

DEPARTMENT OF SURGERY, RADIOLOGY, ANAESTHESIA & INTENSIVE CARE



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Head of Department

WORK IN THE DEPARTMENT

The Department of Surgery, Radiology, Anaesthesia and Intensive Care is the largest clinical department in the Faculty of Medical Sciences. During the year under review over 1500 undergraduates and post graduates rotated through our Department. This number includes elective students from the United Kingdom, Canada, Germany, Africa and the Caribbean. The challenges faced by the Department are myriad but it is in this environment that we must seek innovative solutions for the delivery of teaching and learning, leading research relevant to the region, providing clinical services and outreach to the deserving public. With this in mind we structured the Department's strategic plan on the pillars of: teaching and education, research, clinical services, staffing, infrastructure and outreach.

TEACHING AND EDUCATION

Improving the quality of teaching and learning at both the undergraduate and postgraduate level was undertaken. This included a revision of the learning objectives for both the Stage 1&2 courses falling under the Department and a mini review of the curriculum for selected postgraduate courses. The Department made efforts to ensure that there was synchronized delivery of structured tutorials to our students including visits, in conjunction with the Dean's office, to the majority of our teaching sites. The Skills Laboratory at the FMST&RC is now increasingly used for teaching and learning, and also as a central clinical examination site. The Department was rewarded with a 96 percent final MBBS examination with seven Honours and one Distinction. Mona student, Tarefe Montaque, received both the Sir Harry Annmunthodo Prize for best overall performance in the Clinical part of the May/June MBBS Final Examinations and the Surgery Medal for the best overall performance in the May/June Final Examinations on all Campuses. Marshaun Reid, another Mona student, received the General Surgery Prize for the best performance in the MBBS Surgery Paper on all Campuses.

Additionally, integrating technology in teaching and learning have been the focus for this period. The creation of on-line examinations and the increase in usage of virtual classrooms using the Our Learning Environment (OurVLE) and Blackboard platforms have been greatly embraced by students and faculty alike. More structure and oversight has been introduced to the various postgraduate programmes including the introduction of mandatory skills sessions in the simulated environment of the CHASE Carnegie Skills Laboratory.

The following students were awarded DM degrees:

- Asherah Corbin – DM Anaesthesia
- Debbie Morgan – DM Anaesthesia
- Korah Thompson-Norman – DM Anaesthesia
- Orville Williams – DM Cardiothoracic Surgery
- Sara-Ann Hylton – DM Emergency Medicine

- Jason Ifill – DM Emergency Medicine
- Sajeevika Amarakoon – DM Ophthalmology
- Dacia Morgan – DM Radiology
- Christina Shedden – DM Radiology
- Michael Sealy – DM Radiology
- Andrea Thomas – DM Radiology
- Lauren Yeung – DM Radiology
- Andrea Mitchell – DM Urology

RESEARCH

Members and Residents of the Department continue to play an active part in research and research related activities. We are aware that we are underperforming in this important strategic area and a major emphasis of our efforts in going forward is attracting and undertaking more funded research.

In October 2017, the Department partnered with the Association of Surgeons in Jamaica and launched at the monthly Clinico-pathological Conference, the University Hospital of the West Indies Surgery Guidelines Initiative. International Guest Lecturer, Dr. Robin McLeod, Professor of Surgery, University of Toronto and Vice President of Clinical Programmes and Quality Initiatives, Cancer Care Ontario, presented her topic, “Best Practise in Surgery – Adopting Evidence in Practice”. This laid the groundwork for the UWI/UHWI partnership for the development of Hospital Guidelines and Protocols for certain common diseases. Acute gallstones pancreatitis, diabetic foot infections, breast cancer, colorectal cancer, preoperative anaesthesia evaluation, gallstones in patients with sickle cell disease, ICU admission and discharge criteria, were the guidelines chosen for review. This led to the writing of six comprehensive manuscripts on the topics and these guidelines are to be published in the West Indian Medical Journal as a supplemental and will be adopted by the Ministry of Health. Research on these guidelines have formed the

basis of several management-based research questions relevant to the region and are currently being investigated by the faculty.

The 16th staging of the Caribbean Neurosciences Symposium and Charity Golf Tournament was held in January 2018 at the Montego Bay Convention Centre. Topics included areas of cancer, spine infection, stroke, trauma, track and field injury prevention and cannabis research. The Symposium was organised and hosted by the Caribbean Neurological Association along with the Department of Surgery, Radiology, Anaesthesia and Intensive Care and the Division of Neurosurgery at the University Hospital of the West Indies.

