

# DEPARTMENT OF CHILD AND ADOLESCENT HEALTH

**Dr. Roxanne Melbourne Chambers, MBBS (Hons), DM (Paeds) – Head of Department**



## **VISION**

All Caribbean children achieving optimal physical, socio-emotional and mental health thereby ensuring a healthy productive adult population.

## **MISSION**

To provide high quality child and family centered health care through service delivery, teaching and research.

## **WORK OF THE DEPARTMENT**

The Department of Child and Adolescent Health continues to strive towards excellence in clinical service, research, intellectual leadership, advisory and community services and training of undergraduate students and postgraduate doctors. The academic staff is comprised of four professors, three senior lecturers and three lecturers as well as six full-time associate lecturers (University Hospital of the West Indies). There are twenty-three associate lecturers in peripheral clinical training sites who support teaching of medical students in seven public hospitals. There are two members of administrative staff and one office attendant. In-patient clinical services are delivered through two paediatric medical wards and a newborn special care unit which includes a neonatal intensive care unit. Out-patient clinical services are delivered through general and sub-specialty clinics in adolescent medicine, cardiology, development and behaviour, endocrinology, haematology and oncology, infectious diseases, neonatology follow-up, nephrology, neurology, and pulmonology and a Paediatric Casualty.

The Department has been involved in collaborative research with other faculties of the University of the West Indies and several overseas institutions such as the University of Texas Health Sciences Center, Texas and Yale University. These partnerships have also afforded student exchanges and this academic year postgraduate

students pursued electives at Yale University and the University of Toronto – Hospital for Sick Children. Several members of the Department are involved in health promotion activities such as media presentations both print and electronic, community health fairs and presentations to the public. Members also demonstrated intellectual leadership through their involvement with several advisory boards.

The Department offers two undergraduate courses as part of the MBBS programme, the 4-week Junior Clerkship in Paediatrics (part of the Aspects of Family Medicine course) in year 3 of the MBBS programme and the 10-week Senior Clerkship in year 5 of the MBBS programme. There were 282 junior students and 301 senior students who completed the Child and Adolescent Health rotations over the last year.

There is a postgraduate programme in Paediatrics (Doctor of Medicine in Paediatrics) with students registered in Jamaica and in the Bahamas. There were 50 postgraduate students registered in the DM Paediatrics programme during the academic year 2018–2019. Thirty-five students were registered in Jamaica and 15 students were registered in the Bahamas. Eleven candidates sat the DM Part 2 final examination and 9 candidates sat the DM Part 1 examinations and all were successful. Ten candidates started the program on July 1st, 2019; 9 were registered in Jamaica and 1 was registered in the Bahamas.

The Department also offers a fellowship in Neonatology. Two candidates sat the Neonatology Fellowship examination in May/June 2019, one was successful. There is also the Post-graduate diploma in Loss Grief and Trauma Management. Five students completed the programme in 2018–2019 and 7 commenced the programme in September 2019.

Staff of the Department also teach courses in child and adolescent health related areas and provide research and clinical supervision to students enrolled in undergraduate programmes in Nursing and Midwifery and postgraduate programmes in Biomedical Research, Clinical Psychology, Education, Emergency Medicine, Epidemiology, Family Medicine, Nutrition and Public Health.

To assist in the delivery of clinical care and to ensure adequate security of the paediatric wards, the Department benefitted from donations of medical equipment and a security system throughout the year.

Donors included:

- The Church of Latter Day Saints – 1 incubator, 3 patient monitors and 2 infusion pumps
- Friends of the Special Care Nursery – 2 infusion pumps
- Fundaciones PreSchool, Kingston – Emergency kit
- Jamaica Kidney Kids Foundation – Dialysis catheters and supplies

- Shields Crime and Security Consultants – Security surveillance cameras and Buzzer assisted gate

## **ACCESS AND ALIGNMENT**

### **Students**

Efforts made to enhance the quality of teaching, learning and student development

#### **Undergraduate**

1. The Department of Child & Adolescent Health in collaboration with the Health Professions Unit (HPEU), FMS initiated a cross-disciplinary collaboration between Paediatrics and Family Nurse Practitioners (FNPs) to enhance the skills training for third year medical students rotating in the Junior Child Health Clerkship. The teaching/training skills of the FNPs were also optimized through training session by the HPEU and auditing of Child Health lectures. This skills training involved the use of low fidelity stimulation to enhance teaching. This allowed small group teaching in anthropometry, respiratory care and obtaining and interpreting patient vitals. The majority of students (82%) felt that the knowledge they acquired during the sessions could be applied during their clinical exposure.
2. To enhance the clinical skills training of medical students in both the Junior and Senior clerkships, the Department also acquired new equipment through a budgetary allocation from The UWI and a donation of two resuscitation dolls and other resuscitation equipment from the Royal Sick Childrens Hospital in Glasgow, Scotland.

#### **Postgraduate**

- Efforts made to improve the quality, quantity and appeal of Postgraduate academic programmes
1. Professor Russell Pierre, the University Examiner for the DM Paediatrics Programme facilitated and administered a Cross Campus Examiners Workshop on 7 June 2019 with the specific aim to develop a standardized blueprint for the DM Paediatrics Examination. The development of this blueprint has enhanced the harmonization of the DM Paediatrics Programme across the campus sites in the FMS.
  2. A new postgraduate Diploma in Adolescent Health and Advocacy programme has been approved. This programme is designed to improve the capacity of health and other allied service providers to understand and address the unique needs of adolescents. The programme will focus on empowering a spirit of advocacy within the student, to inform their decision-making skills and guide their delivery of optimal services to the adolescent and development of appropriate policies and

programs pertaining to adolescents. This training programme will be the first of its kind at the UWI to focus solely on the needs of the adolescent in a holistic fashion and will facilitate cross departmental, cross faculty and cross campus collaboration. The programme is congruent with the UWI's vision to advance regional integration while meeting the needs of a diverse group of students from the Caribbean region and will facilitate training of new and changing staff at varied levels within health, education, legal and social services to better meet the needs of the adolescent, so delivering care and services more efficiently.

