

Heidi D. Lane, PT, DPT, PCS
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Education:

University of Utah, Salt Lake City, Utah
Doctor of Physical Therapy, December 2008

University of Utah, Salt Lake City, Utah
Bachelor of Science in Physical Therapy, June 1994

Employment:

10/97-present Physical Therapist (pediatric and adult)
Intermountain Hemophilia and Thrombosis Center
Primary Children's Medical Center, Salt Lake City, UT

1/2012-present Assistant Professor (Clinical) - University of Utah Department of Physical Therapy
PH TH 7920 Doctoral Seminar II (9/08 – present)
PH TH 7250 Management in Pediatrics (1/10 – present)
PH TH 1010 Foundations of Physical Therapy: An Introductory Course (8/10-present)
PH TH 7810 Clinical Internship I – Teaching Assistant (5/10 – present)
PH TH 7970 Doctoral Project (2012-present)
PH TH 7300 Neuromuscular Management: co-instructor (8/10 – 12/2012)

6/11-present Adjunct Assistant Professor of Pediatrics, School of Medicine

9/08-12/2011 Instructor (Clinical) - University of Utah Department of Physical Therapy:

8/10-present Utah Regional Leadership Education in Neurodevelopmental Disabilities (URLEND)
Roles: Core Faculty, Management Sub-committee, Program Evaluation Sub-Committee
Program Grant Total: \$860,000

6/94-present Per Diem Physical Therapist - Department of Inpatient Rehabilitation
Primary Children's Medical Center, Salt Lake City, U

11/96-7/07 Physical Therapist - Department of Outpatient Rehabilitation (pediatric)
Primary Children's Medical Center, Salt Lake City, UT

4/04- 9/05 Physical Therapist/Early Interventionist - Summit County Early Intervention, Park City, UT

6/96-8/96 Per Diem Physical Therapist - Intermountain Health Care, Salt Lake City, UT

8/94-8/96 Physical Therapist - Jordan School District, Midvale, UT

10/94-8/96 Physical Therapist - Outpatient Pediatric Clinic, K2D2 Therapy, Salt Lake City, UT

11/94-8/96 Physical Therapist/Early Interventionist - Jordan Child Development Center, Salt Lake City, UT

6/94-8/94 Per Diem Physical Therapist (Adult Orthopedics)
Salt Lake Clinic & Professional Therapy, Salt Lake City, UT

Lectures/Presentations/Posters/Publications:

5/2014 *Submitted for Platform Presentation: What is the cost of delaying prophylaxis until the school years? Results from the Joint Outcome Study Continuation Project.* Marilyn J. Manco-Johnson, Michael L. Manco-Johnson, Taylor A. Blades, Sharon Funk, Heidi Lane, Kevin McRedmond, Amy L Dunn, Michael Recht, Amy D. Shapiro, Leonard A. Valentino and Deborah Brown (under review) World Federation of Hemophilia World Congress, Melbourne, Australia, 2014

2/2014 *Publication: Functional Outcomes Following Ankle Arthrodesis in Males with Hemophilia: Analyses Using the CDC's Universal Data Collection Surveillance Project.* Lane, Heidi; Siddiqi, Azfar-E-Alam; Ingram-Rich, Robina; Tobase, Patricia; Ward, R. Scott. Haemophilia. In Press - accepted for publication 2/5/14.

