A., Pooni, R., Sandberg, J., Rubesova, E., Farhadian, B., Willet, T., Xie, Y., Tran, P., Silverman, et al
2024; 7 (7)
- **Evaluation of C4 gene copy number in Pediatric Acute Neuropsychiatric Syndrome** *DEVELOPMENTAL NEUROSCIENCE*
Kalinowski, A., Tian, L., Pattni, R., Ollila, H., Khan, M., Manko, C., Silverman, M., Ma, M., Columbo, L., Farhadian, B., Swedo, S., Murphy, T., Johnson, et al
2023
- **Arthritis in Children with Psychiatric Deteriorations: A Case Series** *DEVELOPMENTAL NEUROSCIENCE*
Ma, M., Sandberg, J., Farhadian, B., Silverman, M., Xie, Y., Thienemann, M., Frankovich, J.
2023: 1

- **HLA-Bw4 is Associated with Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS)**
Kizer, K., Augusto, D., Montero-Martin, G., Schlenk, N., Horgan, J., Wade, K., Oksenberg, J., Fernandez-Vina, M., Frankovich, J., Hollenbach, J. A. WILEY.2023: 365
- **Sex and Aggression Characteristics in a Cohort of Patients with Pediatric Acute-Onset Neuropsychiatric Syndrome.** *Journal of child and adolescent psychopharmacology*
Gao, J., Chan, A., Willett, T., Farhadian, B., Silverman, M., Tran, P., Ahmed, S., Thienemann, M., Frankovich, J. 2022
- **Children With PANS May Manifest POTS.** *Frontiers in neurology*
Chan, A., Gao, J., Houston, M., Willett, T., Farhadian, B., Silverman, M., Tran, P., Jaradeh, S., Thienemann, M., Frankovich, J. 2022; 13: 819636
- **Profiling Behavioral and Psychological Symptoms in Children undergoing treatment for Spondyloarthritis and Polyarthritis.** *The Journal of rheumatology*
McHugh, A., Chan, A., Herrera, C., Park, J. M., Balboni, I., Gerstbacher, D., Hsu, J. J., Lee, T., Thienemann, M., Frankovich, J. 1800
- **Patients with abrupt early-onset OCD due to PANS tolerate lower doses of antidepressants and antipsychotics.** *Journal of psychiatric research*
Thienemann, M., Park, M., Chan, A., Frankovich, J. 2021; 135: 270–78
- **Discovering prescription patterns in pediatric acute-onset neuropsychiatric syndrome patients.** *Journal of biomedical informatics*
Lopez Pineda, A., Pourshafeie, A., Ioannidis, A., McCloskey Leibold, C., Chan, A. L., Bustamante, C. D., Frankovich, J., Wojcik, G. L. 2020: 103664
- **Familial Clustering of Immune-mediated Diseases in Children with Abrupt-onset OCD**
Chan, A., Phu, T., Farhadian, B., Willett, T., Silverman, M., Tran, P., Thienemann, M., Frankovich, J. WILEY.2020: 250–52
- **The Killer Immunoglobulin-like Receptor KIR3DL1 in Combination with HLA-Bw4 Is Associated with Pediatric Acute-onset Neuropsychiatric Syndrome (PANS)**
Frankovich, J., Anderson, K., Montero-Martin, G., Chan, A., Thienemann, M., Farhadian, B., Willett, T., Mellins, E., Madden, A., Murphy, T., Swedo, S., Fernandez-Vina, M., Hollenbach, et al WILEY.2020: 255–57
- **Clinical approach to the diagnosis of autoimmune encephalitis in the pediatric patient.** *Neurology(R) neuroimmunology & neuroinflammation*
Cellucci, T., Van Mater, H., Graus, F., Muscal, E., Gallentine, W., Klein-Gitelman, M. S., Benseler, S. M., Frankovich, J., Gorman, M. P., Van Haren, K., Dalmau, J., Dale, R. C. 2020; 7 (2)
- **Familial Clustering of Immune-Mediated Diseases in Children with Abrupt-Onset Obsessive Compulsive Disorder.** *Journal of child and adolescent psychopharmacology*
Chan, A. n., Phu, T. n., Farhadian, B. n., Willett, T. n., Thienemann, M. n., Frankovich, J. n. 2020
- **Association of pediatric acute-onset neuropsychiatric syndrome with microstructural differences in brain regions detected via diffusion-weighted magnetic resonance imaging.** *JAMA Network Open*
Zheng, J., Frankovich, J., McKenna, E. S., Rowe, N. C., MacEachern, S. J., Ng, N. N., Tam, L. T., Moon, P. K., Gao, J., Thienemann, M., Forkert, N. D., Yeom, K. W. 2020; 3 (5): 1-15
- **Hypoferritinemia and iron deficiency in youth with pediatric acute-onset neuropsychiatric syndrome.** *Pediatric research*
Chan, A. n., Karpel, H. n., Spartz, E. n., Willett, T. n., Farhadian, B. n., Jeng, M. n., Thienemann, M. n., Frankovich, J. n. 2020
- **Association of Pediatric Acute-Onset Neuropsychiatric Syndrome With Microstructural Differences in Brain Regions Detected via Diffusion-Weighted Magnetic Resonance Imaging.** *JAMA network open*
Zheng, J. n., Frankovich, J. n., McKenna, E. S., Rowe, N. C., MacEachern, S. J., Ng, N. N., Tam, L. T., Moon, P. K., Gao, J. n., Thienemann, M. n., Forkert, N. D., Yeom, K. W.