## RESEARCH AND CONSULTANCY SERVICES

- Efforts made to increase governments' and industry's access to research output, to increase and improve research/industry partnerships and to improve the quality, quantity and impact of research
1. JAKIDS. JAKIDS is Jamaica's second national birth cohort study; Jamaica is one of few LMICs to conduct birth cohort studies of this nature. The JAKIDS study follows approximately 10,000 children; or 92% of all children born across Jamaica during the period July to September 2011. The study was designed to provide data on factors promoting and preventing optimum health development and behaviour in Jamaican children to the Ministries of Health, Education and Labour and Social Security. Representatives of these Ministries and other relevant Government of Jamaica entities (e.g. Registrar General's Department, NEPA) were represented on the project steering Committee to ensure that evidenced-based policy recommendations were transmitted immediately to the Government of Jamaica. Findings from the study were recently featured in the Ministry of Health 2019 "Vitals" publication. The study was funded primarily by the IDB, but also by UNICEF, the World Bank and other international entities, as well as the NHF. More than US\$2.1 million has been invested in the study to date. Further investments are anticipated.
  2. The Zika Action Research Group This research collaborative group of paediatricians, obstetricians, nurses, microbiologists, a psychologist and epidemiologists with Professor Celia Christie, as Chairperson, has membership from the Ministry of Health, the University Hospital of the West Indies, the Spanish Town Hospital, Bustamante Hospital for Children, Victoria Jubilee Maternity Hospital and five Antenatal clinics. The group's focus is on research on Zika and other arboviral infections to improve knowledge, health care delivery and outcomes of mothers, infants and children with these infections. This group represents the local arm of the Zika Global Research Alliance. To date, there have been 605 pregnant women enrolled from Jamaica and their delivering infants; seven peer-reviewed publications, one international poster, ten international oral presentations and three manuscripts submitted for publication, which all involved UWI partners from this group.

## OUTREACH

1. Perinatal Audit and Symposium. This was the eighteenth year of the Perinatal Audit and Symposium. This annual conference was held on the 23rd and 24th February 2019. This is a joint effort between the Departments of Obstetrics and Gynaecology and Child and Adolescent Health with external review of perinatal statistics by practitioners from external units. The theme was “Mental Health, Drugs and Infections in Perinatology”.
2. **Garbutt A.**
  - Continued Collaboration with the Autism Community providing resource and guidance. Presentation at their Parent Training 2019 Workshop June 12, 2019: Prevalence and Best Management Strategies in Autism Spectrum Disorder.
  - Collaboration with the Early Stimulation programme to assist in identifying appropriate placement for graduates

## AGILITY

- Efforts made to enhance the global presence of The University
1. A Special Issue of the *Journal of Psychology, Health and Medicine*, published by Taylor and Francis and dedicated to papers from the JAKIDS study was approved by the journal editors this year. The Special Issue is expected to include nine papers from the JA KIDS study.
  2. Research on Autism Spectrum Disorder, the single most common developmental disorder affecting young children, continued to be funded this year by the National Institutes of Health. This second NIH grant for research commenced in 2013 and ended in 2018; some US\$ 740,000 has been invested in this study. There have been 18 publications in international journals and 24 presentations at international conferences, from this research. Additional publications on autism from the Jamaica Autism Database has established Jamaica as a leader in autism research.
  3. Jamaica is one of the members of The Early Learning Partnership (ELP) Project, a multi-donor trust fund, administered by the World Bank. The ELP Systems Research Programme, the Jamaican component of which commenced in 2018 has objectives as follows:
    - (1) to provide policymakers with actionable information to help guide the delivery of quality, equitable early learning at scale
    - (2) to build the international evidence base in the new and emerging field of systems research in early childhood education.

The program seeks to generate knowledge on what works to remove institutional and systemic barriers to the provision of early childhood education at scale, and on what reforms could create the right institutional incentives to improve ECE provision.

Jamaica's record of early childhood service provision and research in early childhood education/development at the UWI was instrumental in being selected as part of this programme.

Phase I of this project has seen investment of just under US\$200,000.00, with further investment anticipated in Phase 2.

The UWI team works closely with GOJ ECD policy and implementation bodies, such as the Early Childhood Commission.

4. Professor Russell Pierre, Chairman of the Caribbean Association of Medical Councils (CAMC) Examination Committee is responsible for the administration of this the Caribbean Association of Medical Councils (CAMC) Licensing Examination biannually, on behalf of the FMS. The purpose of the examination is to determine eligibility for license to practice for medical graduates who originate from medical schools that are not accredited by the Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM-HP) but desire to practice within the CARICOM region. This consultancy has enhanced the credibility of the FMS, Mona in the region as a premier medical education institution, and provided annual income generation.
5. HIV/AIDS: Our faculty contributes internationally to the activities of the International AIDS Society (IAS), with Professor Russell Pierre, as a member of the Governing Council (GC) and Prof Celia Christie also as its Treasurer (after serving 8 years on the GC). The IAS comprises a membership of 11,035 multidisciplinary HIV professionals, from more than 160 countries working collaboratively at all levels of the global HIV response, including sponsorship of annual international conferences.
6. Arboviruses and Other Emerging Infections: Contributions are also being made to global leadership in evaluating the epidemiology and clinical features of perinatal and pediatric arbovirus infections through ZIKAction research initiatives, which is funded by the European Commission for 5 years. The UWI's Vice Chancellery hosted the "kick-off" meeting in October 2016. Participants include Prof Celia Christie, Professor Russell Pierre, Dr Roxanne Melbourne-Chambers and Dr Andrea Garbutt.
7. Collaborative contributions also include the 5-year, NIH-funded, Fogarty International Training grant for students in Virology.
8. Several other initiatives are being pursued with the NIH, including the UWI-led, multi-University collaboration for the "Jamaica Emerging Infectious Diseases

Research Center” and a “Clinical Trials Center” for the development of candidate arbovirus vaccines.

