

DEPARTMENT OF MICROBIOLOGY

John Lindo, BSc, PhD – Head of Department

WORK OF THE DEPARTMENT

The period under review was shaped by emergence out of the pandemic of SARS-CoV-2 which saw the department heavily involved in testing for the virus. Although we experienced a decline in the number of cases, the Department of Microbiology continued to play a vital role in post pandemic surveillance for SARS-CoV-2, influenza and other respiratory viruses. Furthermore, staff was involved in mitigating the rate of transmission of the virus through advocacy, outreach, public education and participation in control activities with the UWI, UHWI and the private sector.

ACCESS

STUDENTS

The department continued its work in undergraduate teaching across the programs of the FMS including the MBBS/DDS, nursing, physical therapy and PharmD. We returned to full face to face delivery of our programmes in keeping with the campus policies.

In addition, the department continued training in the PhD, MPhil, DM, and MSc programs with face to face because of small class size and adequate social distancing.

Postgraduate Diploma in Infection Prevention and Control

Despite high demand we were unable to deliver the self-financing Postgraduate Diploma program in Infection Prevention and Control due to staffing issue. We continue to work with the campus management to re-introduce this highly successful program. Despite this, the department's infection prevention and control activities continue with the University Hospital of the West Indies to the benefit of patients and the teaching and research enterprises. Professor Alison Nicholson

was recognized for her work in this area by conferral of the Order of Distinction (Commander Class).

The Caribbean Association of Clinical Microbiologists (CACM) continued through a series of symposia which addressed crucial pandemic responses while keeping the focus on key areas of medical microbiology such as antimicrobial resistance.

NEW STAFF

Dr Tiffany Butterfield and Dr Jerome Walker joined the department as Temporary Lecturers and have been involved in improving the Clinical Immunology Services while teaching conducting research in the area.

PUBLICATIONS

Abstracts

- Onuoha, C., Stephenson-Clarke, S., Thoms-**Rodriguez, C.**, Brown, P. Mixed-Species Biofilms and Resistance to Heavy Metals and Disinfectants: Implications for UPEC and UTIS. *International Journal of Infectious Diseases*, Volume 130, Supplement 2, 2023, Page S29, ISSN 1201-9712. <https://doi.org/10.1016/j.ijid.2023.04.067>. (<https://www.sciencedirect.com/science/article/pii/S1201971223001960>). International Congress on Infectious Diseases, presented Nov 20, 2022.
- Miles Saunders, L., Christie, O., Heslop, O., Reynolds-Campbell, G., Thomas, S., **Thoms-Rodriguez C.**, Prevalence and Molecular Characterization of *Clostridioides difficile* in patients at a Jamaican Tertiary Care Facility, University Hospital of the West Indies. Caribbean Association of Clinical Microbiologists (CACM) Conference, October 28, 2022.
- **Thoms-Rodriguez C** 2023. Critical Infection Prevention and Control Reminders for the Labour Ward and Special Care Nursery/Neonatal Intensive Care Unit” 22nd Annual Perinatal Conference – Challenges and Controversies in Perinatal Care, February 26, 2023.
- **Thoms-Rodriguez C** 2022: Emergence of New Trends in Antibiotic Resistance. Association of General Practitioners of Jamaica Antibiotic Hybrid Conference 2022, October 9, 2022.

Publications

- Williams T, **Jackson S**, Barr I, Bi S, Bhiman J, et al. Results from the second WHO external quality assessment for the molecular detection of respiratory syncytial virus, 2019–2020. *Influenza Other Respir Viruses*. 2023 Jan 18;17(1):e13073. doi: 10.1111/irv.13073