2020; 3 (5): e204063

- **Profiling Behavioral and Psychological Symptoms in Children with Spondyloarthritis and Polyarthritis**
McHugh, A., Chan, A., Herrera, C., Thienemann, M., Frankovich, J.
WILEY.2019
- **Infections, Antibiotics, and Mental Health Deteriorations.** *Journal of child and adolescent psychopharmacology*
Chan, A., Frankovich, J.
2019
- **Psychotic symptoms in youth with Pediatric Acute-onset Neuropsychiatric Syndrome (PANS) may reflect syndrome severity and heterogeneity (vol 110, pg 93, 2019)** *JOURNAL OF PSYCHIATRIC RESEARCH*
Silverman, M., Frankovich, J., Nguyen, E., Leibold, C., Yoon, J., Freeman, G., Karpel, H., Thienemann, M.
2019; 113: 45
- **The Burden of Caring for a Child or Adolescent With Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS): An Observational Longitudinal Study** *JOURNAL OF CLINICAL PSYCHIATRY*
Frankovich, J., Leibold, C., Farmer, C., Sainani, K., Kamalani, G., Farhadian, B., Willett, T., Park, J. M., Sidell, D., Ahmed, S., Thienemann, M.
2019; 80 (1)
- **The Burden of Caring for a Child or Adolescent With Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS): An Observational Longitudinal Study.** *The Journal of clinical psychiatry*
Frankovich, J., Leibold, C. M., Farmer, C., Sainani, K., Kamalani, G., Farhadian, B., Willett, T., Park, J. M., Sidell, D., Ahmed, S., Thienemann, M.
2018; 80 (1)
- **Psychotic symptoms in youth with Pediatric Acute-onset Neuropsychiatric Syndrome (PANS) may reflect syndrome severity and heterogeneity.** *Journal of psychiatric research*
Silverman, M., Frankovich, J., Nguyen, E., Leibold, C., Yoon, J., Mark Freeman, G. J., Karpel, H., Thienemann, M.
2018; 110: 93–102
- **Psychometric Properties of the Pediatric Acute-Onset Neuropsychiatric Syndrome Global Impairment Score in Children and Adolescents with Pediatric Acute-Onset Neuropsychiatric Syndrome.** *Journal of child and adolescent psychopharmacology*
Leibold, C., Thienemann, M., Farhadian, B., Willett, T., Frankovich, J.
2018
- **Allergic Diseases and Immune-Mediated Food Disorders in Pediatric Acute-Onset Neuropsychiatric Syndrome.** *Pediatric allergy, immunology, and pulmonology*
Rosa, J. S., Hernandez, J. D., Sherr, J. A., Smith, B. M., Brown, K. D., Farhadian, B., Mahony, T., McGhee, S. A., Lewis, D. B., Thienemann, M., Frankovich, J. D.
2018; 31 (3): 158-165
- **Continued Presence of Period Limb Movements During REM Sleep in Patients With Chronic Static Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS).** *Journal of clinical sleep medicine : JCSM : official publication of the American Academy of Sleep Medicine*
Santoro, J. D., Frankovich, J., Bhargava, S.