9. This has also been achieved through representation of various Department members on International research groups and councils.

**Christie CDC.**

- Member, Zika Action
- Special Project Lead – Collaboration between UWI and Yale University School of Medicine.
- Treasurer, International AIDS Society, Geneva, Switzerland
- Chair, Investments Committee, International AIDS Society, Geneva, Switzerland.
- Chair, Finance Committee, International AIDS Society, Geneva, Switzerland.
- Member, Governing Council of the International AIDS Society, Geneva, Switzerland
- Member, Collaborative Initiative for Paediatric Education and Research (CIPHER), Governing Council, International AIDS Society, Geneva, Switzerland
- Member, Research Grant Working Group, Collaborative Initiative for Paediatric Education and Research (CIPHER), Governing Council, International AIDS Society, Geneva, Switzerland
- Chair, “Pharmaceutical Industry Liaison Forum (ILF)” of the International AIDS Society (IAS)
- Fellow, Infectious Diseases Society of America, USA
- Fellow, Royal College of Physicians and Surgeons, Edinburgh, England
- Member, Paediatric Infectious Diseases Society of America, USA
- Founding Member, HIV Medicine Association of America, USA
- Member, International Association of Physicians in HIV/AIDS Care, USA

Member, International Society for Infectious Diseases, USA

**Garbutt A**

- Member, Zika Action

**Harrison A**

- Member, International Association for Adolescent Health
- Reviewer for abstracts/ workshop proposals for scientific meetings
- Annual Conference Society for Adolescent Health and Medicine (SAHM)
- Vice-President and founding member, Caribbean Association for Adolescent Health

**Melbourne Chambers R**

- Member, Zika Action

**Pierre R.**

- Member, Zika Action
- International AIDS Society IAS Governing Council 2016–2020: Latin America and Caribbean Representative with effect on 22 July 2016.

**Pottinger A.**

- External Mental Health Consultant, for the United Nations agencies in Jamaica (2018–present)
- American Psychological Association (APA) (1990–current)
- International Association for Counsellors (IAC) (2015–2018)

**Reece Mills M.**

- Member, The Sick Kids Caribbean Initiative

**Samms Vaughan M.**

- Chair, CARICOM Technical Working Group on Early Childhood / Child Development
- Member, IADB Early Childhood Advisory Group

**Thame M.**

- Member, The Sick Kids Caribbean Initiative
- Chair, Caribbean Public Health Agency (CARPHA), Research and Advisory Committee
- Co-Chair for the research team, Sick Kids-Caribbean Initiative for developing improved Care for children with cancers

**Trotman-Edwards H.**

- Member, Caribbean Public Health Agency (CARPHA) Ethics Committee

**HONOURS AND AWARDS****Christie CDC**

- 2018 – Order of Distinction, Commander Class, for Outstanding Service to Academic Medicine, Pediatric Infectious Diseases, Child Health and Public Health, National Honors and Awards Independence Day, by the Government of Jamaica.



- 2019 – Selected among “70+ Outstanding UWI Women”, representing UWI’s Graduating Class of 1979, to celebrate “UWI at 70” Exhibition Opening and Awards Ceremony, Institute of Gender and Development Studies, Regional Coordinating Center, Vice Chancellery-UWI.

#### **INVITED PROFESSIONAL AND ACADEMIC PRESENTATIONS**

- **Pierre RP, Moore JA, Christie CDC.** “Achieving the WHO’s “90-90-90” objectives in a Paediatric and Adolescent HIV/AIDS cohort”, University Hospital of the West Indies, Jamaica. Caribbean Adolescent Health Congress, Trinidad, 2019.
- **Orrigio K. Pierre RB, Gordon-Harrison D., Lewis-O’Connor K., Gordon-Strachan G., Christie CDC.** “Clinical Epidemiology of Sexually-acquired HIV/AIDS in Jamaican Children and Youth”. Caribbean Adolescent Health Congress, Trinidad, 2019.
- **Christie CD.** “Financial update – International AIDS Society”. Governing Council, International AIDS Society and Annual Members Meeting, International AIDS Society, Mexico City, Mexico, July 2019.
- **Christie CDC.** “ZIKA in Pregnancy and Children in Jamaica”. Medical Association of Jamaica Annual Conference. Jamaica Pegasus Hotel, 18 June, 2019.
- **Christie CDC.** “The International Pentavalent Rotavirus Vaccine Trial in Jamaica: Surviving an FDA Audit.” CAIHR/ TMRI/ SS Unit, UWI, Mona. 27 May, 2019
- **Christie CDC.** “ZIKA in Pregnancy and Children in Jamaica”. Yale University School of Medicine, Division of Pediatric Infectious Diseases, New Haven, CT, USA 18 April, 2019.
- **Christie CDC.** “Pneumococcal Vaccines Update”. Paediatric Association of Jamaica Biennial Conference, Spanish Court, Kingston, Jamaica. 22 March, 2019.
- **Christie CDC.** “HIV/ Syphilis/ Arbovirus Perinatal Infections”. Perinatal Conference, UWI, 20 February, 2019.
- **Christie CDC.** “There is Safety in Numbers: Vaccines and the Re-emergence of Vaccine Preventable illnesses”. Paediatric Association of Jamaica Conference, UWI, Faculty of Medical Sciences, UWI, Mona.
- **Christie CD.** “Financial update – International AIDS Society”. Governing Council, International AIDS Society, Annual Retreat, Geneva, Switzerland, December 2018;
- **Christie CD.** Invited speaker. Commitments of the International AIDS Society’s (IAS), Collaborative Initiative for Paediatric HIV Education and Research (CIPHER) and its Industry Liaison Forum (ILF) contributions to the Global Accelerator for Paediatric Formulations (the GAP-f), during the session, on

