Michelle R Hoffman

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**EDUCATION**

1984 Hastings College, Hastings, Nebraska

 Mary Lanning Memorial Hospital School of Nursing, Hastings, Nebraska

 BS/Diploma Nursing

1981 Arapahoe community College, Englewood, Colorado

 Associates of Arts

1978 Sheridan High School, Englewood, Colorado

**ACCADEMIC APPOINTMENTS AND POSITIONS**

1993-Present Senior Professional Research Assistant

Clinical Manager, DAISY Study, TEDDY Study, ASK Study: Barbara Davis Center, Dept. of Pediatrics,

School of Medicine, University of Colorado, Denver, Anschutz Medical Campus

1984-1993 Children’s Hospital Colorado, Denver, Colorado

1982-1984 Mary Lanning Memorial Hospital, Hastings, Nebraska

**PROFESSIONAL EXPERIENCE**

**Current Position**

1993-Present Barbara Davis Center, Dept. of Pediatrics, School of Medicine, University of Colorado, Denver, Anschutz Medical Campus

Clinical manager for DAISY, TEDDY and ASK Studies. This position involves ongoing protocol development, implementation and evaluation. Recruitment and retention of study subjects, obtaining informed consent, conducting interviews, data collection and documentation. It requires IV competency and phlebotomy.

Serves as a critical contact and information source for families participating in study protocols for T1D, Celiac and Thyroid Disease. Providing education of participants and their families of study objectives and disease processes. Provides case management care for research participants with an emphasis on the high risk of disease development participants.

Along with Physician Investigators, provides detailed explanations of study results. Educates participants in disease monitoring and coordinates cross study participation. Provides transition support for families moving from research participation to clinical care.

Provides education and support for all new staff including disease process, protocol adherence, interviewing, phlebotomy and IV competency.

Assists with staff hiring, training and annual reviews as appropriate.

Supervises and mentors clinical staff.

Participates as a member of TEDDY Celiac Disease Committee, the Clinical Implementation Committee and the Barbara Davis 2nd floor Space Committee.

**Previous Positions**

Children’s Hospital Colorado, Denver, Colorado

1992-1993 Staff Nurse III, Radiology

Performed conscious sedations for Pediatric patients undergoing MRI and CT examinations, monitoring physical status during and after procedures until discharge.

Assisted all Physicians with invasive Radiologic procedures, including placement of catheters and injection of IV contrast and mediums.

Member of Total Quality Assurance Committee.

1987-1992 Staff Nurse III, Charge Nurse, Child Psychiatric Crisis Unit

Provided care to children age 3-12 with a variety of medical and Psychiatric diagnoses.

Coordinated medical, behavioral and educational evaluations and the development of individual treatment plans. Coordinated and scheduled Psychiatric Care team including rounds, team meeting, and individual case and diagnostic staffing.

Member of Education Committee and Quality Assurance Committee.

1984-1992 Staff Nurse III, Level II Intensive Care Nursery at St. Lukes

Provided care to medically compromised newborns from time of delivery through stabilization and ongoing care until discharge. Including; ventilator care, chest tubes, post-surgical, chronic respiratory and gastrointestinal disorders. Collaborating with all disciplines and facilitating family centered care.

Member of Education Committee.

Preceptor for Senior year nursing students from University of Colorado in Advanced placement courses.

Preceptor in the Professional Nurse Intern Program.

1982-1984 Certified Nursing Assistant, Mary Lanning Memorial Hospital

Provided basic patient care under the supervision of nursing staff for variety of patients throughout the medical surgical departments.

**Active Grants**

 1993-Present Title: Natural History of Pre-Diabetic Autoimmunity (DAISY Study)

Funding Source: NIH, NIDDK/NIAID R01 DK32493

Dates and Status: 01/1992-4/30/20-Ongoing

Principal Investigator: Marian Rewers, MD, PhD

Role: Clinical Manager/Coordinator

To determine age-specific incidence of islet autoimmunity, environmental and genetic risk factors, and determinants of progression to diabetes.

 2015-Present DAISY Ancillary Studies:

 IVY’Omics: Nutrigenetics and Genomics in Type 1 Diabetes

 Principal Investigator: Jill Norris, PhD

 Role: Clinical Manager

2017-Present Immune Biomarkers in Type 1 Diabetes and Other Autoimmune Diseases

 Principal Investigator: Aaron Michels, MD

 Role: Clinical Manager

2003-Present Title: The Environmental Determinants of Diabetes in the young (TEDDY Study)

Funding Source: NIH, Diabetes, Digestive and Kidney Disease: U01-DK06382103

Dates and Status: 01/03-4/30/13-Ongoing

Principal Investigator: Marian Rewers, MD, PhD

Role: Clinical Manager, Celiac Committee, Clinical Implementation Committee member

The primary objectives of this multi-national, multi-center epidemiological study are to identify infectious agents, dietary factors, and other environmental exposures that are associated with increased risk of autoimmunity and type 1 diabetes in a cohort of newborns found to have high-risk HLA genotypes.

