

FACULTY OF MEDICAL
SCIENCES

MONA

Year ending July 31, 2011



**Professor Archibald McDonald, MBBS, DM (Surg) *UWI*,
FRCSEd, FACS – Dean**

Overview

During the year under review, the Faculty of Medical Sciences continued to place emphasis on managing the increased student enrolment to ensure that the quality of its programmes is not compromised. The School of Medical Radiation Technology (SMRT) was transferred from the University Hospital of the West Indies to the Faculty of Medical Sciences. SMRT offers the BSc. in Diagnostic Imaging and a number of short certificate courses. This is strategically important as it gives the FMS the capability to offer training in radiation therapists and nuclear medicine technicians. This is not currently available in the English speaking Caribbean. The Doctor of Dental Surgery programme (DDS) commenced. A Programme Director was appointed for this programme and much effort was invested in ensuring that the programme is comparable to the best available anywhere. The curriculum is being strengthened and facilities are being put in place for clinical training. Work to establish a state of the art dental skills laboratory in the new Basic Medical Sciences Complex is progressing well. Due to the intervention of the Ministry of Health, the Nursing Council of Jamaica increased the number of students permitted to enter the Undergraduate Nursing Programme from 50 to 150.

The philosophy of the MB BS curriculum as well as that of other clinical programmes offered by the Faculty is small group teaching. In order to ensure compliance with this, the Faculty continued to expand the number of clinical training sites and upgrade its information technology infrastructure. Equivalence across remote training sites is dependent on technology such as video-conferencing. Under the Memorandum of

Understanding with the Ministry of Health, clinical training is now firmly established in five government hospitals. Student facilities have been established to ensure that our students have access to facilities similar to that which exist at the University Hospital of the West Indies. Seminar rooms, electronic library with full access to UWI library network, leisure areas and administrative offices with an administrative assistant were established at each remote site. The Faculty provides students with transportation to and from remote sites. Students doing clinical rotations in Montego Bay and Mandeville are provided with accommodation.

The refurbishment of the Departments of Pathology and Microbiology was completed and efforts to make these departments more efficient and self-sufficient were intensified. Approval was obtained for the installation of a Laboratory Information System and this should be achieved during academic year 2011/2012. This will improve the efficiency of operations in the laboratories and also enhance patient care, teaching and research.

The new Basic Medical Sciences Complex will be completed and commissioned in academic year 2011/2012. This complex will house the Sections of anatomy, Physiology, Pharmacology, Biochemistry, Physical Therapy and the School of Dentistry. The building also houses many research laboratories including CARIGEN and Forensic Sciences including Toxicology. This complex will enhance our teaching and research by providing state of the art facilities and equipment.

The expansion of the Faculty has challenged us to be innovative in our search for cost effective solutions to numerous problems. The support from the Mona Campus has been good but more work is needed to ensure that the achievements of recent years are sustainable. There is need for support departments to be more responsive to the changes in the Faculty and be willing to change and modernize their administrative processes. The emphasis in recruitment of students must now shift from the Caribbean to outside the region. This will require administrative departments to react more speedily to resolve problems and to be willing to implement innovative solutions without compromising the high standards established by The University of the West Indies.

Despite the expansion we continue to provide excellent graduates and our students have maintained the high standards for which the FMS is well known. This is evidenced by the 93 percent pass rate in the MB BS Programme during the year which was the highest ever achieved by Faculty; all subject prizes were won by the Mona Campus.

The Business plan to upgrade the UHWI and restore it to its former position as the leading health care institution in the Caribbean was completed but not implemented. This has to be a priority over the new few years especially as the strategic focus shifts to internationalization of the medical school and Faculty.

Student Enrollment and Access

Table 1 below compares undergraduate enrolment for the academic year 2010/2011 with the previous year and shows a 6 percent increase.

Student Enrolment in the Faculty of Medical Sciences 2010/2011

Programme	Majors and Minors	No. of Students 2010/2011	No. of Students 2009/2010
BBMedSci	Anatomy	5	5
	Biochemistry	–	1
	Pharmacology	51	43
	Physiology	7	4
	Year 1 students	53	32
	Subtotal	116	85
BSc	Nursing (Post RN)	16	11
	Nursing (generic)	814	817
	Online delivery	196	366
	Physical Therapy	140	118
	Diagnostic Imaging	79	77
	Subtotal	1245	1389

DDS	Doctor of Dental Surgeon	35	–
MBBS	Bachelor of Medicine & Surgery	1038	909
	Total	2434	2298