- “Solutions and Actions on Treatment: Financing Research & Development, Introduction, and Scale-up of Priority Drugs and Formulations”, at the Vatican’s High Level Dialogue on Paediatric AIDS, at the Vatican Pontificate for the Academy of Sciences and Human Development, Vatican City, Rome, December 7, 2018.
- **Christie CD.** Invited speaker. Commitments of the International AIDS Society’s (IAS), Collaborative Initiative for Paediatric HIV Education and Research (CIPHER), Global Cohort Collaboration of over 220,000 children and adolescents with HIV/AIDS, during the session on, “Solutions and Actions on Treatment: Uptake of New Optimal Drugs and Formulations”, at the Vatican’s High Level Dialogue on Paediatric AIDS, at the Vatican Pontificate for the Academy of Sciences and Human Development, Vatican City, Rome, December 7, 2018.
  - **Christie CD, Anzinger J, Thorne C.** “ZIKAction - Vertical Transmission Protocol In Action – Jamaica”, Third ZIKAction Consortium Conference, Rio de Janeiro, Brazil, November 2, 2018.
  - **Harrison A, Gordon-Strachan G, James C, Morgan R, Chambers J, Campbell-Forrester S, Pierre R.** Impact of an Adolescent Health Training Workshop on Healthcare Providers’ Knowledge, Attitudes and Practices. Ministry of Health 9th Annual National Health Research Conference, Kingston, Jamaica. November 22, 2018.
  - **Harrison A, Tyrill C.** Are Jamaican adolescents getting the health information they need? ISPCAN Caribbean Conference 2018. Montego Bay, Jamaica. December 3, 2018.
  - **Harrison A.** Disordered Eating Behaviours in the Adolescent. Dr. Leila Wynter Commemorative Conference, Bustamante Hospital for Children. November 5, 2018.
  - **Harrison A.** Communicating with Adolescents and Health Screening. 8th Annual National Adolescent Health Workshop, Melia Braco Village, Trelawny, Jamaica. November 2018.
  - **Harrison A.** Nutrition in Adolescence – finding the balance. 8th Annual National Adolescent Health Workshop, Melia Braco Village, Trelawny, Jamaica. November 2018.
  - **Harrison A.** Approaches to Management in adolescent health care. 8th Annual National Adolescent Health Workshop, Melia Braco Village, Trelawny, Jamaica. November 2018.
  - **Harrison A.** Strategies to build resilient children and adolescents. Caribbean College of Family Physicians. Paediatrics workshop, Alhambra Inn, Kingston. January 27, 2019.

- **Harrison A.** The Adolescent Mind. National Family Planning Board Workshop. Melia Braco Village, Trelawny. March 20, 2019.
- **Harrison A.** Presentation on HPV vaccines at Town Hall meeting (organized by Ministry of Health) at Webster Memorial Church. October 2018.
- **Graham LN, Melbourne-Chambers R, Gossell-Williams M, Tapper J.** Sleep and Behaviour in Jamaican Children With Epilepsy: A Case-Control Study. Poster Presentation. American Epilepsy Society Annual Meeting 2018, New Orleans, Louisiana. December 2018.
- **Pierre RB,** “Teens with Chronic Illness”. Presented (invited platform presentation) at the 8th Annual National Adolescent Health Workshop: “The Adolescent Patient” by The Ministry of Health, Jamaica in collaboration with the University of the West Indies, November 23–25, 2018, Melia Braco Village, Trelawney, Jamaica.
- **Pierre RB,** “HIV related kidney disease in Jamaican children”. Presented (invited platform presentation) at the 3rd Jamaican Paediatric Nephrology Conference 2018, “What’s New in Paediatric Nephrology and Urology”, Knutsford Court Hotel, Kingston, Jamaica, October 21, 2018.
- **Pierre RB,** “Sepsis – a time sensitive approach”. Presented (invited platform presentation) at the 3rd Western 3rd Western Paediatric Symposium 2018, August 11–12, 2018, Savanna-la-mar, Jamaica.
- **Pierre RB,** “Arboviral infections in Children: The old mixed with the new”. Presented (invited platform presentation) at the 3rd Western 3rd Western Paediatric Symposium 2018, August 11–12, 2018, Savanna-la-mar, Jamaica.
- **Christie CDC, Pierre RB,** “Paediatric and Perinatal HIV/AIDS in Jamaica”. Presented (invited platform presentation) at the 3rd Western 3rd Western Paediatric Symposium 2018, August 11–12, 2018, Savanna-la-mar, Jamaica.
- **A Gordon Stair and AM Pottinger, V Olivetto.** “Community-based Psychosocial Support, Training of Trainers”. Workshop for mental health practitioners from British-Caribbean territories, Jamaica Red Cross /British Red Cross, Jewel Resort Hotel, Ocho Rios, Jamaica, July 1–6, 2019
- **Lee M. J., Samms-Vaughan, M.** Bressler, J., Christian, M., Hessabi, M., Grove, M. L., Shakespeare-Pellington, S., Coore Desai, C., Reece, J-A., Loveland, K. A., Boerwinkle, E., Rahbar, M. H. A generalized weighted quantile sums approach that accounts for interaction between mixtures of highly correlated exposures and other factors. Submitted for presentation at the 2018 Joint Statistical Meeting in Vancouver, Canada, July 28–August 2, 2018.
- **Rahbar, M. H., Samms-Vaughan, M.,** Lee, M., Zhang, J., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., **Shakespeare-Pellington, S.,** Beecher, C., McLaughlin,