- 12/2013 *Platform Presentation: Long-term orthopedic effects of delaying prophylaxis in severe hemophilia A until age 6 years: Interim results of the Joint Outcome Study Continuation Project.* Marilyn J. Manco-Johnson, Michael L. Manco-Johnson, Taylor A. Blades, Sharon Funk, **Heidi Lane**, Kevin P. McRedmond, Amy Dunn, Heidi Lane, Michael Recht, Amy D. Shapiro, Leonard A. Valentino, Debra Brown and John Kittelson. American Society of Hematology Annual Meeting, New Orleans, Louisiana
- 4/2010, 4/2011, 2/2012, 10/2013
Program Evaluation: URLEND Seminar, Salt Lake City, UT
- 2/2010, 2/2011, 1/2012, 3/2013, 10/2013
Funding sources outside the world of “grants” - 340B and Hemophilia Treatment Centers - URLEND Seminar, Salt Lake City, UT
- 10/2013 *Utah Medical Home Demonstration Project & the Intermountain Hemophilia and Thrombosis Center: Lessons Learned and Progress to date?* National Hemophilia Foundation Annual Meeting, Anaheim, CA
- 4/2013 *Utah Medical Home Demonstration Project & the Intermountain Hemophilia and Thrombosis Center: Lessons Learned and Progress to date.* Mountain States Regional Hemophilia Network Annual Regional Meeting, Seattle, WA
- 1/2013 *Publication: Effect of Secondary Prophylaxis Versus Episodic Treatment on Range of Motion of a Target Joint in patients with Hemophilia.* Sweta Gupta, Azfar-E-Alam Siddiqi, J. Michael Soucie, Marilyn Manco-Johnson, Roshni Kulkarni, **Heidi Lane**, Robina Ingram-Rich, Joan C. Gill, Joint Outcomes Committee of Universal Data Collection and the Hemophilia Treatment Centres Network. British Journal of Hematology, May 2013.
- 12/2012 *Poster presentation: URLEND Regional LEND Program Evaluation: the Process for Progress.* Association of University Centers on Disability 2012 Annual Conference, Washington, DC
- 9/2012 *Co-presenter: Designing a Clinical Curriculum/Syllabus,* The Northwestern Intermountain Consortium (NIC) of Physical Therapy Clinical Education Programs – 2012 NIC Clinical Education Conference, Park City, UT
- 7/2012 *Poster presentation: Outcomes in Activity, Participation and Body Structure Following Ankle Arthrodesis in Persons with Hemophilia: Analyses Using the Universal Data Collection Surveillance Project.* World Federation of Hemophilia (WFH) 2012 World Congress, Paris, France.
- 7/2012 *Poster presentation: Joint Preservation Post Ankle Arthrodesis in Hemophilia: A Review.* WFH 2012 World Congress, Paris, France.
- 7/2012 *Poster presentation: Trends in invasive orthopedic interventions in people with hemophilia enrolled in the Universal Data Collection (2000-2010).* WFH 2012 World Congress, Paris, France.
- 5/2012 *Poster presentation: Effect of Secondary Prophylaxis versus Episodic Treatment on Range of Motion of a Target Joint in Hemophilia Patients.* The Thrombosis and Hemostasis Summit of North America 2012, Chicago, IL
- 3/2012 *Poster presentation: Outcomes Following Ankle Arthrodesis In Hemophilia: Analyses Using the Universal Data Collection Surveillance Project .* 2nd National Conference on Blood Disorders in Public Health, Atlanta, GA.
- 10/10-5/13 (05/13) *Living Fit! Cardiovascular Fitness,* Bleeding Disorder Foundation of Washington - Quarterly Meeting 2013, Seattle, WA; (04/13) *Living Fit! Cardiovascular Fitness,* Bleeding Disorder Foundation of Washington - Eastern Washington Annual Meeting 2013, Spokane, WA; (12/12) *Living Fit! Strength Training,* Bleeding Disorder Foundation of Washington - Eastern Washington Annual Meeting 2012, Spokane, WA; (10/12) *Living Fit! Strength Training,* Eastern Idaho Hemophilia Foundation - Idaho Falls, ID; (10/11) *Living Fit! Tips for Healthy Living,* Hawaii Hemophilia Foundation – Education Day, Honolulu, HI; (5/11) *Bleeding Disorder Foundation of Washington – Quarterly meeting,* Seattle Washington; (3/11) *Montana Hemophilia Foundation-Annual Meeting,* Billings, MT; (2/11) *Utah Hemophilia Foundation-Teen Meeting,*