2016-Present Title: Autoimmunity Screening for Kids (ASK) Program

Funding Source: JDRF International, The Leona M. and Harry B. Helmsley Charitable Trust, and Janssen Research & Development, LLC.

Dates and Status: 09/16-11/20-Ongoing

Principal Investigator: Marian Rewers, MD, PhD

Role: Clinical Manager

The primary objectives of this program are to develop/implement a large scale screening program for children 2-17 to assess autoantibodies for T1D and celiac disease. Develop/implement a follow-up education and monitoring program designed to prevent DKA for those found to be positive for T1D autoantibodies. To increase the understanding and awareness of T1D and Celiac disease in the general public and practice communities and, to assess the cost effectiveness of general population screening.

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**PRESENTATIONS AND POSTERS**

Hoffman M, Beaty B, Klingensmith G, Norris JM, Rewers M (1997)

American Association of Diabetes Educators, Denver, CO, USA, August 1997. Diabetes AutoImmunity Study in the Young (DAISY). An observational Study of children at risk of developing IDDM.

**PUBLICATIONS**

Rewers M, TL Bugawan, JM Norris, A Blair, B Beaty, M Hoffman, RS McDuffie, RF Hamman, G Klingensmith, GS Eisenbarth, H Erlich. **Newborn screening for HLA markers associated with IDDM.** Diabetologia 1996;39:807-812.

Rewers M, Norris JM, Eisenbarth GS, Erlich HA, beathy B, Klingensmith G, Hoffman M, Yu Liping, Bugawan TL, Blair A, Hamman RF, et al. **Beta-cell autoantibodies in infants and toddlers without IDDM relatives**. J Autoimmunity 1996; 9:405-10.

Norris JM, B Beaty, G Klingensmith, L Yu, M Hoffman, HP Chase, HA Erlich, RF Hamman, GS Eisenbarth, M Rewers. **Lack of association between early exposure to cow's milk protein and beta-cell autoimmunity**. JAMA 1996; 276:609-14.

Yu J, L Yu, TL Bugawan, HA Erlich, K Barriga, M Hoffman, M Rewers, GS Eisenbarth. **Transient anti-islet autoantibodies: infrequent occurrence and lack of association with "genetic" risk factors**. J Clin Endocrinol & Metab 2000; 85:2421-8

Robles DT, Eisenbarth GS, Wang T, Erlich HA, Bugawan TL, Babu SR, Barriga K, Norris JM, Hoffman M, Klingensmith G, Yu L, Rewers M. **Identification of Children with Early Onset and High Incidence of Anti-islet Autoantibodies**. Clin Immun 2002; 102:217-24

Graves PM, Rotbart HA, Nix WA, Pallansch MA, Erlich HA, Norris JM, Hoffman M, Eisenbarth GS, Rewers M. **Prospective study of enteroviral infections and development of beta-cell autoimmunity: Diabetes autoimmunity study in the young (DAISY)**. Diabetes Research and Clinical Practice 2003; 59:51-61

Norris JM, Barriga K, Klingensmith G, Hoffman M, Eisenbarth GS, Erlich HA, Rewers M. **Timing of Initial Cereal Exposure in Infancy and Risk of Islet Autoimmunity**. JAMA 2003; 290(13): 1713-1720

Stene LC, Barriga K, Norris JM, Hoffman M, Klingensmith G, Erlich HA, Eisenbarth GS, Rewers M. **Symptoms of Common Maternal Infections in Pregnancy and Risk of Islet Autoimmunity in Early Childhood**. Diabetes Care 2003; 26(11): 3136-3141

Stene LC, Barriga K, Norris JM, Hoffman M, Erlich HA, Eisenbarth GS, McDuffie RS Jr, Rewers M: **Perinatal factors and development of islet autoimmunity in early childhood: the Diabetes Autoimmunity Study in the Young**. Am J Epidemiol 2004;160:3–10.