2018; 14 (7): 1187–92
- **Clinical Management of Pediatric Acute-Onset Neuropsychiatric Syndrome: Part I-Psychiatric and Behavioral Interventions.** *Journal of child and adolescent psychopharmacology*
Thienemann, M., Murphy, T., Leckman, J., Shaw, R., Williams, K., Kappahn, C., Frankovich, J., Geller, D., Bernstein, G., Chang, K., Elia, J., Swedo, S.
2017; 27 (7): 566-573
- **Clinical Management of Pediatric Acute-Onset Neuropsychiatric Syndrome: Part II-Use of Immunomodulatory Therapies.** *Journal of child and adolescent psychopharmacology*
Frankovich, J., Swedo, S., Murphy, T., Dale, R. C., Agalliu, D., Williams, K., Daines, M., Hornig, M., Chugani, H., Sanger, T., Muscal, E., Pasternack, M., Cooperstock, et al
2017; 27 (7): 574-593
- **Palatal Petechiae in the Absence of Group A Streptococcus in Pediatric Patients with Acute-Onset Neuropsychiatric Deterioration: A Cohort Study.** *Journal of child and adolescent psychopharmacology*
Mahony, T., Sidell, D., Gans, H., Cooperstock, M., Brown, K., Cheung, J. M., Farhadian, B., Gustafson, M., Thienemann, M., Frankovich, J.
2017

- **An Electronic Health Record Investigation of Lenticulostriate Vasculopathy Features.** *American journal of perinatology*
Frankovich, J., Egan, M., Mahony, T., Benitz, W., Shaw, G.
2017; 34 (3): 253-258
- **Improvement of psychiatric symptoms in youth following resolution of sinusitis** *INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY*
Mahony, T., Sidell, D., Gans, H., Brown, K., Farhadian, B., Gustafson, M., Sherr, J., Thienemann, M., Frankovich, J.
2017; 92: 38-44
- **Clinical Management of Pediatric Acute-onset Neuropsychiatric Syndrome (PANS): Part II – Use of Immunomodulatory Therapies** *Journal of Child and Adolescent Psychopharmacology*
Frankovich, J., Swedo, S., Murphy, T., Dale, R. C., Agalliu, D., Williams, K., Daines, M., Hornig, M., Chugani, H., Sanger, T., Muscal, E., Pasternack, M., Cooperstock, et al
2017; 27 (7): 574-593
- **Clinical Management of Pediatric Acute-Onset Neuropsychiatric Syndrome: Part I—Psychiatric and Behavioral Interventions** *Journal of Child and Adolescent Psychopharmacology*
Thienemann, M., Murphy, T., Leckman, J., Shaw, R., Williams, K., Kapphahn, C., Frankovich, J., Geller, D., Bernstein, G., Chang, K., Elia, J., Swedo, S.
2017; 27 (7): 566-573
- **Pediatric Acute-Onset Neuropsychiatric Syndrome Response to Oral Corticosteroid Bursts: An Observational Study of Patients in an Academic Community-Based PANS Clinic.** *Journal of child and adolescent psychopharmacology*
Brown, K. n., Farmer, C. n., Farhadian, B. n., Hernandez, J. n., Thienemann, M. n., Frankovich, J. n.
2017; 27 (7): 629–39
- **Course of Neuropsychiatric Symptoms After Introduction and Removal of Nonsteroidal Anti-Inflammatory Drugs: A Pediatric Observational Study.** *Journal of child and adolescent psychopharmacology*
Spartz, E. J., Freeman, G. M., Brown, K. n., Farhadian, B. n., Thienemann, M. n., Frankovich, J. n.
2017; 27 (7): 652–59
- **Effect of Early and Prophylactic Nonsteroidal Anti-Inflammatory Drugs on Flare Duration in Pediatric Acute-Onset Neuropsychiatric Syndrome: An Observational Study of Patients Followed by an Academic Community-Based Pediatric Acute-Onset Neuropsychiatric Syndrome Clinic.** *Journal of child and adolescent psychopharmacology*
Brown, K. D., Farmer, C. n., Freeman, G. M., Spartz, E. J., Farhadian, B. n., Thienemann, M. n., Frankovich, J. n.
