



THE HUGH WYNTER FERTILITY MANAGEMENT UNIT

Dr. John Harriott · Interim Director

BSC (HONS), MBBS, DM (O&G), MSC (MIGS), MSC (BHRE)

OVERVIEW

The primary mandate of HWFMU is to utilize evidence based technological innovations in particular, Minimally Invasive Gynaecological Surgery and Assisted Reproductive techniques to provide quality women's health-care to meet the needs and expectations of women in the community, nationally, regionally and globally. In addition, to provide excellence in research and training of nurses, undergraduate and postgraduate medical students and to promote awareness and provide preventative medicine services through outreach initiatives.

The Hugh Wynter Fertility Management Unit (HWFMU) under the stewardship of Dr. John Harriott, Interim Director, has made strategic moves to improve the four interconnected areas of focus namely Clinical Services, Training, Research and Outreach. Since February 2022, he has implemented initiatives to accelerate the income generative capacity of the HWFMU by upgrading and expanding the Minimally Invasive Gynaecological Surgery Unit (MIGSU) and operationalisation of the second operating theatre. This included repair of operating room equipment (OR1 system, anaesthetic machines) and enhancing the video image quality by upgrading to 4K LED monitors. In order to facilitate the increase in throughput of the MIGSU, the first floor was renovated and repurposed as a 10-bed postsurgical suite. Furthermore, extensive effort has been made to increase the reach of the HWFMU both nationally, regionally and internationally, in particular, the diasporic population using the digital space and through improvements in customer satisfaction. This was achieved by alignment of the quality management system with the quality objectives and the requirements of the stakeholders. The target throughput of the IVF laboratory has been increased to 30 new cases per month.

This strategic direction of this income generating centre is aligned to the

Triple A strategic plan for the University of the West Indies to achieve greater access, alignment and agility in advancing sexual and reproductive health of the Caribbean and its diasporic population and improving research outcomes, service delivery, income generating activities, staff productivity and the satisfaction of the HWFMU's staff, clients and other stakeholders.

This strategic direction of the HWFMU is aligned with the new strategic plan, "Revenue Revolution" for 2022-2027 and stands in readiness to bolster income generation within the University of the West Indies through leveraging income from our existing resources by improving efficiency, maximizing capacity and throughput.

This report is done in accordance with the first phase of The University Triple A, "The Reputation Revolution" that has been mobilised from 2017-2022. Furthermore, it contains the achievement of the HWFMU for the period from August 1, 2021, to July 31, 2022.

ACCESS

ISO 9001:2015 Internal Auditor Training

Twelve members of staff attended an ISO 9001:2015 Internal Auditor Training on August 12-13, 2021 and were certified as Internal Auditors. The training was held online via ZOOM and facilitated by Mr. Jacob McLean from Kaizen Training and Management Consultants Limited. This training provided the knowledge and skills needed to organise and lead a Quality Management System that is being implemented for the Assisted Conception of the Unit - HWFMU IVF-Jamaica. This process-based management system is based on risk-based thinking and implementing controls to minimize risks and increase performance of processes and targeted outcomes. Additionally, the certified staff has the ability to evaluate and report audit findings; evaluate corrective action effectiveness and carry out follow-up and routine internal audits that are mandatory for the accreditation process and preparation for the First Stage Audit scheduled for September 13, 2022, that will be conducted by the National Certification Body of Jamaica (NCBJ).

The certified ISO 9001:2015 Internal Auditors of the Unit are Dr John Harriott, Dr Loxley Christie, Dr Michelle Bailey, Dr Kamali Carroll, Ms. Deon

Black, Mrs. Veronica Forbes-Blake, Ms. Nicole Campbell, Ms. Natricia Scully and Nurse Melrose Godfrey.

CLINICAL SERVICES

The Clinical Section of the HWFMU delivers three services, namely, family planning, minimally invasive gynaecological surgeries and assisted reproductive technology (ART). These services are delivered using state of the art technology and modern surgical techniques. The tables below show the numbers and type of services that were completed during the period August 1, 2021 to July 31, 2022.