- Ali I, Alarcón PM, Mundle M, Noble SAA, Oura CAL, **Anzinger JJ**, Sandiford SL. “The others: A systematic review of the lesser-known arboviruses of the insular Caribbean”. *Viruses*. 2023 Mar;15(4):843.
- Osterholm MT, Diego CB, **Anzinger J**, Bottazzi ME, Christie-Samuels C, Erundu N, Marrazzo J, Milan S, Quashie PK, Schwab T, Williams D. “Full technical report: Insights from Cuba’s COVID-19 vaccine enterprise: Report from a high level fact-finding delegation to Cuba”. *MEDICC Rev*. 2022 Oct; 24(3-4):72-108.
- **Anzinger JJ**, Cameron-McDermott SM, Phillips YZR, Mendoza L, Anderson M, Cloherty G, Strachan-Johnson S, **Lindo JF**, Figueroa JP. “Prevalence of SARS-CoV-2 antibodies after the Omicron surge, Kingston, Jamaica, 2022.” *J Clin. Virol. Plus*. 2022 Nov;2(4):100124.
- Berry C-LS, Melbourne-Chambers RH, Harrison AN, **Anzinger JJ**, Gordon-Johnson K-AM, Deyde VM, Christie CDC. “Hospitalized children with SARS-CoV-2 infection and MIS-C in Jamaica: A dive into the first 15 months of the novel pandemic”. *Front. Pediatric*. Sept;10:904788.
- **Anzinger JJ**. “Seroprevalence of chikungunya virus, Jamaica, and new tools for surveillance (Response)”. *Emerg. Infect. Dis*. 2022 Aug;28(8):1737-1738.
- Butterfield T, Hanna D, Kaplan R, Xue X, Kizer J, Durkin H, Kassaye SG, Nowicki M, Tien P, Topper ET, Floris-Moore M, Titanji K, Fischl M, Heath S, Palmer C, Landay A, **Anzinger J**. “Elevated CD4+ T-cell glucose metabolism in HIV+ women with diabetes mellitus”. *AIDS*. 2022 Aug;36(10):1327-1336.
- Monecke, S., Akpaka, P.E., Smith, M.R., Unakal, C.G., **Thoms Rodriguez, C.-A.**, Ashraph, K., Müller, E., Braun, S.D., Diezel, C., Reinicke, M., et al. Clonal Complexes Distribution of *Staphylococcus aureus* Isolates from Clinical Samples from the Caribbean Islands. *Antibiotics* 2023; 12(6):1050. <https://doi.org/10.3390/antibiotics12061050>
- Stone, S, **Thoms-Rodriguez, C**, Cameron, J., Seah, C., Stephenson-Clarke, S., Melano, R.G. New Delhi Metallo-Beta-Lactamase (NDM)-5 in Uropathogenic *Klebsiella pneumoniae* in a Tertiary Care Hospital in Jamaica. *Microbiol Spectr*. 2023 Jan 31:e0345922. doi: 10.1128/spectrum.03459-22. Epub ahead of print. PMID: 36719202.
- Clarke, K., Porter, R., Facey, P., Yee, T., **Thoms-Rodriguez, C**. Chemical composition and biological activities of Jamaican *Cannabis sativa* essential oils as the plant matures. *Flavour Fragr J*. 2023; <https://doi.org/10.1002/ffj.3732>
- **Thoms Rodriguez C.**, Dawson F., Cameron J., Seah C., Reid M., Melano R.G. and Gossell-Williams M. Prevalence and distribution of AmpC beta-lactamase producing *Escherichia coli* and *Klebsiella pneumoniae* isolates obtained from urine samples at a tertiary care hospital in the Caribbean. *Front Cell Infect Microbiol*. 2022 12:1015633.doi: 10.3389/fcimb.2022.1015633

