

UTHSCSA DEPARTMENT OF PEDIATRICS
ANNUAL REPORT OF RESEARCH, SCHOLARLY ACTIVITY AND
ACADEMIC ACCOMPLISHMENTS
2014

INTRODUCTION

On behalf of the Department of Pediatrics of the University of Texas Health Science Center at San Antonio (UTHSCSA), I am pleased to present this report of research, scholarly activity and academic accomplishments for calendar year 2014. As an academic pediatrics department, our faculty are dedicated to generating new knowledge, and committed to disseminating that knowledge to students, trainees, practicing health professionals, patients and the public. Our goals are to advance biomedical and clinical science, improve the care of the patients we serve, and positively impact the health of the community-at-large.

Our faculty is large and diverse, and the contributions included in this report are commensurate with that size and diversity. Topics range from fundamental scientific discovery to practical application. Some contributions reflect the key contribution of a single individual, while others represent the cumulative effect of a large network of collaborators. Accomplishments which include the efforts of our students, residents and other trainees are particularly well represented and reinforce our other major academic activity, education. The report includes peer-reviewed publications in some of the most widely read medical journals and faculty presentations at national and international forums.

Our academic mission is not only our job, it is our passion. It is what drives us to be at the forefront of pediatric care. We hope you will take pride in our faculty accomplishments. If I can put you in touch with one of our outstanding faculty members-for information, as a resource for patient care, or as a potential recipient of your philanthropic support-please don't hesitate to call on me.

Thomas C. Mayes, MD, MBA

Chairman, Department of Pediatrics

NOTES

Items included in this report are those which occurred in calendar year 2014. The report is organized by division; reports which involve faculty members from more than one division may be listed more than once. Items were proofed in several stages with faculty input. Intramural, including curricular, presentations were omitted for the sake of brevity.

Anthony J. Infante, MD, PhD

Associate Chairman for Research & Academic Affairs

CHILD ABUSE PEDIATRICS

Publications

Dubowitz H, Christian CW, Hymel K, **Kellogg N D**. Forensic Medical Evaluations of Child Maltreatment: A Proposed Research Agenda. Child Abuse and Neglect 2014 Dec;1734-1746

Knox BL, Starling SP, Feldman KW, **Kellogg ND**, Frasier LD, Tiapula SL. Child Torture as a Form of Child Abuse. Journal of Child & Adolescent Trauma 2014 Mar;7:37-49.

Kellogg ND. Working with Child Protective Services and Law Enforcement: What to Expect. Pediatric Clinics of North America 2014 Oct:1037-1047

Flaherty EG, Perez-Rossello JM, Levine MA, Hennrikus WL, **Lukefahr JL**, et al. American Academy of Pediatrics Committee on Child Abuse and Neglect; Section on Radiology, American Academy of Pediatrics, et al. Evaluating Children with Fractures for Child Physical Abuse. Pediatrics 2014 Feb;133(2):e477-e489

Melville J, Kellogg N, Perez, Nadia E, **Lukefahr J**. Assessment For Self-Blame And Trauma Symptoms During The Medical Evaluation of Suspected Sexual. Abuse Child Abuse and Neglect 2014 May;38(5):851-857.

Narang S, Clarke J. Abusive Head Trauma: Past, Present, and Future. J Child Neurol 2014 Oct: 0883073814549995

Presentations

Kellogg N. "Why didn't you tell? Helping families and children weather the process of a sexual abuse disclosure." Penn State's 3rd Annual Conference on Child Protection and Well-Being, May 2014

Kellogg N, "Medical Evaluation of Child and Adolescent Sexual Abuse Patterns of Disclosure in Sexually Abused Children." 28th Annual Conference on Prevention of Child Abuse, March 2014

Nienow S, "Patterns of Disclosure Among Children Evaluated for Sexual Abuse,"
Ray Helper Annual Conference, April 2014

Awards

Clarke J, 1st place in Single or Multiple Case Presentation for Fellows in the Texas Pediatric Society's Resident Section Electronic Poster Exhibit Contest, September 2014

Lukefahr J, Texas Pediatric Society Sidney R. Kaliski Award of Merit, September 2014

COMMUNITY PEDIATRICS

Publications

Prechet AM, Ryerson ES, Villela Perez V, Ingram MV, **Amodei N**, Miller A, Gonzalez M. Healthy Relationships: The Adoption, Adaptation, and Implementation of a DEBI Within Two Clinical Settings. Health Promotion Practice 2014 Sept:1524839914551201

Presentations/abstracts

Ingram MV, Villela Perez V, **Amodei N**, **German V**. Reducing Barriers to HIV/AIDS Care in Minority Women: A Multifaceted Approach. Poster presented at the Society for Public Health Education Annual Conference, Baltimore, MD, March 2014

Scott A, Benavides H, Cortinas C, Hudson D, Sesay I. The PLAY Campaign: Evaluation Outcome Differences between Male and Female High-Risk Populations Receiving Evidence-Based Prevention Education-Preliminary Analysis. Poster presented at the Texas Psychological Association Conference, Dallas, TX, November 2014

Scott A, Emmerich A, Simmonds K, Benavides H, Hudson D. Predictors of Condom Usage in High-Risk Areas of Bexar County-Street Intercept Survey