STUDENT ACHIEVEMENTS

Undergraduate Programme 2010/11

MBBS:

- Dean's List: 65 students
- Honour society: 9 students
- Outstanding Graduands: 3 students

Nursing:

- Dean's List: 6 students
- Honor Society: 2 students
- Outstanding Graduands: 3 students

Physical Therapy:

- Dean's List: 3 students
- Honor Society: 3 students
- Outstanding Graduands: 3 students

BBMedSci:

- Dean's List: 14 students
- Honor Society: 5 students
- Outstanding Graduands: 2 students

Diagnostic Imaging:

- Dean's List: 22 students
- Honor Society: 4 students
- Outstanding Graduands: 2 students

The Faculty graduated Undergraduate students in the Academic Year 2010/2011:

MB, BS	138
BSc Nursing (generic)	139 (MONA), 32 (BTCC), 26 (KNOX), 48 (EXED)
BSc Nursing (Post RN)	76
BSc Physical Therapy	26
BBMedsci	17
BSc Diagnostic Imaging (Radiography)	21

MBBS Examination Results

The MBBS Examination for academic year 2010/11

	Pass	Honours	Distinction	Fail/FA
Medicine (MDSC553)	102	9	–	1/1
Surgery (MDSC555)	97	5	1	3/1
Obstetrics & Gynaecology (5554)	87	6	8	4

Prizes/Medals Awarded

The following students were awarded prizes in the final MB BS examinations for Academic Year 2010/11

Medals

Overall Clinical Medal:	–	Ankita Kulkarni
Medicine and Therapeutics Subject Medal:	–	Ankita KulKarni
Surgery Subject Medal	–	Ankita Kulkarni
Obstetrics and Gynaecology Subject Medal:	–	Donna Cheung
Pathology/Microbiology Medal	–	Katherine Innis

Prizes/Bursaries

Professor Owen Morgan Prize in Medicine and Therapeutics	–	Ankita Kulkarni Kurt Gabriel
Allenbury Prize in Medicine	–	Giselle Stevens
The Dr. John Hall Book Prize	–	Caryl Bailey Kiri-Ann Bridgewater Charlton Collie Kristen Cowan Kurt Gabriel Jahnavi Kakuturu Ankita Kulkarni Tounesha La Rosa Peyton Lawrence Vinnette Pearson Yonique Petgrave Gisselle Stevens Joy-Ann Tabanor Nastassia Tate
Dr. Aubrey McFarlane Bursary	–	Ankita KulKarni
Sir Harry Annmunthodo Prize in Surgery	–	Ankita KulKarni
Medical Association of Jamaican Insurance Fund Prize in Obstetrics and Gynaecology	–	Donna Cheung
Professor Lois Grant Book Prize	–	Katherine Innis
Professor S. Brooks Memorial Prize	–	Katherine Innis

Prizes Awarded BSc Physical Therapy Students, 2010/11

Overall clinical prize	–	Kira Nunes
Final professional examination prize (practical)	–	Sertina Mcgregor
Final professional examination prize (theory)	–	Aneta Findley
Rehabilitation 1 prize	–	Trevor Samaroo
Rehabilitation 2 prize	–	Aneta Findley
Rehabilitation 3 prize	–	Kira Nunes
Anatomy	–	Trevor Samaroo

Research

Capacity building continued through the work of the Research Resource Centre and the Clinical Fellowships established with the TMRI. The year saw an increase in the number of publications and the per capita publication rate of 1.4. However this remains below the 2 targeted by the Faculty. Despite excellent work by a number of staff members, some are underperforming. The Faculty is committed to resolving this issue and further measures will be introduced next year to address this.

Table 3**Publications per Department**

Department	Publications 2009/2010	Publications 2010/2011	Conference Presentations 2009/2010	Conference Presentations 2009/2011
UWI School of Nursing	5	1	10	9
Basic Medical Sciences	39	41	36	26
Community Health & Psychiatry	34	41	39	33
Medicine	24	20	31	52
Obstetrics, Gynaecology & Child Health (2009/2010)	35	19	10	20
Child & Adolescent Health		22		33
Pathology	13	28	22	35
Microbiology	11	12	–	22
Surgery, radiology, Anaesthesia & Intensive Care	38	37	51	66
TMRU/Sickle Cell Unit	48	46	–	–
TOTAL	236	266	199	228

Research Awards

At the Principals annual awards ceremony, three papers were awarded “**Best Publications**”. These were:

- **Michael S. Boyne, Minerva Thame, Clive Osmond, Raphael A Fraser, Leslie Gabay, Marvin Reid and Terrence E Forrester** - “Growth, Body Composition and the Onset of Puberty: Longitudinal Observations in Afro-Caribbean Children” *J Clin Endocrinol and Metab*, July 2010.

