

# THE CARRIBBEAN INSTITUTE FOR HEALTH RESEARCH (CAIHR)

Professor Susan Walker, BSc Bristol, MSc, PhD Lond – Director



CAIHR held our Annual Scientific Review November 27–28, 2018. The external Review Team comprised Professor Emeritus Alan Jackson, Chair, Emeritus Professor of Human Nutrition University of Southampton; Professor Nick Wareham, Director of the MRC Epidemiology Unit and Director of the Centre for Diet and Activity Research (CEDAR) and co-Director of the Institute of Metabolic Science, Cambridge University; Dr Tiffany Gary-Webb, Departments of Behavioral and Community Health Sciences and Epidemiology, University of Pittsburgh. We held a public forum on November 28, 2018 with presentations by Professors Jackson and Wareham.

Following the review we have undertaken a synthesis of our current research according to our strategic themes and programmes, to identify areas for focus and cross-institute collaboration. With input from Dr Gary-Webb we have begun a mentorship programme for junior academic staff.

A quality assurance review of the Institute was conducted in February, the review team comprised Professor K.M. Venkat Narayan Interim Associate Dean of Research, Rollins School of Public Health, Emory University; Professor Terence Seemungal University & Campus Dean, Faculty of Medical Sciences, The University of the West Indies St Augustine; Dr Lynda Williams St Michaels, Barbados; Dr Heather Reid-Jones Senior Medical Officer, Kingston and St Andrew Health Department. The review team recognised the achievements of CAIHR “It is the evidence-based view of the Quality Assurance Review Team that CAIHR is an “oasis of high-quality research” at The University of West Indies (UWI)” and also provided several recommendations both for action by UWI and by CAIHR.

## EPIDEMIOLOGY RESEARCH UNIT

2018/19 academic year was a busy one for the ERU with the funding of several grants and significant progress towards the launch of the new postgraduate diploma in health research and epidemiology in conjunction with the UWI Open Campus now set to enrol the first students in January 2020.

We were successful in obtaining a RO-1 grant from the National Institutes of Health (NIH) in collaboration with the Fox Chase Cancer Centre in Philadelphia. This will be used to plan an 8,000 person cohort to investigate genetic and environmental causes of diabetes, cardiovascular disease and cancer and will be the largest to date carried out in Jamaica.

We have also completed an application with the Department of Community Health and Psychiatry, Tulane University and Columbia for implementation of a team based care for hypertension.

We are part of the Evidence for Better Lives consortium a multi-country collaboration which will investigate determinants of violence starting in the pregnancy period. The foundational study to inform the main cohort study was conducted in 2019.

In collaboration with the Africa Early Childhood Network we conducted a regional senior level workshop in Nairobi, Kenya for our Reach Up: early childhood parenting programme We are collaborating with the Family Health Unit of the Jamaica Ministry of Health and Wellness to integrate and scale Reach Up through Primary Care Health Centres. Funding was obtained for baseline evaluations. Scaling of the Irie Classroom Toolbox for preschool teachers is being done in collaboration with the Early Childhood Commission.

CAIHR was approved as one of the sites for the Global Health Equity Scholars (GHES) Fellowship. **GHES is a research training program** for post-doctoral fellows, upper-level PhD students, professional school students (MD, DVM, DrPH, DDS, PharmD, Nursing). It is part of the Global Health Program for Fellows and Scholars sponsored by the **Fogarty International Center (FIC)** and several collaborating institutes and centers at the **National Institutes of Health (NIH)**. The GHES program brings together a consortium that includes **the University of California, Berkeley, The University of Arizona, Stanford University, and Yale University**, with affiliated international sites across 24 countries. The purpose of the program is to support a **12-month mentored research fellowship for investigators who are interested in studying diseases and conditions in developing countries**. Trainees are matched with top-tier global health research faculty from one of the four participating U.S. institutions and an international site, thus enabling them engage in rich and enduring, mentored research experiences that will foster scientific and career development in global health research.

The upcoming academic year will see a continuation of our current activities, the execution of newly funded projects that will be coming on stream, submission of grant applications to support planned research activities and forging new partnerships to complement the skills and resources within the Unit and increase the visibility of the Institute and its research work. Identification and mentoring of the next generation of bright academic staff with specific capacity building activities (mentorship

programme, developmental grant awards and writing workshops) will also be another area of focus.

Again the critical need to expand the current physical plant to accommodate new staff and project activities (we are currently unable to store the biospecimens to be collected from the R0-1 cohort study using the existing laboratory storage facilities) once again highlight the need for short and long term solutions to space issues.