- W., Loveland, K. A. Interaction between a Mixture of Heavy Metals (Lead, Mercury, Arsenic, Cadmium, Manganese, Aluminum) and GSTP1 in Relation to Autism Spectrum Disorder. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1–4, 2019.
- Bach, M. A., **Samms-Vaughan, M.**, Hessabi, M., Bressler, J., **Shakespeare-Pellington, S.**, Grove, M. L., Loveland, K. A., Rahbar, M. H. Association of Polychlorinated Biphenyls and Organochlorine Pesticides with Autism Spectrum Disorder in Jamaican Children. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1–4, 2019.
  - Saroukhani, S., **Samms-Vaughan, M.**, Lee, M., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., **Shakespeare-Pellington, S.**, Loveland, K. A., Rahbar, M. H. Perinatal Factors Associated with Autism Spectrum Disorder in Jamaican Children. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1–4, 2019.
  - Saroukhani, S., **Samms-Vaughan, M.**, Lee, M., Bach, M. A., Bressler, J., Hessabi, M., Grove, M. L., **Shakespeare-Pellington, S.**, Loveland, K. A., Rahbar, M. H. The Possible Modifying Effect of Maternal Age on the Association between Breastfeeding and Autism Spectrum Disorder in Jamaican Children. 2019. Montreal, QC, Canada. INSAR 2019 Annual Meeting (formerly IMFAR), May 1–4, 2019.
  - Rahbar, M. H., **Samms-Vaughan, M.**, Lee, M., Christian, M. A., Bressler, J., Hessabi, M., Grove, M. L., **Shakespeare-Pellington, S.**, **Coore Desai, C.**, **Reece, J. A.**, Loveland, K. A., Beecher, C., McLaughlin, W., Boerwinkle, E. Interaction between manganese and GSTP1 in relation to autism spectrum disorder while controlling for exposure to mixture of lead, mercury, arsenic, and cadmium. 2019. Washington, D.C. Translational Science 2019 Meeting, March 5–8, 2019.

## PUBLICATIONS

### Refereed Journal Articles

- Flavia DeSouza, Elijah Paintsil, Teisha Brown, **Russell Pierre**, Danya Keene, Nancy Kim & **Celia Christie** (2019) Transfer is not a transition – voices of Jamaican adolescents with HIV and their health care providers, *AIDS Care*, 31:3, 293–297, DOI: 10.1080/09540121.2018.1533226
- Carvalho A, **Evans-Gilbert T.** The Pathophysiology of Marijuana-induced Encephalopathy and Possible Epilepsy after Ingestion in Children: A Case Series. *Innov Clin Neurosci*. 2019 Mar 1;16(3-4):16–18.

- **Evans-Gilbert T**, Kasimbie K, Reid G, Williams SA. Psychosocial outcomes in a cohort of perinatally HIV-infected adolescents in Western Jamaica. *Paediatr Int Child Health*. 2018 Aug;38(3):175–180.
- **Melbourne-Chambers R, Weller A, Thame M**. The Doctor of Medicine (Paediatrics) Programme at The University of the West Indies, Mona at 45 years, 1972–2017. *West Indian Med J* 2018; 67 (5): 383
- Graham L, Gossell-Williams M, **Tapper J, Melbourne-Chambers R**. Sleep disorders and behavioral disorders in Jamaican children with epilepsy: A case–control study. *Epilepsy & Behavior* Volume 99, October 2019, 106477<https://doi.org/10.1016/j.yebeh.2019.106477>. Accepted July 2019
- Carroll, K, **Pottinger, AM** and Wynter, S. Marijuana use and its influence on sperm morphology and motility: identified risk for fertility among Jamaican men. *Andrology*. 2019. DOI: 10.1111/andr.12670 (in press)
- **Pottinger AM**, Carrol, K. Reproductive needs of PLHIV in Jamaica: relationship between fertility desire, motives and depression. *Journal of Reproductive and Infant Psychology*. 2019; <http://dx.doi.org/10.1080/02646838.2019.1599334> (in press)
- Gibson TN, Beeput S, Gaspard J, George C, Gibson D, Jackson N, Leandre-Broome V, Palmer-Mitchell N, Alexis C, Bird-Compton J, Bodkyn C, Boyle R, **McLean-Salmon S, Reece-Mills M**, Quee-Brown CS, Allen U, Weitzman S, Blanchette V, Gupta S. Baseline characteristics and outcomes of children with cancer in the English-speaking Caribbean: A multinational retrospective cohort. *Pediatr Blood Cancer*. 2018 Dec;65(12):e27298. doi: 10.1002/pbc.27298. Epub 2018 Aug 9.
- Christian MA, **Samms-Vaughan M**, Lee M, Bressler J, Hessabi M, Grove ML, **Shakespeare-Pellington S, Coore Desai C, Reece JA**, Loveland KA, Boerwinkle E, Rahbar MH. Maternal Exposures Associated with Autism Spectrum Disorder in Jamaican Children. *J Autism Dev Disord*. 2018 Aug;48(8):2766–2778.
- Lee M, Rahbar MH, **Samms-Vaughan M**, Bressler J, Bach MA, Hessabi M, Grove ML, **Shakespeare-Pellington S, Coore-Desai C, Reece J-A**, Loveland KA, Boerwinkle E. A generalised weighted quantile sum approach for analyzing correlated data in the presence of interactions. *Biometrical Journal* 2019;61; 934–954.
- Rahbar MH, **Samms-Vaughan M**, Lee M, Christian MA, Bressler J, Hessabi M, Grove ML, **Shakespeare-Pellington S, Coore-Desai C, Reece J-A**, Loveland KA, Beecher C, McLaughlin W, Boerwinkle E. Interaction between manganese and GSTP1 in relation to autism spectrum disorder while controlling for exposure to a mixture of lead, mercury, arsenic and cadmium. *Research in Autism Spectrum Disorders* 2018; 55:50-63.