- **Donnette Simms-Stewart, Minerva Thame, Aleith Hemans-Keen, Ian Hambleton and Graham R Serjeant** - “Retained Placenta in Homozygous Sickle Cell Disease”, *Obstetrics & Gynaecology*, October 2009.
- **Minerva Thame, Horace Fletcher, Tameka M Baker and Farook Jahoor** - “Comparing the glucose kinetics of adolescent girls and adult women during pregnancy”, *Am J Clin Nutr* 2010, March 2010

The most ‘**Outstanding Researchers**’ were:

- **Professor Minerva Thame of the Department of Child Health**

Minerva Thame serves as Head of the Department of Child Health, UWI, Mona. She is well known internationally for her research on the subject of in utero exposure and subsequent health outcomes – having authored/co-authored several publications in this area. During the period under review she published eight research manuscripts in peer reviewed international journals, having an average impact factor of 3.525. She is the primary author/co-author of all three publications nominated for the Principal’s “Best Research Paper” Awards for 2011. Her research grants for the period totaled US\$21,280.00.

- **Professor Rainford Wilks of the Tropical Medicine Research Institute (TMRI)**

Rainford Wilks serves as Professor of Epidemiology and is the Director of the Epidemiology Research Unit, TMRI. His main research interest is in cardiovascular diseases and their risk factors (CVDs) in developing countries and his research projects include national surveys and cohort studies which have documented the burden of CVDs in youth and adults. These data have informed local and regional policies and programmes in response to the CVD epidemic. In the process he has mentored several young epidemiologists and other researchers. During the period under review he served as senior/co-author of eleven research

manuscripts with an average impact factor of 2.815. His research grants for the review period was approximately US\$2,5000.

The selection in the category **“The Project attracting the Most Research Funds”** was:

- **“The Jamaica Paediatric, Perinatal and Adolescent HIV/AIDS Programme (JaPPAAIDS)”** which attracted research funds totaling J\$25,494,762.00.

Jamaica’s Pediatric, Perinatal and Adolescent HIV/AIDS (JaPPAAIDS) Program is a collaborative effort between the UWI and the Jamaican Ministry of Health. The mission of the program is to virtually eliminate vertical transmission of HIV/AIDS while improving the quality of life for those infected and affected by HIV/AIDS. It provides:

- Island-wide leadership, mentoring and training of the healthcare team to prevent vertical transmission of HIV/AIDS,
- Risk-reduction in HIV-infected youth,
- Patient management of pediatric, perinatal and adolescent HIV/AIDS, Outcomes-based research and outreach.

The final category – **The Research Project with the Greatest Business/Economic/Development Impact :**

No selection was made in this category

Research Grants

The Faculty attracted approximately US \$ 1.5 million in research grants during the year, details of which appear in the individual departmental reports.

Graduate Studies

The following new programmes were launched during the year:

- The MSc in Forensic Sciences
- Clinical Fellowship in Nephrology
- Clinical Fellowship in Child and Youth Psychiatry
- Diploma in Family Medicine.

Efforts were again directed at improving the quality of our programmes and student evaluation of supervisors was introduced under the auspices of the Deputy Principal's Office.

Registered Students (2010-2011) – Graduate Studies

Programmes	Numbers
Specially Admitted	5
DI PG	9
DM	315
DPH	16
MPH	49
Taught Masters	170
MPhil	53
PhD	47
Total	664

Income Generation and Budgetary Considerations

This continues to be an area of concern for the Faculty of Medical Sciences. Its full fee paying programmes continue to do well. However the MB BS Programme is expensive to run and there are challenges associated with increased enrolment in this programme. This requires careful

monitoring and management by the Faculty as well as the Campus management team.

Conclusion

Although facilities have been substantially upgraded and income generation remains strong, the Faculty is concerned about the negative impact the expansion could have on the quality of its programmes. To date this has not occurred and this year saw the best results ever in our flagship MB BS Programme. The quality of our programmes has been enhanced, not decreased. Quality assurance measures have been implemented to ensure that this remains so and during next year the emphasis will be on strengthening these measures. The internal accreditation committee is very active and ensures that all training sites maintain the minimum standards required by the Faculty. As the focus shifts to internationalization of the Faculty, the administrative departments will need to be more responsive and innovative in finding solutions to new and old problems. Work to upgrade the UHWI to acceptable international standards must begin now.