- Sandy, UT; (12/10) Idaho Hemophilia Foundation-Annual Meeting Boise, ID; (10/10) Hemophilia Foundation of New Mexico - Annual Meeting, Albuquerque, NM
- 11/11 *Physical Therapy Education Update & Lessons Learned From Working with the Universal Data Collection: Where do we go from here?* National Hemophilia Foundation Annual Meeting, Chicago, IL
- 7/11 *Orthopedic/Treatment Grand Rounds; Hemophilia & Aging; Exercise & Nutrition (children & adults):* National Hemophilia Foundation Inhibitor Summit, San Francisco, CA.
- 3/11 *When the PT is away... for nurses working with people with bleeding disorders,* Bi-regional (VIII & X) Annual Hemophilia Meeting, Portland, OR
- 4/10 *Clinical Research: getting started & using medical search engines - a practical "guide" for PT's working with people with bleeding disorders.* Region IX Annual Meeting for Federally Funded Hemophilia Treatment Centers, Sacramento, CA
- 5/09 *Outcomes Following Ankle Arthrodesis for a Young Adult Male with Severe Hemophilia: a critical appraisal.* Tri-regional (VIII, IX, & X) Advance Practice Conference for Hemophilia Treatment Center Nurses, Physical Therapists and Social Workers, Scottsdale, AZ
- 11/08 *Doctoral Project Presentation - Outcomes Following Ankle Arthrodesis for a Young Adult Male with Severe Hemophilia: a critical appraisal,* University of Utah, Department of Physical Therapy, Salt Lake City, UT
- 5/05 *Exploring Barriers in Living a Healthy Lifestyle:* National Hemophilia Foundation- National Prevention Program, Santa Fe, NM
- 4/05 *Warning Signs of a Joint Bleed:* Family Forum-Utah Hemophilia Chapter, Park City, UT
- 5/04 *Ankle Fusions and Hemophilia: Using Evidenced Based Practice to look at the Data,* Regions VIII, IX, & X Advance Practice Hemophilia Conference
- 11/03 *Crutch and Assistive Device Training for PT's and Nurses New to Hemophilia,* National Hemophilia Foundation Annual Meeting, Salt Lake City, UT
- 5/02 *Physiotherapy Outcomes Measures for People with Bleeding Disorders,* XXV Biennial International Congress of the World Federation of Haemophilia, Seville, Spain. (Poster)
- 11/01 *Physical Therapy Outcomes Measures for People with Bleeding Disorders,* National Hemophilia Foundation Annual Meeting, Nashville, TN
- 3/01 Teaching Assistant: Craniosacral Therapy Level I, Upledger Institute, S.L.C., UT
- 1/00 *Help! There is an acute bleed and our P.T. Isn't available,* Regions VIII, IX, & X Advance Practice Hemophilia Conference, San Francisco, CA
- 1/99 *Facilitating Motor Development With the Therapy Ball,* Utah Early Intervention Conference, Salt Lake City, UT
- 4/99 *Physical Therapy and Hemophilia,* Utah Hemophilia Chapter Meeting, Park City, UT
- 10/95 *Physical Therapy in the School Systems,* University of Utah, S.L.C., UT
- 6/94 *Management of Spasticity,* University of Utah, S.L.C., UT
- 8/94-present PCMC staff and student inservices topics: the Feldenkrais Method, Craniosacral Therapy Techniques, normal motor development, developmental testing, hemophilia, splinting for acute joint bleeds, and management of vincristine peripheral neuropathy.

Professional Activities:

- 11/2013 Faculty Board Member – UU Department of Physical Therapy Student Run Pro-Bono Clinic
- 10/2013 Technical Assistance and Facilitator: *Partners™ in Bleeding Disorders Education - Presentation Skills Workshop.* Indianapolis, IN
- 8/2013 Technical Assistance: Baxter Regional Hemophilia Clinicians meeting: *Intervention Approaches to Minimize the Impact of Bleeding: helping healthcare professionals optimize patient care, independence, health, and wellness.* Dallas, Texas.
- 6/13 Peer reviewer for Poster Presentations – National Hemophilia Annual Conference 2013
- 4/2013 Policy/Advocacy: represented the National Hemophilia Program and the Hemophilia Alliance in educating senators and representatives on the importance of protecting the 340B/hemophilia

programs as these programs provide essential supplemental funding to MCHB hemophilia treatment centers across the country.

