

Curriculum Vitae (August 2020)

A. Basic Career Data

Name	Ian Richard Hambleton
Date of birth	15th February 1969
Nationality	British
ORCID	Online Biosketch: https://orcid.org/0000-0002-5638-9794
PubMed	Online Publication Listing: https://www.ncbi.nlm.nih.gov/myncbi/ian.hambleton.1/bibliography/public/
Objectives	To disseminate my knowledge of analytics and data handling to non-statisticians working in health research. To lead or contribute to all stages of the research process. To provide appropriate and accurate quantitative solutions to internationally and regionally relevant public health challenges.
Biosketch	<p>I am a biostatistician with a first degree in Mathematics, a Masters in Medical Statistics and a Doctorate in Statistical Epidemiology. I have worked as a statistician for 25 years in Europe, Africa, and the Caribbean, variously for the UK Medical Research Council, The London School of Hygiene and Tropical Medicine, and The University of the West Indies (UWI). I have expertise in a wide range of research study designs, and have a long history of leading project data handling and analytics, including the management of solutions for robust and secure online data collection.</p> <p>I have published over 150 peer-reviewed articles on a broad range of chronic and infectious diseases. Working with academia, I have secured over 14 million US dollars of funding for health-related research. With colleagues at the University of the West Indies and elsewhere, I am currently organizing analyses for the Barbados National Registry for chronic non-communicable diseases, for 'The Health of the Nation' - a national survey to assess Barbadian health, and for ECHORN – the Eastern Caribbean Health Outcomes Research Network. I have been a principal investigator on a recently completed NIH award to better understand health inequalities in the Caribbean, and have continued to investigate Caribbean health inequalities using a wide range of publically available datasets. Recently funded projects include an evaluation of the Barbados tax on sugar-sweetened beverages, the use of virtual environments for testing the utility of different policies for reducing the regional diabetes burden, and the development of methods for assessing the health impacts of community food production initiatives – a response to the problem of food security in small island developing nations.</p> <p>I have a commitment to open-access data, and am developing an infrastructure for collecting and sharing research data across the UWI community. I continue my long-standing involvement with haemoglobinopathy research, working with groups around the world on sickle cell disease severity. I am a statistical editor for the Cystic Fibrosis and Genetic Disorders group of the Cochrane Collaboration - an international not-for-profit organization dedicated to improving healthcare decision-making globally. I work with the International Diabetes Federation – developing methodology for reporting global and regional diabetes prevalence, with the Pan-American Health Organization – developing guidelines for analysing mortality in the presence of small numbers, and am a statistical consultant for UNICEF – the United National Children's Fund.</p>

Education

(04)	Institution	Southampton University
	Course	PhD Statistical Epidemiology
	Description	Longitudinal studies in sickle cell disease
	Period	1999 – 2003
(03)	Institution	Reading University
	Course	MSc Biometry (Distinction)
	Description	The application of statistical methods to the biological sciences
	Period	1994 -1995
(02)	Institution	Brunel University
	Course	BA Mathematics (1 st class with honours)
	Description	Four-year degree including 18-months in industry
	Period	1988 – 1992
(01)	Institution	Ravensbourne
	Course	8 O-levels. 2 AO-levels. 3 A-levels.
	Period	1980 – 1987

Work History

(07)	Employer	The University of the West Indies, Cave Hill Campus
	Position	Professor of Biostatistics and Informatics, George Alleyne Chronic Disease Research Centre
	Description	Data Management and analysis of Clinical Trials, Population Surveys and Epidemiological studies. National disease registries in cancer, stroke, cardiovascular disease, lupus, and diabetes. National risk factor health surveys. Advisor to PAHO, EU, Barbados Government, other regional NGOs involved in health.
	Period	2010 – present
(06)	Employer	The University of the West Indies, Cave Hill Campus
	Position	Senior Lecturer in Biostatistics, Chronic Disease Research Centre
	Description	Data Management and analysis of Clinical Trials, Population Surveys and Epidemiological studies. National disease registries in cancer, stroke, and cardiovascular disease. National risk factor health surveys. Advisor to PAHO, EU, Barbados Government, other regional NGO involved in health.
	Period	2006 – 2010

(05)	Employer Position Description Period	The London School of Hygiene and Tropical Medicine Co-investigator / Clinical Trial Statistician Study management, data management and statistical analysis of two double-blind, randomised clinical trials of HIV interventions in women (1) Aciclovir for HSV-2 infection for HIV prevention (2) Microbicide gel for HIV prevention 2005 - 2006
(04)	Employer Position Description Period	The University of the West Indies, Mona Campus Senior Lecturer in Biostatistics, The Sickle Cell Unit Analyses of ongoing studies, teaching, consultancy. Development of Masters programme in Biostatistics. Managing the activities of the TMRI Statistics Group (Jamaica and Barbados). 2002 – 2005
(03)	Employer Position Description Period	The Medical Research Council (UK), The Jamaican Sickle Cell Unit MRC Postgraduate Research Fellow Four-year MRC-funded study using the Jamaican Sickle Cell Disease Cohort Study to develop guidelines for good practice when analysing observational sickle-cell disease data. 1998 – 2002
(02)	Employer Position Description Period	The Medical Research Council (UK), The Jamaican Sickle Cell Unit MRC scientist - statistician Statistical analysis of all Unit research. Statistical consultancy. Teaching of statistical software. 1996 – 1998
(01)	Employer Position Description Period	Charing Cross Medical School, Department of Public Health Lecturer in Medical Statistics Statistical consultancy. Analysis of major funded projects. Teaching of statistical techniques and software. 1995 – 1996

Areas of Expertise

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|---------------|--|
| Data Handling | <ul style="list-style-type: none">● Regulatory framework for data management of Randomised Controlled Trials (RCTs).● Data management techniques for ensuring data quality.● Data Management audits.● Data curation.● Data sharing. |
| Statistics | <ul style="list-style-type: none">● Systematic review methodologies● Systematic analyses of available data● Analysis of official statistics● Design and analysis of surveys● Longitudinal modelling techniques.● Coping with missing data● Methods for risk factor selection in prognostic factor studies.● Data visualisation. |
| Epidemiology | <ul style="list-style-type: none">● Systematic reviews and meta-analyses● Health Inequalities● Randomised Controlled Trials● Population Registries● Methods for ensuring Good Clinical Practice (GCP)● Cohort studies.● Techniques for tracking participants and for minimising loss to follow-up.● Bias in RCTs and observational studies. |
| Medical | <ul style="list-style-type: none">● Sickle-cell disease.● Haemoglobinopathies.● Chronic Non-Communicable Diseases● Diabetes● Cardiovascular disease● Health Informatics● Data quality in medical research● Ageing● HIV/AIDS. |

B. Refereed Scholarly Output

I have published **157** articles in international peer reviewed journals (**13** since 2019, **35** since 2017, **59** since 2015).

Recent articles have been published in Nature (Impact Factor 41.6), Lancet (IF 59.1), Lancet Global Health (IF 21.6), International Journal of Epidemiology (IF 7.4), eLife (IF 7.6), and the Cochrane Database (IF 7.9).

(157) Brown CR, Howitt C, Murhy MM, [Hambleton IR](#), Crizzle, AM. Driving cessation in older adults in a Caribbean small island developing state. *Journal of Transport & Health*. 2020, Vol 18. DOI: <https://doi.org/10.1016/j.jth.2020.100903>.

(156) Murphy MM, Jeyaseelan SM, Howitt C, Greaves N, Harewood H, Quimby KR, Sobers N, Landis RC, Rocke KD, [Hambleton IR](#). COVID-19 containment in the Caribbean: The experience of Small Island developing states. *Research in Globalization*. DOI: <https://doi.org/10.1016/j.resglo.2020.100019>. Available online 4 August 2020.

(155) [Hambleton IR](#), Jeyaseelan SM, Murphy MM. COVID-19 in the Caribbean small island developing states: lessons learnt from extreme weather events. *Lancet Glob Health*. 2020 Jul 2:S2214-109X(20)30291-6. doi: 10.1016/S2214-109X(20)30291-6. Epub ahead of print.