- Gray PB, Reece JA, Coore-Desai C, Dinnall-Johnson T, Pellington S, Bateman A, Samms-Vaughan M. Patterns and predictors of depressive symptoms among Jamaican fathers of newborns. *Soc Psychiatry Psychiatr Epidemiol.* 2018 Oct;53(10):1063-1070. doi: 10.1007/s00127-018-1566-2. Epub 2018 Jul 30. PubMed PMID: 30062481
- Livingstone-Sinclair K, Scott C, Trotman H. Adherence to health management guidelines for children with Down's syndrome at the Bustamante Hospital for Children, *Jamaica Trop Doct.* 2018 Oct;48(4):301–305. doi: 10.1177/0049475518788468. Epub 2018 Aug 16.
- McKenzie KA, Trotman H. A Retrospective Study of Neonatal Outcome in Preeclampsia at the University Hospital of the West Indies: A Resource-limited Setting. *J Trop Pediatr.* 2019 Feb 1;65(1):78-83. doi: 10.1093/tropej/fmy014
- Willis R, Heslop O, Bodonaik N, Thame M, Smikle M. Morbidity, mortality and antimicrobial resistance of pneumococcal infections in the Jamaican paediatric and adult populations. *Hum Antibodies.* 2019 Mar 13. doi: 10.3233/HAB-180361. [Epub ahead of print]
- Willis R, Smikle M, Heslop O, Bodonaik N, Thame M, Kumar U, Aung M, Kellier A, Drysdale S, Leon V. Pneumococcal disease burden, clinical presentations and vaccine coverage in the Jamaican population. *Hum Antibodies.* 2018;26(4):193–199. doi: 10.3233/HAB-180338.

#### Non Peer-Reviewed

- Christie CD. ZIKAction Vertical Transmission Study in Jamaica – Update. ZIKAction International Electronic Newsletter, Summer, 2019.
- Chakravorty.I, Christie CD, Poonking R. “Quality Assurance Report, Department of Clinical Medical Sciences”, St Augustine Campus, UWI, Trinidad, commissioned by UWI Vice Chancellery.
- Christie CD. “Emerging arboviruses – ZIKA, Chikungunya and Dengue and their effects in pregnancy, infancy and childhood in Latin America and the Caribbean”. Research for Development Book, Research Day, UWI – Mona Campus, to celebrate 70th Anniversary celebrations of the UWI.
- Christie CDC. “Measles – a Vaccine Preventable Disease”. Published in “Jamaica Gleaner”, for Child's Month, May, 2019, Special issue from Paediatric Association of Jamaica.
- Pierre R, Editor. Medulink: One Faculty, One UWI. Issue 2, June 2018. Newsletter on Medical Education for the Faculty of Medical Sciences, the University of the West Indies; available at: [https://sta.uwi.edu/fms/sites/default/files/fms/documents/Medulink\\_2018\\_June.pdf](https://sta.uwi.edu/fms/sites/default/files/fms/documents/Medulink_2018_June.pdf)

- **Russell Pierre**, Michael Branday, Tomlin Paul. Educating ALL in the Faculty of Medical Sciences, Mona Medical Education Unit to Health Professions Education Unit. Medulink: One Faculty, One UWI. Issue 3, December 2018. pp 6-7. Newsletter on Medical Education for the Faculty of Medical Sciences, the University of the West Indies; available at: <https://drive.google.com/file/d/1V1maLgIDMYLr8vAp5F7wNR68ycXklfnj/view>
- Tomlin Paul, Thaon Jones, **Russell Pierre**. 'Tis the Season for Quality Assurance, Mona. Medulink: One Faculty, One UWI. Issue 3, December 2018. pp 11. Newsletter on Medical Education for the Faculty of Medical Sciences, the University of the West Indies; available at: <https://drive.google.com/file/d/1V1maLgIDMYLr8vAp5F7wNR68ycXklfnj/view>
- **Andrea Garbutt**, Heather Silvera, Veroína Deslandes, Jacqueline Garvey, **Russell Pierre**. An Interprofessional Collaboration of Nursing and Medicine at Mona; Low Fidelity Simulation-Enhanced Teaching and Learning in Child Health. Newsletter on Medical Education for the Faculty of Medical Sciences, the University of the West Indies. pp 17–18; available at: <https://drive.google.com/file/d/1V1maLgIDMYLr8vAp5F7wNR68ycXklfnj/view>

