

## DEPARTMENT OF PATHOLOGY

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DM (Path) UWI – Head of Department

### WORK OF THE DEPARTMENT

The academic year, August 1, 2007 to July 31, 2008, was a watershed one for the Department as we finally began to generate our own income by way of fee collection for our in- and out-patient tests performed for the University Hospital of the West Indies. Due to a variety of obstacles and logistical problems, we did not actually begin to collect fees until the last month of the period, but it is anticipated and projected that this income generating activity will equal, or even surpass, our current budgetary allocation.



Many challenges face us in the upcoming year. High on the list of these is the necessity for administrative reform within the Department, which would include, inter alia, the appointment of:

- (a) A Laboratory (Business) Manager to plan, oversee and coordinate the commercial aspects of the laboratories
- (b) A Quality Assurance Manager to implement, coordinate and oversee the quality assurance aspects of the laboratories as a part of the International Organization for Standardization accreditation process as stipulated by the World Trade Organization/Government of Jamaica
- (c) An Information Technology Manager/Director to oversee, coordinate and maintain the vast and complex IT needs of the Department, which would include the acquiring, setting up and management of a Laboratory Information System.

### Laboratories and Autopsy Service

Our laboratory and autopsy services continued to provide invaluable support to the care of the in- and out-patients of the UHWI, as well as to

patients from other medical facilities and institutions, both national and regional.

A total of 573,707 tests were performed by the Chemical Pathology Laboratory and 155,491 by the Haematology Laboratory. The Blood Bank performed 20,339 tests and collected 3,724 units of blood from voluntary donors. The Cytology Laboratory processed 6,101 pap smears and 863 non-gynaecological specimens. The Histopathology Laboratory accessioned and processed 9,774 surgical cases which generated 46,267 routine H&E stained slides and 1,588 special (histochemical) stains. In addition, 766 cases had breast receptor (immunohistochemical) stains performed. A total of 241 autopsies were performed.

Our equipment inventory has been significantly strengthened by the provision of several pieces of new equipment by the University, including: a Jewett blood bank refrigerator, a plasma freezer, a coagulation analyzer, a Genesys 20 spectrophotometer, a cryotome (cryostat) and 2 rotary microtomes. These additions, together with others that have also been promised to us by the University, will go a long way towards improving our service, teaching and research capabilities.

The chronic state of decrepitude of our Autopsy Room continued to hobble the Autopsy Service. We have struggled to cope with the demands of the UHWI with our one functional autopsy table (out of the three), and we had expected that the promised renovation of the facility would have already been completed. Until this is done, we will be limited in our ability to provide quality care in this area of our function.

## **TEACHING**

The Department continued to be very heavily involved in the teaching of all aspects and sub-specialties of Pathology in both Stages I and II of the MBBS programme. Dr Elaine Williams continued to be our Departmental Academic Administrator of Undergraduate Affairs, overseeing and coordinating all aspects of medical student education in the Department, including Clerkship coordination, as well as representing us on the Stage I & Stage II Committees, Assessment & Examination Committee and the Curriculum Committee. We faced tremendous challenges trying to accommodate and teach the large clerkship numbers (consequent on the increasing class sizes in the Faculty), and both our Seminar Room and Autopsy Room have become

inadequate for our teaching requirements. We anxiously await the proposed renovation of both of these areas.

The Museum has deteriorated badly and many (if not most) of the potted specimens have become unsuitable for teaching. We plan to move the Museum to rooms in the Rippel Building that are now occupied by the Department of Surgery, Radiology, Anaesthetics and Intensive Care (DSRA&IC), and to try to salvage those pots that are worth saving and use them as the starting point for a more modern, multimedia-type museum. Despite all the odds, however, our lecturers performed their assigned tasks admirably and were consistently rewarded with high assessment scores by the students, averaging over 4.0 for the Department as a whole.

