



MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCE

DIRECTORATE OF PLANNING AND DEVELOPMENT

ANNUAL REPORT FOR 2012/2013

MARCH, 2014



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List of abbreviations

AFRINIC	African Network Information Centre
AIDS	Acquired Immunodeficiency Syndrome
APHFTA	Association of Private Health Facilities
BBC	British Broadcasting Communication
BMLS	Bachelor of Medical Laboratory Sciences
BOQ	Bill of Quantities
B.Pharm	Bachelor of Pharmacy
BSc	Bachelor of Science
BScN	Bachelor of Science in Nursing
BSC RTT	Bachelor of Science in Radiation Therapy Technology
CCTV	Closed Circuit Television
CHPE	Centre for Health Professions Education
CMS	Content Management System
CPL	Central Pathology Laboratory
DAWASCO	Dar es Salaam Water and Sewerage Corporation
DCEPD	Directorate of Continuing Education and Professional Development
DRP	Director of Research and Publication
DDS	Doctor of Dental Surgery
DHCP	Dynamic Host Configuration Protocol
DICT	Directorate of Information Communication Technology
DLS	Directorate of Library Services
DNS	Domain Name Server
DOS	Dean of Students
DUE	Director of Undergraduate Education

DVC	Deputy Vice Chancellor
EDCF	Economic Development Corporation Fund
HEI	Higher Education Institution
HESLB	Higher Education Students Loans Board
HIV	Human Immunodeficiency Virus
HRH	Human Resource for Health
IAHS	Institute of Allied Health Sciences
ICT	Information Communication Technology
IEARDA	International Extramural Associates Research Development Award
IMTU	International Medical and Technological University
IP	Internet Protocol
IRIM	Initiative on Research and Innovation Management
IS	Information System
ISP	Internet Service Provider
IT	Information and Technologies
ITM	Institute of Traditional Medicine
IUCEA	Inter-University Council of East Africa
KCMC	Kilimanjaro Christian Medical College
LAN	Local Area Network
MD	Doctor of Medicine
MDGS	Mellennium Development Goals
MMed	Master of Medicine
MPharm	Master of Pharmacy
MNH	Muhimbili National Hospital
MPL	Multipurpose Laboratory

MoH&SW	Ministry of Health and Social Welfare
MoLHHSD	Ministry of Lands, Housing and Human Settlement Development
MoEVT	Ministry of Education and Vocational Training
MUHAS	Muhimbili University of Health and Allied Sciences
MUHASSO	Muhimbili University of Health and Allied Sciences Student organization
MUHIC	Muhimbili University Information Centre(MUHIC)
MSc	Master of Science
MWP	Muhombili Wellcome Programme
NIMR	National Institute of Medical Research
PFA	Planning Finance and Administration
PhD	Doctor of Philosophy
PI	Principal Investigator
PMU	Procurement Management Unit
SARIS	Student Academic Records Information System
Sida/SAREC	Swedish International Development Agency/Department for Research Cooperation
SOD	School of Dentistry
SPHSS	School of Public Health and Social Sciences
TACAIDS	Tanzania Commission for Aids
TAMSA	Tanzania Medical Students Association
TAN TRADE	Tanzania Trade Development Authority
TAPP	Tanzania AIDS Prevention Programme
TERNET	Tanzania Education and Research Network
TCU	Tanzania Commission of Universities
TFDA	Tanzania Food and Drug Authority

TTCL	Tanzania Tele Communication
TZ NGO	Tanzania Network Operators Group
UDOM	University of Dodoma
UDSM	University of Dar es Salaam
UPS	Uninterruptible Power Supply
USA	United State of America
USAID	United States Agency for International Development
UK	United Kingdom
UTP	Unshielded Twisted Pair
VC	Vice Chancellor
VoIP	Voice Over Internet Protocol
WHO	World Health Organization

Member of University Council

The Council members of Muhimbili University of Health and Allied Sciences who served during the year ended 30th June, 2013