Table 1: The monthly number of Surgical Procedures performed during the period August 1, 2021 to July 31, 2022

MONTH	# OF SURGERIES
August	23
September	37
October	45
November	45
December	40
January	21
February	45
March	51
April	39
May	42
June	56
July	34
TOTAL	478

Table 2: Surgeries and Other Procedures Performed in the Clinic during the period August 1, 2021 to July 31, 2022

TYPE OF SURGERIES	Total
Operative Laparoscopy	126
Diagnostic Laparoscopy	5
Operative Hysteroscopy	15
Diagnostic Hysteroscopy	253
Tubal Ligation	4
Vaginal Hysterectomy	1
Total Abdominal Hysterectomy	3
Total Laparoscopic Hysterectomy	10
Open Myomectomy	26
Laparotomy	2
Other Procedures (D&C, Cyst Aspiration, Marsupialization)	33
TOTAL	478

Table 3: Family Planning Methods offered to Patients of the UHWI during the period August 1, 2021 to July 31, 2022

MONTH	NEW USERS	TOTAL # OF USERS
August	11	108
September	5	139
October	17	103
November	11	139
December	11	85
January	22	168
February	19	101
March	16	102
April	14	167
May	17	157
June	22	122
July	28	112
TOTAL	193	1503

Table 3 shows the monthly numbers of users of family planning methods delivered during the period under review. A total number of users were 1503. Also, a total of 193 new patients were registered for family planning.

Training and Development

Students

Assisted Conception

Lanceford Sterling, PhD student is presently preparing his paper in Applied Physics, Assessment of the Relationship between Electromagnetic Radiation Emitted by Wireless Devices and Sperm Quality in Men Seeking Infertility Treatment (2021 - Present). Also, he was a finalist in the Three Minute Thesis (3MTTM) Competition: The UWI Edition

Dr Michelle Bailey provided supervision of a 5th year elective undergraduate student during the period of April 18, 2022 – June 6, 2022. The areas of interest were:

- Exposure to more conservative surgical options to gynaecology specifically laparoscopy
- Management of women and men dealing with infertility
- Understanding methods of Assisted Reproductive Technologies such as Egg Freezing and Embryo transfers

Dr Kelly Fletcher educated pupil midwives, Operating Theatre nurses-in-training and medical students on intra-operative anaesthetic management.

Staff

HWFMU Cardiopulmonary Resuscitation Workshop

A presentation was made by Dr Kelly Fletcher to the clinical staff followed by a hands on demonstration with Dummies.

HWFMU IVF-JAMAICA PERFORMANCE

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan .	Feb.	Mar.	Apri l	May	Jun .	Jul .	Total
COUPLES	11	11	12	11	5	8	12	7	9	13	9	14	122
Serodiscordant Couples	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Sharers	0	0	1	0	0	0	0	1	1	0	0	0	3
Egg Recipient	1	0	0	0	0	0	0	1	1	0	1	0	4
IVF with D/Sperm	0	0	0	0	0	0	0	0	0	0	0	0	0
IUI with D/Sperm	0	0	0	0	0	0	0	0	0	0	0	1	1
Male Factor	3	7	7	3	0	3	4	3	5	9	1	8	53
Female Factor	10	7	9	11	5	8	12	6	6	12	7	13	106
Summaries	11	11	12	11	5	8	12	6	9	12	9	14	120

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan	Feb.	Mar.	Apri l	May	Jun .	Jul .	Total
SINGLE WOMEN	2	0	0	1	2	3	1	0	0	0	0	2	11
Egg Donor	1	0	0	0	0	0	1	0	0	0	0	0	2
IVF with D/Sperm	0	0	0	1	0	1	0	0	0	0	0	1	3
	0	0	0	0	0	0	0	0	0	0	0	0	0

	Aug	Sept.	Oct.	Nov.	Dec	Jan.	Feb.	Mar.	Apr.	May	Jun	Jul.	Total
Pregnancies	4	3	2	5	8	0	5	4	7	6	7	5	56
Clinical	2	3	2	3	5	0	5	3	4	1	6	3	37
Biochemical	2	0	0	2	3	0	0	1	3	5	1	2	19
Miscarriages	0	1	1	0	2	0	0	1	0	0	0	0	5
Deliveries	0	0	1	2	2	6	7	3	1	2	2	3	29