### **TROPICAL METABOLISM RESEARCH UNIT**

The Tropical Metabolism Research Unit during the year continued to implement activities under its strategic plan to become the premier translational resource for the Institute and the Faculty. Within that context, the Institute upgraded its laboratory by the acquisition through grant funding of a Peapod to measure body composition in children weighing between 1 and 8 kg using air displacement plethysmography technology. With this addition, the TMRU is now able to measure body composition through the life course. Further in keeping with The UWI's triple A strategy the TMRU has been engaged in greater public advocacy especially as it relates to the dietary risk factors for non-communicable disease and greater academic/industry research partnerships through clinical trials.

The TMRU participated in human resource development by having several faculty and students being awarded training fellowships during the period. The beneficiaries included: Dr. Debbie Thompson – University of Toronto; Ms Sherine Whyte, Ms Racquel Wright, Dr. Daniel Thomas – University of Aberdeen.

### **PAPERS PRESENTED**

- Stanton S, Thompson T, **Ferguson T**. Clinical Performance of the qSOFA Score Among Non-ICU Inpatients with Infection at a Tertiary Hospital in Jamaica from 2015–2016. *Open Forum Infectious Diseases* 2018; ofy210; DOI 10.1093/ofid/ofy210. Available at: <http://dx.doi.org/10.1093/ofid/ofy210> Infectious Disease Society of America, October 3-7, 2018, San Francisco, USA
- **Ferguson TS**, Younger-Coleman NO, Tulloch-Reid MK, Govia I, McKenzie JA, Bennett NR, McFarlane SR, Francis DK, Webster-Kerr K, Grant A, Davidson T, Wilks RJ, Williams DR. Prevalence of ideal cardiovascular health and its components in urban Jamaica: The Jamaica Health and Lifestyle Survey 2016–2017. *West Indian Med J* 2018; 67 (Suppl. 4): Faculty of Medical Sciences Annual Research Conference Annual Research Conference November 8–9, 2018, Kingston, Jamaica
- **Ferguson TS**, Younger-Coleman NOM, Mullings JA, Francis DK, Greene L-G, Lyew-Ayee P, Wilks RJ. Neighbourhood Socioeconomic Status Inversely Associated

With Blood Pressure Among Afro-Caribbean Youth (Abstract 11598). *Circulation*. 2018;138(Suppl\_1):A11598-A. Available at: [https://www.ahajournals.org/doi/10.1161/circ.138.suppl\\_1.11598](https://www.ahajournals.org/doi/10.1161/circ.138.suppl_1.11598) American Heart Association Annual Session, November 10-14, 2018, Chicago, USA

- **Walker SP.** Reach Up an early childhood parenting programme. Ako Para sa Bata (I am for the child) Conference, Manila, Philippines November 19–20, 2018.
- **Chang SM.** Lessons from the expansion of the Reach Up Early Childhood Parenting Programme. 6th International Conference on Poverty Reduction and Child Development, November 5–6 2018, Beijing, China
- **Chang SM.** Home Visiting Studies in Early Childhood in Jamaica. Conference on Home Visiting in Comparative Perspective, June 27–28, 2019 – Beijing, China
- **Tulloch-Reid MK.** Identifying new partners in our approach to tackling the NCD epidemic NCD interventions Engaging the Church in Jamaica. Ministry of Health Annual Research Conference, Special Session: The Role of the Church in NCD Prevention, Kingston, Jamaica, November 22–23, 2018
- **Govia IO.** The Congregations Against Chronic Diseases (CONTACT) Study – overview and lessons learned. (10 minutes). Ministry of Health Annual Research Conference, Special Session: The Role of the Church in NCD Prevention, Kingston, Jamaica, November 22–23, 2018
- Dawkins Y, Lee M, **Ferguson T**, Mills M, Arthurs M, Donaldson K, Murphy T. Review of patients with inflammatory bowel disease at the university hospital of the West Indies between 1980-June 2018. *American Journal of Gastroenterology* 2019;114 (Suppl. 1): S20. DOI: 10.14309/01.ajg.0000578368.06770.5f *Advances in Inflammatory Bowel Disease Annual Meeting*. December 12-15, 2019, Orlando, Florida
- **Ferguson T.** Jamaica Health and Lifestyle Survey 2016–2017: Prevalence of NCD Risk Factors and Cardiovascular Disease. Caribbean Institute of Nephrology Conference 11th Annual International Conference on Nephrology and Hypertension, January 18–19, 2019, Kingston, Jamaica
- **Ferguson T.** Social Determinants Hypertension: A Review of Studies from Jamaica. Caribbean Institute of Nephrology Conference 11th Annual International Conference on Nephrology and Hypertension, January 18–19, 2019, Kingston, Jamaica
- Nepal DS, **Ferguson FS**, Younger-Coleman NO, Wilks RJ, Tulloch-Reid MK. A non-laboratory based score for detecting dysglycaemia in a predominantly black Caribbean Population. *Endocrine Practice*: April 2019, Vol. 25, No. Supplement 1, pp. 1–357. <https://doi.org/10.4158/1934-2403-25.s1.1> American Association of Clinical Endocrinologists (AACE), Los Angeles, California, April 24–29, 2019

