

Kirsten Sueppel Hanrahan, DNP, ARNP, CPNP-PC,

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Iowa City, Iowa 52245
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LICENSURE AND CERTIFICATION

1996-present	Advanced Registered Nurse Practitioner: Iowa Board of Nursing #C-075154 Expires 5-15-15
1994-present	Certified Pediatric Nurse Practitioner, Primary Care: Pediatric Nursing Certification Board National Certification Board of Pediatric Nurse Practitioners and Nurses #94122 Expires 2-28-14
1986-present	Registered Nurse: Iowa Board of Nursing #075154 Expires 5-15-15

EDUCATION

2007-2010	Doctor of Nursing Practice University of Iowa
1991-1994	Master of Arts University of Iowa
1981-1985	Bachelor of Science in Nursing University of Iowa

EXPERIENCE

2011-present	Associate Research Scientist, Nurse Scientist University of Iowa Hospitals and Clinics Department of Nursing Nursing Research and Evidence-Based Practice
2007-present	Pediatric Nurse Practitioner, Intensive Care University of Iowa Hospitals and Clinics Department of Pediatrics, Division of Neonatology Neonatal Intensive Care, Bay 4-5
2007-present 2002-2007	Program Assistant, Clinical Research Consultant Project Director, Clinical Research Coordinator Predicting Children's Responses to Distraction from Pain Funded by National Institutes of Health RO1:NR0569-01A2 University of Iowa College of Nursing
1996-2003	Pediatric Nurse Practitioner University of Iowa Hospitals and Clinics Department of Pediatrics, Division of Neonatology Neonatal Intensive Care Unit and Intermediate Care Nurseries
1996-1997	Pediatric Nurse Practitioner University of Iowa Hospital Schools High Risk Infant Follow-up Program Department of Pediatrics

1992-1996	Advanced Practice Nurse-Clinical Nurse Specialist University of Iowa Hospitals and Clinics Department of Nursing, Division of Pediatrics, Obstetrics and Gynecology
1991-1992	Nursing Supervisor University of Iowa Hospitals and Clinics Department of Nursing, Division of Pediatrics
1988-1991	Assistant Nurse Manager University of Iowa Hospitals and Clinics Department of Nursing, Division of Pediatrics, 2JCC General Pediatric Unit
1986-1988	Staff Nurse University of Iowa Hospitals and Clinics Department of Nursing, Division of Pediatrics, 2JCW Infant Unit

RESEARCH

2012-present	Co-Primary Investigator Dr Anne Ersig <u>Stressors and Anxiety Responses of Hospitalized Adolescents with Chronic Illnesses and their Parents</u> University of Iowa Nursing Research and Evidence-Based Practice University of Iowa College of Nursing
2012-present	Investigator <u>Long-Term Benefits of the Advanced Practice Institute on Evidence-Based Practice (EBP) Self-Efficacy and EBP Behaviors & Practices</u> PI: Dr. Tucker and Laura Cullen University of Iowa Nursing Research and Evidence-Based Practice
2011-present	Co-Primary Investigator <u>Predicting Children's Distraction from Pain: Nurse Interviews</u> Drs. Ann Marie McCarthy and Charmaine Kleiber University of Iowa Nursing Research and Evidence-Based Practice University of Iowa College of Nursing
2007-present	Program Assistant, Clinical Research Consultant <u>Predicting Children's Responses to Distraction from Pain-Continuation</u> PI: Drs. Ann Marie McCarthy and Charmaine Kleiber Funded by National Institutes of Health RO1:NR0569-01A2 University of Iowa College of Nursing
2002-2007	Project Director, Clinical Research Coordinator <u>Predicting Children's Responses to Distraction from Pain</u> PI: Drs. Ann Marie McCarthy and Charmaine Kleiber Funded by National Institutes of Health RO1:NR0569-01A2 University of Iowa College of Nursing
1999	Research Assistant III <u>Decreasing Child Distress During Medical Procedures</u> PI: Dr. Charmaine Kleiber Funded by Children's Miracle Network Telethon Fund University of Iowa Hospitals and Clinics, College of Nursing.

