



CHILDREN'S

HOSPITAL OF RICHMOND AT VCU

PEDIATRIC RESEARCH NEWSLETTER

Volume 04 January 2014

Pediatric Research Office

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Children's Hospital Foundation Research Fund

At its December, 2013 meeting, the Children's Hospital Foundation Board approved the allocation of \$100,000 over two years to establish a Research Fund to support one of CHoR's main missions, the development of new knowledge for the benefit of children's health.

CHoR ranks 59th out of the 82 full service children's hospitals ranked by US News and World Report in 2013 in NIH dollars, a marker of overall research funding. The challenge is how to climb that ranking to where we deserve to be. Several elements together make an institution more competitive for external research grants. One is the quality of the people applying. Our faculty has many successful and eager researchers. The second are great, cutting edge ideas. The third is sufficient preliminary data to demonstrate that the project is likely to bear fruit and the fourth is institutional reputation.

The purpose of the CHF Research Fund is to address two of those elements; to support the development of critical preliminary data and to support the presentation and publication of pediatric faculty research, thereby increasing the visibility of our researchers and our name. These two go hand in hand.

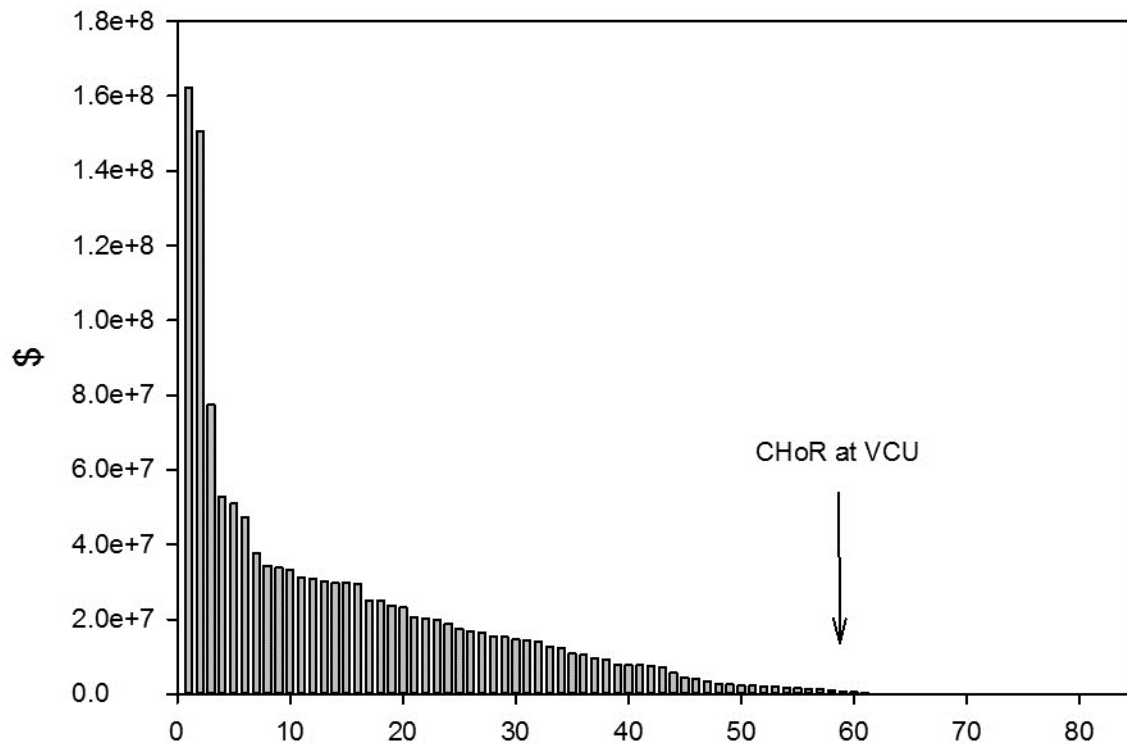
The grant application as well as instructions are available from Henry Rozycki at hrozycki@mcvh-vcu.edu. Most importantly, the 5 page application asks for the background/rationale for the project, a well-formed hypothesis that derives from the background, a plan for acquiring and analyzing data to try and answer the hypothesis and, uniquely but importantly, how the project will further the research success of the investigator and CHoR. Each application needs to have a member of the Department faculty as an investigator, co-investigator or mentor and the last section on research plan context should refer to that person.. Note that preliminary data are not required.

The applications will be scored on an NIH scale of 1 (perfect) to 10 (major problems). Those scoring an average of 3 or better will be eligible for funding. There will be one award at the \$10,000 level with others at \$5,000 and \$2,500. Travel and publication costs are fundable, but not permanent employee or faculty salaries. Note that in the second year, there will be a separate application/award for travel/publication costs.