Preliminary Analysis. Poster presented at the Texas Psychological Association Conference, Dallas, TX, November 2014

Riske B, **Amodei N**, Farley L. Psychometric Properties of the Center for Epidemiological Studies Depression Scale on Project Teen Reach Population. Poster presented at the Texas Psychological Association Conference, Dallas, TX, November 2014

Cortinas C, Burge S, Schneegans, SW, **Amodei N**, Williams J. SBIRT Training Improves the Documentation of Screening in Pediatric Outpatient Settings. Poster presented at the Texas Psychological Association Annual Conference, Dallas, TX, November 2014

Awards

Amodei N (PI) Precious, Substance Abuse and Mental Health Services Administration, Center for Substance, 09/30/2014 – 09/29/2017, \$1,193,714 total

Scott A (PI) 01/01/2014 – 12/31/2014, **Amodei N** (PI), **Biever JL** (PI - Our Lady of the Lake University) PLAY Campaign, Precious, Substance Abuse and Mental Health Services Administration, Center for Substance, 09/30/2014 – 09/29/2017, \$900,000 total, \$557,385 subcontract to UTHSCSA

Amodei N (PI) Stringfellow R (PI – Center for Health Care Services), The Supports in Housing for Verteran’s Project, Substance Abuse and Mental Health Services Administration, Center for Substance, 09/30/2014 – 09/29/2017, \$1,200,000 total, \$209,550 to UTHSCSA

CRITICAL CARE

Publications

Hymel K, **Armijo-Garcia V**, Foster R, Frazier T, Stoiko M, Christie LM, Harper NS, Weeks K, Carroll CL, Hyden P, Sirotnak A, Truemper E, Ornstein A, Wang M.

Validation of a Clinical Prediction Rule for Pediatric Abusive Head Trauma.

Pediatrics; originally published 2014 Nov 17; Also in print in 2014 Dec;134(6).

DOI: 10.1542/peds.2014-1329.

Vela, L, Kane LC, **Woodward CS**. A System's Approach to Improving Preoperative Antibiotic Timing in Congenital Heart Surgery. American Journal of Critical Care 2014 May

Van Ramshorst RD, Gingaras C, Kozinetz CA, Montgomery Collins E, Hansen I, Schwarzwald H. Rate and Determinants of Virologic Failure in HIV-Infected Youth Receiving First-Line Emtricitabine/Tenofovir Disoproxil Fumarate/Efavirenz (Atripla) Compared to Other Antiretroviral Drug Regimens. Ro J Infect Dis, 2014. 17(4): 186-193.

Presentations/abstracts

Carrillo, S. (mentor: Roozbeh Taeed), "Immunization of Children with Congenital Heart Disease Undergoing Cardiopulmonary Bypass" podium presentation at AAP National Conference in San Diego Oct 11-14, 2014.

Carrillo S, Armijo-Garcia V, Froehlich C, Paden ML. Complication-Related Outcomes in Children With Malignancy and Respiratory Failure Requiring Extracorporeal Life Support. The University of Texas Health Science Center at San Antonio. Children's Healthcare of Atlanta/Emory University. Presented at Euro ELSO by Dr. Carrillo, in Paris, France, May 2014

Hunter JM, Armstrong K, Kesten K. *BSN to DNP opportunities: History, challenges, and outcomes*. Pre-Conference Workshop presented at the Seventh National Doctors of Nursing Practice Conference – The DNP in Practice: The Health, the Care, and the Cost, Nashville, Tennessee, October 2014

Grants (new, competitive renewal)

Meyer A (PI), Morrison Trust grant award “Pro-thrombotic Blood Cell-Derived Microparticles Generated by Cardiopulmonary Bypass” \$72,000

GENERAL PEDIATRICS

Publications

Levy S, **Williams JF**. Adolescent substance use: The role of the medical home. Adolesc Med State Art Rev 2014 April;25(1):1-14.

Williams JF, Lundahl LH, Fortune RS-D. Evolving array of substances used by adolescents. Adolesc Med State Art Rev 2014 April;25(1):184-214.

Williams JF, Burton RS, Warzinski SS. The role of the parent in adolescent substance abuse. Pediatr Ann 2014 Oct;43(10):e237-e241.

Presentations/abstracts

Burge S, Cortinas C, Warzinski SS, **Amodei N, Williams JF**. “SBIRT Training Improves the Documentation of Screening in Pediatrics Outpatient Settings.” Society of Teachers of Family Medicine (STFM) National Conference, San Antonio, TX, May 2014. Pediatrics Research Day, San Antonio, TX, May 2014; Update presented: Texas Psychological Association, Dallas, TX, November 2014.

Ehlers, S, “12 Steps to Success: Reducing Patient Visit Time in the Pediatric Residents’ Continuity Care Clinic,” Texas Medical Association, Quality Poster Session at TexMed 2014, Fort Worth. Third place award. Also presented at The University of Texas System’s Shared Visions: Improving Systems to Improve Lives conference, October 2014.

Hanson E, Petershach J. Reflecting on Reflection: A Comparison of Two Approaches to Analysis of Reflective Writing Pieces in the Evaluation of an Advocacy Experience in Juvenile Justice. Abstract. *UT Innovations in Health Science Education Conference*. 2014.

