**FINAL PROGRAM**

**Sunday**

18:00-21:00:  Welcome Reception – Gandy Dance *(Invited Guests)*

**Monday**

(07:00-07:45 Breakfast)

07:45  Welcome and Introduction – Dawn Coleman and Rulan Parekh

08:00  Opening Comments – Charles Burant

08:15 - 10:45:  Scientific Session 1 – Pediatric Renovascular Hypertension: Background and Scientific Research Efforts

*(Moderator: S Ganesh + J Stanley)*

1. Mendelian Forms of Renovascular Disease (20min) – Kevin Meyers, Children’s Hospital of Philadelphia, University of Pennsylvania
2. A Histopathologic Review of Renal Artery Stenosis (15min) – James Stanley, CS Mott Children’s Hospital, University of Michigan
3. Arteriopathy in NF1: A cellular and molecular overview (30 min) – David Gutmann, Washington University School of Medicine
4. Gene Discovery (15min) – Santhi Ganesh, University of Michigan
5. Epidemiology, Phenotyping and Cohort Development (12min) – Rulan Parekh, The Hospital for Sick Children, University of Toronto
6. Whole Exome Sequencing in Midaortic Syndrome (12min) – Jillian Warejko, Yale New Haven Children’s Hospital, Yale University School of Medicine
7. Genetic Causes of Renovascular Hypertension (12min) – Daan Viering, Radboud University Medical Centre

(10:45 – 11:00 Coffee Break)

11:00-12:00:  Keynote – Harry C. Dietz III, Director of the William S. Smilow Center for Marfan Syndrome, Johns Hopkins University Medical School

*(12:00-13:00 Lunch)*
13:00 – 15:00: Scientific Session 2 – Pediatric Renovascular Hypertension: General Considerations

(Moderators: K Tullus + Z Modi)

1. Clinical Manifestations and Natural History of Pediatric Renovascular Hypertension (30min) – Kjell Tullus, Great Ormond Street Hospital for Children
2. A Systematic Review of Midaortic Syndrome in Children (20min) - Rulan Parekh, The Hospital for Sick Children, University of Toronto
3. Syndrome Diseases and Indications for Patient and Family Genetic Screening – Do Results Impact Management (20min) – Santhi Ganesh, University of Michigan
4. Should Pediatric Renal Artery Stenosis/Midaortic Syndrome be Qualified as ‘Pediatric FMD’? Differences Between the Pediatric and Adult Presentation of FMD: Results from the US Registry (20min) – Kevin Meyers, Children’s Hospital of Philadelphia, University of Pennsylvania
5. Multi-disciplinary Care of the Complex Renovascular Hypertension Patient (15min) – Michael Ferguson, Boston Children’s Hospital, Harvard Medical School

(15:00-15:20 Coffee Break)

15:30 – 16:30: Panel - Building a Multi-Disciplinary Program (M Ferguson, J Flynn, K Meyers, K Tullus, W Sandmann)

(Moderator: D Coleman + R Parekh)

17:00 – 20:00: Working Groups A/B (By Invitation)

(A) Diagnostics of Pediatric Renovascular Hypertension’ – Discussion of existing diagnostic practice patterns applied to pediatric patients with RVH with a focus on diagnosis, additional screening and surveillance imaging. This working group is charged to identify current best practices and prioritize knowledge gaps for future study. Invited members: K Cho, D Kershaw, *J Amaral, A Cahill, J Dillman, L Mertens, M Khaja, E Monroe, D Williams, G Chaudry, S Radhakrishnan

(B) Large Scale Phenotyping and Longitudinal Follow-up of Pediatric Renovascular HTN. Members: *D Coleman, J Stanley, M Ferguson, J Flynn, *K Meyers, R Parekh, W Sandmann, K Tullus, Z Modi, J Samuels, G Chaudry, M Matsuda Abedini

(* denotes working group leads)
Tuesday

07:30-8:00 – Breakfast

08:00-09:45: Scientific Symposium III – Imaging of Pediatric Renovascular Hypertension

(Moderators: J Amaral + M Khaja)