More information, and preliminary review of applications are available from Henry Rozycki. Completed applications are due by 5 PM on Friday, February 28, 2014 and are to be sent as a .pdf file to Liz Fredericksen-Trent at efredericksen-trent@MCVH-VCU.EDU.



NIH Funding 2013



In 2013, CHoR was listed among the Best Children's Hospitals in the United States by the US News and World Report. There is a strong correlation between these rankings and research. The top eleven Children's Hospitals on this ranking list included seven of the top 10 in NIH funding for 2013 and, more significantly, the top ten hospitals (12%) received 47% of the total NIH dollars awarded to Children's Hospitals and/or their affiliated pediatric departments.

The graph above shows the NIH awards (y axis) by Children's Hospital in descending order of research dollars. There are 83 hospitals on the X-axis. CHoR is currently 59th. By quartiles, CHoR is in the second quartile. An increase in NIH funding to \$7,500,000 would place CHoR in the third quartile.

Note that NIH funding is not the only way to support research. It was used in this analysis because of it is publicly available. Foundations, industry, consortia, patents and licenses and other sponsors can and do support pediatric research.

New Grants & Contracts Awarded

Congratulations to the Principal Investigators who were awarded grants and contracts in the 2nd Half of 2013!

Principal Investigator	Division	Title	Sponsor	Total Costs
Lee, Clifton C.	Hospital Medicine	A Multicenter, Open-Label, Safety and Pharmacokinetic Study of Oral Codeine Sulfate Administration in Pediatric Subjects 2 years old through 17 years old With Post-procedural Pain	Quintiles	48,447
Schechter, Michael S	Pulmonology	National Spina Bifida Patient Registry	US Dept HHS	66,150
Schmidt, Howard J	Pulmonology	Participation in the Cystic Fibrosis Registry 2013-14	Cystic Fibrosis Foundation	60,730
McVoy, Michael	ID	CMV-Neutralizing Activity of PC-Based Vaccines	Hookipa Biotech AG	9,999
Schmidt, Howard	Pulmonology	Study of Ivacaftor in Cystic Fibrosis Subjects 2 Through 5 Years of Age With a CFTR Gating Mutation (Part B)	Vertex Pharmaceuticals	108,159
Sisler, India	Heme/Onc	A Phase 3, Double-Blind, Randomized, Efficacy and Safety Comparison of Prasugrel and Placebo in Pediatric Patients with Sickle Cell Disease	Quintiles	286,175
Francis, Gary	Endocrinology	Feasibility Study of Closed Loop Control in Adolescents with Type 1 Diabetes Mellitus (T1DM) Using Heart Rate Monitoring as an Exercise Indicator	Juvenile Diabetes Research Foundation	268,980
Sisler, India	Heme/Onc	A Randomized, Placebo Controlled Multi Center Study of the Efficacy PK and PD of IV Acetaminophen for the Treatment of Acute Pain in Pediatric Patients	Mast Therapeutics	217,396
Schmidt, Howard	Pulmonology	A Phase 3 Randomized, Double-Blinded, Controlled, Multicenter Study of Aztreonam for Inhalation Solution (AZLI) in a Continuous Alternating Therapy (CAT) Regimen of Inhaled Antibiotics for the Treatment of Chronic Pulmonary Pseudomonas Aeruginosa Infection in Subjects with Cystic Fibrosis	Gilead Sciences	77,460
Schmidt, Howard	Pulmonology	A Phase 3, Randomized, Double Blind, Placebo Controlled, Parallel Group Study to Evaluate the Efficacy and Safety of Lumacaftor in Combination With Ivacaftor in Subjects Aged 12 Years and Older With Cystic Fibrosis, Homozygous for the F508del CFTR Mutation	Vertex Pharmaceuticals	110,814
Rubin, Bruce	Pulmonology	High Flow Humidification Therapy in Cystic Fibrosis	Fisher & Paykal	100,916

Publications Second Half 2013

Papers listed in PubMed authored by CHoR Faculty listed in Meet the Team on the CHoR website, www.cchrichmond.org