Hanson E, Von Stultz J, Parra J, Garcia R, **Courand J**. Creating a Resident Educational Experience in Juvenile Justice: A Partnership between UTHSCSA Pediatrics and the Bexar County Juvenile Probation Department. Abstract/Poster Discussion. *UT Innovations in Health Science Education Conference*. 2014.

Hanson E, **Petershack J**. Reflecting on Reflection: A Comparison of Two Approaches to Analysis of Reflective Writing Pieces in the Evaluation of an Advocacy Experience in Juvenile Justice. Abstract. *Pediatric Academic Societies*, 2014; Abstract #751016.

Hanson E, Klein M, Dreyer B, Boyd R, Lichtenstein C, Meyer D, Navsaria D, Rao S, Chamberlain L. Developing a National Child Poverty Curriculum: The Process and Initial Products of the APA Task Force on Childhood Poverty Education Subcommittee (CPES). *Pediatric Academic Societies*, 2014

Williams JF, Alaeddini A, Guha S, Motasemi MA. "Moving Mountains: Systems Changes Changing Lives." Presented at UTS Shared Visions Conference: Improving Systems to Improve Lives, San Antonio, TX, October 2014.

GENETICS, DEVELOPMENTAL PEDIATRICS AND CHILD NEUROLOGY

Publications

Cody JD, Hasi, M, Soileau, B, Heard, P, Carter, E, Sebold, C, **O'Donnell L**, Perry, B, Stratton RF, **Hale, DE**. Establishing a reference group for distal 18q-: Clinical description and molecular basis. *Hum Genet* 2014 Feb;133(2):199-209. doi: 10.1007/s00439-013-1364-6.

Hermetz KE, Newman S, Conneely KN, Martin CL, Ballif BC, Shaffer LG, **Cody JD**, Rudd MK. Large inverted duplications in the human genome form via a fold-back mechanism. *PLoS Genet*. 2014 Jan 30;10(1):e1004139. doi:10.1371/journal.pgen.1004139.

Perry, B, **Cody JD**. Otologic characteristics of individuals with deletions of distal 18q. The Laryngoscope 2014 Jun 10. doi: 10.1002/lary.24769.

Gelfond, JA, Ibrahim JG, Gupta M, Chen M-H, **Cody JD**. Differential expression analysis with global network adjustment. BMC Bioinformatics 2013;14:258, doi:10.1186/1472-2105-24-258.

Perry BP, Sebold, C, Hasi, M, Heard, P, Carter, E, Hill, A, Gelfond JA, **Hale DE, Cody, JD**. Sensorineural hearing loss in people with deletions of 18q. Otol Neurotol 2014 Jun;35(5):782-786. doi: 10.1097/MAO.0000000000000363.

Daviss WB, **O'Donnell L**, Soileau, B, Heard, P, Carter, E, Pliszka SR, Gelfond JA, **Hale DE, Cody JD**. Mood Disorders in Individuals with Distal 18q Deletions. Am J Med Genet B Neuropsychiatr Genet 2013 Oct;162B(8):879-888. doi: 10.1002/ajmg.b.32197.

HEMATOLOGY/ONCOLOGY

Publications

Ranch D, Crowther BR, Arar MY, **Assanasen C**. Prophylactic eculizumab for kidney transplantation in a child with atypical hemolytic uremic syndrome due to complement factor H mutation. Pediatric Transplantation 2014 Sep;18(6)

Pan H, Qin K, Guo Z, Ma Y, April C, Gao X, Andrews TG, Bokov A, Zhang J, Chen Y, Weintraub S, Fan J, Wang D, Hu Y, **Aune GJ**, Lindsey ML, Li R. RNA Polymerase II Pausing Factor NELF Controls Energy Homeostasis in Cardiomyocytes. Cell Reports 2014; PMID: 24656816.

Lindsey, ML, Lange, RA, Andrews, TG, and **Aune GJ**. Pediatric Mouse Model of Anthracycline-induced Cardiac Toxicity. Keystone Symposia-Fibrosis: From Bench to Bedside. 2014 Mar

Lindsey ML, Lange RA, Parsons H, Andrews TG, **Aune GJ**. The Tell-Tale Heart: Molecular and Cellular Responses to Childhood Anthracycline Exposure.

American Journal of Physiology: Heart and Circulatory Physiology 2014 Sep;
PMID: 25217655

Boyce, T. Professional Nurse-Patient Relationships. Essentials of Pediatric Hematology/Oncology Nursing: A Core Curriculum Fourth Edition 2014;338-345. In Kline, N (Ed.), Chicago, IL: APHON.