SN	NAME	STATUS/TITLE
1.	Mr. Deogratius A. Ntukamazi-na	University Council Chairpeson
2.	Ms. Zarina Madabida	Vice Chairperson, University Alumnae
3.	Prof. E. Kaaya	Member, Vice Chancellor
4.	Prof. Rwekaza Mukandala	Member, CVCPT
5.	Dr. G. Mutayabarwa	Member, Director of Training, MoHSW
6.	Dr. M.S. Jiddawi	Member, Permanent Secretary, MoHSW, (Zanzibar Revolutionary Government)
7.	Dr. J. S. Mbwambo	Member, Assistant Director, Higher Learning, Mo-EVT
8.	Dr. Kebwe S. Kebwe	Member, National Assembly
9.	Hon. Rosweeter Kasilika	Member, National Assembly
10.	Ms. Irene Kasambala	Member, Ministry of Finance
11.	Prof. Veronica Mugoyela	Member, MUHAS Senate
12.	Dr. Ellison Simon	Member, MUHAS Senate
13.	Dr. M. Mchembe	Member, MUHAS Academic Staff Assembly
14.	Dr. F. Kahabuka	Member, Appointee of Gender Program
15.	Dr. M. R. Kazaura	Member, Appointee of Workers Trade
16.	Dr. M. Njelekela	Member, Executive Director, MNH

Vice Chancellor's Preface

The year 2012/2013 has been unique for the University setting its agenda for the next ten years through the development of the Institutional Corporate Strategic Plan (2014/2015 – 2023/2024). MUHAS also continued to implement activities stipulated in its ending Corporate Strategic Plan 2004/2005-202013/201 through the implementation of its Five Year Rolling Strategic Plan (FYRSP) 2009/2010 – 2013/2014 and the Unit specific FYRSPs. During the planning sessions progress reports of the implementation for both Corporate Strategic Plan and the FYRSPs were received and reviewed. Key strategic areas for institutional development were identified and formed the basis for the development of the new Corporate Strategic Plan and the FYRSP 2014/2015 – 2018/2019. The implementation of the new Corporate Strategic Plan and the FYRSPs will be initiated on 1st July 2014.

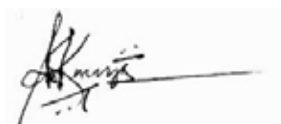
Significant progress has been made in the development of academic programmes, which have continued to grow in the last five years increasing from 72 in 2007/2008 to 87 in 2012/2013, which is an increase of 20.8% in academic programmes. This growth is based on the development of academic programmes, which are demand driven and according to the National needs of human resource for health. The increased academic programmes have also led to parallel increase in postgraduate student admission from 119 in 2008/2009 to 205 in 2012/2013 registering an increase of 72.3%. The performance of postgraduate students has also been remarkable leading to an increase of 43.6% in graduants compared to the year 2011/2012.

The student output for the various MUHAS programs including Diplomas, Undergraduate and Postgraduate degrees have been increasing over the years. During the reporting period MUHAS marked its sixth graduation ceremony and 655 graduants were awarded Diplomas and Degrees at undergraduate and postgraduate levels. While the Diploma and undergraduate output has been stable the postgraduate output has been increasing steadily over the years. Compared to the previous year 2011/2012 the number of female graduates decreases by 5%. However the overall proportion of female to the total number of graduants remained stable at 33%.

MUHAS as an institution of higher learning has a responsibility to contribute to the creation and advancement of knowledge through research. The university therefore has established both local and International research links and collaborations. Through these collaborations 46 links and 103 research projects have been developed and are ongoing. During the reporting period 137 papers were published in various international journals. MUHAS has therefore been in the forefront in carrying out research in the country, the results of which continue to guide the management, control and prevention of major diseases and to inform policy reviews and formulation.

During the reporting period significant progress was made in the pursuit of the Institutional vision to become a centre of excellence in the provision of its services and expansion to a more spacious area to create a conducive environment for teaching and learning. The construction of the basic infrastructure at Mloganzila Campus including, access roads, electricity and water system has already begun and is ongoing. The contractor for the construction of the University Medical Centre at Mloganzila has been procured and was handed over the site. Efforts to secure funding for other academic facilities have been initiated with the help of the government.