- **Ferguson TS.** Recent blood pressure treatment guidelines: Can we harmonize the Message? *Jamaican Journal of Science and Technology* 2019; 29 (Suppl. 4): 34–35 University Diabetes Outreach Project (UDOP), April 25–27, 2019, Runaway Bay, Jamaica
- **McKenzie JA, Younger-Coleman NO, Tulloch-Reid MK, Govia I, Bennett NR, McFarlane SR, Walters R, Francis DK, Webster-Kerr K, Grant A, Davidson T, Wilks RJ, Williams DR, Ferguson TS.** Community property value and ideal cardiovascular health: findings from urban participants in the Jamaica Health and Lifestyle Survey 2016–2017. *West Indian Med J* Vol 68 (Suppl 1)17–43. Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- **Bennett NR, Ferguson TS, Younger-Coleman NO, Tulloch-Reid MK, Cruickshank JK.** Arterial stiffness in relation to birth characteristics in the Jamaican 1986 Birth Cohort. *West Indian Med J* Vol 68 (Suppl 1)17–43. Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- **Williamson GA, Rodrigo S, Ragin CC, Blackman E, Beck JR, Tulloch-Reid MK.** An evaluation of regional cardiovascular disease and cancer research needs using conference abstracts. *West Indian Med J* Vol 68 (Suppl 1)17–43. Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- **AV Badaloo, B Chambers O Brown.** Use of deuterium dilution technique to assess sarcopenic obesity in urban Jamaican elderly. International Symposium on Understanding the Double Burden of Malnutrition for Effective Interventions. Vienna, Austria, 10–13 December 2018.
- **AV Badaloo.** Application of stable isotope techniques in nutrition (total body water & body composition, protein turnover, synthesis and oxidation, lipid kinetics, rates of synthesis of compounds, breast milk intake & total energy expenditure). IAEA-sub-regional training course for Caribbean islands on introduction to the use of stable isotopes in human nutrition studies: Jamaica, October 22, 2018.
- **AV Badaloo.** Application of stable isotope techniques in nutrition. First Coordination Meeting on Nutrition Projects Using Nuclear Techniques in SIDS under the IAEA technical cooperation project INT0093, “Applying Nuclear Science and Technology in Small Island Developing States in Support of the Sustainable Development Goals and the SAMOA Pathway”, Austria, Vienna, December, 10–14, 2018.
- **B Chambers, AV Badaloo, M Reid, O Brown, L Wilson.** The association of lean body mass and muscle strength with co-morbidities in elderly urban Jamaicans. *West Indian Medical Journal.* 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019.

- **CR Taylor-Bryan**, AV Badaloo, MS Boyne, C Osmond, TE Forrester. The association of early life factors with bone mass in Jamaican adolescent children. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- **Debbie Thompson**. Metabolic profiles of adult survivors of severe acute malnutrition. IAEA Symposium on the Double Burden of Malnutrition. December 10–13, 2018. Vienna, Austria.
- **DJ Thomas**, SM Howell, AV Badaloo, ME Reid. Measurement of plasma volume in childhood severe acute malnutrition: a comparison of two methods of calculation using Evan’s Blue technique. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019.
- **G Junior**, M Reid, A Badaloo. Effect of  $\beta$ -hydroxy- $\beta$ -methyl butyrate supplementation in conjunction with resistance exercise on muscle strength, protein metabolism and body composition in underweight adults with sickle cell anaemia. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- **K Marshall** “Establishing a CAIHR-based biospecimen repository core”. Oral presentation delivered at the CRCRE Annual Scientific Retreat, The University of the West Indies, Mona, April 9, 2019
- **PD Jackson**, FE Morris, ME Reid. Communication channels influence on parental attitudes towards nutrition of children with disabilities. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- R Gobin, O Perreira, S Goberdhan, M Sharma, M Ramdeen, A Cort, D VanVeen, T Thomas, **S MacFarlane**, I Govia, M Rambaran, R Emmanuel, R Nasiro, A Abdulkadri, T Palmer, J Sandall, L Poston, U Read, TA Samuels, R Wilks, KCruickshank, S Harding. Strengthening Guyana’s primary healthcare system: use of participatory methods to prepare for a community-based, task-shifting intervention in the CONgregations Taking ACTION against NCDs (CONTACT) Study. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019
- **Marvin Reid**. Hydroxyurea and Stroke: The Jamaican Experience. The Caribbean Association of Researchers of Sickle Disease and Thalassemia, 5th Caribbean Conference on Sickle Cell Disease and Thalassemia. October 2019. French Guiana
- **Marvin Reid**. Treatment of Sickle Cell Anemia in the Caribbean. American Society of Hematology Meeting. December 2018. San Diego.