- 1996-1998** **Co-Investigator**
Saline for Peripheral Intravenous Locks in Neonates: Evaluating a Change in Practice
 PI: Charmaine Kleiber
 University of Iowa Hospitals and Clinics.
- 1995-1996** **Research Assistant III**
Parent-Child Interactions During Painful Urological Procedures
 PI: Charmaine Kleiber
 Funded by Society of Pediatric Nurses
 University of Iowa Hospitals and Clinics, College of Nursing.
- 1995-1996** **Research Assistant III**
Evaluation of a School Re-entry Program for Children with Cancer
 PI: Dr. Ann Marie McCarthy, with Chris Plummer and Dr. Janet Williams
 Funded by Gamma Chapter, Sigma Theta Tau Research Grant
 University of Iowa Hospitals and Clinics, College of Nursing.
- 1994-1996** **Research Assistant III**
Non-Pharmacological Interventions for Procedural Pain
 PI: Dr. Ann Marie McCarthy and Dr. Val Cool,
 Funded by Children's Miracle Network Telethon Research Grant
 University of Iowa Hospitals and Clinics, College of Nursing.
- 1994** **Primary Investigator**
Altered Parenting and High Risk for Altered Parenting: Validation and Differentiation of the Defining Characteristics
 Master's Thesis.
- 1992** **Co-investigator**
Normal Saline vs. Heparin for Peripheral IV's in Children
 Dr. Charmain Kleber, with Cindy Fagan & Maureen Zittergruen,
 Pediatric Nursing, University of Iowa Hospitals and Clinics.
- 1984** **Research Assistant**
Nursing Interventions for Children with Pain Research
 Dr. Joann Eland
 University of Iowa College of Nursing

PUBLICATIONS

- Hanrahan, K. (in review). Hyaluronidase for IV Extravasation Evidence-Based Guideline. In A. M. McCarthy (Series Ed.), Series on *Evidence-Based Practice for Children and Families*, Iowa City, IA: The University of Iowa College of Nursing, Office for Nursing Research.
- Hanrahan, K. (in press). Hyaluronidase for Treatment of Intravenous Extravasations: Implementation of an Evidence-Based Guideline in a Pediatric Population, *Journal for Specialist in Pediatric Nursing*, -
- Cullen, L., Dawson, C., Hanrahan, K., & (in press) Evidence-Based Practice Strategies for Nursing Leaders, In Huber: Leadership and Nursing Care Management, 5th edition
- Cullen, L., Tucker, S., Hanrahan, K., Remple, G., & Jordan, K. (2012). Evidence-Based Practice Building Blocks: Comprehensive Strategies, Tools, and Tips. Iowa City, IA, University of Iowa Hospitals and Clinics, Nursing Research and Evidence-Based Practice.

- Hanrahan, K., McCarthy, A. M., Kleiber, C., Ataman, K., Street, N., Zimmerman, M. B., & Ersig, A. L. (2012). Building a Computer Program to Support Children, Parents, and Distraction during Healthcare Procedures, *Computers, Informatics, Nursing*, 30(10), 554-561. .
- Petitgout, J., Pelzer, D. E., McConkey, S. A., Hanrahan, K. (2012) Development of a Hospital-Based Care Coordination Program for Children with Special Health Care Needs, *Journal of Pediatric Health Care*, e-pub 10.1016/j.pedhc.2012.03.005
- Hanrahan, K. (2011). Hyaluronidase for treatment of extravasations in neonates (abstract). *Advances in Neonatal Care*, 11(4), 299-300.
- McCarthy, A. M., Hanrahan, K., Scott, L. M., Zemblidge, N., Kleiber, C., & Zimmerman, M. B. (2011). Salivary cortisol responsivity to an intravenous catheter insertion in children with attention deficit/hyperactivity disorder. *Journal of Pediatric Psychology*, 36(8), 902-910.
- McCarthy, A. M., Kleiber, C., Hanrahan, K., Zimmerman, M. B., Westhus, N., & Allen, S. (2010). Factors explaining children's responses to intravenous needle insertions. *Nursing Research*, (59)6, 407-416.
- McCarthy, A. M., Kleiber, C., Hanrahan, K., Zimmerman, M. B., Westhus, N. & Allen, S. (2010). Impact of parent provided distraction on child responses to an IV insertion. *Children's Health Care*, 39(2), 125-141.
- McCarthy, A. M., Hanrahan, K., Kleiber, C., Zimmerman, M. B., Lutgendorf, S., & Tsalikian, E. (2009). Normative salivary cortisol values and responsivity in children. *Applied Nursing Research*, 22, 54-62.
- Kleiber, C., McCarthy, A. M., Hanrahan, K. S., Myers, L & Weathers, N. (2007). Development of the Distraction Coaching Index. *Children's Health Care*, 36(3), 219-235.
- Kleiber, C., Schutte, D., McCarthy, A. M., Floria-Santos, M., Murray, J. C., & Hanrahan, K. S. (2007). Predictors of topical analgesic effectiveness in children. *Journal of Pain*, 8, 168-174.
- Schutte, D., McCarthy, A. M., Hanrahan, K. S., Floria-Santos, M., Murray, J. C., & Kleiber, C. (2006). Integrating molecular genetic analyses into clinical research. *Biological Research in Nursing*, 8: 67-77.
- Hanrahan, K. S., McCarthy, A. M., Kleiber, C., Lutgendorf, S., & Tsalikian, E. (2006). Strategies for salivary cortisol collection and analysis in research with children. *Applied Nursing Research*, 19(2): 95-101.
- McCarthy, A. M., Kleiber, C., & Hanrahan, K. S. (2004). Issues in measuring children's preferred style of coping with pain. *The Journal of Pain*, 5 (supplement), 103.
- Hanrahan, K. S. & Lofgren, M. (2004). Evidence-based practice: Examining the risk of toys in the microenvironment of infants in the neonatal intensive care unit. *Advances in Neonatal Care*, 4(4), 184-201.
- Hanrahan, K. S. (2001). Feeding Behavior Modification. In M. Craft-Rosenberg & J. Denehy (Eds.) *Nursing Interventions for the Childbearing and Childrearing Families*. Thousand Oaks, CA,: Sage Publications.
- Hanrahan, K. S., Kleiber, C. & Berends. (2000). Saline for peripheral IV locks in neonates: Evaluating a change in practice. *Neonatal Network*, 19(1).
- Montgomery L. A., Hanrahan, K. S., Kottman K., Otto A., Barrett T., & Hermiston B. (1999). Guidelines for IV infiltration in pediatric patients. *Pediatric Nursing*, 25(2), 167-180.
- McCarthy, A. M., Cool, V. A. & Hanrahan K. (1998). Cognitive behavioral interventions for children during painful procedures: Research challenges and program development. *Journal of Pediatric Nursing*, 13(1), 55-63.