Order of Gestation	Details	Total
Twin	<ul style="list-style-type: none"> • 2 sets monozygotic/identical twin girls • 2 sets monozygotic /identical twin boys • 3 set dizygotic twins (girl/boy) 	14
Singletons	<ul style="list-style-type: none"> • 10 boys • 12 girls 	22
Total babies		36

Table 4: The range of assisted reproductive techniques (311) performed

Procedure	Total
Egg Recovery	141
Embryo Transfer	64
Frozen Embryo Transfer	99
Intra-uterine insemination	7

ADMINISTRATION

The HWFMU Documentation Registry

The Hugh Wynter Fertility Management Unit IVF-Jamaica has initiated the process of obtaining International Organisation for Standardisation (ISO)

certification by establishing a quality management system. One requirement of the Standard is to have all documents and records controlled which should result in the efficient functioning of the system.

Since September 2021, Ms. Nicole Campbell the Records Management Officer from the Registry, under the guidance of the Assistant Director, has created a procedure that manages all aspects of the Unit's documents and the records, from creation to disposition. A standardised coding system that applies to all documents and records within the Hugh Wynter Fertility Management Unit – IVF Jamaica will be utilized for the period leading up to the First Stage Audit to be conducted by the National Certification Body of Jamaica (NCBJ) on September 13th, 2022 and further Audits.

TRAINING - M.Sc. COUNSELLING PROGRAMME

Objectives

The two major objectives of the Training Section of the Hugh Wynter Fertility Management Unit (HWFMU), the University of the West Indies during the reporting period were related to student matters and curriculum revision as follows:

- To ensure the throughput of the remaining five (5) students in the M.Sc. Counselling Programme where intake of new applicants was suspended since 2016.
- M.Sc. Counselling Programme has been revised and approved by the Faculty of Medical Science and the Board of Graduate Studies as of May 2022.
- Course conversion for online learning is in progress with intake of new postgraduate students in M.Sc. Counselling commencing January 1, 2023.

Student Matters

Enrollment

Five (5) students were enrolled in the programme, all of whom were working on their research project. One (1) student from Belize completed the programme, while ten (10) received extension of time to complete their studies.

Research Project

The Research Project COUN6301 was the only course offered during semesters 1 and 2, 2021-2022. Students had already completed all other programme courses including the practicum.

Three (3) students from Trinidad obtained ethical approval for their project proposals and were prepared to undertake field work. Two of these students have completed their project, while one student has been having difficulty obtaining approval from national health authorities in Trinidad.

Dr. Craig McNally, Senior Counsellor at the University of Technology and Dr Sharmaye Saunders, Head of the Belize Open Campus continue to provide technical support to the research process.

Graduation

The two major objectives of the Training Section of the Hugh Wynter Fertility Management Unit (HWFMU), the University of the West Indies during the reporting period were related to student matters and curriculum revision as follows:

- To ensure the throughput of the remaining five (5) students in the M.Sc. Counselling Programme which has had recruitment of new applicants been suspended since 2016.
- To complete the revision of the M.Sc. Counselling Programme by November 2021
- To obtain approval for the revised M.Sc. Counselling Programme for primarily online delivery during academic year 2022-2023.

Programme Approval

The revised M.Sc. Counselling Programme was approved by the Board of Graduate Studies in May 2022.

The M.Sc. Counselling curriculum was revised to introduce a new structure and modality aimed at positioning the programme as an excellent online educational product that targets both the Caribbean and the global community. The revised programme presents revised and new courses, suggested arrangements for practicum, research and internship, proposed

pedagogy and identified educational resource. Special focus areas in the revised programme include marriage and family, children and adolescents, crisis, trauma and rehabilitation as well as school counselling. The main goal of the proposed programme is to equip professional counselors to deliver high quality mental health services that meet the evolving psycho-emotional needs of clientele.

The new projected time for the start of the revised programme is semester 1 of academic year 2022-2023.

Programme Staff

The Training Section has been under the leadership of programme Officer Miss Elaine Jackson, with special support from the members of the Curriculum Working Group. Miss Sonelia Shepherd who has been employed on a part time basis, has been providing administrative support in conjunction with the administrative staff at the HWFMU.