Zebrack BJ, Corbett V, **Embry L**, Aguilar C, Meeske KA, Hayes-Lattin B, Block R, Zeman DT, Cole S. Psychological distress and unsatisfied need for psychosocial support in AYA cancer patients during the first year following diagnosis. Psycho-oncology 2014 Jun 11; Epub

Annett RD, Hile S, Bedrick E, Kunin-Batson AS, Krull KR, **Embry L**, MacLean WE, Noll RB. Neuropsychological functioning of children treated for acute lymphoblastic leukemia: Impact of whole brain radiation therapy. Psycho-oncology, 2014 Jun 2; Epub

Whitlow PG, Caparas M, Cullen P, Trask C, Schulte F, **Embry L**, Nagarajan R, Johnston DL, Sung L. Strategies to improve success of pediatric cancer cooperative group quality of life studies: a report from the Children's Oncology Group. Qual Life Res 2014 Nov 29;Epub

Roberts KG, Li Y, Payne-Turner D, Harvey RC, Yang YL, Pei D, McCastlain K, Ding L, Lu C, Song G, Ma J, Becksfort J, Rusch M, Chen SC, Easton J, Cheng J, Boggs K, Santiago-Morales N, Iacobucci I, Fulton RS, Wen J, Valentine M, Cheng C, Paugh SW, Devidas M, Chen IM, Reshmi S, Smith A, Hedlund E, Gupta P, Nagahawatte P, Wu G, Chen X, Yergeau D, Vadodaria B, Mulder H, Winick NJ, Larsen EC, Carroll WL, Heerema NA, Carroll AJ, Grayson G, Tasian SK, Moore AS, Keller F, **Frei-Jones M**, Whitlock JA, Raetz EA, White DL, Hughes TP, Guidry Auvil JM, Smith MA, Marcucci G, Bloomfield CD, Mrózek K, Kohlschmidt J, Stock W, Kornblau SM, Konopleva M, Paietta E, Pui CH, Jeha S, Relling MV, Evans WE, Gerhard DS, Gastier-Foster JM, Mardis E, Wilson RK, Loh ML, Downing JR, Hunger SP, Willman

CL, Zhang J, Mullighan CG. Targetable kinase-activating lesions in Ph-like acute lymphoblastic leukemia. N Engl J Med 2014;371(110): 1005-15.

Hung JY, Horn D, Woodruff K, Prihoda T, LeSaux C, Peters J, Tio F, Abboud-Werner SL. Colony-stimulating factor 1 potentiates lung cancer bone metastasis. Lab Invest 2014;94(4):371-81.

Du L, Zhao Z, Ma X, Hsiao TH, Chen Y, Young E, Suraokar M, Wistuba I, Minna JD, **Pertsemliadis A**. miR-93-directed downregulation of DAB2 defines a novel oncogenic pathway in lung cancer. Oncogene 2014 Aug 21;33(34):4307-15.

Vaisnav M, Xing C, Ku HC, Hwang D, Stojadinovic S, **Pertsemliadis A**, Abrams JM. Genome-wide association analysis of radiation resistance in *Drosophila melanogaster*. PLoS One. 2014;9(8):e104858.

Sugalski AJ, Jiwani A, Ketchum NS, Cornell J, Williams R, Heim-Hall J, **Hung JY**, **Langevin AM**. Characterization of localized osteosarcoma of the extremity in children, adolescents, and young adults from a single institution in South Texas. J Pediatr Hematol Oncol. 2014 Aug;36(6):e353-8.

Lopez-Terrada D, Alaggio R, DeDavila MT, Czauderna P, Hiyama E, Katzenstein H, Leuschner I, Malogolowkin M, Meyers R, Ranganathan S, Tanaka YY, **Tomlinson G**, Fabre M, Zimmermann A, Finegold MJ. Towards an International Pediatric Liver Tumor Consensus Classification: Proceedings of the Los Angeles Children's Oncology Group International Liver Tumors Symposium. Modern Pathology 2014; 27(3):472-91.

Hill D, Horick HK, Isaacs C, Domchek SM, **Tomlinson GE**, Lowery JT, Kinney AY, Berg JS, Edwards KL, Moorman PG, Plon SE, Strong LC, Ziogas A, Griffin CA, Kasten CA, Finkelstein. Long-term risk of medical conditions associated with breast cancer treatment. Breast Cancer Treatment and Research. 2014;145(1): 233-43.

Venkatramani R, Spector LG, Georgieff M, **Tomlinson G**, Krailo, M, Malogolowkin M, Kohlmann W, Curtin K, Fonstad RK, Schiffman JD. Congenital abnormalities and hepatoblastoma: A report from the Children's Oncology Group (COG) and the Utah Population Database (UPDB). Am J. Med.Genet A 2014;164A(9):2250-5.

Turcotte LM, Georgieff, MK, Ross JA, Feusner JH, **Tomlinson GE**, Malogolowkin MH, Krailo MD, Miller N, Fonstad R, Spector LG. Neonatal medical exposures and characteristics of low birth weight hepatoblastoma cases: A report from the Children's Oncology Group. Pediatr Blood Cancer 2014;61(11):2018-23.

Chai X, Friebel TM, Singer CF, Evans DG, Lynch HT, Isaac C, Garber JE, Neuhausen SL, Matloff E, Eeles R, Tung N, Weitzel JN, Couch FJ, Hulick PJ, Ganz PA, Daly MB, Olopade IO, **Tomlinson G**, Blum JL, Domchek SM, Chen J, Rebeck TR. Use of risk-reducing surgeries in a prospective cohort of 1,499 BRCA1 and BRCA2 mutation carriers. Breast Cancer Res Treat Epub 2014 Nov;148(2):397-406.

Wei C, Peng B, Ham Y, Chen W, Rother J, **Tomlinson G**, Boland R, Chausabel M, Frazier ML, Amos CI. Mutations of *HNRNPAO* and *WIF1* predispose members of a large family to multiple cancers. Familial Cancer, in press.