#### **PUBLICATIONS (ABSTRACTS)**

- **M. Reece-Mills**, C. Alexis, U. Allen, C. Bodkyn, J. Bird, R. Boyle, S. de Young, B. Fleming-Carroll, T. Gibson, S. Gupta, P. Ingram-Martin, J. Knight-Madden, **S. McLean-Salmon**, M. Manley, I. Odame, S. Read, C. Sin Quee-Brown, B. Smith, **M. Thame**, H. Warner, G. Wharfe, D. Williams, and V. Blanchette. SickKids-Caribbean Initiative: collaborating to improve the diagnosis and care of children with cancer and serious blood disorders in the Caribbean. Presented at the American Society of Hematology. Blood Advances 2017; DOI 10.1182/bloodadvances.2017GS99978.
- Trevor S. Ferguson, Tamika Y. Royal-Thomas, Lisa Chin-Harty, **Minerva M. Thame**, Terrence E. Forrester, Michael S. Boyne, Rainford. J. Wilks. Effect of linear growth rate and change in adiposity in childhood and adolescence on blood pressure in Afro-Caribbean youth: The Vulnerable Windows Cohort Study. Journal of Developmental Origins of Health and Disease, <https://doi.org/10.1017/S2040174417000848> Published.



## INCOME GENERATION

### Research Grants

#### *Research Grant Funding*

The Department of Child and Adolescent Health was able to secure research grant funding through the following:

#### **P.I. Christie CD**

Title: Addressing the urgent research gaps against the Zika virus and other emerging threats in Latin America, SC1-PM-22-2016. Leader of WP1 – Vertical Transmission of ZIKV

Source: European Commission and Paediatric European Network for Treatment of AIDS (PENTA) Foundation

Grant Period: 2016 to 2021 (five years).

**Total grant amount: 924,121.81 Euros**

#### **Christie CDC: Co-investigator, (P.I. Gene Morse)**

Source: National Institutes of Health, USA

Title: “Fogarty International Training and Research in Virology at UWI”, collaborating with University of Buffalo, New York, USA

Grant period: 5 years, began 2018.

Grant amount: Funded for US\$1.1 Million to UWI

#### **P.I.: Michelle Reece-Mills**

Co-Investigator: M.Thame, A. Badaloo

Source: International Atomic Energy Agency (IAEA), Vienna

Title: Association between body composition and treatment outcome in Jamaican children with haematological malignancy

Funds: 50,000.00

#### **P.I. M. Samms-Vaughan**

Title: Evaluation of Early Childhood Learning Environments

Source: Inter-American Development Bank

Grant Period: 14/08/2014-13/08/2016 (extended to August 2018)

**Total grant amount: US \$1, 000,000.00 (Counterpart funding additional US200, 000.00)**



**P.I.: M. Samms-Vaughan**

Source: The World Bank

Title: ELP Systems Research on Early Childhood Development in Jamaica,

Grant Period: 23/08/2018-30/08/2019

Total cost: US \$199,970.00

**CONSULTANCIES/ COLLABORATIONS/ OTHER SCHOLARLY ACTIVITY:**

- Chakravorty.I, **Christie CD**, Poonking R. Quality Assurance Report, Department of Clinical Medical Sciences, St Augustine Campus, UWI, Trinidad, commissioned by UWI Vice Chancellery.
- **Christie CD**. Member, UWI's Regional ZIKA V Task Force, "One Environment – One Health", Representing Paediatrics and Mother to Child Transmission, inaugural Conference in Barbados. Appointed by the Vice Chancellor, UWI.
- **Christie CD** .Treasurer, International AIDS Society
- **Christie CD**. Member, Governing Council of the International AIDS Society
- **Christie CD**. Member, Collaborative Initiative for Paediatric Education and Research (CIPHER), Governing Council, International AIDS Society
- **Christie CD**. Member, Research Grant Working Group, Collaborative Initiative for Paediatric Education and Research (CIPHER), Governing Council, International AIDS Society
- **Christie CD**. Chair, "Rethinking the Pharmaceutical Industry Liaison Forum (ILF)" of the International AIDS Society (IAS)
- **Christie CD**. Fellow, Infectious Diseases Society of America,
- **Christie CD**. Member, Pediatric Infectious Diseases Society of America
- **Christie CD**. Founding Member, HIV Medicine Association of America
- **Christie CD**. Member, International Association of Physicians in HIV/AIDS Care
- **Christie CD**. Member, International Society for Infectious Diseases
- **Christie CD**. Director, Jamaica's National Program for the Elimination of Congenital HIV/AIDS and Syphilis and JaPPAAIDS
- **Christie CD**. Senior Member, Elimination of Mother to Child Transmission (eMTCT) of HIV and Syphilis, Oversight Committee and its many Subcommittees, eg., Database, Cascade for pMTCT Syphilis
- **Christie CD**. Member, *West Indian Medical Journal*, Editorial Board

- **Christie CD.** Special Project Lead – Collaboration between UWI and Yale University School of Medicine.
- **Crosdale B.** Member, Maternal and Perinatal Health Committee, Family Health Service Unit, Health Service Planning and Integration, Ministry of Health
- **Crosdale B.** Member – Serious Case Review Panel, Child Protection and Family Service Agency
- **Evans Gilbert T.** Floor member Paediatric Association of Jamaica
- **Evans Gilbert T.** Consultant Paediatrician Caribbean Immunization Technical Advisory Group (CITAG) Inaugural meeting held at the 33rd Caribbean EPI Managers' Meeting – Trinidad, 26–28 February 2018
- **Evans Gilbert T.** Representative of CITAG at World Health Organization Strategic Group of Experts(SAGE) meeting on Immunization April 17–19, 2018 Geneva Switzerland
- **Evans Gilbert T.** Consultant Paediatrician Ministry of Health for update of Paediatric Chapters of the National TB Manual, and National Prevention of Mother to Child Transmission of HIV and Syphilis manual
- **Evans Gilbert T.** Consultant Paediatrician Ministry of Health Island-wide training on updates in National Prevention of Mother to Child Transmission of HIV and Syphilis manual
- **Garbutt A.** President, Paediatric Association of Jamaica, 2019–present
- **Gooden M.** Executive member, Paediatric Association of Jamaica, 2017–present
- **Harrison A.** Immediate Past President, Paediatric Association of Jamaica, 2019–present
- **Harrison A.** Member, International Association for Adolescent Health
- **Harrison A.** Reviewer for abstracts/ workshop proposals for scientific meetings
- **Harrison A.** Annual Conference Society for Adolescent Health and Medicine (SAHM). 2017 – present.
- **Harrison A.** Vice-President and founding member, Caribbean Association for Adolescent Health
- **Harrison A.** Director, Board of Directors, National Family Planning Board. 2017–present
- **Harrison A.** Member, Adolescent Policy Working group – Ministry of Health, Jamaica
- **Harrison A.** Reviewer for journal – *PLOS One*
- **Harrison A.** Reviewer for journal – *West Indian Medical Journal*

