
BIOGRAPHICAL SKETCH

NAME : Hermine Brunner	POSITION TITLE : Professor of Pediatrics
eRA COMMONS USER : HBRUNN	

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Siemens Corp. School of Business, Munich & Berlin	MBA	1981-1983	Business Administration
Medical School at Ludwig Maximillians University, Munich.	MD	1985-1991	Medicine
Dr. von Haunersches Kinderspital of Ludwig Maximillians University, Munich.		1992-1993	Pediatrics internship
"German Emergency Doctors" Primary Care Physician in Angola, Doctors Without Borders.		1993-1994	Vaccine program. Rehab of landmine victims.
Pediatric Residency at Wyler's Children's Hospital of University of Chicago.	FAAP	1994-1997	Pediatric Residency
Hospital for Sick Children, University of Toronto		1997-1999	Fellowship in Pediatric Rheumatology
School for Community Health and Clinical Epidemiology of University of Toronto.	MSc	1997-1999	MSc program for Clinical Epidemiology
Cincinnati Children's Hospital Medical Center and Medical Center of University of Cincinnati.	FACR	1999-2000	Fellowship in Pediatric Rheumatology

A. Personal Statement

As clinical and translational scientist in pediatric rheumatology, my research centers around the development of clinical trial endpoints, surrogate measures and biomarkers as they pertain to lupus and other pediatric rheumatic diseases. Since 2006, I serve as the Scientific Director of the Pediatric Rheumatology Collaborative Study Group (PRCSG), a research consortium of over 160 pediatric rheumatologists at 95 centers in North America with the mission of testing the safety and efficacy of new therapies. Most recently I took the lead on the studies of certrolizumab, tofacitinib, tocilizumab, and canakinumab for the treatment of juvenile arthritis, and I serve as consultant to pharmaceutical companies developing new medication for lupus which comes with the requirement to test these medications in children.

Furthermore, I serve on the American College of Rheumatology Industry Collaboration Committee and participate regularly in peer-review activities for NIAMS, NIAID, other NIH institutes and Foundations. As part of my investigator-initiated research, I have conducted and successfully completed several large multinational studies to develop flare, improvement, remission and inactive disease criteria for children with lupus, all in a very timely fashion. Locally, I am directing the Division of Rheumatology at Cincinnati Children's Hospital, a division where clinical and translational research are integrated in daily clinical care. This division is dedicated to continually improve the medical care provided and is the home of the Pediatric Rheumatology Clinical Outcome & Improvement Network (www.prcoin.org). I co-direct the local pediatric rheumatology trainings program (T32) focused on educating the next generation of biomedical researchers in pediatric rheumatic diseases.

B. Positions and HonorsProfessional Experience:

1992 - 1993 Pediatric Residency, Dr. von Haunersches Kinderspital, Munich, Germany

1993 - 1994 Emergency Medical Care, Province Cunene, Angola

1994 - 1997 Pediatric residency, Wyler Children's Hospital, Chicago, USA

1997 - 1999 Pediatric rheumatology fellowship, Hospital for Sick Children, Toronto, Canada

1999 - 2000 Pediatric rheumatology fellowship, Children's Hospital Medical Center, Cincinnati, USA

2000 – 2001 Research Associate, Cincinnati Children's Hospital Medical Center (CCHMC), Cincinnati, USA
 2001 – 2003 Instructor & Assistant Professor of Pediatrics, CCHMC
 2007 - 2010 Associate Professor of Pediatrics, Tenure Track; CCHMC
 2011 - Professor of Pediatrics with Tenure
 2014 - Director Rheumatology and Endowed Research Chair CCHMC

Honors and Other Professional Activities:

1988 National student representative of Friedrich Ebert Foundation.
 1988 - 1990 Student representative of Council of Medicine, Ludwig Maximillians University, Munich.
 1990 Dissertation (magna cum laude) School of Medicine, Ludwig Maximillians University, Munich
 2002 - NIAID & NIAMS Study Section Ad hoc member
 2003- 2012 CARRA Lupus Peer Review Committee, member
 2003- Co-Director MCRC Methodology Core & Administrative Core
 2005-2012 Scholar of the Institute for the Study of Health, University of Cincinnati
 2006 Pediatric Rheumatology Collaborative Study Group, Scientific Director
 2006 - 2011 Lupus Now Advisory Board (LNAB)
 2006 - Arthritis Care and Research, Editorial Board
 2007 - 2018 Lupus Foundation of America Medical-Scientific Advisory Council
 2007 - 2011 ACR Journal Publication Committee
 2009 - 2013 ACR Criteria Development Committee
 2009 - Member, Scientific Advisory Council, Cincinnati Center for Clinical & Translational Research Ctr
 2009 - 2013 CARRA Steering Committee
 2011- Pediatric Editor, Arthritis Care and Research
 2012 - Editorial Board, of Revista Paulista de Pediatria
 2000 - Peer Review (selection of 23): J Clin Drug Invest, Lancet, Rheumatol, Arthritis Rheum, Pediatrics, Annals Rheum Dis, J. Pediatrics, Lupus, Rheumatology, Med Decis Making, J Clin Epidemiol.

C. Peer-Reviewed Publications or Manuscripts

1991 – 2005

1. J.P. Haas, **H.I. Brunner**, A. Andreas et al.: A model for the role of HLA-DQ molecules in the pathogenesis of juvenile chronic arthritis. *Rheumatology International* 1991;19:1-197.
2. **H.I. Brunner**, J.P. Haas, A. Andreas et al: Class I associations and frequencies of class II HLA-DRB alleles by RFLP analysis in children with rheumatoid-factor negative juvenile chronic arthritis. *Rheumatology International* 1993;13: 83-88.
3. **H.I. Brunner**, B.M. Feldman, C. Bombardier, E.D. Silverman: The SLEDAI, SLAM and BILAG are sensitive to change in clinical disease activity in childhood-onset Systemic Lupus Erythematosus (SLE). *Arthritis & Rheumatism* 1999; 7: 1354-60.
4. **H.I. Brunner**, M Freedman, E.D. Silverman: Close Relationship Between Thrombotic Thrombocytopenic Purpura And Systemic Lupus Erythematosus In Childhood. *Arthritis & Rheumatism* 1999; 42: 2346-55.
5. **H I. Brunner**, K.N. Kim, S.H. Ballinger, S.L. Bowyer, T.A. Griffin, G.C. Higgins, R. Mier, M.H. Passo, R. Rennebohm, K. Schikler, D.J. Lovell: Medication choices in juvenile rheumatoid arthritis *Journal of Clinical Rheumatology* 2001; 7: 295-300.
6. F.W. Miller, L. G Rider, for the International Myositis Outcome Assessment Collaborative Study Group (member: **H.I. Brunner**): Proposed preliminary core set measures for disease outcome assessment in adult and juvenile idiopathic inflammatory myopathies. *Rheumatology* 2001; 40: 1262-1273.