- **Roye-Green, K.**, Willis, R., Priestley, S. R., & **Vickers, I.** (2022). Knowledge, Practice and Attitudes to the Management of Sepsis in Jamaica. *The Journal of Critical Care Medicine*, 8(4), 232-241.
- Kilmarx, P.H., Maitin, T., Adam, T., Aslanyan, G., Cheetham, M., Cruz, J., Eighbike, M., Gaye, O., Jones, C.M., Kupfer, L. and **Lindo, J.**, 2023. Increasing Effectiveness and Equity in Strengthening Health Research Capacity Using Data and Metrics: Recent Advances of the ESSENCE Mechanism. *Annals of Global Health*, 89(1).
- **Brown MG, Lindo JF**, Vickers IE, Nelson K, Phillips Y, Wilson-Clarke C, Gavi S, Morse GD, Talal AH. Seroprevalence and Genotype Diversity of Hepatitis C Virus in the Caribbean-A Review. *Trop Med Infect Dis*. 2023 Jul 17;8(7):370

The Department is involved in several initiatives to increase its research and publications output including;

Abbott Pandemic Defense

Dr Joshua Anzinger continued as local Principal Investigator of the Abbott Pandemic Defense Coalition which is a consortium of 87 universities and research centers which are involved in virus discovery and surveillance. Among the projects which have resulted from this:

1. Virus surveillance and discovery in humans;
2. Virus surveillance and discovery in mosquito vectors – led by Dr Simone Sandiford (BMS);
3. The association between viral infections including SARS-CoV-2 and HTLV-1 and the development of autoimmunity;
4. The APDC supports the research of several graduate students and junior faculty members, resulting in publication in high impact factor journals.

Global Infectious Diseases Research Training Program (GIDRTP) completed its fifth year with three pre-doctoral and three postdoctoral scholars. The pandemic of COVID-19 not only curtailed travel to laboratories and institutes in the USA but interrupted the global supply chain which made the procurement of equipment and reagents severely challenging. This resulted in unspent funds in the grant and the NIH has granted permission to expend funds. Furthermore, we successfully competed for renewal of the grant for another five years and two new scholars were recruited including Dr Jerome Walker (postdoctoral fellow) and Ms Shanice Redman (pre doctoral fellow). Dr Walker's project is entitled *Clinical and immunological outcomes of dengue fever outbreak in hospitalized children at a tertiary healthcare center in Jamaica* while Ms Redman will study *Phylogenetic analysis and genotype identification of dengue virus whole genome sequences obtained from serum samples of patients presenting to the University Hospital of the West Indies, Jamaica*

Antimicrobial resistance remains a key area of research in the department and is inextricably linked to the teaching and clinical service. The introduction of Next Generation Sequencing in the department has expanded the potential of this area of scientific research.

ALIGNMENT

PUBLIC SERVICE

Dr. Sandra Jackson-Betty

- Member, World Health Organization Global Influenza Program/Global Influenza Surveillance and Response System
- Expert Advisor, Influenza Virus Traceability Mechanism, WHO, Geneva
- Member, World Health Organization Global Surveillance for Respiratory Syncytial Virus
- Member, International Society for Influenza and other Respiratory Virus Diseases
- Member, Certification Board of Infection Control and Epidemiology
- Member, American Biological Safety Association
- Member, Caribbean Association of Clinical Microbiologists

Dr Camille-Ann Thoms-Rodriguez

- Member of the University Hospital of the West Indies (UHWI) Medical Intensive Care Unit (MICU) Taskforce
- Member of the Oversight Committee for the University Hospital of the West Indies (UHWI) Neonatal Protocols Implementation Programme
- Member of the American Society of Microbiology
- Member of the Caribbean Association of Clinical Microbiologists

Dr Joshua Anzinger

- Associate Editor, Journal of Clinical Virology Plus
- Member, Abbott Pandemic Defense Coalition
- Member, Caribbean Sub-regional Certification Committee for the Global Eradication of Poliomyelitis. Pan American Health Organization (PAHO).
- Member The Arbovirus Diagnostic Network of the Americans (RELDA)
- Director, Global Virus Network, Jamaica Affiliate Center of Excellence

- Invited Participant: MEDICC Review fact-finding mission is to assess the science, clinical trials, regulatory process, production capacities and potential impact of the Cuban COVID-19 vaccines. Havana, Cuba.