(154) Pathak EB, Salemi JL, Sobers N, Menard J, [Hambleton IR](#). COVID-19 in Children in the United States: Intensive Care Admissions, Estimated Total Infected, and Projected Numbers of Severe Pediatric Cases in 2020. *J Public Health Manag Pract*. 2020 Jul/Aug;26(4):325-333. doi: 10.1097/PHH.0000000000001190.

(153) NCD Risk Factor Collaboration (NCD-RisC)—Americas Working Group. Trends in cardiometabolic risk factors in the Americas between 1980 and 2014: a pooled analysis of population-based surveys. *Lancet Glob Health*. 2020 Jan;8(1):e123-e133. doi: 10.1016/S2214-109X(19)30484-X. Erratum in: *Lancet Glob Health*. 2020 May;8(5):e648. ([Hambleton IR](#), member of NCD-RisC writing group).

(152) Wang K, [Hambleton J](#), Linnander E, Marengo L, Hassan S, Kumara M, Fredericks LE, Harrigan S, Hasse TA 2nd, Brandt C, Nunez-Smith M; ECHORN Writing Group. Toward Reducing Health Information Inequities in the Caribbean: Our Experience Building a Participatory Health Informatics Project. *Ethn Dis*. 2020 Apr 2;30(Suppl 1):193-202. doi: 10.18865/ed.30.S1.193.

(151) NCD Risk Factor Collaboration (NCD-RisC). Repositioning of the global epicentre of non-optimal cholesterol. *Nature*. 2020 Jun;582(7810):73-77. doi: 10.1038/s41586-020-2338-1. Epub 2020 Jun 3. PMID: 32494083; PMCID: PMC7332422. ([Hambleton IR](#), member of NCD-RisC group)

(150) Quashie NT, Howitt C, Hambleton IR. Comparison of Dual Therapies for Lowering Blood Pressure in Black Africans. *N Engl J Med*. 2019 Oct 3;381(14):1391. doi:10.1056/NEJMc1909844.

(149) Saluja S, Anderson SG, [Hambleton J](#), Shoo H, Livingston M, Jude EB, Lunt M, Dunn G, Heald AH. Foot ulceration and its association with mortality in diabetes mellitus: a meta-analysis. *Diabet Med*. 2020 Feb;37(2):211-218. doi: 10.1111/dme.14151. Epub 2019 Dec 2.

(148) Estcourt LJ, Hopewell S, Trivella M, [Hambleton IR](#), Cho G. Regular long-term red blood cell transfusions for managing chronic chest complications in sickle cell disease. *Cochrane Database Syst Rev*. 2019 Oct 25;2019(10):CD008360. doi: 10.1002/14651858.CD008360.pub5.

(147) Cooper TE, [Hambleton IR](#), Ballas SK, Johnston BA, Wiffen PJ. Pharmacological interventions for painful sickle cell vaso-occlusive crises in adults. *Cochrane Database Syst Rev*. 2019 Nov 14;2019(11):CD012187. doi: 10.1002/14651858.CD012187.pub2

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- (145) Guariguata L, Brown C, Sobers N, [Hambleton J](#), Samuels TA, Unwin N. An updated systematic review and meta-analysis on the social determinants of diabetes and related risk factors in the Caribbean. *Rev Panam Salud Publica*. 2018 Dec 17;42:e171. doi: 10.26633/RPSP.2018.171.
- (144) NCD Risk Factor Collaboration (NCD-RisC). Rising rural body-mass index in the main driver of the global obesity epidemic in adults. *Nature*. 2019. May-09. <https://doi.org/10.1038/s41586-019-1171-x> ([Hambleton IR](#), member of NCD-RisC writing group).
- (143) Alvarado M, Unwin N, Sharp SJ, [Hambleton J](#), Murphy MM, Samuels TA, Suhrcke M, Adams J. Assessing the impact of the Barbados sugar-sweetened beverage tax on beverage sales: an observational study. *Int J Behav Nutr Phys Act*. 2019 Jan 30;16(1):13. doi: 10.1186/s12966-019-0776-7.
- (142) Sobers N, Rose AMC, Samuels TA, Critchley J, Abed M, [Hambleton J](#), Harvey A, Unwin N. Are there gender differences in acute management and secondary prevention of acute coronary syndromes in Barbados? A cohort study. *BMJ Open*. 2019 Jan 28;9(1):e025977. doi: 10.1136/bmjopen-2018-025977.
- (141) Adams OP, Mangera KA, [Hambleton IR](#), Morris EH, Paul-Charles JL. Does peak expiratory flow measured sitting differ from that measured standing? A cross-over study in primary care in Barbados. *BJGP Open*. 2018 Jun 27;2(2):bjgpopen18X101592. doi: 10.3399/bjgpopen18X101592. eCollection 2018 Jul.
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- (139) Brown CR, [Hambleton J](#), Hercules SM, Unwin N, Murphy MM, Nigel Harris E, Wilks R, MacLeish M, Sullivan L, Sobers-Grannum N; 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 Jul 20;18(1):900. doi: 10.1186/s12889-018-5696-y.
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- (137) NCD Risk Factor Collaboration (NCD-RisC) . Contributions of mean and shape of blood pressure distribution to worldwide trends and variations in raised blood pressure: a pooled analysis of 1018 population-based measurement studies with 88.6 million participants. *Int J Epidemiol*. 2018 Mar 19. doi: 10.1093/ije/dyy016. ([Hambleton IR](#), member of NCD-RisC group)
- (136) Serjeant GR, Chin N, Asnani MR, Serjeant BE, Mason KP, [Hambleton IR](#), Knight-Madden JM. Causes of death and early life determinants of survival in homozygous sickle cell disease: The Jamaican cohort study from birth. *PLoS One*. 2018 Mar 1;13(3):e0192710. doi: 10.1371/journal.pone.0192710.
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- (125) Brown CR, [Hambleton IR](#), Hercules SM, Alvarado M, Unwin N, Murphy MM, Harris EN, Wilks R, MacLeish M, Sullivan L, Sobers-Grannum N; U.S. Caribbean Alliance for Health Disparities Research Group (USCAHDR). Social determinants of breast cancer in the Caribbean: a systematic review. *Int J Equity Health*. 2017 Apr 5;16(1):60. doi: 10.1186/s12939-017-0540-z.
- (124) Bidulescu A, Ferguson TS, [Hambleton J](#), Younger-Coleman N, Francis D, Bennett N, Griswold M, Fox E, MacLeish M, Wilks R, Harris EN, Sullivan LW. Educational health disparities in hypertension and diabetes mellitus among African descent populations in the Caribbean and the USA: a comparative analysis from the Spanish town cohort (Jamaica) and the Jackson heart study (USA). *Int J Equity Health*. 2017 Feb 14;16(1):33. doi: 10.1186/s12939-017-0527-9.

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- (122) Flower C, **Hambleton I**, Campbell M. The Effect of Psychosocial and Neuropsychiatric Factors on Medication Adherence in a Cohort of Women With Systemic Lupus Erythematosus. *J Clin Rheumatol*. 2016 Dec;22(8):411-417.
- (121) Taylor CG Jr, Taylor G, Atherley A, **Hambleton I**, Unwin N, Adams OP. Barbados Insulin Matters (BIM) study: Perceptions on insulin initiation by primary care doctors in the Caribbean island of Barbados. *Prim Care Diabetes*. 2016 Nov 4. pii:S1751-9918(16)30104-8. doi: 10.1016/j.pcd.2016.10.001.
- (120) Guariguata L, Guell C, Samuels TA, Rouwette EA, Woodcock J, **Hambleton IR**, Unwin N. Systems Science for Caribbean Health: the development and piloting of a model for guiding policy on diabetes in the Caribbean. *Health Res Policy Syst*. 2016 Oct 26;14(1):79
- (119) Rose AM, **Hambleton IR**, Jeyaseelan SM, Howitt C, Harewood R, Campbell J, Martelly TN, Blackman T, George KS, Hassell TA, Corbin DO, Delice R, Prussia P, Legetic B, Hennis AJ. Establishing national noncommunicable disease surveillance in a developing country: a model for small island nations. *Rev Panam Salud Publica*. 2016 Feb;39(2):76-85
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- (112) Unwin N, **Hambleton IR**. Neighbourhood of residence and the risk of type 2 diabetes. *Lancet Diabetes Endocrinol*. 2016 Apr 27. pii: S2213-8587(16)30056-0. doi: 10.1016/S2213-8587(16)30056-0.
- (111) NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in diabetes since 1980: a pooled analysis of 751 population-based studies with 4.4 million participants. *Lancet*. 2016 Apr 9;387(10027):1513-30. doi: 10.1016/S0140-6736(16)00618-8. (**Hambleton IR**, member of NCD-RisC group)
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C. Non-refereed Academic output

I have published 86 technical reports and book chapters (9 since 2019, 19 since 2017, 33 since 2015), and given 80 oral presentations and posters at international academic conferences (10 since 2019, 27 since 2017, and 39 since 2015).