Arrangements are currently being made for the employment of required staff to support the development and delivery of the revised M.Sc. Counselling programme.

PUBLICATIONS

Published Papers

- **Carroll K**, Pottinger AM, Bailey A, Watson T, Frederick S. Living with the Threat of Covid-19: Exploring the Psychological Impact of Covid-19 in Those who Conceived Through ART Versus Spontaneously, *Maternal and Child Health Journal*, 2022. doi: 10.1007/s10995-022-03537-9
- **Carroll K**, Pottinger AM, Pinkney J, Christie LR, Hamilton PI, Thompson MS. Fertility care expectations: what do PLHIV and health care providers in Jamaica know about assisted reproduction services for safe conception?, *AIDS Care*. 2022. doi: 10.1080/09540121.2021.2023729
- Sterling L, Harris LR, **Carroll K**. The Effects of Wireless Devices on Male Reproductive Health: A Literature Overview. *Revista Internacional de Andrología*. 2021, <https://doi.org/10.1016/j.androl.2020.10.004>.
- Harrison GM, Medley NM, **Carroll K**, Simms-Stewart DA, Wynter SH, Fletcher HM, Rattray CA. Mind the gap: primary care physicians and gynecologists' knowledge about menopause and their attitudes to hormone therapy use in Jamaica. 2021. *Menopause* doi: 10.1097/

Efforts to increase Publication

In an effort to re-energize research throughput the new director has assigned Dr. Michelle Bailey and Dr. Giselle Harison as the Chairpersons for the research arm of the Hugh Wynter Fertility Management Unit. In April 2022 this initiative was launched by having a guest lecture titled, "The FMS Translational Research Unit" that was presented by Professor Marvin Reid, Deputy Dean, Research, Faculty of Medical Sciences. This lecture focused on research mentorship and clinical and translational research. Monthly research meetings and a journal club were proposed as part of the continued improvement of this process. The target of two publications per individual in peer review journals as established by the UWI strategic plan was endorsed.

Dr Kelly Fletcher is preparing for submission to Resuscitation -Transport of The Critically Ill. She is currently interpreting data for recently completed study on PONV.

ALIGNMENT

MAJOR CONFERENCE / SEMINARS

- **Alexander Antoine.** Houston TechSPo "Digital Marketing" JW Marriott, Houston Galleria, Texas, May 26, 2022 – May 127, 2022
- **Black, Deon.** Atomicon 2021 Digital Marketing Conference was held at St Mary's Square, Gateshead in the United Kingdom on November 9, 2021.
- **Christie, Loxley.** American Society for Reproductive Medicine (ASRM) virtual 2021 Scientific Congress & Expo. Attended virtually on October 17- 20, 2021
- **Christie, Loxley.** UWI Perinatal Conference . Attended virtually on June 9-12, 2022
- **Christie, Loxley.** MAJ Scientific Symposium "Chronic Non-Communicable Diseases: A Refocus on the Forgotten Pandemic". Attended virtually on February 26-27, 2022
- **Christie, Loxley.** Merck & IVF Jamaica "Treatment Individualization for the Poor Prognosis Patient: The Hyper- and Hypo- Responder." Organizer & presenter at the Virtual event on June 28, 2022

- **Christie, Loxley.** ACOG (West Indies District) Conference Virtual. Attended virtually on July 10, 2022.
- **Everett, Denise.** American Society for Reproductive Medicine (ASRM) Virtual Scientific Congress & Expo. Attended virtually on October 17-20, 2021
- **Everett, Denise.** The 4th IVF Worldwide Online Congress. In Reproductive Medicine. Attended virtually between October 1-3, 2021
- **Everett, Denise.** KPIs Keep plodding indefinitely or keep performing impeccably 13 Online Symposium. Intuitive Embryology. Attended virtually on September 21, 2021
- **Harriott, John.** American Society for Reproductive Medicine (ASRM) virtual 2021 Scientific Congress & Expo. Attended virtually on October 17- 20, 2021
- **Harriott, John.** Merck & IVF Jamaica "Treatment Individualization for the Poor Prognosis Patient: The Hyper- And Hypo- Responder." Organizer & presenter at the Virtual event on June 28, 2022
- **Frederick, Sharifa.** International Federation of Fertility Societies 24th world conference held on April 4-7 2022
- **Frederick, Sharifa.** The 21st Annual Perinatal Conference held on February 27th 2022. Chaired session 6
- **Walters, Yvonne.** American Society for Reproductive Medicine (ASRM), The 77th Scientific Congress and Expo Virtual Conference held October 17 – 20, 2021.
- **Walters Yvonne.** European Society of Human Reproduction and Embryology (ESHRE). The 37th Annual Meeting. Virtual Conference held June 26 – July 1, 2021.