Tomlinson GE. Hepatoblastoma and Other Liver Tumors. Nathan and Oski's Hematology and Oncology of Infancy and Childhood. Elsevier, St. Louis, 2014

Zhao Z, Ma X, Hsiao TH, Lin G, Kostic A, Yu X, **Tomlinson G**, **Pertsemidis A**, Du L. A high-content morphological screen identifies novel microRNAs that regulate neuroblastoma cell differentiation. Oncotarget 2014;5(9):2499-512.

Bansal H, Yihua Q, Iyer SP, Ganapathy S, Proia D, Penalva LO, Urem PJ, Suresh U, Carew JS, Karnad AB, **Weitman S**, **Tomlinson GE**, Rao MK, Kornblau SM, Bansal S. WTAP is a novel oncogenic protein in acute myeloid leukemia. Leukemia 2014; 28(5): 1171-4.

Presentations/abstracts

Assanasen C. "Challenges in Developing Pediatric Cancer Care in Southern Vietnam," Seventh AACR Conference: The Science of Cancer Health Disparities in Ethnic Minorities and the Medically Underserved, American Association for Cancer Research, San Antonio, TX, November 2014

Assanasen C. "Leukemia/Lymphoma: WBC's Behaving Badly," 37th Annual Advances in Pediatric Hematology/Oncology, Florida Association of Pediatric Tumor Programs, Orlando, FL, October 2014 (Invited Speaker)

Assanasen C, Garcia-Frausto E, Morrell M. "Pancreatitis due to Mercaptopurine and Asparaginase in Acute Lymphoblastic Leukemia," 2014 TPS Annual Meeting, Texas Pediatric Society, Chicago, IL, Winner of Resident Hypothesis Driven Research Award, September 2014

Assanasen C. "Atypical Hemolytic Uremic Syndrome in the Setting of PreB ALL," American Society of Pediatric Hematology Oncology Annual Conference, ASPHO, Chicago, IL, May 2014 (Co-Presenter)

Assanasen C, Falcon-Cantrill M, Thomas P, Saldivar V. "Comparison of a Rotary Powered Bone Marrow Aspiration and Biopsy Device to the Traditional Manual Device in Children," American Society of Pediatric Hematology Oncology Annual Conference, Chicago, IL, May 2014

Assanasen, C. "Ovarian Preservation in Adolescent and Young Women Undergoing Chemotherapy," SunCoast CCOP 11th Annual Meeting, Pediatric Oncology & Medical Oncology Sections, University of Southern Florida, St. Petersburg, FL, February 2014

Grimes, A, Robinson RD, Assanasen C, Knudton, J. "Hormonal Suppression Experience for Ovarian Preservation During Chemotherapy." Pediatric Blood and Cancer 2014 May. p. S19. American Society of Pediatric Hematology Oncology Annual Conference, Chicago, IL

Lewis S, Thomas PJ, Aune GJ, Assanasen C. "Intrathecal cytarabine as substitution for Intrathecal Methotrexate in the setting of Neurotoxicity" *Pediatric Blood and Cancer* 2014 May. p. S51. American Society of Pediatric Hematology Oncology Annual Conference, Chicago, IL

Guo N, Ranch D, Assanasen C. "Acute Kidney Injury in Pediatric Acute Lymphoblastic Leukemia" 2014 May. p. S81. *Pediatric Blood and Cancer*. American Society of Pediatric Hematology Oncology Annual Conference, Chicago, IL

Mette L, Torres I, Pulido, AM, Poullard N, **Tomlinson G.** "Challenges in providing genetic services to underserved populations in the Rio Grande Valley experiences of the Genetic Risk Assessment for Cancer in All South Texas (GRACIAS Texas)," Conference to Eliminate health Disparities in Genomic Medicine, Washington DC, September 2014.

Mette L, Torres I, Pulido, AM, Poullard N, **Tomlinson G.** "Barriers to Cancer Genetic Risk Assessment in the Border Region of South Texas," American Association of Cancer Research, Science of Health Care Disparities, November 2014.

Tomlinson G, Tysinger J, Guerra-Seth S, Mette L, Jaen CR, Valdez A, "Project GRACIAS: Educating Primary Care Physicians about Genetic Related Cancers." 47th Society of Teachers of Family Medicine Annual Spring Conference, 2014.

Cruz A, Neff, P, **Ranch D,** Kubaney, H, **Assanasen C.** "A+typical Hemolytic Uremic Syndrome in the Setting of Pre B ALL." *Pediatric Blood and Cancer* 2014 May. p. S17.

Grants (new, competitive renewal)

Aune, G. (PI) Preclinical Efficacy of Long-term Cardiac Protection by Dexrazoxane, Hyundai Hope Scholar Grant

Aune, G. (PI) Evaluation of the Long-term Cardiac Toxicity of Liposomal Doxorubicin, St. Baldrick's Scholars Grant

Aune, G. (Co-I) Epidemiology of MRI-confirmed Cardiac Late Effects in Anthracycline Exposed Survivors of Childhood Cancer

Embry, L. (PI) St. Baldrick's Foundation Infrastructure Award Neurocognitive and Behavioral Assessments in a Pediatric Cooperative

Embry, L. (Co-PI) Alex's Lemonade Stand Psychosocial/Family Impact: Neurocognitive assessments within COG: An intensive, integrated model for successfully evaluating children with high risk ALL

Langevin, AM (PI) South Texas Pediatric Community Oncology Research Program, National Cancer Institute, NIH

Tomlinson, G (Co-I) Scientific Leadership, NIH National Clinical Trials Network (NCTN)

IMMUNOLOGY & INFECTIOUS DISEASES

Publications

Medina JL, Coalson JJ, **Brooks EG**, Le Saux CJ, Winter VT, Chaparro A, Principe MF, Solis L, Kannan TR, Baseman JB, Dube PH. Mycoplasma pneumoniae CARDS toxin exacerbates ovalbumin-induced asthma-like inflammation in BALB/c mice. PLoS One 2014 Jul 24;9(7).