Since April 2020, I have produced daily COVID-19 surveillance reports for the 20 CARICOM member states, along with regional summaries and free for use slide sets. I have produced 23 reports per day – or over 650 reports per month – with circulation (via UWI, and regional agencies) across the Caribbean.

I have provided methodological contributions to the influential International Diabetes Federation Global Diabetes Atlas (Edition 6 published in 2013, Edition 7 published in 2015, and Edition 8 published in 2017).

COVID-19 Regional Surveillance Outputs

In March 2020, the Barbados Ministry of Health and Wellness asked The University of the West Indies for evidence to help the planning of a government response to the emerging COVID-19 outbreak. From this first request, I have provided evidence-based support to the Barbados government, and the wider CARICOM region. This has included advice on possible national interventions and on emergency public health process planning, backed up by statistical modelling and daily outbreak surveillance. I work closely with the Caribbean Disaster Emergency Management Agency (CDEMA) to provide technical support and surveillance updates to CARICOM member states. Since April 2020, I have produced 23 reports per day – **or over 650 reports per month** – with circulation (via UWI, and regional agencies) across the Caribbean. Example references for surveillance outputs (31-May-2020 and 31-July-2020).

Hambleton, Ian (2020): 31-May-2020. COVID-19 Daily Surveillance for the Caribbean / CARICOM. figshare. Figure. <https://doi.org/10.6084/m9.figshare.12746147.v2>

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Book Chapters and External Technical Reports

(86) **Hambleton IR**, MM Murphy, N Sobers, K Quimby, N Greaves, H Harewood. Briefing on process planning for the Ministry of Health and Wellness for COVID-19 stages 2 & 3 (Disaster Management Risk Framework for COVID-19 in the Caribbean) subsequently shared with CDEMA

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- (02) **Hambleton J**, Predicting losses sustained by coffee growers in the Blue Mountains due to severe weather events in November 2002. Government of Jamaica, Jamaica Coffee Board. 2003.
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Conference and other Presentations

- (87) **IR Hambleton. MM Murphy**. Presentation of surveillance and risk management process planning to the CARICOM Heads of Government. Regional prime-ministers in attendance. 15-April-2020. Bridgetown, Barbados.
- (86) **IR Hambleton**, K Quimby. Presentation of modelling and surveillance work to CARICOM regional COHSOD meeting. COHSOD is the CARICOM Council for Human and Social Development. Regional ministers of health in attendance. 6-April-2020. Bridgetown, Barbados.
- (85) **IR Hambleton**, K Quimby. Third presentation (with regional situation update) of Barbados model to the Caribbean Disaster Emergency management Agency (CDEMA). CARPHA and PAHO in attendance. Addition of surveillance products in development. 2-April-2020. Bridgetown, Barbados.
- (84) **IR Hambleton**. Second presentation (with regional situation update) of Barbados model to the Caribbean Disaster Emergency management Agency (CDEMA). CARPHA and PAHO in attendance. Addition of surveillance products in development. 30-March-2020. Bridgetown, Barbados.
- (83) **IR Hambleton**. Presentation of Barbados model to the Caribbean Disaster Emergency Management Agency (CDEMA). CARPHA and PAHO in attendance. 26-March-2020. Bridgetown, Barbados.
- (82) **IR Hambleton**, MM Murphy. Presentation of model results and intervention recommendations to the Barbados Ministry of Health and Wellness Emergency Operations Centre Team. 23-March-2020. Bridgetown, Barbados.
- (81) **IR Hambleton**, N Sobers. Using SEIR models to predict healthcare demand due to COVID-19 in Barbados. Presented to Barbados Prime Minister. 18-March-2020. Bridgetown, Barbados.
- (80) AR Greenidge, AP Speede, KR Quimby, **IR Hambleton**, RC Landis. Albumin creatinine ratio is associated with foot ulceration in people with diabetes: a case-control study in Barbados. 64th Annual CARPHA Health Research Conference. Hilton Trinidad and Conference Centre, Trinidad and Tobago June 20–22, 2019
- (79) NP Sobers, S Forde, SM Jeyaseelan, **I Hambleton**. Evaluating dissemination activities designed to bridge the gap between research and practice. 64th Annual CARPHA Health Research Conference. Hilton Trinidad and Conference Centre, Trinidad and Tobago June 20–22, 2019
- (78) KR Quimby, T Jordan, C George, N Sobers, **I Hambleton**. Assessing the readiness and suitability of faith-based organisations as sites for the Barbados Diabetes Remission Study 2 - A community-based diabetes remission intervention. 64th Annual CARPHA Health Research Conference. Hilton Trinidad and Conference Centre, Trinidad and Tobago June 20–22, 2019

- (77) C Howitt, [IR Hambleton](#), N Unwin. The contribution of physical inactivity to cardiovascular disease, type 2 diabetes, and all-cause mortality in the Caribbean. 7th ISPAH Conference, London, 15-17 October 2018.
- (76) M Alvarado, J Adams, M Suhrcke, [I Hambleton](#), TA Samuels, N Unwin. Assessing the impact of the Barbados sugar sweetened beverage tax on grocery store beverage sales: An interrupted time series analysis. 63rd Annual CARPHA Health Research Conference. St Kitts Marriott Resort & The Royal Beach Casino. St Kitts and Nevis. June 14–16, 2018
- (75) L Guariguata, C Guell, TA Samuels, EAJA Rouwette, J Woodcock, [IR Hambleton](#), N Unwin. Developing a systems model to inform policies for diabetes prevention in the Caribbean: A co-design approach to engage stakeholders in policy development and evaluation. 63rd Annual CARPHA Health Research Conference. St Kitts Marriott Resort & The Royal Beach Casino. St Kitts and Nevis. June 14–16, 2018
- (74) L Guariguata, C Brown, NP Sobers, [IR Hambleton](#), TA Samuels, N Unwin. Diabetes and related risk factors disproportionately affect Caribbean women: An updated systematic review and meta-analysis of diabetes and determinants. 63rd Annual CARPHA Health Research Conference. St Kitts Marriott Resort & The Royal Beach Casino. St Kitts and Nevis. June 14–16, 2018
- (73) NP Sobers, [I Hambleton](#), JA Critchley, TA Samuels, N Unwin. Disparities in trends in pre-mature adult mortality from coronary heart disease and stroke in ten countries of the Caribbean Community 1991 to 2012. 63rd Annual CARPHA Health Research Conference. St Kitts Marriott Resort & The Royal Beach Casino. St Kitts and Nevis. June 14–16, 2018
- (72) Sobers-Grannum N, Rose AMC, Samuels TA, Critchley J, [Hambleton IR](#), Harvey A, Unwin N. Gender disparities in the treatment of STEMI patients in the Caribbean country of Barbados. American Public Health Association, Annual Meeting and Expo, Atlanta Nov 4-8 2017.
- (71) Guariguata L, Guell C, Samuels TA, Rouwette E, Woodcock J, [Hambleton I](#), Unwin N. Systems Science for Caribbean Health: The development of a system dynamics model for guiding policy on diabetes in the Caribbean. American Public Health Association, Annual Meeting and Expo, Atlanta Nov 4-8 2017.
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- (69) C Taylor, G Taylor, A Atherley, [I Hambleton](#), N Unwin, P Adams. The Barbados Insulin Matters (BIM) study: Barriers to insulin therapy among a population-based sample of people with type 2 diabetes in the Caribbean island of Barbados. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (68) RM Harris, AMC Rose, [IR Hambleton](#), C Howitt, NG Forouhi, AJM Hennis, TA Samuels, N Unwin. Sodium and potassium excretion in an adult Caribbean population of African descent with a high burden of cardiovascular disease. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (67) M Alvarado, M Suhrcke, [I Hambleton](#), T Hassell, D Kostova, TA Samuels, N Unwin. The Barbados tax on sugar sweetened beverages: an overview of the evaluation in progress and an initial assessment of the effect on retail prices. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (66) L Guariguata, C Guell, TA Samuels, EAJA Rouwette, J Woodcock, [IR Hambleton](#), N Unwin. Systems Science for Caribbean Health: The development of a model for guiding policy on diabetes in the Caribbean. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (65) N Unwin, C Howitt, [IR Hambleton](#), TA Samuels, A Hennis, AMC Rose. Prevalence and phenotype of diabetes and prediabetes using fasting glucose versus HbA1c in a Caribbean population: implications for policy on diagnosis and prevention. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (64) AMC Rose, N Unwin, C Howitt, TA Samuels, EA Phillips, KS George, AJM Hennis, [IR Hambleton](#). Economic burden of cardiovascular disease in a small island developing state. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.