2017; 27 (7): 619–28
- **Single amino acid charge switch defines clinically distinct proline-serine-threonine phosphatase-interacting protein 1 (PSTPIP1)-associated inflammatory diseases** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Holzinger, D., Fassl, S. K., de Jager, W., Lohse, P., Roehrig, U. F., Gattorno, M., Omenetti, A., Chiesa, S., Schena, F., Austermann, J., Vogl, T., Kuhns, D. B., Holland, et al
2015; 136 (5): 1337-1345
- **Clinical Evaluation of Youth with Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS): Recommendations from the 2013 PANS Consensus Conference.** *Journal of child and adolescent psychopharmacology*
Chang, K., Frankovich, J., Cooperstock, M., Cunningham, M. W., Latimer, M. E., Murphy, T. K., Pasternack, M., Thienemann, M., Williams, K., Walter, J., Swedo, S. E.
2015; 25 (1): 3-13
- **Multidisciplinary clinic dedicated to treating youth with pediatric acute-onset neuropsychiatric syndrome: presenting characteristics of the first 47 consecutive patients.** *Journal of child and adolescent psychopharmacology*
Frankovich, J., Thienemann, M., Pearlstein, J., Crable, A., Brown, K., Chang, K.
2015; 25 (1): 38-47
- **Clinical Evaluation of Youth with Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS): Recommendations from the 2013 PANS Consensus Conference.** *Journal of child and adolescent psychopharmacology*
Chang, K., Frankovich, J., Cooperstock, M., Cunningham, M. W., Latimer, M. E., Murphy, T. K., Pasternack, M., Thienemann, M., Williams, K., Walter, J., Swedo, S. E.
2015; 25 (1): 3-13
- **Pediatric plastic bronchitis: case report and retrospective comparative analysis of epidemiology and pathology.** *Case reports in pulmonology*

- Kunder, R., Kunder, C., Sun, H. Y., Berry, G., Messner, A., Frankovich, J., Roth, S., Mark, J.
2013; 2013: 649365-?
- **Profiling risk factors for chronic uveitis in juvenile idiopathic arthritis: a new model for EHR-based research.** *Pediatric rheumatology online journal*
Cole, T. S., Frankovich, J., Iyer, S., LePendu, P., Bauer-Mehren, A., Shah, N. H.
2013; 11 (1): 45-?
 - **European ancestry decreases the risk of early onset, severe lupus nephritis in a single center, multiethnic pediatric lupus inception cohort** *LUPUS*
Frankovich, J. D., Hsu, J. J., Sandborg, C. I.
2012; 21 (4): 421-429
 - **Evidence-Based Medicine in the EMR Era** *NEW ENGLAND JOURNAL OF MEDICINE*
Frankovich, J., Longhurst, C. A., Sutherland, S. M.
2011; 365 (19): 1758-1759
 - **Maternal Autoimmunity and Neonatal Brain Abnormalities: Cerebral Dysmaturation, Diencephalon Abnormalities, and Lenticulostriate Vasculopathy** *75th Annual Scientific Meeting of the American-College-of-Rheumatology (ACR) / 46th Annual Scientific Meeting of the Association-of-Rheumatology-Health-Professionals (ARHP)*
Frankovich, J. D., Barnes, P. D., Sandborg, C. I., Chakravarty, E. F.
WILEY-BLACKWELL.2011: S785-S785
 - **Real-Time, Cohort-Based Clinical Decision Support Using a Novel Bioinformatics Platform to Assess Thrombotic Risk in a Critically Ill Pediatric Patient with Systemic Lupus Erythematosus**
Frankovich, J. D., Longhurst, C., Sutherland, S., Sandborg, C. I.
WILEY-BLACKWELL.2011: S806
 - **Autoinflammatory Diseases in the Neonate: Mimickers of Neonatal Infections** *NeoReviews*
Lionetti, G., Lapidus, S., Goldbach-Mansky, R., Frankovich, J.
2010; 11 (10): e566-e577
 - **Acute hepatitis in three patients with systemic juvenile idiopathic arthritis taking interleukin-1 receptor antagonist** *PEDIATRIC RHEUMATOLOGY*
Canna, S., Frankovich, J., Higgins, G., Narkewicz, M. R., Nash, S. R., Hollister, J. R., Soep, J. B., Dragone, L. L.
2009; 7
 - **Neonatal Lupus and Related Autoimmune Disorders of Infants** *NeoReviews*
Frankovich, J., Sandborg, C., Barnes, P., Hintz, S., Chakravarty, E.