Professor Alison Nicholson

- Member, National Health Fund Patient Education and Medication Compliance Programme Committee.
- Member of the Governance Team of the UHWI Taskforce for COVID-19: Established to guide the UHWI's response to COVID-19 since 2020.
- Caribbean Association of Clinical Microbiologists (Co-Founder, Country Representative)
- Chair, Infection Prevention and Control Committee, UHWI.
- Member, West Indian Medical Journal Editorial Board.
- Member, Infection Prevention Society(UK)

Dr Tiffany Butterfield

- Consultant, Ministry of Health and Wellness Jamaica, HIV/STI/TB Unit for Strategic Information and Research.
- Member, National Health Research Priority Setting Group, Ministry of Health and Wellness Jamaica.

Dr. Jerome Walker

- Member American Society of Microbiologists
- Global Infectious Diseases Training Program Fellow
- Web Master, Caribbean Association of Clinical Microbiologists
- Member Infection Prevention and Control Committee, UHWI

Professor John Lindo

- Co-chair, SUNY-UWI Health Research Consortium
- Member, University Hospital of the West Indies Board of Management
- Chairman, Procurement Committee, UHWI Board
- Member, Abbott Pandemic Defense Coalition, Scientific Steering Committee
- Member, Rotary Club of New Kingston

AGILITY

ISO Accreditation for Medical Laboratories

The department maintained its ISO 15189:2012 Standard during the period under review. Mrs Olivene Christie assumed the role of Acting Quality Manager.

National Influenza Center

Dr Michelle Brown was appointed Director of the National Influenza and has drafted updated Terms of Reference for its operation by the UWI and the Ministry of Health and Wellness, Jamaica. The Center continued its work on surveillance for influenza, SARS-CoV-2 and other respiratory viruses.

INCOME GENERATION

- **Lindo JF (Co-PI), Anzinger JJ (I)**. Fogarty International Center. “Global Infectious Diseases Research Training Program”, US\$1,486,170.00. 2023–2027.
- **Anzinger JJ** AIDS Healthcare Foundation. “Whole genome sequencing of epidemic mosquito-borne viruses in Jamaica.” US\$59,994. Principal Investigator. 2023–2024.
- **Anzinger JJ** Wellcome Trust. “West Africa, West Indies, West London: Mechanisms driving heterogeneity in immunity to SARS-CoV-2 variants. £2,998,058.00. Principal Investigator (Site). 2022–2024.
- **Butterfield T (PI), Anzinger JJ (Mentor)** Abbott Laboratories. “The prevalence and role of human T-lymphotropic virus-1 (HTLV1) in persons living with HIV and non-communicable diseases.” US\$31,912.00. 2022–2023.
- **Anzinger JJ** Abbott Laboratories, “Viral Surveillance and Discovery in Jamaica and the Caribbean Region”, US\$127,860.49. Principal Investigator. 2022–2023.
- **Thoms Rodriguez C** Prevalence and distribution of AmpC beta-lactamase producing Escherichia coli and Klebsiella pneumoniae isolates obtained from urine samples at a tertiary care hospital in the Caribbean. (USD \$2020) The University of the West Indies Research and Publication Grant – Role-Principal Investigator.
- **John Lindo (PI)**. Fogarty International Training Center, NIH 15/04/2018 Global Infectious Diseases Research Training Program (USD89,000.00) Gene Morse and Katherine Anderson (SUNY) Co-PIs. 2022–2023.
- **John Lindo (PI)**. Cloud-based Viral Surveillance Research Training Program in Jamaica. One year supplement to the Fogarty International Training Center, NIH 01/03/2022 Global Infectious Diseases Research Training Program (USD 33,741.00) Gene Morse and Katherine Anderson (SUNY) Co-PIs. 2022–2023.