- (63) AMC Rose, N Unwin, C Howitt, EA Phillips, TA Samuels, **IR Hambleton**. Quality of life after cardiovascular disease in a small island developing state. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (62) A Razavi, **I Hambleton**, T A Samuels, N Sobers-Grannum, N Unwin. Changes in health care expenditure as a predictor of trends in cardiovascular disease and diabetes mortality in the Caribbean countries between 2000 and 2010. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (61) AR Greenidge, AP Browne, **IR Hambleton**, RC Landis. Erectile Dysfunction and Depression in a Barbadian male Population. 62nd CARPHA Health Research Conference, Guyana, April 27-29, 2017.
- (60) CR Brown, SM Hercules, N Sobers-Grannum, MM Murphy, N Unwin, C Howitt, M Alvarado, IR Hambleton. Social determinants of prostate cancer in the Caribbean: A systematic review and metaanalysis. 61st CARPHA Health Research Conference, Turks and Caicos, June 23-25, 2016
- (59) Allen C, **Hambleton I**, LeFranc, E. Parenting Practices and Intimate Partner Violence in the Next Generation: a Survey of Risk Factors for Violence among Youth in Barbados, Jamaica and Trinidad and Tobago. SALISES 16th Conference, Hilton, Bridgetown, 3-Mar-2016
- (58) **IR Hambleton**. Creating health inequality profiles. UNICEF / ESCAP Workshop. Kathmandu, Nepal, October 27-28th, 2015.
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- (56) Taylor Jr., C.G., Bynoe, K.A., Worme, A., Whittington, A., **Hambleton, I.**, Atherley, A., Husbands, A., Unwin, N. (2015) 'The effect of a checklist on the education of simulated patients during insulin initiation: a randomized controlled trial' Diabetes. Vol. 64 (Supplement 1). A187-A235. June 2015.
- (55) C Howitt, **IR Hambleton**, AMC Rose, AJM Hennis, KS George, N Unwin. The social determinants of diabetes and cardiovascular disease risk factors in Barbados: findings from the Health of the Nation study. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.
- (54) C F Allen, **IR Hambleton**, K Quimby, E Le Franc. Are women the main victims of violence within relationships? Prevalence, type and frequency of intimate partner violence and aggression by sex in Barbados, Jamaica and Trinidad and Tobago. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.
- (53) AMC Rose, LS Craig, TN Martelly, L Maul, DOC Corbin, KS George T, Blackman, TA Hassell, AJM Hennis, **IR Hambleton**. Incidence of and mortality from stroke in Barbados, 2009–2011. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.
- (52) C F Allen, C Halsall, **I R Hambleton**, A Delaney, C Gittens, M Gittens, RC Landis. HIV Gateway: expanding access to Caribbean HIV research via a website. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.
- (51) AR Greenidge, AP Browne, **IR Hambleton**, RC Landis. Albumin/Creatinine Ratio As An Indicator of Diabetic Foot in a Barbados Population. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.
- (50) F Morey, **IR Hambleton**, NC Unwin , TA Samuels. Ethnic and gender disparities in premature adult mortality in Belize 2008-2010. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.

- (49) LS Craig, Rose A, [Hambleton I](#). Cancer In Barbados: First Year of data from the National Cancer Registry In Barbados. 60th CARPHA Health Research Conference, Grenada, June 25-27, 2015.
- (48) Atherley AE, Lashley PM, George C, Morris C, [Hambleton I](#), Taylor CG. Final year clerkships, does one size fit all? - Preliminary findings. 2013
- (47) Atherley AE, Lashley PM, George C, Morris C, [Hambleton I](#), Taylor CG. Understanding anxiety during transition into a final year medicine clerkship- Preliminary results. 2013
- (46) CG Taylor Jr., M Krimholtz, K Belgrave, [I Hambleton](#), C George, G Rayman. Burden of diabetes and diabetic foot disease to acute hospital admissions in Barbados. Diabetes UK Professional Conference, Manchester. 13-15 March 2013.
- (45) [Hambleton I](#). Disparities in mortality and life expectancy in the Caribbean. National Institutes of Health, National Institute on Minority Health and Health Disparities, Sullivan Alliance HQ, Alexandria, VA, USA. February 21 2013.
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- (43) KR Quimby, [IR Hambleton](#), RC Landis. Reduced haptoglobin bioavailability inhibits the expression of a cytoprotective monocyte population in sickle cell disease. 58th Annual CARPHA (CHRC) Scientific Meeting. Hilton Barbados Resort – Barbados. May 02-04, 2013
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- (40) RC Landis, S Branch Beckles, S Crichlow, [IR Hambleton](#), A Best. 10 year National HIV Viral Load trends in Barbados: Implication for treatment as prevention. 58th Annual CARPHA (CHRC) Scientific Meeting. Hilton Barbados Resort – Barbados. May 02-04, 2013
- (39) C Taylor, M Krimholtz, K Belgrave, [I Hambleton](#). Inpatient diabetes care at the Queen Elizabeth Hospital in Barbados. 58th Annual CARPHA (CHRC) Scientific Meeting. Hilton Barbados Resort – Barbados. May 02-04, 2013
- (38) KR Quimby, S Moe, I Sealy, C Nicholls, [IR Hambleton](#), RC Landis. Clinical findings associated with Homozygous Sickle cell disease in the Barbadian Population – Do we need a national SCD registry? 58th Annual CARPHA (CHRC) Scientific Meeting. Hilton Barbados Resort – Barbados. May 02-04, 2013
- (37) Jeyaseelan S, Humphreys S, Gaskin P, Grace J, [Hambleton I](#). Providing low-cost fruit and vegetables to people with type-2 diabetes in Barbados: a feasibility study on dietary barriers to success. IDF World Diabetes Congress, 4-8 December, 2011. Dubai.
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- (25) LeFranc E, [Hambleton I](#), Atkinson U. Parenting practices, family structures and family exclusion among adolescents in Jamaica. Caribbean Child Research Conference; Oct 21-22, 2008 Kingston, Jamaica.
- (24) Watson-Jones D, Weiss HA, Rusizoka M, Chungalucha J, Baisley K, Mugeye K, Tanton C, Ross D, Everett D, Clayton T, Balira R, Knight L, [Hambleton I](#), Le Goff J, Belec L, Hayes R. Risk factors associated with HIV incidence in HSV-2 seropositive Tanzanian women in a RCT of HSV-2 suppressive therapy. Program and abstracts of the AIDS 2008: XVII International AIDS Conference; August 3-8, 2008; Mexico City, Mexico.
- (23) Heuschmann P, Smeeton N, Hennis A, Corbin D, [Hambleton I](#), Wolfe C. Differences in prevalence and management of prior-to stroke risk factors between Black Caribbeans in the UK and in Barbados. XVII European Stroke Conference, Nice, France. 13-16 May 2008.
- (22) Le Franc E, [Hambleton I](#), Atkinson U. Parenting Practices, Family Structures and Social Exclusion among Adolescents in Jamaica. Caribbean Child Research Conference. October 21-22. 2008
- (21) Rose AMC, Hennis AJ, [Hambleton IR](#). Sex and the city: disease, disability and active community engagement in male and female elderly of 7 cities. Community-Based Prevention and Management of Cardiovascular and Other Chronic Diseases among Caribbean Elderly, Antigua, 13-15 October 2008