7. M.P. Scola, S.D. Thompson, **H.I. Brunner** M.K. Tsoras, D. Witte D. et al. Type 1 inducing cytokines IL-12, IL-15, IL-18 and IFN-gamma: IL-4 ratios in juvenile rheumatoid arthritis synovial tissue. *J Rheumatology* 2002. 29: 369-78.
8. **H.I. Brunner**, E.D. Silverman, T. To, C. Bombardier, B.M. Feldman: Risk factors for damage in childhood-onset SLE: cumulative disease activity over time and medication use predict disease damage. *Arthritis and Rheumatism* 2002; 45: 436-44.
9. **H.I. Brunner**, W.S. Chan, J. Ginsberg, B.M. Feldman: Long-term anticoagulation is preferable for patients with antiphospholipid antibodies syndrome (APLAS): results of a decision analysis. *J Rheumatology* 2002; 29:490-501.
10. **H.I. Brunner**, D. J. Lovell, B. K. Finck, E.H. Giannini: Preliminary definitions of disease flare in juvenile rheumatoid arthritis. *Journal of Rheumatology* 2002; 29:1058-64.
11. S. Thornton, D. Sowders, B. Aronow, D.P. Witte, **H.I. Brunner**, E.H. Giannini and R. Hirsch. 2002. DNA microarray analysis reveals novel gene expression profiles in collagen induced arthritis. *Clinical Immunology* 2002; 155-168.
12. S. Bernstein, **H. I. Brunner**, R. Summerbell, U. Allen, P. Babyn, and S. E. Richardson. 2002. Blastomycosis acquired by three children in Toronto. *Can J Infect Dis* 13:259-263.
13. **H.I. Brunner**, B. Wright, B.M. Feldman, M.B. Urowitz, D.D. Gladman: Preliminary item weightings for Systemic Lupus International Collaboration Clinics/ American College of Rheumatology Damage Index (SLICC) for adults with systemic lupus erythematosus (SLE). *J Rheumatology* 2003; 30: 292–297.
14. **H.I. Brunner**, E.D. Silverman, C. Bombardier, B.M. Feldman: The ECLAM may be more suitable than the SLEDAI to measure clinically important changes in disease activity in children with Systemic Lupus Erythematosus. *Arthritis & Rheumatism* 2003; 49: 335–341.
15. **H.I. Brunner**, D. Maker, B. Grundland, N.L. Young, V. Blanchette, A-M. Stain, B.M. Feldman: Preference-based measurement of health related quality of life (HRQL) in children with chronic musculoskeletal disorders: Utilities by standard gamble do not correlate with preferences measured by other techniques. *Medical Decision Making* 2003; 23: 314-322.
16. **H.I. Brunner**, O. Jones, D.J. Lovell, A.M. Tomasi, M.S. Klein-Gitelman: Lupus headaches and their impact on disease activity measured by the SLEDAI and the prediction of damage in juvenile systemic lupus erythematosus (jSLE). *Lupus* 2003; 12: 600-606.
17. D.A. De Albuquerque, V. Saxena, D. E. Adams, G. P. Boivin, **H. I. Brunner**, D. P. Witte, R. R. Singh. An ACE inhibitor reduces Th2 cytokines and TGFb-1 and -2 isoforms in murine lupus nephritis. *Kidney International*. 2004; 65: 846-859.
18. **H.I. Brunner**, N. Ruperto. Outcome Measures for Childhood-onset Systemic Lupus Erythematosus. *Pediatric Rheumatology Online Journal*; 2004 (2): May/June.
19. L. G. Rider, E. H. Giannini, **H. I. Brunner**, N. Ruperto, L. J.-Newton, A. M. Reed, P. A. Lachenbruch, F. W. Miller , for the International Myositis Assessment and Clinical Studies Group (IMACS). International Consensus Outcome Measures for Patients with Idiopathic Inflammatory Myopathies. Preliminary Definitions of Improvement for Adult and Juvenile Myositis. *Arthritis & Rheumatism* 2004; 50: 2281-90.
20. **H.I. Brunner**, M.S. Klein-Gitelman, M.J. Miller, N. Baldwin, M. Trombley, et al: Health of children with chronic musculoskeletal diseases: relationship of different measures and the quality of parent-proxy reporting. *Arthritis & Rheumatism* 2004; 51: 763-773.
21. A C Barron, T-L Lee, J Taylor, T Moore, M H Passo, T B Graham, T A Griffin, A A Grom, D J Lovell, and **H I Brunner**. Feasibility and Construct Validity of the Willingness-To-Pay (WTP) Technique for Measuring Health Care Preferences of Children with Juvenile Idiopathic Arthritis (JIA). *Arthritis & Rheumatism* 2004; 51: 899-908.
22. **H.I. Brunner**, M.S. Klein-Gitelman, M.J. Miller, N. Baldwin, M. Trombley, et al: Minimal clinically important differences of the childhood health assessment questionnaire (CHAQ). *J Rheumatol*; 2005; 32: 150-162.
23. G.D. Myer, **H.I. Brunner**, P.G. Melson, et al. Improved neuromuscular function and biomechanics with specialized neuromuscular training in a patient with quiescent JIA :a case report. *Phys Ther*. 2005; 85:791-802.
24. B. Carey; M. DeLay; J E. Strasser; C. Chalk; K. Dudley-McClain; G. N. Milligan; **H.I. Brunner**; S. Thornton, R. Hirsch. A Soluble Divalent Class I MHC/IgG Fusion Protein Activates CD8+T Cells in vivo. *Clin Immunol*, 2005;116: 65-76.

25. **H I Brunner**, A C Barron, L Johnson, T B Graham, M H Passo, T Jackson, and D J Lovell. Gastrointestinal (GI) symptoms and their association with health related quality of life of children with juvenile rheumatoid arthritis (JRA) – validation of a GI symptom questionnaire. *J Clin Rheumatol* 2005; 194- 204.
26. C.V. Oddis, L. G. Rider, A. M. Reed, N. Ruperto, **H. I. Brunner**, B. Koneru, B. M. Feldman, E. H. Giannini, F. W. Miller. International Myositis Assessment and Clinical Studies Group (IMACS). *Arthritis Rheum* 2005; 2607-15.
27. N. Fall, K.E. Bove, K. Stirnger, D.J. Lovell, **H.I. Brunner** et al.: Lack of angiogenic response in muscle tissues form patients with juvenile dermatomyositis is associated with high expression of angiostatic ELR-negative CXC-chemokines: Possible link to vasculopathy. *Arthritis Rheum* 2005; 3175-80.