MUHAS acknowledges the strong support from dedicated staff, Government and development partners. We thank them and look forward to even greater support for construction of new campus at Mloganzila. On behalf of the MUHAS management, I wish to thank the Directorate of Planning and Development for production of this report.



Prof. Ephata E. Kaaya

Vice Chancellor

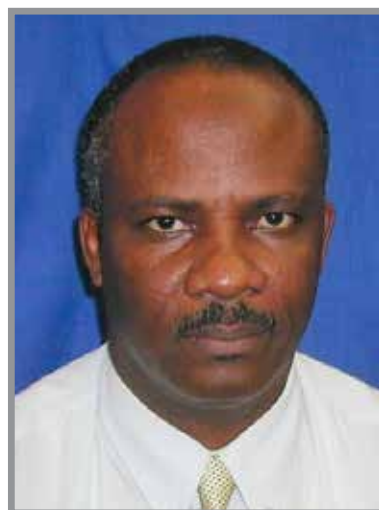
University Management



Prof. E. Kaaya
Vice Chancellor



Prof. E. Lyamuya
**Deputy Vice Chancellor – Academic
Research and Consultancy**



Prof. M. Bakari
**Deputy Vice Chancellor – Planning,
Finance and Administration**

1.0 Introduction

This is the sixth annual report of Muhimbili University of Health and Allied Sciences (MUHAS) since it came into being in March 2007. This report describes progress in the implementation of the annual planned activities as described in the MUHAS Strategic Plan for the period 2009/2010 – 2013/2014. It highlights progress made in the core functions of the University, student and human resources affairs, achievements and special events from schools, academic institutes, directorates and the Institute of Traditional Medicine. It summarizes the University research activities and programs, consultancy and public services undertaken by the various units.

In 2012/2013 the University made significant progress towards achievement of its vision of expanding to a more spacious facility with a state of the art University hospital. The MUHAS expansion to the new campus at Mloganzila is now becoming a reality, the initial construction of the University medical centre has been initiated, the contractor has already been procured and the University handed over the site in February, 2014.

MUHAS is also geared to provide quality, demand driven Continuing Professional Development through facilitation, regulation and promotion of Continuing Education and Professional Development for the health sector and beyond. To this end MUHAS is in the final stages of construction of the Centre for Health Professions Education (CHPE) to house various educational units.

2.0 Vision, Mission and Functions of the University

2.1 Vision

A university excelling in quality training of health professionals, research and public services with conducive learning and working environment.

2.2 Mission

To provide quality training, research and services in health and related fields for attainment of equitable socio-economic development for Tanzanian community and beyond.

2.3 The Functions

The functions and activities of the University are guided by the following components;

1. To provide in Tanzania a place of learning, education, research in health and allied sciences.
2. To be the main producer of key policy makers, experts and personnel in the health sector.
3. To be a catalyst in the health sector reforms through conducting relevant research and educating the public in health related issues
4. To prepare students through regular and professional courses in the fields of health and allied health Sciences for degrees, diplomas, certificates and other awards of the Muhimbili University of Health and Allied Sciences.
5. To contribute to the intellectual life of Tanzania, to act as a focal point for its cultural development and to be a centre for studies, service, and research pertaining to the interests of the people of Tanzania

2.4 Schools and Directorates

The University has five schools, two institutes, and eleven directorates as follows;

2.4.1 Schools

- (i) School of Medicine
- (ii) School of Dentistry
- (iii) School of Pharmacy
- (iv) School of Nursing
- (v) School of Public Health and Social Sciences

2.4.2 Institutes

- (i) Institute of Allied Health Sciences
- (ii) Institute of Traditional Medicine

2.4.3 Directorates

- (i) Directorate of Postgraduate Studies
- (ii) Directorate of Research and Publication
- (iii) Directorate of Information Communication and Technology
- (iv) Directorate of Planning and Development Muhimbili Campus
- (v) Directorate of Planning and Development Mloganzila Campus
- (vi) Directorate of Library Services
- (vii) Directorate of Continuing Education and Professional Development

- (viii) Directorate of Undergraduate Education
- (ix) Directorate of Quality Assurance

3.0 Teaching and Learning

3.1 Academic Programmes

MUHAS has a wide range of academic programmes and the best academic staff profiles in the field of Health and Allied Sciences in Tanzania. The University gives high priority to quality programmes development, delivery and students outcomes. Currently the University offers 10 Diploma programmes, 14 Undergraduate programmes and 63 Postgraduate programmes, which are offered in the five schools and two institutes.