- 1/2013 Technical Assistance: National Hemophilia Program Coordinating Center (NHPCC) - Regional Leadership Work Group as a member of the "HP2020 indicator BDBS-16 Subgroup". The charge for this subgroup was to 1) determine the indicator(s); 2) finalize indicator wording; and 3) determine relevant data sources.
- 3/11-present Site Co-Principle Investigator - *Medical Home Demonstration Project*: a collaborative project with Children's Healthcare Improvement Collaboration (CHIC) & Utah Pediatric Partnership to Improve Healthcare Quality (UPIQ) - site: Intermountain Hemophilia and Thrombosis Center
- 5/11- present Principle Investigator - *Range of motion (ROM) pre and post total joint arthroplasty in people with bleeding disorders enrolled in the Universal Data Collection (UDC)*: A collaborative project with UDC Joint Committee and the Center for Disease Control.
- 2/11- present Co-Investigator - *Trends in invasive orthopedic procedures for patients with bleeding disorders enrolled in the Universal Data Collection*: A collaborative project with UDC Joint Committee and the Center for Disease Control.
- 1/11-present Technical assistance for articles focused on health/wellness for people with bleeding disorders – a consumer based publication: Hemaware-The Bleeding Disorders Magazine; National Hemophilia Foundation, New York, NY
- 12/09-present Site Principle Investigator – "Joint Outcome Study-Continuation"
Total Funding: ~\$600,000
- 7/2008-present Technical Assistance: UDC Joint Outcome Group - a collaborative effort between the National Hemophilia Treatment Center Network and the Center for Disease Control.
- 7/99-present Utah Hemophilia Foundation-Bleeding Disorder Summer Camp, Tooele, UT
- 6/12 Peer reviewer: *Archives of Physical Medicine and Rehabilitation* – hemophilia/gait project
- 6/12 Peer reviewer for Poster Presentations – National Hemophilia Annual Conference 2012
- 01/12 Peer reviewer: *Journal of Hand Therapy* - pediatric focused project.
- 11/11- 3/12 Technical Assistance provided to the CDC & National Hemophilia Treatment Center Network: impact of joint health on physical functioning in hemophilia data points - from the physical therapists perspective – for the CDC surveillance data base beginning 2012.
- 8/10- 10/12 Discussion Forum Manager – UPTA Pediatric SIG, Executive Committee
- 7/07-5/2012 Regional Executive Committee - Physical Therapy Representative for federally funded hemophilia treatment centers of Region VIII
- 7/11 Faculty – National Hemophilia Foundation Inhibitor Summit, San Francisco, CA.
- 2009 Co-Author of the Fitness Guidelines for the *Living Fit! A Joint Effort™* program: A wellness program for 10-16 year olds with Hemophilia A.
- 9/08-4/09 Leadership Education in Neurodevelopment and Related Disabilities: Association of University Centers on Disabilities – Fellow/Trainee
- 1/04-11/06 National Hemophilia Foundation-Physical Therapy Working Group (NHF-PTWG): Region VIII Representative.
- 12/97-03 Data Collection for the "Joint Outcome Study" (Manco-Johnson, NEJM, 2007)
- 2004 Co-Editor: Heidi Lane, PT, PCS for the *Physical Therapists' Guide to Bleeding Disorder: An Orientation Manual*, An NHF-PTWG project published by the National Hemophilia Foundation, 2004.
- 6/02-6/05 Program Lead: development and implementation of the protocol and core competency for *Treatment of Congenital Muscular Torticollis in Infants and Children*, Primary Children's Medical Center
- 11/00-11/01 NHF-PTWG: Chair Elect.
- 3/99-11/01 NHF-PTWG: Region VIII Representative.
- 1/97-1/98 PCMC: Physical Therapy Student Clinical Coordinator
- 1/97-present PCMC: Clinical Instructor.