- **Melbourne-Chambers R.** Manuscript Reviewer, *Epilepsy and Behavior Journal*, 2018.
- **Melbourne-Chambers R.** Member, Expert Group on Children of Mothers with Suspected/Confirmed ZikV Infection – Ministry of Health, Jamaica.
- **Melbourne Chambers R.** Abstract Reviewer. 2nd ISPCAN Caribbean Regional Conference. December 2–5, 2018. Montego Bay, Jamaica.
- **Pierre R.** Pan Caribbean Partnership Against HIV and AIDS (PANCAP): Sub-regional Consultation “National Action Towards The Elimination of STIs & Viral Hepatitis in the Caribbean”, in collaboration with Pan American Health Organisation, May 21–23, 2018, Hyatt Regency, Trinidad.
- **Pierre R.** Pan Caribbean Partnership Against HIV and AIDS (PANCAP): Workshop “Enhancing and Innovating Comprehensive HIV/STI Services for adults and adolescents of Key Populations”, in collaboration with Pan American Health Organisation, May 24–25, 2018, Hyatt Regency, Trinidad.
- **Pierre R.** Caribbean Accreditation Authority for Education in Medicine and Other Health Professions (CAAM-HP) Consultancy-Review Team for accreditation review of Queens University College of Medicine, completed July 31, 2018.
- **Pierre R.** International AIDS Society IAS Governing Council 2016–2020: Latin America and Caribbean Representative with effect on 22 July 2016.
- **Pierre R.** Abstract reviewer: for the 22nd International AIDS Conference (AIDS 2018) 23–27 July 2018 Breaking Barriers-Building Bridges, Amsterdam, Netherlands.
- **Pierre R.** Abstract reviewer: for the 27th Faculty of Medical Sciences Annual Research Conference & Workshops, November 8–11, 2018, Kingston, Jamaica.
- **Pierre R.** Caribbean Association of Medical Councils Examination – Chairman of committee to implement examination on behalf of the Faculty of Medical Sciences: from January 2007.
- **Pottinger A.** Consultant, UN Stress Counsellor, United Nations agencies in Jamaica, United Nation Department of Safety and Security; Responsible for developing a sustainable stress management programme for the 17 UN offices operating in Jamaica.
- **Samms Vaughan M.** Chair, CARICOM Technical Working Group on Early Childhood / Child Development.
- **Samms Vaughan M.** Chair, National ECD Oversight Committee.
- **Samms Vaughan M.** Member, IADB Early Childhood Advisory Group.
- **Thame M.** Member, UHWI representative Medical Review Panel, MOH.
- **Thame M.** Chair, Caribbean Public Health Agency (CARPHA), Research and Advisory Committee.

- **Thame M.** One of the lead physicians for the Sick Kids-Caribbean Initiative for developing improved Care for children with cancers.
- **Thame M.** Co-Chair for the research team, Sick Kids-Caribbean Initiative for developing improved Care for children with cancers.
- **Thame M.** Team Chair for the CAAM–HP Accreditation team for: Site visit to Spartan Health Sciences University School of Medicine Clinical sites in Las Vegas, Chicago. March 2019.
- **Thame M.** Director, Jamaica Kidney Kids Foundation (JKKF).
- **Thame M.** Academy of Medical Educators. Admission as a Fellow of the Academy of Medical Educators FAcadMed Sept 2018.
- **Trotman-Edwards H.** Member of the Caribbean Public Health Agency (CARPHA) Ethics Committee.

## **PUBLIC SERVICE**

### **Samms Vaughan M.**

- Chair, CARICOM Technical Working Group on Early Childhood/Child Development
- Chair, National ECD Oversight Committee
- Member, IADB Early Childhood Advisory Group
- Director, Usain Bolt Foundation
- Director, Family Life Ministries
- Director, Vaz Preparatory School Board
- Director, Promise Learning Centre Board

### **Thame M.**

- Director, Jamaica Kidney Kids Foundation (JKKF)

### **Gabay L.**

- Co-Founder and Medical Director, Camp Yellow Bird for children with diabetes.

### **Melbourne-Chambers R.**

- Volunteer Physician – St. Luke's Church Health Fair, 1999–present

### **Pottinger AM.**

- Chair of Steering Committee and Coordinator of Church-site Counselling Initiative (CSCI); a partnership between ecumenical group of churches and

mental health professionals; responsible for developing counselling sites throughout the island and expanding access to mental health counselling

- Member, University Council of Jamaica, Psychology and Counselling Standards Setting Committee; responsible for developing and setting standard practices and guidelines for Undergraduate and Graduate programmes in Psychology and Counselling.

**Harrison A.**

- Director, Board of Directors, National Family Planning Board, 2016–present.