- (20) Allen C, Lees S, Desmond N, Der G, Chiduo B, [Hambleton J](#), Vallely A, Hayes R, Ross D. Validity of coital diaries in the Microbicides Development Programme feasibility study among women at high risk of HIV in Mwanza, Tanzania. HIV Microbicides Conference, Durban, South Africa, 2007
- (19) Fraser R, [Hambleton J](#), Serjeant G, Reid M. The length of a painful crisis in sickle cell disease. Caribbean Health Research Council Annual Conference. St.Kitts, 2006.
- (18) Younger N, [Hambleton IR](#), Clarke K, Powell C. Experience of Using Stata Software in Teaching an Introductory Biostatistics Course for MSc Nutrition Students from 2002-2004. Joint Statistical Meeting, Minneapolis, US, 2005.
- (17) Moosang M, Forrester TE, [Hambleton IR](#), McKenzie CA, Reid M. Risk of stroke in sickle cell disease: the Sickle Cell Unit experience 1992- 2002. Caribbean Health Research Council Annual Conference. Tobago, 2005.
- (16) Rambaran C, Forrester TE, Chowienczyk PJ, Iveson E, [Hambleton IR](#), Ritter JM, Shah AM, Wilks RJ, Kalra L. Nature and nurture as determinants of predisposition to cardiovascular disease in people of African descent. Caribbean Health Research Council Annual Conference. Tobago, 2005.
- (15) Rambaran C, Forrester TE, Chowienczyk PJ, Iverson E, [Hambleton IR](#), Ritter JM, Shah AM, Kalra L. Early atherosclerosis affects the function of small rather than large arteries in Afro-Caribbean subjects. Caribbean Health Research Council Annual Conference. Tobago, 2005.
- (14) Creary LE, McKenzie CA, Hanchard NA, Taylor V, [Hambleton IR](#), Forrester TE, Thein SL. Ethnic difference in fetal haemoglobin and F cells levels in adults: data from Afro-Caribbean, European and Afro-German. Caribbean Health Research Council Annual Conference. Tobago, 2005.
- (13) NA Hanchard, [Hambleton IR](#), McKenzie CA. The frequency of the sickle allele in Jamaica: analysis of data from two neonatal screening cohorts. Caribbean Health Research Council Annual Conference. Tobago, 2005.
- (12) Steel-Duncan J, Pierre R, Evans-Gilbert T, Rodriguez B, Smikle M, Palmer P, Whorms S, [Hambleton J](#), Figueroa P, Christie C. Uptake of interventions, outcomes and challenges in Caring For HIV-exposed infants in a resource poor setting. 15th International HIV/AIDS Conference, Bangkok, Thailand, July 2004, Abstract B10584.
- (11) Pierre R, Steel-Duncan J, Evans-Gilbert T, Rodriguez B, Palmer P, Smikle M, Whorms S, [Hambleton J](#), Figueroa P, Christie C. CDC Defined Diseases and opportunistic infections among Jamaican Children with HIV/AIDS. 15th International HIV/AIDS Conference, Bangkok, Thailand, July 2004; Abstract MoPeC3373.
- (10) Evans-Gilbert T, Pierre R, Steel-Duncan J, Rodriguez B, Whorms S, [Hambleton J](#), Figueroa P, Christie C. Scaling-up antiretroviral therapy in Jamaica. Emerging Infectious Diseases Conference, Toulon, France; July, 2004.
- (09) [Hambleton IR](#), Linsell L, Clarke KM, Knight-Madden J, Wierenga KJJ. External validation of prognostic disease models: Health status in homozygous sickle cell. Caribbean Health Research Council Annual Conference. Grenada, 2004
- (08) [Hambleton IR](#), Linsell L, Younger NO, Wierenga KJJ. Health status in homozygous sickle-cell disease: a systematic review of prognostic studies. Caribbean Health Research Council Annual Conference. Grenada, 2004.

(07) Hambleton IR, Younger NO, Clarke KM, Wierenga KJJ. Measuring non-response in prospective cohort studies: the Jamaican Study of Sickle-Cell Disease. Caribbean Health Research Council Annual Conference. Grenada, 2004.

(06) Carter AC, Hennis A, Broome H, Hambleton IR, Fraser HF. Obesity in the elderly in Barbados. Caribbean Health Research Council Annual Conference. Grenada, 2004.

(05) Hennis A, Clarke K, Hambleton IR, Broome H, Brathwaite F, Fraser HF. Health status in older Barbadians. Caribbean Health Research Council Annual Conference. Grenada, 2004.

(04) Wierenga KJJ, Hambleton IR, Grandison TM, Char G. Mortality and circumstances of death in Jamaican patients with homozygous sickle cell disease. Annual Meeting of the National Sickle Cell Disease Program. San Francisco. April 2000.

(03) Wierenga KJ, Hambleton IR, Lewis NA. Survival estimates for patients with homozygous sickle-cell disease in Jamaica: a clinic-based population study. Annual Meeting of the National Sickle Cell Disease Program. Philadelphia. April 2001.

(02) Ricketts A, Parker SP, Brouwer J, Hambleton IR, Singhal A, Serjeant GR. Vitamin A, E, and carotenoid status in Jamaican children with sickle cell disease. Commonwealth Caribbean Medical Research Council Annual Conference. Jamaica, April 1998.

(01) Knight J, Hambleton J, Hemmings-Kelly M, Homi J. Spirometric abnormalities in Jamaican children with SS and SC disease. Commonwealth Caribbean Medical Research Council Annual Conference. Jamaica, April 1998

D. Other

I develop and manage all aspects of data management and statistics at the George Alleyne Chronic Disease Research Centre (GA-CDRC). I maintain active collaborations with colleagues at the University of the West Indies and beyond, and these links offer a rich source of publication development.

I am upgrading the data management infrastructure at the George Alleyne Chronic Disease Research Centre in accordance with Good Clinical Practice (GCP).

Development of Research Infrastructure

2017-	Planning of CDRC “electronic Research Data Infrastructure” (eRDI) <i>Internal CDRC ITC platform and content management backbone for the collection, storage and dissemination of research data</i>
2016-2017	Planning of CDRC Data Group <i>Creating an informal research grouping around researchers with an interest in the broad field of Data Science</i>
2013-2015	Planning of Virtual Health Research Unit <i>ITC platform and content management system for the storage and dissemination of HIV-related health information and datasets.</i>
2014	Database implementation (RedCap). <i>RedCap deployment at the CDRC. Web-based software for Electronic Data Capture (SDC). Open-source, web-based clinical research software platform.</i>
2009	Database implementation (OpenClinica). <i>OpenClinica deployment at the CDRC. Web-based software for Electronic Data Capture</i>

(SDC). *Open-source, web-based clinical trial software platform with full regulatory compliance.*

- 2009 Document repository implementation (KnowledgeTree)
KnowledgeTree implementation for centralized storage and version control of all study documentation.
- 2008 Implementation of Good Clinical Practice at the Chronic Disease Research Centre.
Review of current processes. Upgrade to RCT compliant procedures. Development of Standard operating Procedures (SOPs).

Study Management

- 2017-current Planning for a Sustainable and Robust Regional Center for Research Excellence (RCRE) in the Caribbean. *Data management and data analytics.*
- 2017-current Developing theory and methods for evaluating the impact of community food initiatives on NCD risk, social and economic wellbeing and the environment. *Data management and data analytics.*
- 2009-current The Barbados National Registry (Phases II, III, IV). Translation of data for public health policy. *Preparation of protocol / operations manual. Database design. Data management and statistical analyses.*
- 2012-2015 US-Caribbean Health Disparities Research Consortium (USCAHDR).
Preparation of THREE protocols / operations manuals. Management of project “analysis programme” for the discovery and secondary analysis of available Caribbean health datasets (see CDRC Technical Reports for output details).
- 2011-2014 The Health of the Nation.
Preparation of protocol / operations manual. Database design. Data management and statistical analyses.
- 2009-2012 The Barbados National Lupus Register.
Preparation of protocol / operations manual. Database design. Data management and statistical analyses.
- 2009-current The Barbados National Register – Cancer.
Preparation of protocol / operations manual. Data management and statistical analyses.
- 2009- current The Barbados National Register – Heart
Preparation of protocol / operations manual. Data management and statistical analyses.
- 2009-2011 Wound Healing in Diabetes (WHY study).
Preparation of protocol / operations manual. Database design. Data management and statistical analyses.
- 2008- current The Barbados National Register – Stroke.
Preparation of protocol / operations manual. Data management and statistical analyses.