The DM programme had 4 registered graduate students, 3 in Anatomical Pathology (1 in Part I and 2 in Part II) and 1 in Haematology (Part I). Two of the students in Anatomical Pathology were successful in their Part I examinations in October 2007 and have now progressed to Part II. Dr Nadia Williams was chosen as the Director of the Residency Programme in Anatomical Pathology (DM Path Graduate Programme) and she thus became the de facto Departmental Representative on the FMS Committee for Graduate studies.

#### **STAFF & RESEARCH**

Despite our many problems and limitations, the academic staff rallied to produce a creditable 20 articles and 6 abstracts in peer-reviewed journals, which represented a significant increase over the 12 articles and 4 abstracts published the previous year. In addition, some 19 papers were presented at various local and regional conferences.

Staff members were actively involved in a variety of research activities.

#### **PAPERS PRESENTED**

- West K, **Coard K**. "Jaw Tumors in Children and Adolescents: A Review of Cases seen at the University Hospital of the West Indies," 16<sup>th</sup> Annual Research Conference of the Faculty of Medical Sciences, UWI, Kingston, Jamaica, November 2007.
- Jackson M, Walker S, Younger N, McFarlane-Anderson N, Bennett F, **Coard K**, Paul T, Tulloch T, Aiken W, Simpson S. "Dietary Patterns and Risk of Prostate Cancer in Jamaican

Men”, 52<sup>nd</sup> Scientific Meeting of the Caribbean Health Research Council, Suriname, April 2008.

- West K, **Coard K**. “Odontogenic Tumors at the University Hospital of the West Indies: A retrospective analysis”, 9<sup>th</sup> UWI Medical Alumni Association International Medical Conference, Kingston, Jamaica, July 2008.
- Graham R, **Coard K**. “Renal Angiomyolipoma: The University Hospital of the West Indies Experience”, 9<sup>th</sup> UWI Medical Alumni Association International Medical Conference, Kingston, Jamaica, July 2008.
- **Gibson TN**. “Gastrointestinal Tract Malignancies: The Size of the Problem”, 13<sup>th</sup> Annual Scientific Symposium of the Jamaican Association of Clinical Pathologists, Kingston, Jamaica, November 2007.
- **Gibson TN**, Jackson ME, Wilcox DE, Blake G, Hanchard B. “Is lung cancer risk modified by the glutathione s-transferase mu 1 deletion polymorphism”? 16<sup>th</sup> Annual Research Conference of the Faculty of Medical Sciences, UWI, Kingston, Jamaica, November 2007.
- **Williams NP**. “Turning the Gut Inside Out- Serrated Polyps: A Jagged Path to Colon Cancer: is it Under-rated”? 13<sup>th</sup> Annual Scientific Symposium on Gastrointestinal Pathology, 13<sup>th</sup> Annual Scientific Symposium on Gastrointestinal Pathology, November 2007.
- Neblett A, **Williams NP**. “Sharp Force Injuries at the University Hospital of the West Indies, Jamaica: A Ten-Year Autopsy Review” 9<sup>th</sup> International Medical Conference of the UWI Medical Alumni Association, Jamaica, July 2008.
- **Williams NP**, Hall C., Choy L., Edmondson N, Morant R, Fletcher H, Royes C. “Endometriosis of the Gastrointestinal Tract”, 9<sup>th</sup> International Medical Conference of the UWI Medical Alumni Association, Kingston, Jamaica 2008.
- Fletcher H, Mitchell S, Bennett S, Simms-Stewart D, Scott P, Reid M, **Williams NP**, Wharfe G, Wilks R. “Cardiovascular disease and osteoporosis in the menopause Post-hysterectomy in Jamaican black women: A case controlled study”, 9<sup>th</sup>

International Medical Conference, Kingston, Jamaica, July 2008.