2006 - 2010

28. **H.I. Brunner**, A. Bishnoi, A. C. Barron, L. J. Houk, A. Ware, Y et al. Long-term outcomes and ovarian function in childhood-onset Systemic lupus erythematosus (cSLE). *Lupus* 2006; 15: 198-206.
29. **H.I. Brunner**, T M Sherrard, M S Klein-Gitelman. Cost of Treatment of Childhood-Onset Systemic Lupus Erythematosus; *Arthritis Rheum* 2006; 55: 184-188.
30. **H. I. Brunner**, J Taylor, M.T. Britto, M S Corcoran, S. L. Kramer et al. Differences in disease outcomes between Medicaid and privately insured children: possible health disparities in juvenile rheumatoid arthritis (JRA). *Arthritis Rheum* 2006; 55:378-84.
31. M Chaudari, M Moroldo, S. K. Thompson, P. Hillard, B Huang, **H.I. Brunner**, D.N. Glass: Decreased reproductive fitness in childhood autoimmune arthropathy families. *Rheumatology* 2006;45:1282-7.
32. **H I. Brunner**, M Mueller, C Rutherford, M H Passo, et al. Urinary Neutrophil Gelatinase Associated Lipocalin (NGAL) as a Biomarker of Nephritis in Childhood-onset Systemic Lupus Erythematosus. *Arthritis Rheum* 2006; 54: 2577-2584.
33. E. Sommers, **H.I. Brunner**. L. Nabors. Pain, Fatigue, Family Functioning, and Attitude Toward Illness in Children with Juvenile Rheumatic Diseases. *J. Dev Phys Disabil* 2007;18: 64- 71.
34. Bleesing J, Prada E, Siegel DM, Villanueva J, Olson J, Ilowite N, **Brunner HI**, Griffin T, Graham TB, Sherry DD, Passo MH, Filipovich A, and Grom AA. The Diagnostic Significance of soluble CD163 and soluble IL2Ra chains in Macrophage Activation Syndrome and Untreated New Onset Systemic Juvenile Idiopathic Arthritis. *Arthritis Rheum* 2007; 729-735.
35. L Nabors, E Jobst, J Weisman, B. Precht, P Chiu, **H.I. Brunner**. School support and Functioning for Children with Juvenile Rheumatic Diseases. *J. Dev Phys Disabil* 2007; 19:81-89.
36. S. Koneru, M. Shishov, A. Ware, Y. Farhey, A. B. Mongey, J. L. Houk, **H.I. Brunner**. Effectively Measuring Adherence to Medications For Systemic Lupus Erythematosus In A Clinical Setting. *Arthritis Rheum* 2007, 57: 1000-1006.
37. C.A Silva, **H. I. Brunner**. Gonadal Functioning With Pediatric Lupus, *Lupus* 2007, 16:593-99.
38. J Mikdashi, JM Esdaile, GS Alarcón, L Crofford, BJ Fessler, L Schanberg, **H Brunner**, V Gall, JR Kalden, MD Lockshin, MH Liang, N Roberts Jr and M Schneider; for the Ad Hoc Committee on Lupus Response Criteria: Cognition Sub-committee: Proposed response criteria for neurocognitive impairment in systemic lupus erythematosus clinical trials. *Lupus* (2007) 16, 418–425.
39. **HI Brunner**, NM Ruth, A German, S Nelson, MH Passo, T Roebuck-Spencer, J Ying, D Ris: Initial validation of the pediatric automated neuropsychological assessment metrics for childhood-onset systemic lupus erythematosus. *Arthritis Rheum* 2007, 57: 1174-1182.
40. M. Suzuki, K.Wiers, S Nelson, C Rutherford, P Devarjan, **H I Brunner**: Identification of urinary proteomic signature for nephritis in children. *Pediatr Nephrol.* 2007; 22:2047-2057
41. M. DiFrancesco, S. Holland, D. Ris C. Adler, M. DeBello, M. Altaye, **H.I. Brunner**. Functional magnetic resonance imaging of cognitive function in childhood-onset systemic lupus erythematosus: a pilot study. *Arthritis Rheum.* 2007;56:4151-63.
42. M. Suzuki, K. M. Wiers, M. Klein-Gitelman, K. A. Haines, J....., J. Ying, P. Devarajan, **H.I. Brunner**. Neutrophil Gelatinase Associated Lipocalin as a Biomarker of Disease Activity In Pediatric Lupus Nephritis; *Pediatr Nephrol.* 2008; 23(3):403-12.