2007-2009 Nutritional supplementation to maintain weight in people with HIV/AIDS, Kingston, Jamaica.
Data management and statistical advisor.

E. Honorary Awards for Scholarship

2017 Vice-Chancellor's Award for Excellence in Research. Trinidad and Tobago, October 2017.

2011 The University of the West Indies, Mona. Research awards. Best article: Simms-Stewart D, Thame M, Heman-Keens A, Hambleton IR, Serjeant GR. Retained placenta – a complication of pregnancy in homozygous sickle cell disease. *Obstet Gynecol.* 2009 Oct;114(4):825-8.

2008 The University of the West Indies. Awardee "60-under-60" researcher awards.

2007 The University of the West Indies, Mona. Research awards. Best article: Thompson J, Reid M, Hambleton I, Serjeant GR. Albuminuria and renal function in homozygous sickle cell disease: observations from a cohort study. *Arch Intern Med.* 2007 Apr 9;167:701-8.

2004 Royal Statistical Society. Chartered Statistician (CStat).

2002 The University of the West Indies, Mona. Research awards. Best article: Mohan JS, Vigilance JE, Marshall JM, Hambleton IR, Reid HL, Serjeant GR. Abnormal venous function in patients with homozygous sickle cell (SS) disease and chronic leg ulcers. *Clin Sci (Lond).* 2000 Jun;98(6):667-72.

1999-2003 Post-graduate research fellowship. Medical Research Council (UK).

1998-present Fellow of the International Biometrics Society

1998-present Fellow of the Royal Statistical Society.

1992 Brunel University. Award for best undergraduate degree.

F. Invitations to Present at Academic Meetings

2017 Afro-Caribbean Cancer Consortium (AC3). Using REDCap for health research. Intercontinental Hotel, Doral, Miami, FL. Oct 6-9 2017.

2016 National Institutes of Health, National Institute on Minority Health and Health Disparities. "Health inequalities in the Caribbean and in the North America." Sullivan Alliance HQ, Alexandria, VA, USA. May 2016.

2015 National Institutes of Health Training Workshop (Presenter), Improving Chronic Disease in the Caribbean through Evidence-Based Behavioral and Social Interventions, July 21-23, 2015, Bridgetown, Barbados

2015 National Institutes of Health, National Institute on Minority Health and Health Disparities. "Health inequalities in the Caribbean and in the North America." Sullivan Alliance HQ, Alexandria, VA, USA. February 2015.

- 2014 National Institutes of Health, National Institute on Minority Health and Health Disparities. "Comparison of health disparities between African-descent populations in the Caribbean and North America." Sullivan Alliance HQ, Alexandria, VA, USA. February 18 2014.
- 2013 National Institutes of Health, National Institute on Minority Health and Health Disparities. "Disparities in mortality and life expectancy in the Caribbean." Sullivan Alliance HQ, Alexandria, VA, USA. February 21 2013.
- 2011 European Union. Presentation at EUBIROD. "Developing diabetes registration in the Caribbean". January 28-29 2011, Brussels, Belgium.
- 2009 Pan American Health Organization. "Cancer registration in the English-speaking Caribbean". Workshop on developing a model for sustainable cancer registration in Latin America and the Caribbean.
- 2008 Pan American Health Organization. Human Resources for Health (HRH). Workshop on developing a minimal dataset for HRH monitoring in the Caribbean.
- 2007 Government of Barbados, Ministry of Education. Expert Committee on environmental health concerns at the Louis Lynch comprehensive school, Bridgetown, Barbados.
- 2002 Government of Jamaica. Expert Committee on environmental impact of severe weather events on coffee yields.

G. Invitation to serve on National/Regional/International Public and Scholarly Bodies

I wear two editorial hats for the well-known Cochrane Collaboration, and am a statistical reviewer for a number of health journals. I have served on numerous committees as a data management and statistical advisor, on a range of issues of public health significance to the region. I serve on the UWI/MoH Research Ethics Committee.

The Cochrane Collaboration is an international not-for-profit and independent organization, dedicated to making up-to-date, accurate information about the effects of healthcare readily available worldwide. It produces and disseminates systematic reviews of healthcare interventions and promotes the search for evidence in the form of clinical trials and other studies of interventions.

- 2017 – present Chair, Data Sharing Working Group for The Yale University Transdisciplinary Collaborative Center for Health Disparities Research (Yale-TCC) / Eastern Caribbean Health Outcomes Research Network (ECHORN).
- 2017 – present Cohorts Collaboration of Latin America and the Caribbean (CC-LAC) / Imperial College, London, UK. Steering committee member.
- 2017 – present Pan-American Health Organization (PAHO). Technical advisory committee for the development of methods to analyze mortality in the presence of small numbers.
- 2015 – present United Nations Children’s Fund (UNICEF). Approved statistician for provision of statistical support to UNICEF research output.
- 2012 – 2019 International Diabetes Federation (IDF). Committee member for the Diabetes Atlas 6th / 7th / 8th edition, with special focus on developing statistical methodology for prevalence rate sensitivity analyses.
- 2011 – present Member of Committee for the analysis & production of the annual Barbados HIV/AIDS Surveillance Report. (HIV/AIDS Programme, Ministry of Health, Government of Barbados).
- 2010 – present Member of University of the West Indies / Ministry of Health Institutional Review Board (Ethics Board) for the review of research involving human subjects.
- 2009 - present Statistical Editor, Cochrane Collaboration. Appointed statistical editor with the Cochrane Collaboration (Cystic Fibrosis and Genetic Disorders Group). Full editorial duties for this global network for systematic reviews of randomised clinical trials. The Cochrane Library has an impact factor of 6.186 – 10th out of 153 “General Medicine” journals.
- 2008 - present Haemoglobinopathies Editor, Cochrane Collaboration. Appointed haemoglobinopathies editor with the Cochrane Collaboration (Cystic Fibrosis and Genetic Disorders Group). Full editorial duties for this global network for systematic reviews of randomised clinical trials.
- 2009 - present Caribbean representative. World Health Organization (joint IARC/PAHO) taskforce on developing sustainable cancer registration in Latin America and the Caribbean.
- Present Statistical and subject-matter reviewer for a further seven (7) journals. The Lancet, British Medical Journal, Journal of Epidemiology and Community Health, Pan-American Journal of Public Health, Diabetes Care, Prevention and Control, West Indian Medical Journal. Reviewed over 40 manuscripts since arriving at the Chronic Disease Research Centre in 2006.
- 2008 - present Member and statistical expert. The joint ethics committee (Institutional Review Board) of the University of the West Indies and the Barbados Ministry of Health.

2008 - present	Caribbean representative. Data management and statistical advisor. PAHO / WHO committee on development of Human Resources for Health (HRH) resources in the Caribbean.
2007 - 2010	Data management advisor to GWR Medical Inc. Phase III randomised controlled trial of topical oxygen for wound healing among people with diabetes and lower-limb ulceration.
2006 - 2008	Data management and statistical advisor to Institute of Child Health, London. A single blind, open label pilot randomised controlled trial of auto-adjusting positive airway pressure in children with sickle cell anemia.
2006	Barbados Government (Ministry of Education). Member of expert committee on health concerns at the Louis Lynch secondary school, Bridgetown. Performed epidemiological analysis of reported symptoms.
2005	Trial Steering Committee. Statistical advisor. Acyclovir for the prevention of HIV acquisition among HSV positive women. London School of Hygiene and Tropical Medicine.
2002	Jamaican Government (Jamaica Coffee Board). Member of expert committee. Performed audit and re-analysis of 2001 coffee yield losses due to severe weather events.
1998 - 2004	Honorary Lectureship. London School of Hygiene and tropical Medicine. Awarded for collaborative work on Sickle Cell Disease in developing countries.
2001 - 2004	Statistical advisor to the Kingston Paediatric HIV / AIDS Programme, The University of the West Indies, Mona campus.