- **Shirley SE**, Escoffery CT, “The pathology of fatal burns in Jamaica: a coroner's (medicolegal) autopsy study from the University Hospital of the West Indies”, 16<sup>th</sup> Annual Research Conference, Faculty of Medical Sciences, UWI, Mona, Kingston, Jamaica, November 2007.
- Green CO, Wheatley AO, Dilworth LL, **McGrowder D**, Mills J, Morrison E, Asemota HN. “Effect of Jamaican ortinique peel polymethoxylated flavones on liver and kidney function in diet-induced hypercholesterolaemic rats”, 16<sup>th</sup> Annual Research Conference and Workshop on Sports and Exercise Medicine of the Faculty of Medical Sciences, Kingston, Jamaica, November 2007
- Crawford T, **McGrowder D**. “Road Traffic injury epidemic in Jamaica: socio-economic and legislative implications”, 9<sup>th</sup> Annual Conference of the Sir Arthur Lewis Institute Annual conference Kingston, Jamaica, March 2008.
- Beman D, Crawford-Sykes A, **Williams E**, Paul TJ, Branday JM, Young L. “Standard setting of medical examinations enhancing our quality assurance strategy at the University of the West Indies, Mona”, 4<sup>th</sup> Annual CANQUATE conference, Sunset Jamaica Grande, Ocho Rios, Jamaica, October 2007.
- Paul TJ, Scarlett M, **Williams E**, Crawford-Sykes A, Branday JM, Young L, “Feedback from professionals as a contribution of quality Assurance in medical education - proposal for a quality surveillance system”, 4<sup>th</sup> Annual CANQUATE conference, Sunset Jamaica Grande, Ocho Rios, Jamaica, October 2007
- **Lowe D**, “Familial extra-intestinal GIST - Case Reports”, Jamaican Association of Clinical Pathologists (JACP) Annual Symposium, November 2007
- **Lowe D**, “The G.I. Tract – Turning the Gut inside Out”, Jamaican Association of Clinical Pathologists (JACP) Annual Symposium, November 2007
- **Lowe D**, “When Cancer Strikes - A review of Colorectal Cancer” Cornwall Regional Hospital Outreach Seminar –

“When Cancer Strikes”, Cornwall Regional Hospital, Montego Bay, July 2008

- **Taylor Houston J**, “Management of Paediatric Haemophilia”, 3<sup>rd</sup> Biennial Child Health Conference, Challenges in General Paediatric Blood & Autoimmune Disorders, Main Medical Lecture Theatre, UWI, Kingston, Jamaica.

## PUBLICATIONS

### Refereed Journal Articles

WIMJ = *West Indian Medical Journal*

- \* Benn-Torres J, Bonilla C, Robbins CM, Waterman L, Moses TY, Hernandez W, Santos ER, **Bennett F**, Aiken W, Tulloch T, **Coard K**, Hennis A, Wu S, Nemesure B, Leske MC, Freeman V, Carpten J, Kittles RA. “Admixture and population stratification in African Caribbean populations”. *Annals of Human Genetics* 2008; 72(Pt 1): 90-8.
- \* **Gibson TN, Char G**. “Causes of death at autopsy in hospitalized adult patients with diabetes mellitus: a study from a developing country”. *The Internet Journal of Pathology* 2007; 6(1) [about 12 pp] <http://www.ispub.com/ostia/index.php?xmlPrinter=true&xmlFilePath=journals/ijpa/vol6n1/death.xml>
- \* Chaturvedi AK, Wilson M, Sanders-Lewis KA, Kathi HA, Urquhart N, Walters MA, Miley W, Cranston B, **Hanchard B**, Hisada M. “Haematologic and biochemical changes associated with human T lymphotropic virus type 1 infection in Jamaica: A report from the population-based donors study”. *Clinical Infectious Diseases* 2007; 15:45(8):975-82.
- \* **McGrowder D**, Gordon L, Budall S. “The clinical usefulness of soluble transferrin receptor (sTfR)”. *Haema* 2007; 9 (6): 770-782.
- \* Gordon L, Morrison E., **McGrowder D**, Pena-Fraser Y, Zamoraz E, Garwood D, Alexander-Lindo R, Irving R. “Effect of yoga and traditional physical exercise on hormone levels and percentage insulin binding receptor in patients with type