Kwan, A, Abraham, RS, Currier, R, Brower, Andruszewski, K, Abbott, JK, Baker, M, Ballow, M, Bartoshesky, LE, Bonilla, FA, Brokopp, C, **Brooks, E**, Caggana, M, Celestin, J, Church, JA, Comeau, AM, Connelly, JA, Cowan, MJ, Cunningham-Rundles, C, Dasu, T, Dave, N, De La Morena, MT, Duffner, U, Fong, C-T, Forbes, L, Freedenberg, D, Gelfand, EW, Hale, JE, Hanson, IC, Hay, BN, Hu, D, **Infante, A**, Johnson, D, Kapoor, N, Kay, DM, Kohn, DB, Lee, R, Lehman, H, Lin, Z, Lorey, F, Abdel-Mageed, A, Manning, A, McGhee, S, Moore, TB, Naides, SJ, Notarangelo,

LD, Orange, JS, Pai, SY, Porteus, M, Rodriguez, R, Romberg, N, Routes, J, Ruehle, M, Rubenstein, A, Saavedra-Matiz, CA, Scott, G, Scott, PM, Secord, E, Seroogy, C, Shearer, WT, Siegel, S, Silvers, SK, Stiehm, ER, Sugerman, RW, Sullivan, JL, Tanksley, S, Tierce, ML, Verbsky, J, Vogel, B, Walker, R, Walkovich, K, Walter, JE, Wasserman, RL, Watson, MS, Weinberg, GA, Weiner, LB, Wood, H, Yates, AB, Puck, JM. Newborn screening for severe combined immunodeficiency in 11 screening programs in the United States. JAMA 2014 Aug;312:729-738.

Rose DM, Atkins J, Holland SM, **Infante AJ**. A novel mutation in IFN-gamma receptor 1 presenting as multisystem Mycobacterium intracellulare infection. J Allergy Clin Immunol 2014 Feb;133(2):591-592.

Trimble, R, Atkins, J, Quigg, TC, Burns, CC, Marshall, G, Thomas, M, Mangla, AT, **Infante, AJ**. Vaccine associated paralytic poliomyelitis and BCGosis in an immigrant child with severe combined immune deficiency. MMWR Weekly 2014 Aug;63(33):721-724.

Infante AJ, McCullers, Jonathon A, Orihuela CJ. Mechanisms of predisposition to pneumonia: Infants, the elderly, and viral infections In: Brown, Hammerschmidt & Orihuela, eds. *Streptococcus pneumoniae: Molecular mechanisms of host-pathogen interactions*. 2014.

Infante, TD, Arevalo-Flechas, L, Ford LA, Partida MN, Ketchum, N, Pollock BH, **Infante, AJ**. Community service learning: an effective vehicle for interprofessional education. Journal of Research on Interprofessional Practice and Education, in press, 2014

Hochman DJ, Collaco CR, **Brooks EG**. Acrolein induction of oxidative stress and degranulation in mast cells. *Environ Toxicol*. 2014 Aug;29(8):908-15. doi: 10.1002/tox.21818. Epub 2012 Oct 10. PubMed PMID: 23047665.

Presentations/abstracts

Bruner KE, **Infante AJ**. "A devastating outcome in undiagnosed x-linked agammaglobulinemia-a call for earlier screening." 2014 Feb. J Allergy Clin. Immunol. American College of Allergy & Immunology annual meeting; Dr. Bruner (USAF) won second place award for trainee presentation

Infante, AJ. "Medical-dental interprofessional connection: making a difference," Texas Conference on Ending Homelessness, Texas Homelessness Network, San Antonio, TX

INPATIENT PEDIATRICS

Publications

Navuluri N, **Foster, BA**, Muck A, Farokhi M, Vivanco R. Translating Research into Action -The San Antonio Refugee Health Clinic. Texas Public Health Journal 2014 Summer;66(3):9-10.

Foster BA, Tom D, Hill V. Hypotonic versus isotonic fluids in hospitalized children: a systematic review and meta-analysis. J Pediatr 2014 Jul;165(1):163-169.e2. doi: 10.1016/j.jpeds.2014.01.040. Epub 2014 Feb 28.

Presentations/abstracts

Rodin A, Caflisch L, Fanty L, Rosenfeld J, **Foster BA**. "Refugee Accompaniment Health Partnership." Poster Presentation at the Global Health Education Symposium, October 2014

Taylor B, Solis L, **Idrizi H**. "Learning in Action: Creating a Hands-on, Interactive and Practical Medically-Oriented TBL." Abstract/Poster Discussion. *UT Innovations in Health Science Education Conference*. 2014.