H. Funding Attracted for Research and Study

With colleagues, I have secured grants with a total of more than 14 million US dollars in research funding (US \$14,883,855), with over **13 million US dollars** secured since arriving at the George Alleyne Chronic Disease Research Centre (GA-CDRC).

Many of these grants are international and collaborative in nature, with funds shared across multiple institutions. From the 13 million dollars secured since arriving at the GA-CDRC, I estimate that approximately **7.1 million US dollars** have been funds transferred to The University of the West Indies.

(23)	Grant title	Extending a Caribbean based cohort to promote US-Caribbean comparisons to facilitate research addressing black health disparities (5-year grant)
(B)	Value	Year 2 grant value: USD 662,973 (Approx 15% to UWI / Caribbean)
	Period	2018 – 2022
	Role	Development of Data Collection Infrastructure
	Funder	National Institutes of Health. Grant ID: 1R01MD013347-02

(23) (A)	Grant title	Extending a Caribbean based cohort to promote US-Caribbean comparisons to facilitate research addressing black health disparities (5-year grant)
	Value	Year 1 grant value: USD 661,677 (Approx 15% to UWI / Caribbean)
	Period	2018 – 2022
	Role	Development of Data Collection Infrastructure
	Funder	National Institutes of Health. Grant ID: 1R01MD013347-01
(22) (B)	Grant title	Pediatric ECHORN Cohort Study: intergenerational factors that contribute to cardiovascular risk in the Eastern Caribbean (5-year grant)
	Value	Year 2 grant value: USD 714,339 (Approx 15% to UWI / Caribbean)
	Period	2018 – 2022
	Role	Analytics Core
	Funder	National Institutes of Health. Grant ID: R01HL143785-02
(22) (A)	Grant title	Pediatric ECHORN Cohort Study: intergenerational factors that contribute to cardiovascular risk in the Eastern Caribbean (5-year grant)
	Value	Year 1 grant value: USD 794,567 (Approx 15% to UWI / Caribbean)
	Period	2018 – 2022
	Role	Analytics Core
	Funder	National Institutes of Health. Grant ID: R01HL143785-01
(21)	Grant title	The Barbados Diabetes Remission Study (Phase 2 – scale-up)
	Value	USD 71,991 (all funds to UWI / Caribbean)
	Period	2018 – 2020
	Role	Analytics Core
	Funder	Massey Foundation (Barbados)
(20)	Grant title	Planning for a Sustainable and Robust Regional Center for Research Excellence (RCRE) in the Caribbean
	Value	USD 274,526 (Approx 25% to UWI / Caribbean)
	Period	2017 – 2019
	Role	Analytics Core
	Funder	National Institutes for Health / National Cancer Institute (P20 CA210294-01)
(19)	Grant title	Global Diet and Activity Research Group (GDAR).
	Value	GBP 1,999,804 (Approx 15% to UWI / Caribbean)
	Period	2017 – 2019
	Role	Co-Investigator / Data analyst
	Funder	UK National Institute for Health Research.

(18)	Grant title	Developing theory and methods for evaluating the impact of community food initiatives on NCD risk, social and economic wellbeing and the environment. UKP 422,200 (Approx 25% to UWI / Caribbean)
	Value	2017 – 2019
	Period	Co-Investigator / Data analyst
	Role	UK Medical Research Council (Ref: MR/P025250/1)
	Funder	
(17)	Grant title	The Barbados National Registry for Chronic non-communicable disease (BNR). USD 1,000,000 (all funds to UWI / Caribbean)
	Value	2017 – 2021
	Period	Statistical advisory
	Role	Barbados Ministry of Health
	Funder	
(16)	Grant title	Development and evaluation of system dynamics methods to engage with policy makers on the prevention and control of diabetes in a middle-income region
	Value	GBP 105,000 (all funds to UWI / Caribbean)
	Period	2016 - 2017
	Role	Co-investigator
	Funder	MRC-UK/Wellcome Trust/DfID Health Systems Research call
(15)	Grant title	US-Caribbean Consortium for Health Disparities Research (with Sullivan Alliance, Morehouse University)
	Value	US \$5,000,000 (Approx 40% to UWI / Caribbean)
	Period	2012 - 2016
	Role	Co-investigator
	Funder	National Institute on Minority Health and Health Disparities
(14)	Grant title	Virtual Health Research Unit
	Value	US \$350,000 (all funds to UWI / Caribbean)
	Period	2013 - 2015
	Role	Co-investigator
	Funder	The World Bank
(13)	Grant title	Infrastructure grant: software for spatial epidemiology
	Value	US \$35,000 (all funds to UWI / Caribbean)
	Period	2009
	Role	Principal Investigator
	Funder	Environmental Systems Research Institute (ESRI)

(12)	Grant title	Cochrane Collaboration award for Editorial staff
	Value	US \$15,000 (all funds to UWI / Caribbean)
	Period	2008 - 2009
	Role	Awardee
	Funder	The Cochrane Collaboration
(11)	Grant title	Infrastructure grant: spatial epidemiology of stroke, acute coronary events, and cancer
	Value	US \$85,000 (all funds to UWI / Caribbean)
	Period	2009 – 2011
	Role	Principal Investigator
	Funder	The European Union / Barbados Ministry of Health
(10)	Grant title	Cost of care for people with stroke or acute coronary events
	Value	US \$63,000 (all funds to UWI / Caribbean)
	Period	2009 - 2011
	Role	Co-Principal investigator
	Funder	The European Union / Barbados Ministry of Health
(09)	Grant title	Five-year survival among people with breast or prostate cancer in Barbados
	Value	US \$125,000 (all funds to UWI / Caribbean)
	Period	2009 - 2011
	Role	Co-Principal Investigator
	Funder	The European Union / Barbados Ministry of Health
(08)	Grant title	Research publicity grant: converting academic output into public health messages.
	Value	US \$15,000 (all funds to UWI / Caribbean)
	Period	2009 – 2010
	Role	Co-Investigator
	Funder	The Peter Moore’s Foundation
(07)	Grant title	The Barbados National Registry for chronic non-communicable disease (BNR)
	Value	US \$1 million (all funds to UWI / Caribbean)
	Period	2007 - 2011
	Role	Co-Principal Investigator
	Funder	The European Union / Barbados Ministry of Health

(06)	Grant title	Wound healing in Diabetes
	Value	US \$250,000 (all funds to UWI / Caribbean)
	Period	2008 – 2011
	Role	Co-investigator
	Funder	The Barbados Diabetes Foundation / Private industry
(05)	Grant title	The Barbados Lupus Registry
	Value	US \$75,000 (all funds to UWI / Caribbean)
	Period	2007 – 2009
	Role	Co-investigator
	Funder	Alliance for Lupus Research
(04)	Grant title	Positive airways pressure therapy in children with sickle cell anaemia: a phase 1 randomised clinical trial
	Value	US \$150,000 (approx. 10% to UWI / Caribbean)
	Period	2005-2008
	Role	Co-investigator
	Funder	The Stroke Association (UK)
(03)	Grant title	Determinants of inter-personal violence in three Caribbean nations: Barbados, Jamaica, Trinidad & Tobago
	Value	US \$750,000 (all funds to UWI / Caribbean)
	Period	2004 – 2008
	Role	Co-investigator
	Funder	The Wellcome Trust
(02)	Grant title	Cochrane travel award for developing countries
	Value	US \$5,000 (all funds to UWI / Caribbean)
	Period	2002
	Role	Awardee
	Funder	The Cochrane Collaboration
(01)	Grant title	Longitudinal analyses in sickle cell disease: The Jamaican Cohort Study
	Value	US \$240,000 (all funds to UWI / Caribbean)
	Period	1999 – 2003
	Role	Principal Investigator (Four-year MRC Research Fellowship)
	Funder	The UK Medical Research Council (MRC)

I. Graduate Students Supervised

I have co-supervised and provided statistical support a total of 37 postgraduate students, 29 pursuing programmes at the University of the West Indies.