- 2 diabetes". *American Journal of Biochemistry and Biotechnology* 2007; 4 (1): 35-42.
- \* Crawford T, Gardner M, **McGrowder D**, Gordon L. "Socio-economics and child-bearing characteristics of young adults in Jamaica". *European Journal of Scientific Research* 2007; 18 (4): 680-8.
  - \* Boyne MS, Sargeant LA, **Bennett FI**, Wilks RJ, Cooper RS, Forrester TE. "Isoprostanes, a marker of lipid peroxidation, may not be involved in the development of glucose intolerance", *Diabetes Research and Clinical Practice* 2007; 76: 149 -151.
  - \* **Jaggon JR, Char G**. "Epidemiologic Data on Meningiomas in Jamaica: The First from the Caribbean", *The Internet Journal of Third World Medicine* 2007; 5(1) [about 7 pp] <http://www.ispub.com/ostia/index.php?xmlFilePath=journal/s/ijtwm/vol5n1/jamaica.xml>
  - \* Asnani M, **Char G**, Reid M, **Miller-Nanton P**. "Intra-thoracic and pelvic extramedullary Haematopoiesis in sickle cell disease". *WIMJ* 2007; 56(6):540-43.
  - \* Plummer JM, **Gibson TN**, Mitchell DIG, Herbert J, Henry T. "Emergency subtotal colectomy for lower gastrointestinal haemorrhage: Over-utilized or under-estimated"? *International Journal of Clinical Practice* 2008 [Epub ahead of print; cited in PubMed PMID: 18248394] doi:10.1111/j.1742-1241.2007.01632.x
  - \* Plummer JM, **Gibson TN**, Mitchell DIG, Williams EW, Simpson LK. "Adult intussusceptions from an inflammatory fibroid polyp. A case report and review of the literature". *The Internet Journal of Pathology* 2008; 7 (1) [about 6 pp] <http://www.ispub.com/ostia/index.php?xmlFilePath=journal/s/ijpa/vol7n1/ifp.xml>
  - \* **Gibson TN, Hanchard B, Blake G, Waugh N, McNaughton D**. "Age-specific incidence of cancer in Kingston and St. Andrew, Jamaica, 1998 - 2002". *WIMJ* 2008; 57:81-89.
  - \* **Shirley SE**, Mitchell DIG, Soares DP, James M, **Escoffery CT**, Rhoden AM, **Wolff C, Choy L**, Wilks R. "Clinico-

pathologic features of breast disease in Jamaica; findings of the Jamaican Breast Disease Study, 2000-2002". *WIMJ* 2008; 57: 90-4.

- \* Crawford T, Gardner M, **McGrowder D**. "A contemporary analysis of sexual trends and transmitted infections among outpatients at a public hospital in Jamaica". *American Journal of Infectious Diseases* 2008; 4, (2): 109-116.
- \* Gordon L, Morrison E, **McGrowder D**, Young R, Pena-Fraser Y, Zamoraz E, Alexander-Lindo R, Irving R. "Effect of exercise on lipid profile and oxidative and oxidative stress indicators in patients with type 2 diabetes". *BMC Complementary and Alternative Medicine* 2008; 8:21 [about 10 pp] <http://www.biomedcentral.com/1472-6882/8/21>
- \* Campbell S, Lindo RL, Dasgupta T, **McGrowder D**. "The effect of S-nitrosocaptopril (CapSNO) and S-nitroso-N-acetyl penicillamine (SNAP) co-administered with cysteine on blood glucose metabolism and total nitrite concentration in normal Wistar mixed breed rats", *American Journal of Biotechnology and Biochemistry* 2008; 4 (3): 265-272.
- \* Simms-Stewart D, Frederick S, Fletcher H, **Char G**, Mitchell S. "Postmenopausal uterine inversion treated by subtotal hysterectomy". *Journal of Obstetrics and Gynaecology*, 2008; 28(1):116-7.
- \* Urquhart NE, Capildeo KD, Sargeant LA, **Wharfe G**, Hisada M, **Hanchard B**. "White blood cell counts in healthy Jamaican adults", *WIMJ* 2008; 57(2):147-151.
- \* Fletcher HM, **Hanchard B**, "Poverty eradication and decreased human papilloma virus related cancer of the penis and vulva in Jamaica" *Journal of Obstetrics & Gynaecology* 2008, 28(3):333-5.