PAPERS PRESENTED AT ACADEMIC CONFERENCES AND SEMINARS

- **Frederick S.** The association of general practitioners of Jamaica- Medimpex ethics online webinar July 28 2022. Presentation was made on "An update on contraceptives, a fertility specialists perspective".
- **Frederick S, Carroll K.** Intrauterine insemination (IUI) step-by-step. Victoria Jubilee Hospital (VJH), 2-Day Hybrid Symposium (September 2022)
- **Harriott J.** Metformin in Pregnancy. 21st Annual Perinatal Conference themed "updates in perinatology" (February 26-27, 2022)
- **Harriott J.** Endometriosis and Infertility. The Medical Association of

the Bahamas 50th Virtual annual Conference theme (April 2-3,2022) themed “continually working together for a healthier Bahamas”

- Pinkney J, **Carroll K**, Bryan L, Witter G, Ashour D, Shebl F, Hyle E, Bogart L, Ojikutu B. COVID-19 vaccine uptake, vaccine hesitancy and medical mistrust among reproductive-aged women in Jamaica. Con-nors BRI 2022 (May 2022). <https://poster.bwh.harvard.edu/jodian-pinkney-md/>
- Sterling L, Harris L, **Carroll K**. Wireless Device use and fertility in Jamaican Males. 12th Annual National Health Research Virtual Conference, Ministry of Health and Wellness (November 2021). NHRC_21_P9.

PUBLIC SERVICE

DEPARTMENTAL LEVEL

Endometriosis Month 2022

Radio Interviews

- Dr John Harriott (HWFMU)-March 12- Endometriosis and infertility (RJR interview)

In partnership with the Unit’s long standing relation stakeholder - BASE Foundation the Consultants participated in a series of radio interviews on KOOL 103 FM for the month of March that commemorated Endometriosis Awareness Month. The schedule was as follows:

- Mrs. Shauna Fuller (BASE) on March 3- Endometriosis: It’s ok to talk... period
- Dr Giselle Harrison (HWFMU) - March 10- PCOS vs. Endometriosis: What’s the Difference?
- Dr Loxley Christie (HWFMU) - March 17- Endo and fertility explained
- Dr Michelle Bailey (HWFMU) - March 24- Treating Endometriosis
- Dr Sharifa Frederick (HWFMU) - March 31- The emotional effects of Endo

Social Media Outreach

In addition to the radio interviews, members of staff who assisted in bringing awareness to Endometriosis by participating in a photo-shoot and providing personal content on Endometriosis for the Unit’s social

BASE FOUNDATION March 2022

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0893-3200/04/\$12.00 DOI: 10.1037/0893-3200.18.4.575



THE TEAM THAT CARES!

RAISING AWARENESS TOGETHER



BabySentry Workshop

On March 31, 2022, A BabySentry Workshop was conducted in the conference room of the HWFMU. The IVF Jamaica staff were re-trained on how to use the platform.