- Brown RC, Yaroslavsky I, Quinoy AM, Friedman AD, **Brookman RR**, Southam-Gerow MA. Factor structure of measures of anxiety and depression symptoms in African American youth. *Child Psychiatry Hum Dev.* 2013; 44: 525-36
- Gomez G, Nardone V, Lotfi-Emran S, **Zhao W**, Schwartz LB. Intracellular adenosine inhibits IgE-dependent degranulation of human skin mast cells. *J Clin Immunol.* 2013; 33:1349-59.
- Dellon ES, **Irani AM**, Hill MR, Hirano I. Development and field testing of a novel patient-reported outcome measure of dysphagia in patients with eosinophilic esophagitis. *Aliment Pharmacol Ther.* 2013; 38: 634-42
- Coelho DH**, Edelmayer LW, Fenton JE. A century of citation classics in otolaryngology-head and neck surgery journals-revisited. *Laryngoscope.* 2013 Dec 27. doi: 10.1002/lary.24573. [Epub ahead of print]
- Chadwick KA, Moore J, **Tye GW**, **Coelho DH**. Management of patients with cochlear implants and ventriculoperitoneal shunts. *Cochlear Implants Int.* 2013 Oct 18. [Epub ahead of print]
- Koors PD, Thacker LR, **Coelho DH**. Investigation of seasonal variability of vestibular neuronitis. *J Laryngol Otol.* 2013 Oct;127(10):968-71,
- Tahir, SA, **Moskowitz, W**, Throckmorton, AL. Numerical analysis of protective cage geometries for mechanical capopulmonary assistance in a patient-specific Fontan physiology,. *J Med Bio Eng,* 2013. doi: 10.5405/jmbe.1198.
- Throckmorton, AL, Lopez-Isaza, S, Downs,EA, Chopski, SG, Gangemi, JJ, **Moskowitz, WB**. A viable therapeutic option: mechanical circulatory support of the failing Fontan physiology.” *Pediatric Cardiology* 2013; 34:1357–1365
- Throckmorton, AL, Bhavsar, SS, Chopski, SG, and **Moskowitz, WB**. "Pneumatically-Driven External Pressure Applicator to Augment Fontan Hemodynamics: Preliminary Findings." *Transl Pediatr* 2013; 2(4): 148-153
- Vergales JE, **Gangemi JJ**, Rhueban KS, Lim DS. Coarctation of the aorta - the current state of surgical and transcatheter therapies. *Curr Cardiol Rev.* 2013 Aug;9(3):211-9.
- Raucci FJ Jr, Seckeler MD, Saunders C, **Gangemi JJ**, Peeler BB, Jayakumar KA. Right-ventricular global longitudinal strain may predict neo-aortic arch obstruction after Norwood/Sano procedure in children with hypoplastic left heart syndrome. *Pediatr Cardiol.* 2013 Dec;34(8):1767-71
- Conley A, Cho BH, Tye GW, Reavey-Cantwell J, Coelho D, Fuller CE, **Rhodes JL**. Giant cell reparative granuloma of the pediatric cranium: case report and review of the literature. *Childs Nerv Syst.* 2013 Aug 13. [Epub ahead of print]
- Cho BH, **Tye GW**, Fuller CE, **Rhodes JL**. Desmoplastic fibroma of the pediatric cranium: case report and review of the literature. *Childs Nerv Syst.* 2013 Dec;29(12):2311-5
- McDonald CM, Henricson EK, Abresch RT, Han JJ, Escolar DM, Florence JM, Duong T, Arrieta A, Clemens PR, Hoffman EP, Cnaan A; **Cinrg Investigators**. The cooperative international neuromuscular research group Duchenne natural history study--a longitudinal investigation in the era of glucocorticoid therapy: design of protocol and the methods used.. *Muscle Nerve.* 2013 Jul;48(1):32-54
- Henricson EK, Abresch RT, Cnaan A, Hu F, Duong T, Arrieta A, Han J, Escolar DM, Florence JM, Clemens PR, Hoffman EP, McDonald CM; **CINRG Investigators**. The cooperative international neuromuscular research group Duchenne natural history study: glucocorticoid treatment preserves clinically meaningful functional milestones and reduces rate of disease progression as measured by manual muscle testing and other commonly used clinical trial outcome measures. *Muscle Nerve.* 2013 Jul;48(1):55-67
- Willson DF**, Thomas NJ, Tamburro R, Truemper E, Truwit J, Conaway M, Traul C, Egan EE; Pediatric Acute Lung and Sepsis Investigators Network. The relationship of fluid administration to outcome in the pediatric calfactant in acute respiratory distress syndrome trial. *Pediatr Crit Care Med.* 2013 Sep;14(7):666-72