- S McFarlane, R Wilks, K Webster-Kerr, N Younger-Coleman, G Gordon-Strachan. Mental health in the Jamaican population – results of the Jamaica Health and Lifestyle Survey. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (CARPHA), Port of Spain, Trinidad, June 20–22, 2019.
- S McFarlane, Smart Health Futures 2030: Towards a Compassionate Cancer Care Ecosystem in the Caribbean, A reality? Hampton University's 1st Annual Caribbean Health Disparities Conference and the 24th Annual School of Science Research Symposium, April 2019, Virginia, USA.
- S McFarlane, Science of Cannabis; 'Medical Cannabis: The Way Forward', Inaugural Conference, April 2018, Faculty of Medical Sciences, Kingston, Jamaica
- James K, Asnani M, George K. Patient's Perspective: Hydroxyurea Therapy for Sickle Cell Disease. Poster presentation at Vth Caribbean Congress on SCD. Held French Guiana, October 24–26, 2018.
- Blake A, Guthrie-Dixon N, Grindley M, Barton-Gooden A, Knight-Madden J, Asnani M. Levels of agreement between adolescents' self-assessment and parent proxy report of health-related quality of life in adolescents with sickle cell disease. Oral presentation at 27th Annual Research Conference of the Faculty of Medical Sciences, UWI, Mona, Kingston, 7, Jamaica. November 8–9, 2018.
- Asnani V, Black K, Harris J, Knight-Madden J, Asnani M. Use of the daycare ward for management of acute complications of sickle cell disease: a retrospective review. Poster presentation at 27th Annual Research Conference of the Faculty of Medical Sciences, UWI, Mona, Kingston-7, Jamaica. November 8–9, 2018.
- Bulgin D, Tanabe P, Asnani M, Douglas C. Health Related Stigma and Quality of Life in Adults with Sickle Cell Disease in Jamaica. Poster presentation at American Society of Hematology 60th ASH Annual Meeting & Exposition, December 1–4, 2018, San Diego, CA, USA.
- Malik P, Grimley M, Quinn C, Shova A, Little C, Lutzko C, Loo H, Grassman E, Nordling D, Shreshta A, Felker S, Mehta P, Chandra S, Bushman FD, Kalinyak K, Davies S, Knight-Madden J, Asnani M. Gene Therapy for Sickle Cell Anemia Using a Gamma Globin Expressing Lentivirus Vector and Reduced Intensity Conditioning Transplant Results in Successful Correction of Disease Phenotype. Oral presentation at American Society of Hematology 60th ASH Annual Meeting & Exposition, December 1–4, 2018, San Diego, CA, USA.
- Knight-Madden J. A Case from Jamaica: A Pulmonologist's Approach to SCD in Low-resource Settings. American Thoracic Society, Dallas, May 2019.
- M. Asnani, Knight-Madden J. Review of newborn screening for sickle cell disease in the Anglophone Caribbean. Fifth Caribbean Congress on SCD. Held French Guiana, October 24–26, 2018.

## PUBLICATIONS

## Refereed Journal Articles

- **Baker-Henningham H, Francis T** (2018) Parents' use of harsh punishment and young children's behaviour and academic achievement in Jamaica A longitudinal study of Jamaican children with conduct problems. *Global Mental Health* 5: e32. <https://doi.org/10.1017/gmh.2018.21>
- **Baker-Henningham H, Scott Y, Bowers M, Francis T** (2019) Evaluation of a violence-prevention programme with Jamaican primary school teachers: A cluster randomised trial. *International Journal of Environmental Research and Public Health* 16: 2797. Doi:10.3390/ijerph16152797.
- **Benn EKT, Deshpande R, Dotson-Newman O, Gordon S, Scott M, Amarasiriwardena C, Khan IA, Wang YH, Alexis A, Kaufman B, Moran H, Wen C, Charles CAD, Younger NOM, Mohamed N, Liu B.** Skin Bleaching Among African and Afro-Caribbean Women in New York City: Primary Findings from a P30 Pilot Study. *Dermatol Ther (Heidelb)*. 2019 Jun;9(2):355-367. doi: 10.1007/s13555-019-0297-y. Epub 2019 Apr 24. *PubMed PMID:* 31020513; *PubMed Central PMCID:* PMC6522580.
- **Blackman E, Ashing K, Gibbs D, Kuo YM, Andrews A, Ramakodi M, Devarajan K, Bucci J, Jean-Louis G, Richards-Waritay O, Wilson B, Bowen C, Edi E, Tolbert V, Noumbissi R, Cabral DN, Oliver J, Roberts R, Tulloch-Reid M, Ragin C.** The Cancer Prevention Project of Philadelphia: preliminary findings examining diversity among the African diaspora. *Ethn Health*. 2018 Nov 19:1–17. doi:10.1080/13557858.2018.1548695. [Epub ahead of print] *PubMed PMID:* 30453751; *PubMed Central PMCID:* PMC6526085.
- **Brown CR, Hambleton I, Hercules SM, Unwin N, Murphy MM, Nigel Harris E, Wilks, R, MacLeish, M, Sullivan, L, Sobers-Grannum, N.** The U.S. Caribbean Alliance for Health Disparities Research Group (USCAHDR). Social determinants of prostate cancer in the Caribbean: a systematic review and meta-analysis. *BMC Public Health*. 2018;18(1):900. (**Ferguson TS, Bennett N, Younger-Coleman N** – members of U.S. Caribbean Alliance for Health Disparities Research Group [USCAHDR]).
- **Cunningham-Myrie CA, Mabile E, Govia I, Younger NO, Tulloch-Reid MK, McFarlane S, Francis D, Gordon-Strachan G, Wilks R, Greene LG, Lyew-Ayee P, Theall KP.** Neighbourhood characteristics and cumulative biological risk: evidence from the Jamaica Health and Lifestyle Survey 2008: a cross-sectional study. *BMJ Open*. 2018 Dec 14;8(12):e021952. doi: 10.1136/bmjopen-2018-021952. *PubMed PMID:* 30552247; *PubMed Central PMCID:* PMC6303643.
- **Daya M, Rafaels N, Brunetti TM, Chavan S, Levin AM, Shetty A, Gignoux CR,**