2008; 9 (5): e206-e217
 - **Ultrarare Variants in DNA Damage Repair and Mitochondrial Genes in Pediatric Acute-Onset Neuropsychiatric Syndrome and Acute Behavioral Regression in Neurodevelopmental Disorders.** *Developmental neuroscience*
Vettiati, D., Soorajkumar, A., Dubin, R. A., Pedrosa, E. M., Schornagel, A., Lambert, J. S., Costa, I. P., McDonald, J., Swagemakers, S. M., van der Spek, P. J., Frankovich, J., Cunningham, J. L., Lachman, et al
2026: 1-19
 - **Symposium: Speaker Presentations Genetics of PANS/PANDAS**
Lachman, H. M., Frankovich, J., van der Spek, P. J., Cunningham, J. L.
W B SAUNDERS CO-ELSEVIER INC.2025
 - **Acute Onset Neuropsychiatric Conditions in Children and Adolescents following SARS-CoV-2 Infection: A Case Series.** *Developmental neuroscience*
Jasser, M. T., Ferland, T., Bocian, T., Goff, M., Gauch, A., Heinz, M. V., Joffrey, E., Morse, R., Albert, D., Frankovich, J., Madan, J. C.
2025: 1-15
 - **Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS) and Pediatric Autoimmune Neuropsychiatric Disorders Associated with Streptococcal Infections (PANDAS): Immunological Features Underpinning Controversial Entities.** *Children (Basel, Switzerland)*
Leonardi, L., Perna, C., Bernabei, I., Fiore, M., Ma, M., Frankovich, J., Tarani, L., Spalice, A.
2024; 11 (9)

- **Elevated antibody binding to striatal cholinergic interneurons in patients with pediatric acute-onset neuropsychiatric syndrome.** *Brain, behavior, and immunity*
Xu, J., Frankovich, J., Liu, R. J., Thienemann, M., Silverman, M., Farhadian, B., Willet, T., Manko, C., Columbo, L., Leibold, C., Vaccarino, F. M., Che, A., Pittenger, et al
2024
- **Prevalence of Neurological Soft Signs at Presentation in Pediatric Acute-Onset Neuropsychiatric Syndrome.** *medRxiv : the preprint server for health sciences*
Zebrack, J. E., Gao, J., Verhey, B., Tian, L., Stave, C., Farhadian, B., Ma, M., Silverman, M., Xie, Y., Tran, P., Thienemann, M., Wilson, J. L., Frankovich, et al
2024
- **Psychometric Properties of the PANS 31-Item Symptom Rating Scale.** *Journal of child and adolescent psychopharmacology*
Bernstein, G. A., Khan, M. H., Freese, R. L., Manko, C., Silverman, M., Ahmed, S., Farhadian, B., Ma, M., Thienemann, M., Murphy, T. K., Frankovich, J.
2024
- **IVIG response in pediatric acute-onset neuropsychiatric syndrome correlates with reduction in pro-inflammatory monocytes and neuropsychiatric measures.** *Frontiers in immunology*
Melamed, I., Rahman, S., Pein, H., Heffron, M., Frankovich, J., Kreuwel, H., Mellins, E. D.
2024; 15: 1383973
- **ANTIDOPAMINE RECEPTOR AUTOANTIBODY DETECTION IN POSTINFECTIOUS NEUROPSYCHIATRIC SYNDROMES**
Yin, X., Prestwood, T., Utz, P. J., Frankovich, J.
ELSEVIER SCIENCE INC.2023: S273
- **Pediatric Acute-onset Neuropsychiatric Syndrome: Markers of Inflammation/autoimmunity at Clinical Presentation and Eventual Development of Arthritis and Other Autoimmune Diseases**
Ma, M., Masteron, E., Frankovich, J.
WILEY.2023: 4069-4072
- **IMMUNOPHENOTYPING DATA IN PANS**
Frankovich, J.
ELSEVIER SCIENCE INC.2023: S393
- **PANS: MARKERS OF INFLAMMATION/AUTOIMMUNITY AT CLINICAL PRESENTATION AND EVENTUAL DEVELOPMENT OF ARTHRITIS AND OTHER AUTOIMMUNE DISEASES**
Ma, M., Masterson, E., Frankovich, J.
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