DEPARTMENT OF OBSTETRICS & GYNAECOLOGY

Dr. Shaun Wynter, MBBS, DGO, Dip. Ven., DM, FRCOG, FACOG
– Head of Department

WORK OF THE DEPARTMENT

The Department of Obstetrics and Gynaecology is staffed by 3 senior lecturers, 5 lecturers and 8 associate lecturers with 28 associated lecturers spread at 6 off site hospitals. All are involved in clinical teaching, specialist clinical services and research. The clinical areas are general obstetrics and gynaecology and specialist service in Maternal- Fetal Medicine, Gynaecological Oncology and Fertility Management/Assisted Reproduction, and Urogynaecology. The department offers undergraduate and postgraduate courses and have two Fellowship Programmes in Maternal-Fetal Medicine (MFM) and Gynaecological Oncology in association with the International Gynecologic Cancer Society.

Members of the Department are involved in teaching and learning in the undergraduate MBBS programme during years 3, 4 and 5, and the post graduate Doctor of Medicine (DM) programme in Obstetrics and Gynaecology and Fellowship programs. Currently there are 58 post graduate students enrolled in the 4.5 year DM in Obstetrics and Gynaecology programme. There are no fellows in the programs but the application port will be open in December and enrolment is expected in the 2024 academic year. Two Fellows graduated from the Gyn. Onc. Fellowship Programme in 2023.

There are two (2) secretaries, One (1) Senior Medical Technologist and two (2) laboratory attendants in the department.

ACCESS

STUDENTS (UNDERGRADUATE AND POSTGRADUATE)

Students returned to face to face teaching fully. The Clerkships/rotations were shortened with junior students rotating for four instead of five weeks and senior

students rotating for eight instead of ten weeks. This was in an effort to achieve the university mandate to return to regular calendar rotation thus leading to completion of the MBBS program at the pre-COVID time. Teaching and learning are carried out by the different services.

OBSTETRIC PERINATAL SERVICE

This service manages high risk Obstetric cases and accepts referrals from the rest of the island. The Unit provides teaching for postgraduate and undergraduate medical students. Perinatal Audits occur monthly as a joint meeting with the Department of Child Health and annual conference in February of each year is run by the High Risk Obstetric team in collaboration with the Neonatologists & Neonatal Pathologists.

The Labour Ward and Postnatal Services are supervised by consultants Drs. Michelle Campbell and Lenroy Bryan, Dr. Cathy Maddan and Dr Leslie Samuels. These consultants also teach undergraduate and postgraduate students as well as midwives in training.

The Department offers Obstetric Ultrasound Services to both the University Hospital and referrals from outside the University. Ultrasound training is spearheaded by Dr. Nadine Johnson and Dr. Tiffany Hunter.

OBSTETRICS SKILLS & DRILLS

The department offers 2 Emergency Obstetrics Workshops (JOTTIE) each year sponsored by Ferring Pharmaceutical Ltd and offered as a multi-disciplinary training workshop for Anaesthetic Residents, Accident and Emergency Residents, Paediatric Residents, Obstetrics & Gynaecology Residents and midwives from University Hospital and Government Hospitals. It takes place in the simulation lab of the School of Nursing.

ONCOLOGY UNIT

Dr. Taylor & Dr. Bambury are the two trained gynaecological Oncologists in the department and together with Professor Fletcher, Dr. Rattray & Dr. Mitchell & Dr. Medley, form the Gynaecological Oncology Team. They are assisted by Sister Murdoch and her team of Oncology nurses as well as administrative secretary Miss Thompson. Residents rotate through the unit spending 2 months in the Colposcopy and general Oncology areas. Patients requiring colposcopy in the management of the abnormal cervical smear are seen in the Colposcopy clinics while patients with gynaecological malignancies, are seen in the Oncology clinic both in preparation for surgery and for post-surgery follow-up, post chemotherapy and

radiation therapy. The Unit also has facilities for teaching both undergraduate and postgraduate students