Stanley HM, Norris JM, Barriga K, Hoffman M, Yu L, Miao D, Erlich HA, Eisenbarth GS, Rewers M. **Is presence of islet autoantibodies at birth associated with development of persistent islet autoimmunity?** **The Diabetes Autoimmunity Study in the Young (DAISY).** Diabetes Care 2004; 27(2): 497-502

Barker JM, Goehrig SH, Barriga K, Hoffman M, Slover R, Eisenbarth G, Norris J, Klingensmith GJ, Rewers M. **Clinical characteristics of children diagnosed with type 1 diabetes through intensive screening and follow-up**. Diabetes Care 2004; 27(6): 1399-1404

Poole J, Barriga K, Leung D, Hoffman M, Eisenbarth G, Rewers M, Norris J. **Timing of initial exposure to cereal grains and the risk of wheat allergy**. Pediatrics 2006; 117(6): 2175-82

Stene L, Barriga K, Hoffman M, Kean J, Klingensmith G, Norris J, Erlich H, Eisenbarth G, Rewers M. **Normal but increasing hemoglobin A1C levels predict progression from islet autoimmunity to overt type 1 diabetes: Diabetes Autoimmunity Study in the Young (DAISY).** 2006; 7: 247-253

Norris JM, Yin X, Lamb MM, Barriga K, Seifert J, Hoffman M, Orton HD, Baron AE, Clare-Salzler M, Chase HP, Szabo NJ, Erlich H, Eisenbarth GS, Rewers MJ: **Omega-3 polyunsaturated fatty acid intake and islet autoimmunity in children at increased risk for type 1 diabetes.** JAMA 2007;298:1420–1428.

Lamb MM, Yin X, Barriga K, Hoffman MR, Barón AE, Eisenbarth GS, Rewers M, Norris JM.

**Dietary glycemic index, development of islet autoimmunity, and subsequent progression to type 1 diabetes in young children.** J Clin Endocrinol Metab. 2008 Oct;93(10):3936-42. doi: 10.1210/jc.2008-0886. Epub 2008 Aug 5.

[Simpson M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Simpson%20M%5BAuthor%5D&cauthor=true&cauthor_uid=21858504)1, [Brady H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Brady%20H%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Yin X](https://www.ncbi.nlm.nih.gov/pubmed/?term=Yin%20X%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Seifert J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Seifert%20J%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Barriga K](https://www.ncbi.nlm.nih.gov/pubmed/?term=Barriga%20K%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Hoffman M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hoffman%20M%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Bugawan T](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bugawan%20T%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Barón AE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bar%C3%B3n%20AE%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Sokol RJ](https://www.ncbi.nlm.nih.gov/pubmed/?term=Sokol%20RJ%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Eisenbarth G](https://www.ncbi.nlm.nih.gov/pubmed/?term=Eisenbarth%20G%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Erlich H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Erlich%20H%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Rewers M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rewers%20M%5BAuthor%5D&cauthor=true&cauthor_uid=21858504), [Norris JM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Norris%20JM%5BAuthor%5D&cauthor=true&cauthor_uid=21858504). **No association of vitamin D intake or 25-hydroxyvitamin D levels in childhood with risk of islet autoimmunity and type 1 diabetes: the Diabetes Autoimmunity Study in the Young (DAISY).** [Diabetologia.](https://www.ncbi.nlm.nih.gov/pubmed/21858504) 2011 Nov;54(11):2779-88. doi: 10.1007/s00125-011-2278-2. Epub 2011 Aug 20.

Steck AK, Dong F, Taki I, Hoffman M, Klingensmith GJ, Rewers MJ **Early hyperglycemia detected by continuous glucose monitoring in children at risk for type 1 diabetes.** Diabetes Care. 2014 Jul;37(7):2031-3. doi: 10.2337/dc13-2965. Epub 2014 May 1.

Chan CL, Taki I, Dong F , Hoffman M, Norris JM, Klingensmith GJ, Rewers MJ, Steck AK **Comparison of Metabolic Outcomes in ChildrenDiagnosed with Type 1 Diabetes Through ResearchScreening (Diabetes Autoimmunity Studyin the Young [DAISY]) Versus in the Community** September 2015 Diabetes Technology & Therapeutics 17(9):649-656 DOI: 10.1089/dia.2015.0029

Steck AK, Dong F, Frohnert BI, Waugh K, Hoffman M, Norris JM, Rewers MJ. **Predicting progression to diabetes in islet autoantibody positive children.** J Autoimmun. 2018 Jun;90:59-63. doi: 10.1016/j.jaut.2018.01.006. Epub 2018 Feb 1.

Steck AK, Dong F, Taki I, Hoffman M, Simmons K, Frohnert BI, Rewers MJ. **Continuous Glucose Monitoring Predicts Progression to Diabetes in Autoantibody Positive Children.** J Clin Endocrinol Metab. 2019 Mar 7. pii: jc.2018-02196. doi: 10.1210/jc.2018-02196.

Honors and Awards

Star Award, Juvenile Diabetes Foundation 2000

Professional Memberships

American Diabetes Association

American Association of Diabetes Educators (previous membership)

Licensure/Certifications

RN License: Colorado, USA

Certified Basic Life Support

NDS Certification

CITI, Human Research, HIPS, Good Clinical Practice

CU Mini Med School, University of Colorado, Denver, Colorado 2016