Taylor B, Solis L, **Idrizi H**. "Learning in Action: Creating a Hands-on, Interactive and Practical Medically-Oriented TBL." Abstract/Poster Discussion. *Team Based Learning Collaborative Conference*. 2014

Grants (new, competitive renewal)

Foster BA. KL2 grant, NIH/NCATS, IIMS “Positive Deviance in Childhood Obesity.”

NEONATOLOGY

Publications

Blanco C, Moreira A, McGill-Vargas L, Anzueto D, Natahanielsz P, Musi N. Antenatal corticosteroids alter insulin signaling pathways in fetal baboon skeletal muscle. J Endocrinol. PMID: 24756099.

Hair A, **Blanco C, Moreira A,** Hawthorne K, Lee M, Rechtman D, Abrams S. Randomized trial of human milk cream as a supplement to standard fortification of an exclusive human milk-based diet in infants 750-1250 g BW. J Pediatr. PMID: 25130571

Kim SE, Lee SY, **Blanco CL,** Kim JH. Developmental profiles of the intrinsic properties and synaptic function of auditory neurons in preterm and term baboon neonates. J Neurosci. 2014 Aug 20;34(34):11399-404. doi: 10.1523/JNEUROSCI.4734-13.2014.

Farner R, **Livingston J,** Rubio SA, Gutierrez MV, **Gong A.** The nurse champion model for advancing newborn screening of critical congenital heart disease. JOGNN 2014 Apr;43(4): 497-506. doi: 10.1111/1552-6909.12474.

McGill-Vargas L, Johnson-Pais T, Johnson M, **Blanco, C.** Developmental Regulation of Key Gluconeogenic Molecules in Non-Human Primates. Physiological Reports 2014;2(12), e12243.

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Moreira A, Swischuk L, Malloy M, Mudd D, **Blanco C**, Geary C. Parathyroid hormone as a marker for metabolic bone disease of prematurity. J Perinatol. PMID: 24875407.

Moreira A, Koele-Schmidt L, Leland M, **Seidner S**, **Blanco C**. Neonatal intubation with direct laryngoscopy vs videolaryngoscopy: an extremely premature baboon model. Paediatr Anaesth. PMID: 24916063.

Moreira A, Barbin C, Martinez H, Aly A, Fonseca R. Maternal use of cyclobenzaprine (Flexeril) may induce ductal closure and persistent pulmonary hypertension in neonates. J Matern Fetal Neonatal Med. PMID: 24102182.

Moreira A. Multiple congenital nevi in a newborn. J Paediatr Child Health. PMID: 24888304.

Abrams SA, Schanler RJ, Lee ML, Rechtman DJ, H2MF Study Group*. Greater Mortality and Morbidity in Extremely Preterm Infants Fed a Diet Containing Milk Protein Products. Breastfeeding Medicine, in press. (***Blanco CL**).

Mustafa SB, Isaac, **Seidner SR**, Dixon PS, Henson BM, and DiGeronimo RJ. Mechanical stretch induces lung a-epithelial Na⁺ channel expression. Experimental Lung Research 2014;40(8):380-91.

Presentations/abstracts

Hair A, **Blanco C**, **Moreira A**, Hawthorne K, Lee M, Rechtman D, Abrams S. Human Milk Cream Enhances Growth When Utilized as a Supplement to Standard Fortification of an Exclusive Human Milk-Based Diet in VLBW Infants. Poster, Pediatric Academic Society (PAS) annual meeting, Vancouver, Canada May 2014.

Gong A, Guillory C, Freedenberg D, **Livingston J**. "Implementing an Innovation in Newborn Screening," at the 10th Annual Innovations in Health Science Education Conference, "Online Learning: New Frontiers & New Faces," sponsored by the

University of Texas Kenneth I. Shine Academy of Health Science Education, Austin, Texas, February 20-21, 2014.

Gong A, Guillory C. "Texas Pulse Oximetry Project: A Quality Education Initiative for Saving Newborn Lives," at the Texas Medical Association's 2014 annual educational showcase in Fort Worth, Texas, May 3, 2014. First place poster.

Guillory C, **Gong A**, Freedenberg D, **Livingston J.** "An Educational Strategy to Implement Screening for Critical Congenital Heart Disease By Pulse Oximetry in Apparently Healthy Newborns: A Pilot Study in Texas" American Academy of Pediatrics 2014 Conference, Perinatal Section, San Diego, California, 2014

Rouse C, Dirnberger D, Yoder B, Clark R, Gerstmann D, Schelonka R, **Stribley R**, Ascher D, Bell R, Jarrett R, Shoemaker M, Mahnke CB, Rabenstein E, Brock L, Fagiana A, Kerecman J. Volcanoes, Revolutions, Mt. Everest, and ECMO: The Fascinating History of Neonatal Intensive Care at Clark Air Base and U.S. Naval Hospital Okinawa, Senior Section Poster Presentation, AAP National Conference, San Diego, October 11, 2014

Hanson E, Petershack J. Reflecting on Reflection: A Comparison of Two Approaches to Analysis of Reflective Writing Pieces in the Evaluation of an Advocacy Experience in Juvenile Justice. Abstract. *UT Innovations in Health Science Education Conference*. 2014.