1. The Role of Duplex Ultrasound for Diagnosis and Surveillance (15min) – Jonathan Dillman, Cincinnati Children’s Hospital Medical Center, University of Cincinnati
2. Cross-Sectional Imaging Considerations: Balancing the Risks of Cross-Sectional Imaging (CTA v. MRA) (15min) – Hansel Otero, Children’s Hospital of Philadelphia, University of Pennsylvania
3. Role of Diagnostic Angiography and Cutting Balloon Angioplasty for Renovascular Hypertension (15min) – Anne Marie Cahill, Children’s Hospital of Philadelphia, University of Pennsylvania
4. Fetal and neonatal imaging of aortic and renovascular hypertension (15min) – Rajesh Krishnamurthy, Nationwide Children’s Hospital, The Ohio State University
5. Intravenous Digital Subtracted Angiography (15min) – Kyung Cho, CS Mott Children’s Hospital, University of Michigan
6. Computational Imaging of Fluid-Structure Interactions and Hemodynamics in Assessing Abdominal Aortic Coarctation and Renal Stenotic Disease (15min) – Alberto Figueroa, University of Michigan

(09:45 – 10:00 Coffee Break)

10:00 – 1200: Scientific Session IV – Medical Management and Surveillance of Pediatric Renovascular Hypertension

(Moderators: M Ferguson + C Hanevold)

1. What Qualifies as a Medical Treatment Failure: Indications for Revascularization (20min) – David Kershaw, CS Mott Children’s Hospital, University of Michigan
2. Current Guidelines for Medical Therapy and Surveillance (20min) – Joseph Flynn, Seattle Children’s Hospital, University of Washington
3. Management of Concurrent Neurovascular Disease (15min) - Mahendra Moharir, The Hospital for Sick Children, University of Toronto
4. Management of Neurovascular Complications (15min) – Michael Rivkin, Boston Children’s Hospital, Harvard Medical School
5. Management of Concurrent Cardiopulmonary Disease and Complications (20min) – Luc Mertens, The Hospital for Sick Children, University of Toronto
6. Long-term Developmental and Cognitive Risks of Hypertension (15min) – Marc Lande, University of Rochester Medical Center

(12:00-13:00 Lunch)

13:00 – 16:30: Scientific Session V – Revascularization Options for Pediatric Renovascular Hypertension

(Moderators: K Meyers + J Eliason)

1. Endovascular Interventions in Pediatric Renovascular Hypertension: Indications and Limitations (20min) – Joao Amaral, The Hospital for Sick Children, University of Toronto
2. Emerging Endovascular Strategies for Diagnosis and Treatment (20min) – Diego Porras, Boston Children’s Hospital, Harvard Medical School
3. Interventional Treatment Considerations in neonates/infants (20min) – Premal Patel, Great Ormond Street Hospital for Children
4. Open Surgical Revascularization of Pediatric Renovascular Hypertension (20min) – Dawn Coleman, CS Mott Children’s Hospital, University of Michigan

(14:30-14:45 Coffee)

5. Novel Surgical Treatments (20min) – Heung Bae Kim, Boston Children’s Hospital, Harvard Medical School
6. Renal Auto-Transplantation (15min) – Armando Lorenzo, The Hospital for Sick Children, University of Toronto
7. Remedial / Salvage Surgical Procedures for Treatment Failures (20min) – Jonathan Eliason, CS Mott Children’s Hospital, University of Michigan
8. Treatment of Segmental Disease in Pediatric Renal Artery Disease: The role for partial nephrectomy (15min) – John Park, CS Mott Children’s Hospital, University of Michigan

16:30-16:45: Closing Remarks – D Coleman and R Parekh

17:00 - 20:00: Working Groups C/D (By Invitation)

(C) The Genetics of Pediatric Renovascular Hypertension – The state of the genetics of pediatric RVH and ongoing translational efforts. This working group will specifically be charged to identify knowledge gaps and opportunities for future study/collaboration. Members: *S Ganesh, J Stanley, *R Parekh, D Viering, J Warejko, D Stein, D Williams

(D) Treatment of Pediatric Renovascular Hypertension - Discussion of the existing practice patterns (medical, open surgical, endovascular) applied to pediatric patients with renovascular hypertension across the globe. This working group is charged to identify current best practices

(* denotes working group leads)