Conferences:

1/14 APTA Annual Combined Sections Meeting, Las Vegas, NV
10/2013 National Hemophilia Foundation Annual Meeting, Anaheim, CA
4/2013 Mountain States Regional Hemophilia Treatment Center Network: Bi-regional (VIII & X) Hemophilia Annual Meeting, Seattle, WA
1/13 APTA Annual Combined Sections Meeting, San Diego, CA
10/12 UPTA Annual Fall Conference, Layton, UT
7/12 World Federation of Hemophilia - 2012 World Congress, Paris, France
4/12 Bi-regional (VIII & X) Hemophilia Annual Meeting, Colorado Springs, CO
3/2012 2nd National Conference on Blood Disorders in Public Health, Atlanta, GA.
2/12 APTA Annual Combined Sections Meeting, Chicago, IL
11/11 National Hemophilia Foundation Annual Meeting, Chicago, IL
11/11 AUCD Annual Conference, Washington, D.C.
3/11 Bi-regional (VIII & X) Hemophilia Meeting, Portland, OR
2/11 APTA Annual Combined Sections Meeting, New Orleans, LA
10/10 National Hemophilia Foundation Annual Meeting, New Orleans, LA
10/10 Pediatric Track – Utah Physical Therapy Association, Fall Conference, Layton, UT
4/10 Bi-regional (VIII & X) Hemophilia Meeting, Santa Fe, NM
4/10 Tri-regional (VIII, IX, & X) Advance Practice Conference for Hemophilia Treatment Center Nurses, Physical Therapists and Social Workers (APC-HTC), Scottsdale, AZ
2/09 APTA Annual Combined Sections Meeting, Las Vegas, NV
11/08 National Hemophilia Foundation Annual Meeting, Denver, CO
05/08 Bi-regional (VIII & X) Hemophilia Meeting, Coeur D’Alene, ID
10/07 National Hemophilia Foundation Annual Meeting, Orlando, FL
10/06 National Hemophilia Foundation Annual Meeting, Philadelphia, PA
5/06 Biennial International Congress of the World Federation of Haemophilia, Vancouver, BC
9/06 Tri-regional (VIII, IX, & X) APC-HTC, San Francisco, CA
5/06 Bi-regional (VIII & X) Hemophilia Meeting, Seattle, WA
10/05 National Hemophilia Foundation Annual Meeting, San Diego, CA
5/05 Bi-regional (VIII & X) Hemophilia Meeting, Santa Fe, NM.
10/04 National Hemophilia Foundation Annual Meeting, Dallas, TX
5/04 Utah Hemophilia Chapter Meeting, Snowbird, UT
5/04 Tri-regional (VIII, IX, & X) APC-HTC, San Francisco, CA
4/04 Bi-regional (VIII & X) Hemophilia Meeting, Newport, OR.
11/03 National Hemophilia Foundation Annual Meeting, Salt Lake City, UT
5/03 Utah Hemophilia Chapter Meeting, Park City, UT
5/03 Tri-regional (VIII, IX, & X) APC-HTC, San Francisco, CA
4/03 Bi-regional (VIII & X) Hemophilia Meeting, Boulder, CO.
5/02 Utah Hemophilia Chapter Meeting, Park City, UT
4/02 Bi-regional (VIII & X) Hemophilia Meeting, Boise, ID
11/01 National Hemophilia Foundation Annual Meeting, Nashville, TN
5/01 Tri-regional (VIII, IX, & X) APC-HTC, San Francisco, CA
3/01 Bi-regional (VIII & X) Hemophilia Meeting, Sedona, AZ
11/00 National Hemophilia Foundation Annual Meeting, Anaheim, CA
4/00 Bi-regional (VIII & X) Hemophilia Meeting, Park City, UT
1/00 Tri-regional (VIII, IX, & X) APC-HTC, San Francisco, CA
11/99 National Hemophilia Foundation Annual Meeting, Dallas, TX
4/99 Utah Hemophilia Chapter Meeting, Park City, UT
10/98 National Hemophilia Foundation Annual Meeting, Orlando, FL
4/98 Bi-regional (VIII & X) Hemophilia Meeting, Santa Fe, NM
1/98 Tri-regional (VIII, IX, & X) APC-HTC, San Francisco, CA
10/97 National Hemophilia Foundation Annual Meeting, New Orleans, LA