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Sorrell M, **Moreira A**, Green B, Jacobs R, **Anzuetto D, Blanco C.** "Long-Term Outcomes of Infants with Parental Nutrition-Associated Liver Disease Treated with Fish Oil-Based Intravenous Lipid Emulsion." ([E-PAS2014:](#)).

Quinn A, Petershack JA. Palliative Care in the NICU: Assessing Knowledge and Educational Needs of Providers 2014. ([E-PAS2014:4131.426](#)).

Petershack JA, Kim, SY, Lowell, GS, Sholiton, SE. Provision of Feedback on Medical Student Clinical Reasoning Skills with Innovative Tool E-PAS2014:3840.501: 2014. ([E-PAS2014:3840.501](#)).

Grants (new, competing renewal)

Blanco C. Subaward Agreement with Utrecht Medisch Centrum (UMC) “Human Mesenchymal Stem Cell Treatment Using the Neonatal Non-human Primate.”

McGill-Vargas L. 2014 IIMS Mentored Research Career Development (KL2) Scholar in Clinical and Translational Science Award, “Hepatic Insulin Resistance in Prematurity and Mechanism for Abnormal Glucose Production.” This was the only KL2 grant awarded this year

Seidner S. Therapeutic potential of stem cells in lung injury. Subcontract from Ottawa Hospital Research Institute

Awards

Gong A. AAP Special Achievement Award for distinguished service and dedication to the mission and goals of the academy for work in the development of the Texas Pulse Oximetry Toolkit to help with implementation and statewide screening for CCHD. Presented at the Texas Pediatric Society annual meeting, Dallas, September 2014.

McGill-Vargas L. Young Investigator Award, AAP Section on Perinatal Pediatrics, AAP National Conference and Exhibition, “Gluconeogenesis in Prematurity and Mechanisms for Abnormal Glucose Regulation,” San Diego, CA, October 10-12, 2014. Mentor: **Cynthia L. Blanco**

NEPHROLOGY

Publications

Ranch D, Crowther BR, **Arar MY**, **Assanasen C**. Prophylactic eculizumab for kidney transplantation in a child with atypical hemolytic uremic syndrome due to complement factor H mutation. Pediatric Transplantation 2014 Sep;18(6)

Presentations/abstracts

Assanasen C, Guo N, **Ranch D**. "Acute Kidney Injury in Acute Lymphoblastic Leukemia," American Society of Pediatric Hematology Oncology Annual Conference, Chicago, IL. Pediatric Blood and Cancer 2014 May. p. S81.

PULMONOLOGY

Publications

Lunsford L. Knowledge and Attitudes Regarding Pediatric Pain in Mongolian Nurses. Pain Manag Nurs. 2014 Oct 31;pii: S1524-9042(14)00138-6. doi: 10.1016/j.pmn.2014.08.007. [Epub ahead of print]

Rayas MS, **Willey-Courand DB**, **Lynch JL**, **Guajardo JR**. Improved Screening for Cystic Fibrosis-Related Diabetes by an Integrated Care Team Using an Algorithm. Pediatric Pulmonology 2014 Jan

Presentations/abstracts

Lunsford L. "A Perfect Storm: Rethinking Thrombosis." 2014 North American Cystic Fibrosis Conference.

Grants (new, competing renewal)

Willey-Courand DB. Cystic Fibrosis Center Grant-\$38,500

Willey-Courand DB. DSHS/CSHCN Case Management Grant-\$133,753

Willey-Courand DB 09/2012-Present CGM vs SMGB, For the Detection of Hyperglycemia During a CCF Hospitalization-Done in conjunction with Suki Rayas

Willey-Courand DB 01/2012-01/2021 Protocol CCFC-OB-11, A Long Term Prospective Observational Safety Study of the Incidence of and Risk Factors for Fibrosing

Willey-Courand DB Colonopathy in US Patients with CF Treated with Pancreatic Enzyme Replacement Therapy: A Harmonized Protocol Across Sponsors
Awards

Denver S was awarded her Doctorate this December and will receive her diploma formally this coming spring.

REGIONAL ACADEMIC HEALTH CENTER

Publications

Griffin M, Son M, Shapleigh E. Children's lives on the border. Pediatrics 2014 Apr;133(5), e1118-e1120. *doi*: 10.1542/peds.2013-2813

Griffin M. Kennedy EC. Central American refugee children. AAP Section on International Child Health Newsletter, August 2014;6-7.

Presentations/abstracts

Livingston J, Griffin M, Brooks A, **Son M**, Monserrat C. "Transforming privilege in marginal spaces: Teaching medical students on the Texas-Mexico border," at Teachers College/Columbia University, New York City, October 25, 2014

Awards

Griffin M. Recognized as one of 30 "Clinicians Making a Difference" by the Migrant Clinicians Network, a national non-profit organization.

RESIDENCY PROGRAM

Egbulefu D, Loria H, Arredondo A, Arar Y. Winners, Jacobi Jug academic competition, Texas Pediatrics Society annual meeting, Dallas TX

CROSS APPOINTED FACULTY

DEPARTMENT OF EMERGENCY MEDICINE

Publications

Hightower JL, **Dire DJ**: Omental liposarcoma presenting as chronic constipation.

Ped Emerg Care 2014;30:483-484.