INDIVIDUAL LEVEL

Dr John Harriott

- Vice President CAGES (2018-current): Outreach training to Obstetricians and Gynaecologists at Mandeville Regional Hospital and Falmouth Public General Hospital
- Mentorship of medical student requiring remedial training in collaboration with Food for the Poor
- Medical Director IVF-JAMAICA (October 1, 2021- January 31, 2022)
- Recommended consultation with Dr David Mortimer of Oozoa, Canada to provide technical support to improve the IVF laboratory performance and pregnancy success rates. Supervised and provided technical support for the retooling and upgrade of equipment in the IVF laboratory. Clinical pregnancy rates are now at 30% following the implementation and maintenance of total quality improvement in the IVF laboratory.
- ISO 9001:2015 Project Manager (July 1, 2022 - August 31, 2022): Established and implemented a quality management system for HWF-MU IVF-Jamaica. Lead internal auditor for the annual internal audit cycle.
- Service Provider, Food for the Poor , Jamaica

Dr Michelle Bailey

- Educating the Public on the impact of Endometriosis in association with the BASE foundation on "Smile Jamaica Its Morning Time" television show and "Kool 97FM" radio platform – March 2022.

Dr. Loxley Christie

- Member, The UWI Ethics Committee
- Mrs. Veronica Forbes-Blake
- Member, Jamaica Association of Administrative Professionals
- Member, Association of Caribbean Higher Education Administrators (ACHEA)
- Mrs. Ileen Gill
- Member, Jamaica Association of Administrative Professionals

Ms. Deon Black

- Member, Toastmaster Pacesetters Club
- Member, Rotary Club of New Kingston (RCNK)
- Assisted the in the RCNK's team at the RCNK Covid-19 Vaccination

Blitz and Health Fair held at Constant Spring Primary & Junior High School held on November 20, 2021

- Presenter at the RCNK Vocational Service and Ethics Award Ceremony held on April 29, 2022

Nurse Yvonne Walters

- Vivir Bien Medical Centre (2022). Community Health Fair. Participated in the screening, health education and counselling of patients.
- Church of God of Prophecy Couples' Group (2021). Presentation via Zoom, "Dealing with Infertility." Member, Jamaican Psychological Society' Nursing Council of Jamaica
- Dr Kamali Carroll
- Member, The European Society of Reproduction and Embryology (ESRE)
- Member, The American Society of Reproductive Medicine (ASRM)

Miss Elaine Jackson

- Youth Mentorship and Support
- Associate Pastor and Counsellor at the New Wine Tabernacle Church - Kingston
- Director of the United in Worship and in Song (UIWAIS) Worship Team
- Executive Board member of the National Intercessory Prayer Network of Jamaica / Prayer Council of the Caribbean (NIPNOJ/P-COC)

Mr. Alexander Antoine

- Member of the Jamaica Athletics Administration Association

Public Service events below:

- Boys and Girls Championship March 2022
- Carifta Trials and Championship April 2022
- Senior Championship for World Championship qualifiers June 2022
- Junior Championship for World-U20 Championship qualifiers June 2022

AGILITY

INCOME GENERATION

Clinical Section

The income statement for the period under review is as follows:

	2020-2021	2021-2022	Changes over the period
Income /Revenue Account	\$276,682,157.16	\$325,055,017.56	17%
Staff costs	\$64,108,651.80	\$71,819,333.47	
Departmental Controllable	\$162,399,178.83	\$199,080,239.27	
Departmental Non-Controllable	\$16,050,575.78	\$11,511,904.13	
Total expenses	\$242,558,406.41	\$282,411,476.87	16%
Net Revenue minus (labour plus expenses plus transfer)	\$34,123,750.75	\$42,643,540.69	
Commitments	\$11,834,835.17	\$6,745,444.69	
Net Profit	\$45,958,585.92	\$49,388,985.38	7%

The income generated by the HWFMU for the period August 1, 2021 to July 31, 2022 was \$ 49,388,985.38. There was a 17% increase in revenue from financial year 2020-2021 to year 2021-2022 while expenditure increased by 16% for the same period. Overall, the net income of the HWFMU increased by 7% from financial year 2020-2021 to year 2021-2022.

STAFF ACCOMPLISHMENTS

Walters, Yvonne. The National Family Planning Board (NFPB), Provider Initiated Training and Counselling Programme, September 20 -23, 2021. Kingston, Jamaica. Certificate of Participation

ONLINE PROMOTION

The HWFMU's digital media space has been gaining traction and generating interest and clients in the assisted conception, family planning and minimally invasive services of the Unit resulting in increased consultation. This has contributed to the improved financial health of the University.