- Boorgula MP, Wojcik G, Campbell M, Vergara C, Torgerson DG, Ortega VE, Doumatey A, Johnston HR, Acevedo N, Araujo MI, Avila PC, Belbin G, Bleecker E, Bustamante C, Caraballo L, Cruz A, Dunston GM, Eng C, Faruque MU, **Ferguson** TS, Figueiredo C, Ford JG, Gan W, Gourraud PA, Hansel NN, Hernandez RD, Herrera-Paz EF, Jiménez S, Kenny EE, Knight-Madden J, Kumar R, Lange LA, Lange EM, Lizee A, Maul P, Maul T, Mayorga A, Meyers D, Nicolae DL, O'Connor TD, Oliveira RR, Olopade CO, Olopade O, Qin ZS, Rotimi C, Vince N, Watson H, **Wilks** RJ, Wilson JG, Salzberg S, Ober C, Burchard EG, Williams LK, Beaty TH, Taub MA, Ruczinski I, Mathias RA, Barnes KC; CAAPA. Association study in African-admixed populations across the Americas recapitulates asthma risk loci in non-African populations. *Nat Commun.* 2019 Feb 20;10(1):880. doi: 10.1038/s41467-019-08469-7. Erratum in: *Nat Commun.* 2019 Sep 4;10(1):4082. PubMed PMID: 30787307; *PubMed Central PMCID*: PMC6382865.
- Daya M, Rafaels N, Brunetti TM, Chavan S, Levin AM, Shetty A, Gignoux CR, Boorgula MP, Wojcik G, Campbell M, Vergara C, Torgerson DG, Ortega VE, Doumatey A, Johnston HR, Acevedo N, Araujo MI, Avila PC, Belbin G, Bleecker E, Bustamante C, Caraballo L, Cruz A, Dunston GM, Eng C, Faruque MU, **Ferguson** TS, Figueiredo C, Ford JG, Gan W, Gourraud PA, Hansel NN, Hernandez RD, Herrera-Paz EF, Jiménez S, Kenny EE, Knight-Madden J, Kumar R, Lange LA, Lange EM, Lizee A, Maul P, Maul T, Mayorga A, Meyers D, Nicolae DL, O'Connor TD, Oliveira RR, Olopade CO, Olopade O, Qin ZS, Rotimi C, Vince N, Watson H, Wilks RJ, Wilson JG, Salzberg S, Ober C, Burchard EG, Williams LK, Beaty TH, Taub MA, Ruczinski I, Mathias RA, Barnes KC; CAAPA. Author Correction: Association study in African-admixed populations across the Americas recapitulates asthma risk loci in non-African populations. *Nat Commun.* 2019 Sep 4;10(1):4082. doi: 10.1038/s41467-019-12158-w. PubMed PMID: 31484942; PubMed Central PMCID: PMC6726619.
  - East J, **Ferguson** T, Newnham M, Titus I, Vickers I, Brown H. Guidelines on Management of the Patient with Diabetic Foot Infection. *West Indian Med J.* 2019; 68 (Suppl. 1): 18-26. DOI: 10.7727/wimj.2018.194 Available at: <https://www.mona.uwi.edu/fms/wimj/article/3902>
  - Lincoln KD, Ailshire J, Nguyen A, Taylor RJ, **Govia** I, Ifatunji MA. Profiles of sleep and depression risk among Caribbean Blacks. *Ethn Health.* 2019 May 28;1-19. doi:10.1080/13557858.2019.1620179. [Epub ahead of print] *PubMed* PMID: 31137946.
  - Murray AJ, Kaiser D, Valdebenito S, Hughes C, Baban A, Fernando AD, Madrid B, Ward CL, Osafo J, Dunne M, Sikander S, **Walker** S, Van Thang V, Tomlinson M, Eisner M. (2018) The Intergenerational Effects of Intimate Partner Violence in Pregnancy: Mediating Pathways and Implications for Prevention. *Trauma,*

*Violence and Abuse* DOI: 10.1177/1524838018813563 journals.sagepub.com/home/tva.