FERTILITY MANAGEMENT UNIT

Dr. John Harriott is the acting director of this unit and together with Drs. Shaun Wynter, Loxley Christie, Sharifa Frederick and Michelle Bailey as clinicians, offer assisted reproductive referral services. Other staff members are Fellows Dr Giselle Harrison and Dr Xavier Brown, Miss Denise Everett, a senior embryologist (Biologist) and Miss Hillary Walters, a staff Nurse as the coordinator of the programme. This team has championed the In Vitro Fertilization and Embryo Transfer Programme for Jamaica and the Caribbean. Pregnancy rates continue to improve and frozen embryos and donor eggs are now being stored. Minimally invasive procedures such as hysteroscopy and laparoscopy (both diagnostic and therapeutic procedures) are provided as day case procedures and the family planning clinic offers contraceptive and sterilization advice.

FACULTY / COORDINATORS:

- Year 3 course coordinator : Dr Michell Campbell Mitchell
- Year 4 Clerkship coordinator : Dr. N. Medley
- Year 5 Clerkship coordinator: Dr. S. Frederick
- DM1 course coordinator: Dr C. Maddan
- Postgraduate and OSCE Examinations: Dr M Taylor
- MFM Fellowship: Dr T Hunter
- Gynae Oncology Fellowship: Dr C Rattray
- University Examiner: Dr C Rattray
- Co-coordinators work in collaboration with Associate lecturers in the 6 other affiliate hospitals to deliver the supervised tutorials and the Bahamas Campus with respect to the DM programme.

STAFF DEVELOPMENT

- Dr. Cathy Maddan completed a 2 year diploma in Health Profession Education, University of Glasgow, Scotland.
- Dr. Lenroy Bryan – Postgraduate Diploma in Health Research and Epidemiology
- Dr Ian Bambury – Attained tenure

PUBLICATIONS

- Lana Chung, Natalie Medley, Carole Rattray, Shaun Wynter, Kathy-Ann Pate-Robinson and Ian Bambury. Prevalence of and risk factors for cervical cytological abnormalities in women attending an HIV outpatient clinic in Kingston, Jamaica.
- Cathy Maddan, Melissa Forbes, Michelle Campbell Mitchell, Carole Rattray, Lenroy Bryan. Jamaica core Obstetric Teaching and Training in Emergencies (JOTTIE) and its Effect on Postpartum Haemorrhage at a Jamaican Teaching Hospital. *Journal of Medical Education and Curricular Development* Volume 9, 1-10. <https://doi.org/10.1177/23821205221076651>.
- Calvert C, Brockway MM, Zoega H, Miller JE, Been JV, Amegah AK, Racine-Poon A, Oskoui SE, Abok II, Aghaeepour N, Akwaowo CD, Alshaikh BN, Ayede AI, Bacchini F, Barekatin B, Barnes R, Bebak K, Berard A, Bhutta ZA, Brook JR, **Bryan LR, et al.** **Changes in preterm birth and stillbirth during COVID-19 lockdowns in 26 countries.** *Nature Human Behaviour.* 2023 Feb 27 <https://doi.org/10.1038/s41562-023-01522-y>.
- Tracey Martinborough, Wendy Allen-Davis, **Tiffany Hunter-Greaves**, Minerva Thame, Marvin Reid & Donnette Simms-Stewart (2022) Maternal morbidity and mortality associated with mode of delivery in sickle cell disease, *Journal of Obstetrics and Gynaecology*, DOI: 10.1080/01443615.2022.2158314T.
- Martinborough T, Hunter-Greaves T, Charles P, Johnson P, Johnson N. Antenatal diagnosis and management of an encephalocele in Jamaica. *J Case Rep Images Obstet Gynecol* 2022;8 (2):25–29. doi: 10.5348/100129Z08TM2022CR.
- Pinkney J, Carroll K, **Bryan L.** Witter G, Ashour D, Shebl F, Hyle E, Ojikutu B, Bogart L. COVID-19 vaccine uptake, vaccine confidence and medical mistrust among reproductive-aged women in Jamaica. *AJOG* 2022, 228, S780S781. DOI:<https://doi.org/10.1016/j.ajog.2022.11.131>.
- Michelle Campbell, Carol Rattray, Primelia Stewart, Kimberly Stewart, Brittini Stewart, Donnette Simms-Stewart. Profile of Women with Pelvic Organ Prolapse at the University Hospital of the West Indies, Risk Factors and Presentation. *Journal of Obstetrics and Gynaecology* 2022;42.
- Jodian A Pinkney, Laura M Bogart, Kamali N Carroll, **Lenroy Bryan**, Givana Witter, Dina Ashour, Fatma M Shebl, Rocio M Hurtado, Ilona T Goldfarb, Emily P Hyle, Christina Psaros, Bisola O Ojikutu. Vaccine Uptake Among Pregnant Women and Nonpregnant Women of Reproductive Age in Jamaica. Factors *Open Forum Infectious Diseases*, Volume 10, Issue 5, May 2023, ofad201, <https://doi.org/10.1093/ofid/ofad201> .