43. **H.I. Brunner**, D. D. Gladman, D. Ibañez, M. D. Urowitz, E. D. Silverman: Difference in disease features between childhood-onset and adult systemic lupus erythematosus (SLE). *Arthritis Rheum* 2008; 58: 556–562.
44. S. Koneru, L Kochrala, G. C. Higgins, A. Ware, M. H. Passo, Y. D. Farhey, A-B Mongey, T.B. Graham, J.L. Houk, **H. I. Brunner**. Adherence to medications in systemic lupus erythematosus. *J Clin Rheumatol*; 2008: 14(4):195-201.
45. M. Suzuki, K. Wiers, E.B. Brooks, K.D. Greis, K. Haines, M.S. Klein-Gitelman, J. Olson, K. Onel, K.M. O'Neil, E.D. Silverman, L. Tucker, J. Ying, P. Devarajan, **H. I. Brunner**. Initial validation of a novel protein biomarker panel for active pediatric lupus nephritis. *Ped Research* 2009 ;65(5):530-6.
46. **H.I. Brunner**, M.S. Klein-Gitelman, J. Ying, L.B. Tucker, E. D. Silverman. Corticosteroid use in childhood-onset systemic lupus erythematosus – practice patterns at four pediatric rheumatology centers, *Clin Exp Rheumatol* 2009; 27: 155-162.
47. S Collins, DP Schauer, A Gupta, **H Brunner**, AB Storrow, MH Eckman. Cost-Effectiveness Analysis of Emergency Department Decision Making in Non-High Risk Heart Failure Patients. *Amer J Emerg Medicine*; 2009; 27:293-302.
48. L. E. Schanberg, C. Sandborg, H.X. Barnhart, ... **H.I. Brunner**, L. Jung, J. B. Soep, A. Reed. Understanding Premature Atherosclerosis in Pediatric SLE: Risk Factors of Increased Carotid Intima Medial Thickness (CIMT) in the Atherosclerosis Prevention in Pediatric Lupus Erythematosus (APPLE) Cohort. *Arthritis Rheum* 2009, 60; 1496-1507.
49. **H. I. Brunner**, G. C. Higgins, K. Wiers, S.K. Lapidus, J.C. Olson, K. Onel, M. Punaro, J. Ying, M. S. Klein-Gitelman, M. Seid. Health-related Quality of Life (HRQoL) and its Relationship to Patient Disease Course in Childhood-onset Systemic Lupus Erythematosus (cSLE). *J Rheumatology* 2009; 36:1536–45.
50. C. H. Hinze, M. Suzuki, M. Klein-Gitelman, M. H. Passo, J. Olson, N. G. Singer, ..., L. Tucker, J. Ying, P. Devarajan, **H. I. Brunner**. Neutrophil Gelatinase-associated Lipocalin (NGAL) Predicts the Course of Global and Renal Childhood-Onset Systemic Lupus Erythematosus (SLE) Disease Activity. *Arthritis Rheum* 2009; 60:2772-2781.
51. L. Kocharla, J.L. Taylor, T. Weiler, T.V. Ting, M. Luggen, **H. I. Brunner**. Monitoring of methotrexate toxicity in juvenile idiopathic arthritis. *J Rheumatology* 2009; *J Rheumatology* 2009; 36(12):2813-2818.
52. K.R. Ford, G.D. Myer, P.G. Melson, S.C. Darnell, **H. I. Brunner**, T.E. Hewett. Land-Jump Performance in Patients with Juvenile Idiopathic Arthritis (JIA): A Comparison to Matched Controls," *International Journal of Rheumatology*, 2009:478526; Epub 2010 Jan 27.
53. **H.I. Brunner**, G.C. Higgins, K. Wiers, S.K. Lapidus, J.C. Olson, K. Onel, M. Punaro, J. Ying, M.S. Klein-Gitelman, E.H. Giannini. Validation of the Provisional Criteria for the Evaluation of Response to Therapy in Childhood-onset Systemic Lupus Erythematosus (cSLE). *Arthritis Care Res.* 2010; 62 (3): 335-344.
54. **H.I. Brunner**, M.S. Klein-Gitelman, G.C. Higgins, S.K. Lapidus, D. Levy, A. Eberhard, N. Singer, J.C. Olson, K. Onel, M. Punaro, L. Schanberg, E. Von Scheven, J. Ying, E.H. Giannini. Towards the Development of Criteria for Global Flares in Juvenile Systemic Lupus Erythematosus. *Arthritis Care Res.* 2010; 62: 811–820.
55. G.S. Ross, F. Zelko, M. Klein-Gitelman, D. M. Levy, E. Muscal, L.E. Schanberg, K. Anthony, **H. I. Brunner** for the Childhood Arthritis & Rheumatology Research Alliance (CARRA) Ad-Hoc Neurocognitive Lupus Committee. A proposed framework to standardize the neurocognitive assessment of pediatric patients. *Arthritis Care Res.* 2010; 62: 1029-33.