Doctoral candidates (Supervision and Statistical Support)

2019-current	Stephanie Whiteman. FoodScapes. Neighbourhood influences on food supply and nutrition.
2019-current	Kern Rock. StreetScapes. Neighbourhood influences on walkability and physical activity
2015-current	Leonor Guariguata. Development and evaluation of system dynamics modelling to support policy decision making for the prevention and control of diabetes
2011-current	Rachel Harris. "The influence of socioeconomic status on sodium intake and dietary adequacy in Barbados"
2013-2018	Natasha Sobers-Grannum. Evidenced-based policy development: describing and explaining trends in cardiovascular disease in the Caribbean
2011-2018	Christina Howitt. "Physical activity and metabolic health in Barbados"
2009-2018	Songee Beckles. "The evolution of the HIV epidemic in Barbados"
2009-2019	Andre Greenidge. "A case-control study of factors associated with wound healing in diabetes: the WHY study"
2009-2017	Kim Quimby. "Clinical impact of the haemoglobin-scavenging mechanisms on haemolytic conditions"
2009-2017	Angela Rose. "The burden of stroke and acute myocardial infarction in Barbados"
2002-2006	Ceri Hirst (née Riddington). "Systematic reviews in homozygous sickle cell disease."
1997-2001	Junette Mohan. "Studies of venous function in homozygous sickle cell disease."

Graduate fellow (Fulbright scholarship)

2008	Misha Granado. "Identifying barriers to screening among Barbadian women."
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Masters candidates (Medical Statistics / Development Statistics)

2015	Natalia Parris. "Are obesity definitions developed using Caucasian populations suitable predictors of cardiovascular risk in persons of African ancestry?"
2004	Raphael Fraser. "The length of a painful crisis in homozygous sickle cell disease."
2004	Hank Williams. "Determinants of violence and anti-social behaviour among Jamaican adolescents"
2004	Natalie James. "The effect of environment on the incidence of painful crisis in homozygous sickle cell disease"
2004	Tamika Royal. "The epidemiology of hyperglycaemic crises at the University Hospital of the West Indies."
2004	Ayesha Johnson. Cardiovascular risk factors in urban Jamaica."

- 1999 Vanessa Bond. "Fetal haemoglobin reference intervals in people with homozygous sickle cell disease"
- 1999 Nicola Gibbard. "Coping strategies among people with homozygous sickle cell disease"
- 1998 Anna Pictor. "Derived variable analysis in sickle cell disease research"
- 1998 Belinda Mak. "Hypersplenism in people with homozygous sickle cell disease"
- 1997 Nancy Barker. "Longitudinal description of haematological indices from the Jamaican Cohort Study of Sickle Cell Disease in adolescence."
- 1997 Helena Oakey. "Patterns of painful crisis presentations among people with homozygous sickle cell disease."
- 1997 Fiona Fordham. "Age-related haematological reference intervals among people with homozygous sickle cell disease"
- 1997 Merline Hemmings. "Haematological indices in people with sickle cell disease: multivariate relationships with clinical morbidity."

Masters candidates (other disciplines)

- 2003 Joan Thomas (MSc Sociology, UWI). "The educational attainment of adults with homozygous sickle cell disease"

Doctor of Medicine (DM) candidates

- 2008-2009 Dr Jo-Anne Brathwaite (DM Psychiatry). "The prevalence of geriatric depression in the district hospitals of Barbados."
- 2008-2009 Dr Joy Sue (DM Psychiatry). "Childhood mental disorders in Barbados: characteristics of patients seen at the child guidance clinic."
- 2008-2009 Dr Rashida Brown (DM Psychiatry). "The attitudes of medical practitioners towards patients with mental illness in Barbados."
- 2003-2004 Klaas Wierenga (DM Paediatrics). "The uptake of neonatal screening for sickle cell disease in Kingston, Jamaica."
- 2003-2004 Julianne Steel-Duncan (DM Paediatrics). "Health-related quality of life in children with Type-I diabetes in Jamaica."
- 2002-2003 Anthony Williams (DM Anaesthesia and Intensive Care). "Predicting outcomes in the intensive care unit of the University Hospital of the West Indies."
- 2001-2002 Cecilio Eck (DM Paediatrics). "Paediatric admissions to the University Hospital of the West Indies in 1999"
- 2000-2001 Tracey Evans-Gilbert (DM Paediatrics). "Validation of the paediatric risk of mortality (PRISM) score in a Jamaican paediatric intensive care unit."
- 2000-2001 Carleen Grant (DM Paediatrics). "The management of acute otitis media in children over 2 months of age."

J. Programme Development

I am developing an electronic Data Research Infrastructure (eRDI) at the George Alleyne Chronic Disease Research Centre. This includes online software for data collection, data analytics, and data sharing. The first available component is for data collection (REDCap) and this is available at (<https://caribdata.org/redcap/>). Further development is underway, in collaboration with Campus IT Services and Library colleagues. We hope to be able to offer this research infrastructure to campus colleagues. To complement this infrastructure I run a free informal advice service to the University of the West Indies research community.

With colleagues, I have developed the Masters programme in Biostatistics, registered at the Mona campus, along with statistical service courses for medical undergraduates and masters-level students.

2011-2013, I have re-developed PBHE6100 – Statistics for Public Health – a 3-unit module for the Masters in Public health offered by the Faculty of Medical Sciences.

2015-2016, I have re-developed PBHE6105 – Quantitative Data Analysis– a 2-unit module for the Masters in Public health offered by the Faculty of Medical Sciences.

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|--------------|--|
| 2017-current | Development of an “electronic Research Data Infrastructure (eRDI), comprising online facilities for data collection, data analytics, and data sharing. |
| 2006-2009 | Research Clinic. Developed and operate a free informal “Research Clinic”, advising students and researchers on all aspects of study design, data management, and data analysis. This advisory service has been offered to the clinical research community of the Faculty of Medical Sciences and the Queen Elizabeth Hospital since 2006. |
| 2004-2007 | MSc Biostatistics, The University of the West Indies. Developed complete syllabus for the Masters course in Biostatistics offered at the Tropical Medicine Research Institute, Mona campus. This syllabus includes many of the basic statistical courses required to operate independently as a professional statistical in the Caribbean. Syllabus originally developed in 2004 and extensively reworked in 2007. |
| 2002-2004 | MSc Nutrition, The University of the West Indies. Developed taught course “Introduction to statistics” for Masters programme in Nutrition, The University of the West Indies, Mona campus. |
| 2001 | World Health Organization / Pitt University. Developed the online supercourse “Survival estimates in prevalent cohorts: an application in sickle cell anaemia.” Internet: http://www.pitt.edu/~super1/lecture/lec5541/index.htm |
| 1996-1997 | MBBS Medicine, Charing X Medical School. Developed taught course “Introduction to Medical Statistics” for medical undergraduates. |

K. Evidence of Quality Teaching

I continue to run my informal “research clinic”. I have taught on a number of statistical and research methods courses for medical undergraduates and masters students.

2017-current	Developed and deliver short course on “Using REDCap for research data management and study management”
2015-current	Course Coordinator. Quantitative Data Analysis (PBHE6105). Development and delivery of this 2-unit course (26 contact hours) for the Masters in Public Health. Included workshop series on Statistical Computing. Included revamp of course materials and change from 1 credit to 2 credit course.
2010-2015	Course Coordinator. Statistics for Public Health (PBHE6100). Development and delivery of this 3-unit course (39 contact hours) for the Masters in Public Health. Included workshop series on Statistical Computing. Included revamp of course materials and change to operation of course over 2 semesters.
2010-2013	Course Coordinator. Introduction to Statistical Computing 1 (Introduction to Stata) Development and delivery of short course on statistical computing for Ministry of Health personnel.
2009-2010	Masters in Public Health. Taught revision course “Introduction to Statistics “ for students re-sitting this course module.
2006-2009	Research Clinic. Operate a free weekly “Research Clinic”, advising students and researchers on all aspects of study design, data management, and data analysis.
2002-2004	Basic Research Methods. Taught on Caribbean Health Research Council course “Basic research methods” at Mona Campus, the University of the West Indies.
2002-2004	MBBS Medicine, The University of the West Indies. Taught course “Introduction to Medical Statistics” to medical undergraduates.
2002-2004	MSc Nutrition, The University of the West Indies. Taught course “Introduction to statistics” for Masters programme in Nutrition, The University of the West Indies, Mona campus.
1996-1997	MBBS Medicine, Charing X Medical School. Taught course “Introduction to Medical Statistics” to medical undergraduates.