Hanrahan, K., Kleiber, C., & Fagan, C.A. (1993). Evaluation of normal saline for IV maintenance in children. *Pediatric Nursing*, 20 (6),

Kleiber, C., Hanrahan, K. S., Fagan, C. A. & Zittergruen, M. (1992). Heparin vs. normal saline for peripheral IV's in children. *Pediatric Nursing*, 19, 405-409.

Turk, L. J ., Hanrahan, K., & Weber, E. R. (1990). Munchausen syndrome by proxy: A nursing overview. *Issues in Comprehensive Pediatric Nursing*, 13(4), 278-288.

SELECTED PRESENTATIONS

- August 2012** From Research Results to Prediction and Translation: A Decision Support System for Children, Parents and Distraction During Healthcare Procedures
Sacred Cow Gone to Pasture: Using the Iowa Model for Promoting Evidence-Based Practice
Implementation and Evaluation of an Evidence-Based Guideline in a Pediatric Population: Hyaluronidase to Treat IV Extravasations (poster)
Genomic Data in a Two-Phase Intervention Trial: The DIG Team Experience (poster)
Honor Society of Nursing, Sigma Theta Tau International; 23rd International Nursing Research Congress, Brisbane, Australia
- May 2012** Evaluating Practice: Evidence-Based or Sacred Cows?
19th National Evidence-Based Practice Conference: Remaking Health Care, Iowa City, Iowa (poster)
- April 2011** Hyaluronidase for the Treatment of Extravasations in Neonates
6th Annual NANN Research Summit, Scottsdale, Arizona
- March 2011** Factors Associated with Parents' Ability to Provide Distraction Coaching for Children During an IV Insertion (poster)
Midwest Nursing Research Society, Columbus, Ohio
- April 2010** A Tailored Intervention for Distracting Children from Medical Procedures: Using an Evidence-Based Guideline and Computer Technology
Hyaluronidase to Treat Pediatric IV Extravasations: An Evidence-Based Guideline (poster)
17th National Evidence-Based Practice Conference: Technological Innovations for Evidence-Based Practice, Iowa City, Iowa.
- April 2010** Hyaluronidase to Treat Pediatric IV Extravasations: An Evidence-Based Guideline (poster)
Midwest Nursing Research Society, Kansas City, Missouri
- March 2010** Parent Distraction Coaching During Painful Medical Procedures: Data Mining to Develop a Computerized Predictive Model of Distress (workshop presentation)
8th International Symposium on Pediatric Pain, Acapulco, Mexico
- April 2008** The Computerized Predictive Model of Distress for Medical Procedures in Children (research podium)
29th Annual Conference on Pediatric Health Care, NAPNAP, Nashville, Tennessee.
- April 2007** Parent Distraction During a Peripheral IV insertion: Cortisol Responsivity and Predictors of Child Distress. (poster)
Society of Pediatric Nurses Annual Convention, Milwaukee, Wisconsin.