2011 - 2015

56. A.C. Sagcal-Gironella, T, Fukuda, K Wiers, Cox, S Nelson, B Dina, CMT Sherwin, M.S. Klein-Gitelman, A.A. Vinks, **H.I. Brunner**. Pharmacokinetics and pharmacodynamics of mycophenolic acid and their relationship to response to therapy of childhood-onset systemic lupus erythematosus. *Semin Arthritis Rheum.* 2011; 40:307-13.
57. **H.I. Brunner**, G.C. Higgins, K. Wiers, S.K. Lapidus, J.C. Olson, K. Onel, M. Punaro, J. Ying, M.S. Klein-Gitelman, E.H. Giannini. Minimal clinically important difference in disease activity measures for childhood-onset systemic lupus erythematosus. *Arthritis Care Res.* 2010; 62: 950-959.
58. SP Ardoin, LE Schanberg, C Sandborg, E Yow, HX Barnhart, KL Mieszkalski, NT Ilowite, E von Scheven, A Eberhard, DM Levy, Y Kimura, E Silverman, SL Bowyer, L Punaro, NG Singer, DD Sherry, D McCurdy, M Klein-Gitelman, C Wallace, R Silver, L Wagner-Weiner, GC Higgins, **HI Brunner**, LK Jung, L Imundo, JB Soep, AM

Reed, APPLE for the and Investigators. Laboratory markers of cardiovascular risk in pediatric SLE: the APPLE baseline cohort; *Lupus* 2010;1315-1325.