- NCD Risk Factor Collaboration (NCD-RisC). Rising rural body-mass index is the main driver of the global obesity epidemic in adults. *Nature*. 2019 May;569(7755):260-264. doi: 10.1038/s41586-019-1171-x. Epub 2019 May 8. *PubMed PMID*: 31068725.
- **Smith JA, Baker-Henningham H, Brentani A, Mugweni R, Walker SP.** (2018) Implementation of Reach Up early childhood parenting program: acceptability, appropriateness, and feasibility in Brazil and Zimbabwe. *Annals of the New York Academy of Sciences*. 1419:120–40.
- **Smith JA, Rocke KD, Charles SM, Chang SM, Wright AS, Walker SP, Taveras EM, Tulloch-Reid MK.** The role of fathers in overweight prevention: an analysis of a Caribbean cohort. *Glob Health Epidemiol Genom*. 2018 Aug 28;3:e15. doi:10.1017/gheg.2018.12. eCollection 2018. *PubMed PMID*: 30263139; *PubMed Central PMCID*: PMC6152493.
- **Marshall K, Howell S, Badaloo A, Reid M, McFarlane-Anderson N, McKenzie C.** Exploring putative genetic determinants of inter-individual phenotypic heterogeneity in sickle cell disease: A cross-sectional Jamaican cohort-based study. *Blood Cells Mol Dis*. 2018; 73:1–8.
- Bourdon C, Lelijveld N, **Thompson D**, Dalvi PS, Gonzales GB, Wang D, Alipour M, Wine E, Chimwezi E, Wells JC, Kerac M, Bandsma R, Nyirenda MJ. Metabolomics in plasma of Malawian children 7years after surviving severe acute malnutrition: “ChroSAM” a cohort study. *EBioMedicine*. 2019; 45:464-72.
- **Debbie S. Thompson**, Ingrid A. Tennant, Deanne P. Soares, Clive Osmond, Chris D. Byrne, Terrence E. Forrester, Michael S. Boyne. Non-alcoholic fatty liver disease in non-obese subjects of African origin has atypical metabolic characteristics. *Journal of the Endocrine Society*, js.2019-00138, <https://doi.org/10.1210/js.2019-00138>.
- **Cunningham-Myrie CA, Royal-Thomas TYN, Bailey AE, Gustat J, Theall KP, Harrison JE, Reid ME.** Use of a public park for physical activity in the Caribbean: evidence from a mixed methods study in Jamaica. *BMC Public Health*. 2019; 19(1):894.
- **Leake PA, Toppin P, Reid M, Plummer J, Roberts P, Harding-Goldson H, McFarlane M.** Improving patient outcomes with inguinal hernioplasty-local anaesthesia versus local anaesthesia and conscious sedation: a randomized controlled trial. *Hernia*. 2019; 23(3):561–7.
- **Reid M.** Primary Health Care: Current and Future Models for the Caribbean. *West Indian Medical Journal*. 2019; Vol 68 (Suppl. 1): Caribbean Public Health Agency (2019) (Suppl 1):1.