The Department held its 29th Annual Research Evening in March 2018 and this event was made successful with the donations of various prizes for outstanding presenters. The main prize of US\$1,000.00 was won by Urology Resident, Dr Dean Wong for his randomised prospective trial on the management of penile fractures.

The Department hosted in July 2018, the 17th JMMB Group and Joan Duncan Foundation sponsored, William Dennis Memorial Lecture. The lecture chaired by Professor Barrie Hanchard, was delivered by Dr Barrington Davidson, Family Psychologist, CEO, Family Life Ministries. The lecture entitled, “Healthy Ways to Deal with Hurt due to Crime and Violence in Jamaica” was a success.

The Department maintains three Academic Research Registries:

1. The Trauma Registry

Over 20,000 records which continue to provide ample research material for injury related studies.

2. The Intracranial Tumour Registry

Based in the Section of Surgery’s Research Office is constituted of over 1,130 patient records, utilising the software CNExT. This project is a collaborative effort between the Neurosurgery Service in the Section of Surgery and the Sections of Radiology and the Department of Pathology, UWI. Its aim is to create a radio-clinico-pathological database of intracranial tumours.

3. The Colorectal Cancer Registry

This registry maintains a data base on all cases of colorectal cancer sourced from major health facilities across Jamaica. To date over 1,500 cases have been recorded since its inception in January 2011. This data allows for evidence-based research in the diagnosis and treatment of colorectal cancer and was the source data for several abstracts presented at the annual meeting of the American Society of Colon and Rectal Surgeons in April 2018 and the Caribbean Regional Public Health Authority (CARPHA) annual meeting.

Clinical Services

During the academic year the Department has benefited from increased support from the management team of the UHWI with a noticeable increase in various needed equipment allowing for an overall increase in the number and complexity of the clinical experience. Dr Peter Johnson and Dr Carl Bruce were part of the team representing the University of the West Indies and University Hospital of the West Indies at the International Atomic Energy Agency Meeting in Vienna in May 2018 and signed to the arrangement for the training of professionals in radiology, nuclear medicine, radiotherapy, medical radiation physics, the use of stable isotopes in nutrition, and radiation safety. The agreement also supports collaboration for the creation of nuclear knowledge and information management programmes at the University of the West Indies.

The Department is actively pursuing the re-introduction of a renal transplant service at the University Hospital of the West Indies, and is actively engaged with the Ministry of Health through the National Health Fund and Transplant Links Community (TLC) – a registered charity based organization in Birmingham, United Kingdom that assists in preparing and effecting renal transplant for patients with dialysis dependent chronic renal disease. Additionally, Dr Vaughn Whittaker a transplant surgeon, has been engaged as an adjunct lecturer to assist the team.

STAFFING

Promotions

- Dr Joseph Plummer: Professor
- Dr Belinda Morrison: Senior Lecturer

Employee Developments

- Dr Belinda Morrison is currently a PhD candidate in epidemiology and Dr Gareth Reid is reading for the Masters of Science in Epidemiology at CAIHR.

Infrastructure and Outreach

During the Academic year 2017/18 the Department undertook the rehabilitation of the Sunken Gardens, an important recreational site for the FMS Clinical Departments. We also secured funding for the refurbishment of the Small Medical Lecture Theatre. Outreach was achieved by the presentation by special lecturers and their preceptorship in the operating room. These additional international guest lecturers included, Professor Arthur Burnett, John Hopkins University, Professor Yaron Shargall, McMaster University and Professor Ralf Gebhard, University of Miami.

PAPERS PRESENTED

Major Conferences/Seminars

- C. Neblett, G Arscott, L Logan, K Appiah and **R Venugopal**, “Burns of the Hands; a 5-year experience at KPH/BHC/UHWT”, Kingston Public Hospital 10th Scientific Research Conference, Kingston, October 2017
- C Neblett, G Arscott, G Williams, L Logan, K Appiah and **R Venugopal**, “Flap Options for Lower Limb Reconstruction” Jamaica Orthopaedic Association Annual Conference, University of the West Indies, Faculty of Medical Sciences, April 2018