59. M. Antonchak, M. Saoudian, A Khan, **H. Brunner**, M. Luggen. Cognitive Dysfunction in Patients with Systemic Lupus Erythematosus: a Controlled Study. *J Rheumatol* 2011; *J Rheumatol* 2011;38 1020-1025.
60. **H.I. Brunner**, R. Mina, C. Pilkington, M.W. Beresford, A. Reiff, D.M. Levy, L.B. Tucker, B. A. Eberhard, A. Ravelli, L. Schanberg, C. Saad-Magalhaes, G.C. Higgins, K. Onel, N.G. Singer, E. von Scheven, L. Itert, M. S. Klein-Gitelman, M. Punaro, J. Ying, and E. H. Giannini. Preliminary Criteria for Global Flares in Childhood-Onset Systemic Lupus Erythematosus. *Arthritis Care & Research* 2011; 63: 1213-1223.
61. A.C. Sagcal-Gironella, CMT Sherwin, T, Fukuda, Cox, S Nelson, B Dina, M.S. Klein-Gitelman, **H.I. Brunner**, A.A. Vinks. Pharmacokinetics of prednisolone in childhood-onset systemic lupus erythematosus. *Clinical Therapeutics*. 2011; 33:1524–1536.
62. L. E. Schanberg, C. Sandborg, H. X. Barnhart, S. P. Ardoin, E. Yow, G. W. Evans, K. L. Mieszkalski, N. T. Ilowite, A. Eberhard, L. F. Imundo, Y. Kimura, E. von Scheven, Silverman, S. L. Bowyer, L. Punaro, N. G. Singer, D. D. Sherry, D. McCurdy, M. Klein-Gitelman, C. Wallace, R. Silver, L. Wagner-Weiner, G. C. Higgins, **H. I. Brunner**, M.S., L. Jung, J. B. Soep, A. Reed, J. Provenzale, for the APPLE investigators. Use of Atorvastatin in Systemic Lupus Erythematosus in Children and Adolescents. *Arthritis Rheum*. 2012 Jan;64(1):285-96.
63. T. V. Ting, D. Kudalkar, S. Nelson, S. Cortina, J. Pendl, S. Budhani, J. Neveille, J. Huggins, D. Drotar, and **H. I. Brunner**. Usefulness of cellular text messaging for improving adherence among adolescents and young adults with systemic lupus erythematosus. *J Rheumatol*. 2012; 39:174-9.
64. R. Mina, P. Melson; S. Powell, M Rao, C Hinze, M Passo, T. Graham, and *H.I. Brunner*. Effectiveness of dexamethasone iontophoresis for temporomandibular joint involvement in juvenile idiopathic arthritis. *Arthritis Care & Research* 2011; 63: 1511–1516.
65. Fukuda, PhD, **H. I. Brunner**, A. C. Sagcal-Gironella, A. A. Vinks. Nonsteroidal anti-inflammatory drugs may reduce enterohepatic recirculation of mycophenolic acid in patients with childhood-onset systemic lupus erythematosus. *Ther Drug Monit*. 2011; 33(5):658-62.
66. Sherwin CMT, Fukuda, T, **Brunner, HI**, Goebel, J, and Vinks, AA. The Evolution of Population Pharmacokinetic Models to Describe the Enterohepatic Recycling of Mycophenolic Acid in Solid Organ Transplantation and Autoimmune Disease. As per the endocrinology note DI is suspected but I had no way to know that this is now confirmed; *British Journal of Clinical Pharmacology* 2011;50:1-24.
67. **H. I. Brunner**, J. Huggins, M. Klein-Gitelman. Childhood-onset SLE - Towards A Comprehensive Management Plan. *Nature Review Rheumatology* 2011;7:225-33
68. L. E. Romick-Rosendale, **H. I. Brunner**, M. R. Bennett, R. Mina, M. Petri, A. Kiani, D. Witte, P. Devarajan, and M. A. Kennedy. Identification of urinary biomarkers to distinguish proliferative and membranous lupus nephritis and focal segmental glomerulosclerosis by NMR-based metabolomics analysis. *Arthritis Research & Therapy* 2011, 13:R199.
69. R. Mina, E. von Scheven, A.B. Eberhard, M. Punaro, S. Ardoin, M. Klein-Gitelman, R. Suhas, E. Muscal, H. Joyce, D. Levy, M. Nandini, L. Wagner-Weiner, C. Wallace, N. Ilowite, and **H.I. Brunner** for the Disease Specific Systemic Lupus Erythematosus Committee of the Childhood Arthritis & Rheumatology Research Alliance. Consensus treatment plans for induction therapy of newly-diagnosed proliferative lupus nephritis in juvenile systemic lupus erythematosus. *Arthritis Care Research*. 2012; 64:375-83.
70. C.M.T. Sherwin, A.C.P. Sagcal-Gironella, T. Fukuda, **H.I. Brunner** & A.A. Vinks. Development of population PK model with enterohepatic circulation for mycophenolic acid in patients with childhood-onset systemic lupus erythematosus. *British Journal of Clinical Pharmacology* 2012;73: 727-740.
71. C. Sherwin, C; Y. Fukuda, J. Goebel, S. Cox, **H.I. Brunner**, A.A. Vinks. The evolution of population pharmacokinetic models to describe the enterohepatic recycling of mycophenolic acid in solid organ transplantation and autoimmune disease. *Clinical Pharmacokinetics* 2011;50:1-24.
72. C.A. Wallace, E.H. Giannini, S.J. Spalding, P.J. Hashkes, K.M. O'Neil, A.S. Zeff, I.S. Szer, S. Ringold, **H.I. Brunner**, L.E. Schanberg, R.P. Sundel, D. Milojevic, M.G. Punaro, P. Chira, B.S. Gottlieb, G.C. Higgins, N.T. Ilowite, Y. Kimura, S. Hamilton, A. Johnson, B. Huang and D.J. Lovell, for the Childhood Arthritis Rheumatology Research Alliance (CARRA). Trial of early aggressive therapy in polyarticular juvenile idiopathic arthritis. *Arthritis Rheumatism* 2012; 64:2012-21.
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