- **Reid ME.** Hydroxyurea for Primary Stroke Prevention: The time draweth nigh. *Pediatr Blood Cancer.* 2019; 66(3):e27536.
- **Taylor-Bryan CR, Badaloo AV,** Boyne MS, Osmond C, Forrester TE. The association of early life factors with body composition in peripubertal Jamaican children. Vol 67, Issue 5:2018: Special Issue Commemorating the 70th Anniversary of The University of the West Indies. Published 31 December, 2018 DOI: 10.7727/wimj.2018.166
- **Rankine-Mullings Angela E.,** Serjeant Graham, **Ramsay Zachary,** Hanchard Neil A. , **Asnani Monika** The additional genetic diagnosis of homozygous sickle cell disease in a patient with Waardenburg-Shah syndrome: a case report.
- **Knight-Madden, J.** Sickle Cell Disease: The approach in Jamaica in 2018. Ophthalmological Society of Jamaica 8th Annual Conference. *West Indian Med J.* 2018; 67 (Suppl.1): O-10
- Barton-Gooden A, Grindley M, **Knight Madden J, Asnani M.** Gender differences in knowledge and quality of life of adolescents with sickle cell disease. *Psychology, Health & Medicine,* October 15, 2018. DOI: 10.1080/13548506.2018.1533985. (Impact factor: 1.603)
- **Rankine-Mulling A,** Serjeant G, **Ramsay Z,** Hanchard N, **Asnani M.** The Co-occurrence Association of Waardenburg Syndrome with Homozygous Sickle Cell Disease. *BMC Medical Case Reports.* 2019;13(1):10. doi: 10.1186/s13256-018-1953-z. (Impact factor: 0.58)
- **Knight-Madden J,** Lee K, Elana G, Elenga N, Marcheco-Teruel B, Keshi N, Etienne-Julan M, **King L, Asnani M,** Romana M, Hardy-Dessources MD for the CAREST network. Newborn screening for Sickle Cell disease in the Caribbean: an update of the present situation and of the disease prevalence. *International Journal of Neonatal Screening.* Jan 2019, 5(1), 5; <https://doi.org/10.3390/ijns5010005>. (2018 CiteScore: 1.07)
- **Asnani MR, Francis DK,** Brandow AM, **Hammond Gabbadon CEO,** Ali A. Interventions for treating neuropathic pain in people with sickle cell disease. *Cochrane Database of Systematic Reviews* 2019, Issue 7. Published July 5, 2019. Art. No.: CD012943. DOI: 10.1002/14651858.CD012943.pub2. (Impact factor: 7.755)
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## INCOME GENERATION

Grant Funding obtained 2018/19

- **1R01MD013347-01 (PIs: Tulloch-Reid/Ragin/Ashing) - 01/09/2018- 31/08/2023 - National Institutes of Health - US \$3.3M – all years.** Extending a Caribbean Based Cohort to Promote US- Caribbean Comparisons to facilitate research addressing Black Health Disparities. This study will extend the third Jamaica Health and Lifestyle Survey (JHLS-III) into a robust Caribbean-based longitudinal cohort investigating genetic and environmental causes of type 2 diabetes, cardiovascular disease and cancer. It will also support US-Caribbean research investigating Black health disparities while allowing cross context comparisons.
- **MRC/Wellcome Trust/DfID/NIHR Joint Global Health Trials Scheme (PI: Baker-Henningham) 01/10/2018-31/12/2019 (£180,852):** Development and evaluation of an integrated early childhood development and violence prevention teacher-training intervention in Jamaican preschools. This study involves the design and evaluation of a teacher-training programme to promote young children's

school readiness and language skills. The new intervention is designed to complement an existing school-based, violence prevention programme to form an integrated early child development and violence prevention programme.

- **Open Society Foundations (Investigators: Walker/Powell/Chang-Lopez/Smith/Grantham-McGregor).** 2018–2020 – US \$ 215,070 – Expanding implementation of the Reach Up Early Childhood Parenting programme. This project is to support the global expansion of Reach Up through a series of regional workshops to train program leads.
- **Botnar Foundation. Investigators M Eisner (PI) A Baban, P Fearon, M Dunne, A Fernando, A Hafeez, C Hughes, B Madrid, A Murray, J Osafo, S Sikander, M Tomlinson, S Walker, C Ward.** 2018–2019 £528,082; UWI £42,985. Evidence for Better Lives, Foundational study. The aim of this study is to investigate the causes of violence in several low and middle income countries.
- **Grand Challenges Canada.** Investigators: S Chang, C Powell, A Brentani 2018-2020. CAN\$43,551 Survive and Thrive in Brazil – The Boa Vista Early Childhood Program. This project is to assist in establishing home visiting programs to support the development of children in the first 1000 days of their lives in most vulnerable households in Boa Vista, Brazil.
- **Ministry of Health and Wellness, Jamaica.** Investigators: Susan Walker, Susan Chang, Christine Powell, Joanne Smith, Julia Rowe-Porter, Melody Ennis 2019-2020. JA\$1,973,975 Reach Up early childhood parenting programme: Evaluation of Implementation and Benefits in Jamaica. This project will assist the MOH in establishing a home visiting intervention programme for vulnerable children under 2 years in one health district per parish in Jamaica.
- **International Atomic Energy Agency (IAEA)** Principal Investigator Asha Badaloo. Using stable isotope techniques to establish body composition references of healthy children in Latin America and the Caribbean for monitoring and interventions to improve young child nutrition. Contract No: JAM6079. Period of Award 2018–2021. Value: €34,500.00
- **United Cannabis** Coordinating Investigator and Protocol Development: Shelly McFarlane. An Open label, Phase 1, 2-Way crossover study evaluating the pharmacokinetics of Prana P1 THC activated capsules to assess the efficacy and pharmacokinetics of THC activated capsules in healthy volunteers. USD 250,000.00. Duration: 2018–9
- **Medicanja, Development Bank of Jamaica:** Coordinating Investigator and Protocol Development Shelly McFarlane. The use of Cannabinoid extracts from Cannabis as adjuvant treatment of Cancer pain. JMD 14M. Duration: 2018–20
- **Avicanna Inc.** PI: Monika Asnani. Neuropathic Pain in Jamaican with Sickle Cell Disease. Value: J\$ 10,160,234.11. Period: Effective December 2018.