Publications Second Half 2013

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- Willson DF**, Thomas NJ, Tamburro R, Truemper E, Truwit J, Conaway M, Traul C, Egan EE; Pediatric Acute Lung and Sepsis Investigators Network. Pediatric calfactant in acute respiratory distress syndrome trial. *Pediatr Crit Care Med*. 2013 Sep;14(7):657-65
- Brickhouse TH**, Haldiman RR, Evani B. The impact of a home visiting program on children's utilization of dental services. *Pediatrics*. 2013 Nov;132 Suppl 2:S147-52
- Vanderbilt AA, **Husson MM**. Current Sedation and Anesthesia Practices among Dentists: A Statewide Survey. *Oral Health Dent Manag*. 2013 Dec;12(4):230-6.
- Accardo PJ**. 50 Years ago in *The Journal of Pediatrics*: The changing picture of cerebral dysfunction in early childhood. *J Pediatr*. 2013 Jul;163(1):54
- Yelverton JC, **Dodson KM**, Arnos K, **Pandya A**. The clinical and audiologic features of hearing loss due to mitochondrial mutations: response to editor. *Otolaryngol Head Neck Surg*. 2013 Nov;149(5):795-6
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- Foster RH, Russell CC, Dillon R, **Bitsko MJ**, **Godder K**, Stern M. Relations among Optimism, Perceived Health Vulnerability, and Academic, Self-Regulatory, and Social Self-Efficacy in Adolescent Survivors of Childhood Cancer. *J Psychosoc Oncol*. 2013 Dec 23. [Epub ahead of print]
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- Rubin BK**. Faster, higher, stronger. *Am J Respir Crit Care Med*. 2013 Sep 15;188(6):634-5.
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- Griffin KL, Fischer BM, **Kummarapurugu AB**, **Zheng S**, Kennedy TP, Rao NV, Foster WM, **Voynow JA**. 2-O, 3-O-Desulfated Heparin Inhibits Neutrophil Elastase-Induced HMGB-1 Secretion and Airway Inflammation. *Am J Respir Cell Mol Biol*. 2013 Dec 10. [Epub ahead of print]
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- Dusing SC**, Izzo TA. Commentary on "Differences in function among children with sensory processing disorders, physical disabilities, and typical development". *Pediatr Phys Ther*. 2013 Fall;25(3):322
- Dusing SC**, Lobo MA, Lee HM, Galloway JC . Intervention in the first weeks of life for infants born late preterm: a case series. *Pediatr Phys Ther*. 2013 Summer;25(2):194-203

CHOR@VCU on the move!

Honors and Awards

Presentations to National & International Meetings

Dr. Syndi Seinfeld, Assistant Professor of Child Neurology had the following presentations:

Seinfeld S, Pellock JM, Delorenzo R. Pre-hospital and Emergency Management of Afebrile Pediatric Status Epilepticus. American Epilepsy Society Annual Meeting. Washington DC; 12/2013.

Pellock JM, Haut S, Seinfeld S. Benzodiazepine use for emergency treatment of seizures: A review. American Epilepsy Society Annual Meeting. Washington DC; 12/2013.

Seinfeld S, Pellock JM. Efficacy and Safety of Intranasal Midazolam for Seizure Emergencies in Pediatric Patients: A systemic Review of the Literature. Child Neurology Society Annual Meeting , Austin TX; 10/2013.

Invited Speaker: Special Interest Group Session: Pediatric Epilepsy Diagnosis and Treatment Opportunities –Case-Based Discussion, 67th American Epilepsy Society Meeting, Washington DC; 12/2013

Dr. Michael Schechter, Chair of Pediatric Pulmonology had the following presentations:

Schechter MS, VanDevanter DR, Pasta DJ, Short SA, Morgan WJ, Konstan MW. The Impact of Inpatient Treatment on Outcomes of CF Pulmonary Exacerbations. 2013 North American CF Conference.. Salth Lake City UT; 10/2013

Sawicki GS, VanDevanter D, Schechter MS, Millar SJ, Xu Y, Pasta DJ, Morgan WJ, Konstan MW. (2013) An Evaluation of Patient and Site-Level Factors For Inconsistent Documented Use of Chronic Respiratory Therapies for Cystic Fibrosis. 2013 North American CF Conference.. Salth Lake City UT; 10/2013

Ren C, Emerson J, Schechter MS, Gibson R, Morgan WJ, Rosenfeld M, and the EPIC Study Group (2013). Mutation class and sex are predictors of lung disease severity in young children with CF. 2013 North American CF Conference.. Salth Lake City UT; 10/2013

Dr. Timothy Bunchman, Chair of Pediatric Nephrology had the following presentations:

AKI therapies in Children at International Pediatric Nephrology Association, Shanghai China.; 09/2013

Nurition in AKI and Critical Illness at Pediatric Grand Rounds at Univ. of North Carolina, Chapel Hill, NC

Renal Replacement Therapy in Children as Invited Speaker at Kings College in London UK

Outcome of children with AKI as Invited Speaker at the Pediatric Intensive Care Congress, London UK; 09/2103

CHOR@VCU on the move!