#### **Refereed (Peer-Reviewed) Journal Abstracts**

- \* **West K, Coard K**, "Jaw tumours in children and adolescents: a review of cases seen at the University Hospital of the West Indies", *WIMJ* 2007. 56 (Suppl.3) 15.

- \* **Gibson TN**, Jackson ME, Wilcox DE, **Blake G**, **Hanchard B**, “Is lung cancer risk modified by the glutathione s-transferase mu 1 deletion polymorphism”? *WIMJ* 2007; 56 (Suppl. 3): 14.
- \* **Shirley SE**, **Escoffery CT**. “The pathology of fatal burns in Jamaica: a coroner's (medicolegal) autopsy study from the University Hospital of the West Indies”. *WIMJ* 2007: 56 (Suppl. 3) 14.
- \* Jackson M, Walker S, Younger N, McFarlane-Anderson N, **Bennett F**, **Coard K**, Paul T, Tulloch T, Aiken W, Simpson S. “Food patterns and risk of prostate cancer in Jamaican men”, *WIMJ* 2008; 57(Suppl. 2) 22.
- \* **West K**, **Coard K**. “Odontogenic Tumours at the University Hospital of the West Indies: a retrospective analyses”, *UWI Medical Alumni Conference Supplement* 34:2008.
- \* **Graham R**, **Coard K**. “Angiomyolipoma: The University Hospital of the West Indies Experience”, *UWI Medical Alumni Conference Supplement* 48-49:2008

## **PUBLIC SERVICE**

### **Dr K. Bishop**

- Cytopathology Consultant, Jamaica Cancer Society

### **Professor G. Char**

- Cytopathology Consultant, Jamaica Cancer Society

### **Professor K. Coard**

- Treasurer, Caribbean Cardiac Society
- Chairman, Research Grants Awards Committee, Caribbean Cardiac Society

### **Professor C. Escoffery**

- Cytopathology Consultant, Jamaica Cancer Society

### **Dr. T. Gibson**

- Cytopathology Consultant, Jamaica Cancer Society

**Professor B. Hanchard**

- Member of Executive Board, International Society of Retrovirology
- Member of Executive Board, Jamaica Cancer Society
- Cytopathology Consultant, Jamaica Cancer Society

**Dr. J. Jaggon**

- Cytopathology Consultant, Jamaica Cancer Society

**Dr. D. Lowe**

- Executive Member, Leukemia CARE
- Volunteer Clinician, National Blood Transfusion Service, Voluntary Blood Donor
- Secretary/Treasurer, Jamaican Association of Clinical Pathologists
- Clinical Advocate, Jamaica Haemophilia Society

**Dr. D. McGrowder**

- Technical Editor, Pakistan Journal of Biological Sciences
- Member, Lupus Foundation of Jamaica
- Member, Heart Foundation of Jamaica
- Board Member, Jamaica Cancer Society
- Member, Editorial Board, Biochemistry Insights

**Professor D. Shah**

- Deputy Chairman, Council, Professions Supplementary to Medicine, Ministry of Health, Jamaica
- Cytopathology Consultant, Jamaica Cancer Society

**Dr. S. Shirley**

- Cytopathology Consultant, Jamaica Cancer Society

**Dr. J. Taylor-Houston**

- Chairperson, Leukaemia CARE

**Dr. E. Williams**

- Cytopathology Consultant, Jamaica Cancer Society

**Dr. N. Williams**

- Member, International Relations Committee of the American College of Gastroenterology
- Cytopathology Consultant, Jamaica Cancer Society
- U.W.I. Medical Alumni Association - Executive Member
- UWI Mentorship Programme