ALIGNMENT

PAPERS/POSTER PRESENTED

- Evaluation of Non-Invasive Prenatal Screening in a Middle Income Country. **T. Hunter**, S. Gibson, N. Johnson. The International Society for Prenatal Diagnosis 27th International Conference on Prenatal Diagnosis and Therapy. June 19, 2023, Edingburg International Conference Center (EICC), Edingburg, United Kingdom.
- Prevalence of and risk factors for cervical cytological abnormalities in women attending an HIV outpatient clinic in Jamaica. Authors Carole Rattray, Lana-Chung, Ian Bambury, Kathy-Ann Pate-Robinson, Shaun Wynter, Natalie Medley - Posters at RCOG World Congress June 2023.
- Analysis of prognostic factors of Krukenberg tumours at a single-site in Jamaica. Authors: Omar Wellington, Carole Rattray. Posters at RCOG World Congress June 2023.
- Stillbirths and Intrauterine Deaths during the COVID-19 Pandemic at the UHWI: A Retrospective Cohort Study Comparing Rates of Stillbirths During and Prior to the Pandemic. Authors: Kymberly Jones, Michelle Campbell-Mitchell, Phillip Charles, Carole Rattray, Cathy Maddan, Joshua Anzinger. Posters at RCOG World Congress June 2023.
- Fetal growth and *in utero* exposure to Zika and Dengue viruses in a Jamaican cohort study. **Bryan, L**; Kelly, C; Onyonyor, A; Morgan, O; Mitchell, P; Campbell, L; Byrne, T; Palmer, P; Fernandes, G; Bailey, H; Ruiz-Burga, E; Anzinger, J; Melbourne-Chambers, R; Pierre, R; Webster-Kerr, K; Ades, A; Giaquinto, C; Christie, C; Thorne, C. UWIMAA 14th International Medical Reunion Conference at Mona July 18, 2023. Third place award for the category Best Poster presentation.

PUBLIC SERVICE

T. Hunter

- Inducted as a member of the Rotary Club of New Trafalgar Heights – July 9, 2023.

Dr L. Bryan

- Health Fair at Bowen Hill community – July 2023
- Journal PLOS ONE. SOURCE-WORK-ID: 76700328-8814-4a60-aad3-c06eee-2d2a4e. Manuscript reviewer (July 2023).

- Guest Speaker – Emergency Cardiac Care in Pregnancy. Emergency Cardiac Care Symposium. The Heart Foundation of Jamaica. August 24, 2022.
- UWI Ethics Committee (2017–present). Review of undergraduate, graduate and academic research proposals from UWI for ethical compliance.
- UHWI Policy Committee (2019–present).

Dr Natalie Medley

- Junior editorial board of the *International Journal of Gynecologic Cancers* (IJGC)
- Currently enrolled in a Postgraduate medical and Health Education program at the University of Manchester.