- **R Venugopal**, C Neblett and G Arscott “Replantation Criteria for the Third World” Jamaica Orthopaedic Association Annual Conference, University of the West Indies, Faculty of Medical Sciences, April 2018
- **R. Venugopal**, M Johnson, Y SoeThwe, C Neblett, C Desouza and G Arscott “Keloid Management: A Ten-Year Review of a Patient Cohort at UHWI”. Association of Surgeons of Jamaica 60th Annual Clinical Conference, Jamaica Pegasus Hotel, Kingston, May 2018
- **R. Venugopal**, R. Thomas, C. Neblett, M Johnson and G. Arscott “A Detailed Analysis of Chemical Burn Injuries at the University Hospital of the West Indies; a 3-year experience at a single institution in Jamaica” Association of Surgeons of Jamaica 60th Annual Clinical Conference, Jamaica Pegasus Hotel, Kingston, May 2018
- **R. Venugopal**, C. Neblett and G Arscott. “Fibromatosis: A Benign Aggressive Condition” Clinico-Pathological Conference, University Hospital of the West Indies, April 2018
- **R. Venugopal**, “Replantation for Limb Trauma” Caribbean College of Surgeons Annual Conference, St Kitts. June 2018
- **Palmer W.** “Arthroscopic Bankart Repair for Chronic Glenohumeral Instability” Caribbean Association of Orthopaedic Surgeons 12th Annual Conference, Nassau Bahamas, Oct 2017
- **Palmer W.** “Effect of Lower Limb Injuries on Inpatient Outcomes of Road Traffic Accidents” Faculty of Medical Sciences 26th Annual Research Day, University of the West Indies, Mona, Nov 2017
- **Palmer W.** “Effect of Lower Limb Injuries on Inpatient Outcomes of Road Traffic Accidents” Ministry of Health Annual 8th Conference Jamaica Conference Center, Kingston, Nov 2017
- **Palmer W.** “Common Knee Injuries” Workshop Association of General Practitioners of Jamaica, Alambra Inn, Jamaica, April 2018
- **Palmer W.** “Arthroscopic Rotator Cuff Repair” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10 2018

- **Clarke D.O.**, “Neck of Femur Fracture in the Young” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10 2018,
- **Clarke D.O.**, “Scoliosis and the child athlete” Jamaica Association of Sports Medicine Conference, University of the West Indies, Faculty of Medical Sciences, September 8–10, 2017
- **Clarke D.O.**, “The Humpty Dumpty Effect of Trauma in Kingston Jamaica” Faculty of Medical Sciences 26th Annual Research Day, University of the West Indies, November 2017
- **O Samuels** “Total Hip Arthroplasty by the Direct Anterior Approach using a Neck Preserving Prosthesis: Clinical Outcomes and a Learning Curve” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10, 2018
- **O Samuels.** “Recent Advances in Total Joint Design: Update in Design Parameters” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10, 2018
- **O Samuels.** “Medial Patellofemoral Ligament Reconstruction for Patellar Instability using an Artificial Ligament and Minimally Invasive Techniques” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10, 2018
- **O Samuels.** “Osseointegration for Amputees” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10, 2018
- **A Ameeraly.** “Primary Total Joint Replacement for Hip Fractures” Jamaica Orthopaedic Association Conference, University of the West Indies, Faculty of Medical Sciences, April 7–10, 2018
- **K Vaughan.** “Surgical Challenges in Performing a Total Knee Arthroplasty in the Rheumatoid Patient” Caribbean Association of Orthopaedic Surgeons 12th Annual Conference Nassau, Bahamas, Oct 2017

- **D. Soares** “Stroke prevention in Sickle Cell Disease” JAR Symposium, Knutsford Court Hotel, Kingston Sept 2017-12-12
- **K. Gabriel, B.Ying, D. Soares** “CT Evaluation of congenital anomalies of the inferior vena cava and the left renal vein in a Caribbean population”. 26th Annual FMS Research Conference, UWI Mona, Kingston Jamaica, Nov 2017
- **Mowatt L** “Micropulse laser in Diabetic Macula oedema”. Ophthalmological Society of the West Indies (OSWI), Moon Palace, Jamaica, July 14, 2018
- Chin M, **Mowatt L**. “Referrals to the Ophthalmology Division at the University Hospital of the West Indies”. Ophthalmological Society of the West Indies (OSWI), Moon Palace, Jamaica, July 13, 2018.
- Sawh R, **Mowatt L**. “Incidence and grade of diabetic retinopathy (DR) of patients presenting to the UHWI Diabetic Retinopathy Screening Clinic (DRS) according to patient gender and their type of diabetes”. Ophthalmological Society of the West Indies (OSWI), Moon Palace, Jamaica, July 13, 2018
- **Mowatt L**. “Combined Central Retinal Venous and Arterial Occlusion in a Young Patient”. Ophthalmological Society of the West Indies (OSWI), Moon Palace, Jamaica, July 13, 2018.
- **Mowatt L**. “DM Ophthalmology programme – 3 campuses – 1 syllabus”, Ophthalmological Society of the West Indies (OSWI), Moon Palace, Jamaica, July 13, 2018.
- **Mowatt L**. “Management of Diabetic Retinopathy”. Diabetes Stakeholder’s Meeting on Prevention and treatment of Diabetic Retinopathy. Rouseau, Dominica , July 4, 2018
- **Mowatt L**. “Microvascular complication of Diabetes Mellitus in the eye”. Diabetes Stakeholder’s Meeting on Prevention and treatment of Diabetic Retinopathy. Rouseau, Dominica, July 4, 2018
- **Mowatt L**. “Cholesterol and the Eye”. Medical Association of Jamaica, Annual Symposium, Jamaica Pegasus, Jamaica, June 8, 2018.