10/93,94,95 Utah Physical Therapy Annual Chapter Meeting, S.L.C., UT

Continuing Education Courses:

- 09/13 *Improving Healthcare Transitions for Children with Special Health Care Needs – Session II (4.0 CME)*, Salt Lake City, UT (Utah Pediatric Partnership to Improve Healthcare Quality, 9/27/13)
- 1/13 *APTA Annual CSM Preconference: Linking Structure to Function: Muscle, Bone and Brain*; San Diego, CA
- 2/12 CSM Preconference: *The Child’s Developing Brain: Emerging Neuroscience and its Therapeutic Implications*; Chicago, IL
- 2/11 *APTA Annual CSM Preconference: Advances in Pediatric Examination and Intervention and Update for Clinical Practice*, New Orleans, LA
- 11/10 *Train the Trainer: Strategies for Improving your Presentations Partners in Bleeding Disorders Education*, New Orleans, LA
- 06/10 *General Movement Assessment of Infants: certificate of training*, Provo, UT
- 10/09 *12th Annual Advanced Clinical Practice In Pediatric Physical Therapy*, Chicago, IL
- 12/07 *Joint Outcome Study: A Review*, Web-based teleconference, U.Nebraska Medical Center
- 11/04 *Introduction to Sensory Integration for SLP’s and PT’s*, Salt Lake City, UT
- 11/03 *6th Annual Advanced Clinical Practice In Pediatric Physical Therapy*, Columbus, OH
- 10/02 *Understanding and Managing Visual Deficits in Children*, Salt Lake City, UT
- 8/02 *Clinical Decision Making to Achieve Functional Ambulation in Children With Cerebral Palsy, Using an NDT Approach*, PCMC, Salt Lake City, UT
- 6/02 *Torticollis: Diagnosis, Assessment and Treatment of Infants and Children*, SLC, UT
- 1/01 *Neurodevelopmental Treatment Approach to Baby Treatment*, Salt Lake City, UT
- 11/99 *Pediatric Complex Chronic Pain and Pain-Associated Disability Syndrome*, presented by the U.C.L.A. Pediatric Pain Clinic, Salt Lake City, UT
- 10/99 *Enhancing Your Treatment Repertoire: Making Sound Clinical Decisions for Children with Diplegia and Hemiplegia*, Ogden, UT
- 2,4,5/99 *Feldenkrais Training Program*, Reese Movement Institute, San Diego, CA
- 1/99 *Fluid Moves: the Feldenkrais Method adapted for gait, water therapy, and the injured skier*, Sun Valley, ID
- 1/99 Wee FIM System Certification, Salt Lake City, UT
- 6/97 *Core Zero Balancing*, Salt, Lake City, UT
- 4/97 *Muscle Energy Techniques (Spine)*, San Francisco, CA
- 3/97 *Dynamic Splinting Training Course*, Cascade Prosthetics and Orthotics, San Diego, CA
- 1/96-1/97 *Craniosacral Therapy Level I, II, and S.E.R. I*, Upledger Institute, SLC, UT/SF, CA
- 2/96 *Strain and Counterstrain I*, Jones Institute, Sun Valley, ID
- 1/95 *Seating Workshop: Posture Invites Movement*, S.L.C. UT
- 1/95 *The McConnell Patellofemoral Treatment Plan*, S.L.C. UT

Honors/Awards/Secured grant funding:

- 9/13-9/15 National Hemophilia Foundation: HTC Capacity Building Grant recipient – \$6,000
Emergency Preparedness Development for Bleeding Disorders Community served by the IHTC
- 7/08-6/09 National Hemophilia Foundation: Physical Therapy Excellence Fellowship in Hemophilia
Grant Amount: \$10,000
- 11/08 National Hemophilia Foundation: Physical Therapist of the Year

Certifications:

Credentialed Clinical Instructor (1/2008)
Pediatric Certified Specialist, American Board of Physical Therapy Specialists (6/2004)

Licensure:

Utah #275523-2401 (exp.05/31/15)