Honors and Awards

Presentations to National & International Meetings

Dr. Melanie Bean from the Comprehensive Pediatric Obesity and Research Treatment Program had the following presentations:

Bean MK, Powell P, Quinoy A, Ingersoll K, Mazzeo S. Motivational interviewing and adherence to pediatric obesity treatment: Results from the MI Values randomized controlled trial. The Obesity Society, Atlanta GA; 11/2013

Vanguri P, Lanning D, Wickham E, Anbazhagan A, Bean MK. Healthcare Provider Opinions Regarding Weight Loss Surgery in Adolescents. The Obesity Society, Atlanta GA; 11/2013

Dr. Rajanya Petersson, Assistant Professor of Pediatric Otolaryngology had the following presentation:

Petersson RS, Scott AR. Facial Cleft Repair on Surgical Mission Trips: Safety, Feasibility, and Impact on Patient Quality of Life. American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting Vancouver, BC; 09/2013

Dr. Michael McVoy, Professor of Pediatrics in the Division of Pediatric Infectious Diseases had the following presentations:

Cytomegalovirus Vaccines. Invited seminar, Hôpital Necker-Enfants Malades, Paris France; 12/2013.

Development of a Cytomegalovirus Vaccine. Invited seminar, Paris Descartes University, Paris France; 11/2013.

Dr. Henry Rozycki, Vice-Chair for Research was appointed Associate Editor, *Frontiers in Neonatology*

The following were presented at American Association for Respiratory Care Annual Congress, Anaheim CA; 11/2013 by members of the Rubin Lab:

Rozycki, SK, Bradley, JL, Yopp, MA, Rubin, BK. THE EFFECT OF HUMIDITY ON THE BIOPHYSICAL PROPERTIES OF CYSTIC FIBROSIS SPUTUM. Presented by **Jennifer Bradley**

Rozycki, SK, Maxvold, NJ, Yopp, MA, Longest, PW, Walenga, RL, Rubin, BK. AN IN VITRO EVALUATION OF ENDOTRACHEAL TUBE CUFF LEAK AND SUCTION PERFORMANCE USING A BIO-REALISTIC MODEL. Presented by **Sarah Rozycki**

CHOR@VCU on the move!

Honors and Awards

Presentations to National & International Meetings

Dr. Bruce Rubin, Jesse Ball Dupont Distinguished Professor and Chair, Department of Pediatrics, has the following presentations:

Aerosol therapy - Myths, dogma, and legends. 12th International Congress on Pediatric Pulmonary, Valencia, Spain; 07-08/2013

Chaired a plenary session, taught a magic workshop, 12th International Congress on Pediatric Pulmonary, Valencia, Spain; 07-08/2013

Therapy for mucus clearance disorders, Pulmonary Research Group; Yokohama . Japan; 08/2013

Air and soul: The science and practice of aerosol therapy. Pulmonary Research Group; Yokohama, Japan; 08/2013

Immune modulation by macrolide antibiotics. More than killing bugs

How to publish your research.

Therapy for mucus clearance disorders and the role of mucolytics.

At Yokohama City University Hospital, Yokohama, Japan; 08/2103

New Developments in Rhinology.

Drugs and devices for airway clearance.

Honor lecture: Novel actions of macrolides and macrolide therapy

At 16th Asian Research Symposium in Rhinology Breakthroughs and New Developments in Rhinology , Tokyo, Japan; 08/2013.

Plenary lecture: New insights into mucus properties, structure and removal in CF, European Respiratory Society 2013 Annual Congress, Barcelona, Spain; 09/2013

Bronchoscopy in children: The tunnel at the end of the light. Virginia Society for Respiratory Care, Pediatrics/ Neonatal Conference 2013, Mary Washington Hospital, Fredericksburg, VA; 09/2013

Plenary talk "Controversies in chronic childhood cough"

Keynote address Facts about aerosol therapy in children.

At 2nd Oriental Congress of Pediatrics, Shanghai, China; 09/2013

Chronic cough in children

How to get your research published

Mucus secretion and clearance in chronic lung disease

Session Chairman

All at 9th International Symposium on Respiratory Diseases (ISRD) & ATS Forum, Shanghai, China; 11/2013

Measuring exhaled nitric oxide (FENO) – A hammer looking for nails

Aerosol therapy: Past, Present, and Future

Chair of Open Forum sessions

At American Association for Respiratory Care Annual Congress, Anaheim CA; 11/2013