## Ongoing Grants

There are currently fifteen ongoing grants. Funding agencies include Jamaica Ministry of Health and Wellness, NHS National Institute for Health Research (UK), University of North Carolina, The Bernard Lown Scholars in Cardiovascular Health Program Harvard T.H. Chan School of Public Health, International Atomic Energy Agency (IAEA) and the MRC/AHRC Global Public Health: Partnership Awards Scheme. The total applicable income for the year 2018–2019 is J\$28.95 Million

## PUBLIC SERVICE

- **Pan American Health Organization** – Advisory Committee on Health Research (Susan Walker)
- **World Health Organization.** Member Early Childhood Development Guideline Development Group. (Susan Walker)
- **Jamaica Mental Health Advocacy Network,** Executive Board Member (Ishtar Govia)
- **Alzheimer’s Jamaica,** Executive Director (Ishtar Govia)
- **Heart Foundation of Jamaica,** Executive Board Member (Suzanne Soares-Wynter)

## Professional Committees

- **Marshall Tulloch-Reid** Executive Member, Director – Caribbean Endocrine Society
- **Novie Younger-Coleman** Past President – Jamaica Statistical Society
- **Trevor Ferguson** Treasurer – Association of Consultant Physicians Executive
- **Ishtar Govia** Scientific Committee Co-Chair – Alzheimer’s Associations of the Caribbean
- Member-At-Large of the Executive Council; Caribbean Regional Conference of Psychology Standing Committee, Co-Chair, Publications and Communications Standing Committee, Co-Chair – Caribbean Alliance of National Psychological Associations (CANPA); Editorial Committee Member – *Caribbean Journal of Psychology*
- **Asha Badaloo** Voluntary nutritional consultant at Prema’s *free medical clinic* at 10 Henderson Avenue, Kingston 11, 2006–present
- **Carolyn Taylor-Bryan** Member – National Infant and Young Child Feeding Committee
- **Shelly McFarlane** Treasurer and Charter member – The Jamaica Statistical Society (2013–present); Volunteer – Health Promotion Team, Jamaica Special Olympics (2011–present)

- Facilitator – Youth Diabetes Support Group (2010–present); Co-Chair Young Children Priority One Committee 2017–2018, Division 23E, Kiwanis International; Member of the Adjudicating & Organizing Committee, Ministry of Health, 3rd National Health Research Conference; Member of Organizing Committee, University Diabetes Outreach Programme Annual Conference
- **Marvin Reid** President, Caribbean College of Family Physician; Member, Research Advisory Committee, Caribbean Public Health Agency; Member, Ministry of Health and Wellness Cannabis Advisory Board; Member & Trustee, Dudley Grant Memorial Trust; President North American Region, World Family Medicine Association
- **Jennifer Knight-Madden** Member, Ministry of Health and Wellness Sickle Cell Technical Working Group; President, Sickle Cell Trust; Vice President, Caribbean Network of Researchers for Sickle Cell Disease and Thalassemia; Member, SickKids Caribbean Initiative
- **Debbie Thompson** Co-Benefactor – The Promise Award: 2015–present; Founding Member/ Parent Counsellor – Jamaica Autism Support Association: 2007–present; Executive Member-Post-Doc Advisory Committee (PDAC), Hospital for Sick Children, Toronto; Member, Management Committee, Sick Kids Caribbean Initiative (SCI), Toronto
- **Kwesi Marshall** Chair, National Food Industry Task Force, a food and nutrition advisory board of the Ministry of Health and Wellness
- **Monika Asnani** Term Graduate Faculty Appointment. Duke University Graduate School. 2017–2022; Co-Chair, Caribbean Primary Care Research group (CAPCRG), Caribbean College of Family Physicians. 2015-Present; Caribbean Representative to Worldwide Initiative on Social Studies in Hemoglobinopathies (WiSSH) since 2012; Board Member of Caribbean Network of Researchers in Sickle Cell Disease and Thalassemia since 2014; Member, Global Evidence Synthesis Initiative (GESI) Network of Evidence Synthesis Centers. Since May 2017; Academic Editor, *Plos One Journal*. July 2014–present.

## STUDENTS

### MSc Epidemiology 2017/18 cohort – Students Completed

Alphanso Blake

Daniel Nepaul

Marsha James

Sade Richards

### PhD Nutrition

Vanessa White Barrow