- **Mowatt L.** “Diabetic Retinopathy Screening in Jamaica”. The Royal College of Ophthalmologists, Liverpool, UK, May 22, 2018
- **Mowatt L.** “The Toll of Diabetic Retinopathy in Jamaica”. University Diabetes Outreach Project (UDOP). Jewel Runaway Bay, Jamaica, April 26, 2018
- **Mowatt L.** “Diabetic Retinopathy in Jamaica”. Ophthalmological Society of Jamaica, Jamaica Pegasus, Jamaica, March 10, 2018,
- **Mowatt L.** “Computer Vision Syndrome; an underdiagnosed health issue. CANS Symposium, Montego Bay Convention Center, Jamaica, Jan 26, 2018
- **Mowatt L.** “The Versatility of Micropulse for Clinically and Cost-Effective Treatment of Macular Disorders”. (invited speaker Iridex, American Academy of Ophthalmology (AAO), New Orleans, Louisiana, November 12, 2017
- **Mowatt L.** “Fundoscopy; an Insightful tool in diagnosing Neurological conditions” Caribbean College of Family Physicians, Alhambra Inn, October 1, 2017
- **B Morrison** “Phenotypic associations in males with sickle cell disease-induced priapism” Caribbean Association of Urology- San Fernando, Jamaica, November 4, 2017
- **B Morrison** “Early experience of the Degarelix in Jamaican patients with prostate cancer study” Jamaica Cancer Society, Jamaica Pegasus, September 17, 2017
- **B Morrison** “Male infertility: What role does testosterone play?” Health Brands Pharmacist Continuing Education Seminar, November 12, 2017
- **B Morrison** “Prostate cancer: Management in Jamaica” Health Brands Pharmacist CME – Spanish Court Hotel, April 15, 2018
- **B Morrison** “Urological complications in Diabetes Mellitus” Diabetes Association of Jamaica – Jewel Runaway Bay, St. Ann, April 28, 2018

- **B Morrison** “What will it cost-To treat prostate cancer?” Caribbean Association of Insurance and Financial Advisors, Hilton Hotel, Montego Bay, April 30, 2018
- **B Morrison** “The impact of obesity in urology” Medical Association of Jamaica, Jamaica Pegasus Hotel, May 10, 2018
- **B Morrison** “Urological emergencies in the outpatient department” Andrew’s Memorial Hospital. June 28, 2018
- **JM Plummer** “Recent advances in the Management of Rectal Cancer” Caribbean College of Surgeons, St Kitts. June 2018
- **JM Plummer** “Management of Colorectal Cancer without Surgery” Jamaica Cancer Society Annual Symposium on Colon Cancer, Montego Bay. March 2018
- **JM Plummer** “Improving cancer outcomes: lessons from rectal cancer”, Glen Smalley Lecture. St Ann’s Bay Hospital Annual Medical Conference. July 2018

REFEREED JOURNAL ARTICLES

- **W Palmer**, “Comparison of Medical Student Performance: The Effect of Rotations at Different Sites.” 10.7727/wimj.2017.231 e-Published: 20 Dec, 2017.
- **W Palmer**, M Tulloch-Reid. “Effect of Lower Limb Injuries on Inpatient Outcomes of Road Traffic Accidents.” *West Indian Med J* 2017; 66 (Suppl 4): 15 (Abstract)
- **Clarke D.O**, Nepaul D, Lawson K, Chindepelli. 2017. “The Sandwich Technique in the Management of Peri-articular Giant Cell Tumor of the Knee. ”. *West Indian Medical Journal*. Volume 67, Issue 2, 2018
- **Clarke D.O**, Franklin S, Mullings S, **Vaughan K**, Jones K. 2017. “Subtalar Dislocation: Case series inclusive of the rare anterior dislocation and review of the literature”. *West Indian Medical Journal*. Volume 67, Issue 1, 2018