- April 2006** Predictors of Child Response to Parent Distraction During a Medical Procedure. (workshop presentation)
7th International Symposium on Pediatric Pain, Vancouver, Canada.
- April 2006** Father's Providing Distraction Coaching for their Child During a Painful Medical Procedure. (poster)
Normal Values and the Impact of a Painful Procedure on Salivary Cortisol Levels in Children (poster)
Teaching Parents to Provide Distraction Coaching for their Children during Medical Procedures (poster)
Midwest Nursing Research Society, Milwaukee, Wisconsin.
- April 2005** Predictors of Topical Anesthetic Effectiveness for Children's Pain (poster)
Development of a Scale to Measure the Quality of Parent Distraction Coaching (poster)
Validation of the "Distraction Coaching Intensity" Scale (poster)
Relationship between Genetic Variants and Pain Response in Children Receiving an IV (poster)
Parent and Child Reports of Child's Preferred Coping Style with Pain
Midwest Nursing Research Society, Cincinnati, Ohio.
- May 2004** Issues in Measuring Children's Preferred Style of Coping with Pain (poster)
Joint Meeting of the Canadian and American Pain Societies, Vancouver, BC, Canada
- April 2004** Research to Practice: Parents as Distraction Coaches
Society of Pediatric Nurses Annual Conference, Las Vegas, Nevada
- April 2004** Toys in the NICU
Iowa Great Plains Organization 30th Conference on Perinatal Medicine, Des Moines, Iowa
- Feb. 2004** Challenges in Salivary Cortisol Collection and Analysis in Pediatric Researchers (poster)
Midwest Nursing Research Society, St. Louis, Missouri.
- April 2003** International Nursing Experiences
Iowa Great Plains Organization 29th Conference on Perinatal Medicine, Des Moines, Iowa
- Nov. 1999** Saline for Peripheral IV Locks in Neonates: Evaluating a Change in Practice
Neonatal Update, Iowa City, Iowa.
- Sept. 1998** Percutaneous Line Maintenance
Iowa Perinatal Program, Collaborative Care of the High-Risk Infant, Iowa City, Iowa.
- Sept. 1998** Heparin vs. Saline for Peripheral IVs in Neonates: Increasing Power Through Practice, (poster)
1999 National Research Utilization Conference, Iowa City, Iowa.

OTHER PROFESSIONAL EXPERIENCE

2010-present **Adjunct Faculty**
University of Iowa College of Nursing

Expert Witness**2012-present**

2010 **Missouri Delta Medical Center**
Sikeston, Missouri

2008 **Cabell Huntington Hospital**
Huntington, West Virginia

2004 **Children's Hospital Medical Center**
Cincinnati, Ohio

2003 **Mayo Clinic and Saint Mary's Hospital**
Rochester, Minnesota

Medical Mission

2003 **Project New Start**
Bucharest Romania

Preceptor/Mentor**Graduate Students**

2012-present Gail Reynolds, DNP student preceptor

2012-present Laura Ramsey, DNP student preceptor

2012-present Maria Lofgren, DNP student preceptor

2011-present Danielle Wendel, DNP student preceptor

2007- present PNP/FNP students and pediatric residents

Undergraduate Students

2012-2013 Jeanette George, Young Scientist, University of Iowa

2012 Jackie Bannon, Iowa Biosciences Advantage Student

2009 Rea Roxas, Honor Student Independent Study, University of Iowa,

2008-2009 Lauren Whitaker, Young Scientist, University of Iowa

2004-2008 Latisha Meyers, Iowa Biosciences Advantage Student

2005 Ruth Garcia, High School Secondary Student Training Program Student

2004-2005 Ashlee Fifer, Young Scientist, University of Iowa

2004 Shannon Ault, Honor Student Independent Study, University of Iowa,

2004 Andy Whitters, Honor Student Independent Study, Mount Mercy

2002-2003 Samantha Chinderle, Young Scientist, University of Iowa

Reviewer

2011-present Journal for Specialist in Pediatric Nursing

PROFESSIONAL MEMBERSHIPS

National Association of Neonatal Nurses #00115838

Iowa Association of Neonatal Nurses #10242

Midwest Nurses Research Society #011868

National Association of Pediatric Nurse Practitioners- # 40160

Sigma Theta Tau International; Gamma Chapter #0097722

HONORS AND AWARDS

- 2013** **2013 100 Great Iowa Nurses**
100 Great Iowa Nurses, Coralville, Iowa
- 2010** **2010 March of Dimes Graduate Nursing Scholarship**
March of Dimes, White Plains, NY
- 2010** **Spring 2010 Murtis and Andy Smith Scholarship**
University of Iowa College of Nursing
- 2007** **Youth Bearevement Volunteer of the Year Award**
Iowa City Hospice, Iowa City, Iowa.
- 2007** **Outstanding Research Poster Award**
Society of Pediatric Nurses Annual Convention, Milwaukee, Wisconsin.
- 2002** **Above and Beyond Award**
University of Iowa Hospitals and Clinics, Iowa City, Iowa.
- 1995** **Outstanding Masters Student Poster-Honorable Mention**
Midwest Nursing Research Society, Kansas City, Kansas.
- 1992** **1992 Completed Research Recognition Award**
Pediatric Nursing, Washington, DC.