- **Clarke D.O**, Crichlow A, Christmas M, **Vaughan K**, Whyte N. “The Unusual Osteochondroma: A Case of Snapping Scapula Syndrome”. *Orthopaedics and Traumatology. Surgery and Research*. Volume 103, Issue 8, December 2017: 1295-1298
- **Clarke D.O**, Mullings S, Franklin S, Jones K. 2017. “Well leg compartment syndrome”. *Trauma Case Reports*. 2017 Sept 23;11:5-7
- **West W**, Brady-West D, West KP. “A comparison of statistical associations between oedema in the lumbar fat on MRI, BMI and Back Fat Thickness (BFT)”. *Heliyon*. 2018 Jan 9;4(1):e00500. doi: 10.1016/j.heliyon.2017.e00500. eCollection 2018 Jan
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INCOME GENERATION

Donations and Grants:

J\$11,171,379.00

- UWI/UHWI Development of Hospital Guidelines and Protocols for Common Surgical Diseases: Stewarts Automotive Group: J\$800,000
- Sunken Gardens' Rehabilitation: – J\$250,000
- Workshop of Regional Anaesthesia & Nerve Blocks: – J\$230,000
- Consultation Fund: – \$1,926,379
- National Health Fund Grant: Colorectal Cancer Screening in Teachers – J\$3,965,000
- The Tony Thwaites Wing: Rehabilitation of the Small Medical Lecture Theatre: – J\$4,000,000

CA\$36,000.00

- Professor Peter Fletcher Scholarship:
First selected is Dr. S. Guyah, Senior Resident in General Surgery to undertake an elective at the University of Toronto commencing January 2019.

US\$13,000.00

- National Health Insurance Plan-(TCI): – US\$1,000 First Prize to the Annual Research Meeting for SURRADIC.
- Dr Cecil Aird donated to the Chase Carnegie Skills Lab, an operating microscope, surgical instruments, video equipment, reference books and manuals for training in microsurgery valued: – US\$12,000

HONOURS AND AWARDS

Order of Distinction in the Rank of Officer

Dr Delroy Fray, OD

- For Service to the Health Sector

PUBLIC SERVICE

Professor Newton Duncan

- Member of the Board of Family Life Ministries, Jamaica

Professor Michael McFarlane

- Honorary Consultant Jamaica Cancer Society
- Member of the Board Jamaica Cancer Society
- President American College of Surgeons (Jamaica Chapter)

Dr William Aiken

- President, Rotary Club of New Kingston (2017-2018)
- Council Member for the Association Surgeons in Jamaica

Professor Joseph Plummer

- Council Member for the Association Surgeons in Jamaica (2017–2018)

Dr Mark Newnham

- Governor, American College of Surgeons (Jamaica Chapter)
- President for the Association Surgeons in Jamaica (2017–2018)

Dr Rajeev Venugopal

- Council Member for the Association Surgeons in Jamaica (2017–2018)
- Medical Officer for Kiwanis Health Fair

Dr Lizette Mowatt

- President of the Ophthalmological Society of Jamaica (OSJ) (2015–present)
- Council Member – Medical Association of Jamaica
- Technical Advisory Committee Co-Chair for the Jamaica National Diabetic Retinopathy Screening Programme
- Vision 2020 Ministry of Health Management Advisory committee-Co Chairman

- Advisor to Ministry of Health (MoH) on the Amendments of the Optician's Act of 1926
- Drug Medication review Advisory committee member: National Health Fund (NHF)
- Assessor/ Invigilator/ Jamaican Co-coordinator for the Certificate of Higher Education in Diabetic Retinopathy, (University of Gloucestershire) (2016–present)
- Jamaican Exam co-ordinator for the International Council of Ophthalmology exams (2009–present)

TARGETS FOR THE UPCOMING ACADEMIC YEAR 2018/19

In keeping with our 2017/2020 strategic plan, in the upcoming academic year we will have the full content of MBBS courses offered by SURRADIC on the Department's website including learning objectives and lectures. We have a major focus on increasing the quantity and quality our research output and hope to achieve a target of 1.5 published manuscripts per full-time lecturer. This will be achieved by fostering greater involvement in research by the resident staff and collaboration with regional and international partners. Income generation will have to be increased to facilitate this research hence successful grant application is another area of focus. We believe there is the possibility of increasing income by the development of CME Skills Workshops for general practitioners and finally we need to increase the complement of Lecturers in the Division of Emergency Medicine.