3.2 Student Admissions

3.2.1 Diploma Programmes

During the reporting period 348 new students were admitted in various MUHAS diploma programs. Of these 147 (42%) were female and 201 (57.8%) were male students. The total enrolment was 950 diploma students; whereby 698 students were enrolled at the Muhimbili campus while 252 were enrolled in the other three campuses namely; KCMC, Mpwapwa and Tanga. Figure1 reflects admission trends for diploma students during the past five years. The growth trend has been fluctuating over the past five years reaching its peak in 2012/2013.

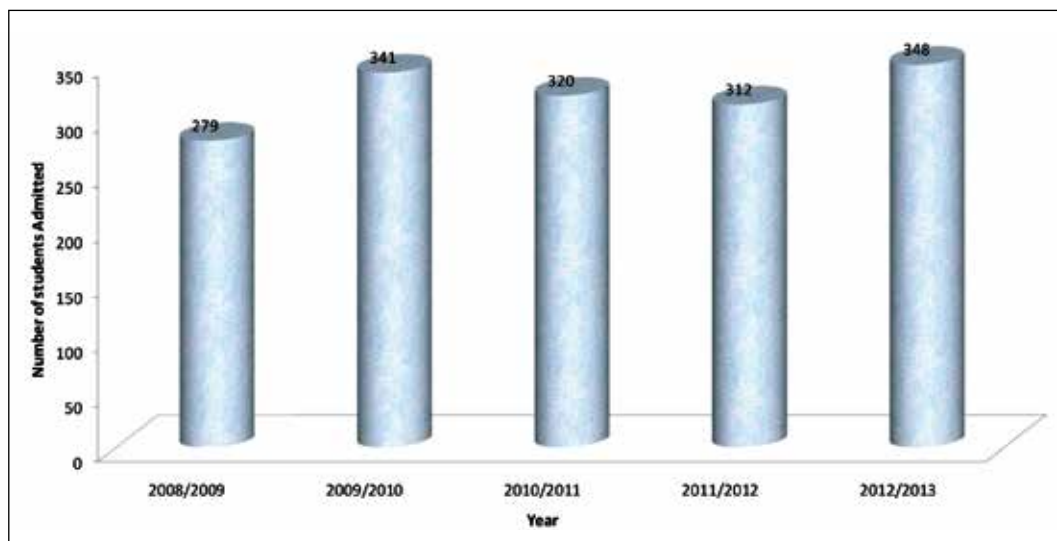


Figure 1: Trends in admission of diploma students during the past five years (2008/09 – 2012/2013)

3.2.2 Undergraduate degree programmess

In 2012/2013 academic year (Figure 2) the number of selected applicants into all undergraduate programmes were 482, which is a 13.2% increase compared to 426 students admitted during 2011/2012. For the past three years there has been a slight decrease in undergraduate admission. However, the growth pattern has been fluctuating. For instance during 2011/2012 there was an increase of 84(24.5%) compared to number of students admitted in the year 2010/2011 whereby 342 students were admitted. However, during the period under review the number of undergraduate student admitted increased to 482(13.1%) compared to the previous year where by 426 students were admitted.

MUHAS enrolled 1,771 undergraduate students in various programmes, in the 2012/2013 academic year; of these 553 (31.2%) were female students. The proportion of enrollment of female undergraduate students (31.2%) was lower compared to the proportion of enrolled female students during the previous year, which was 39.7%. As reported in the previous annual report the female students enrollment in undergraduate programs remains short of MUHAS target of 40% in its Five Years Rolling Strategic Plan (2009/2010 to 2013/2014). The University is therefore striving to design strategies that will encourage more female students to be enrolled into undergraduate programmes.

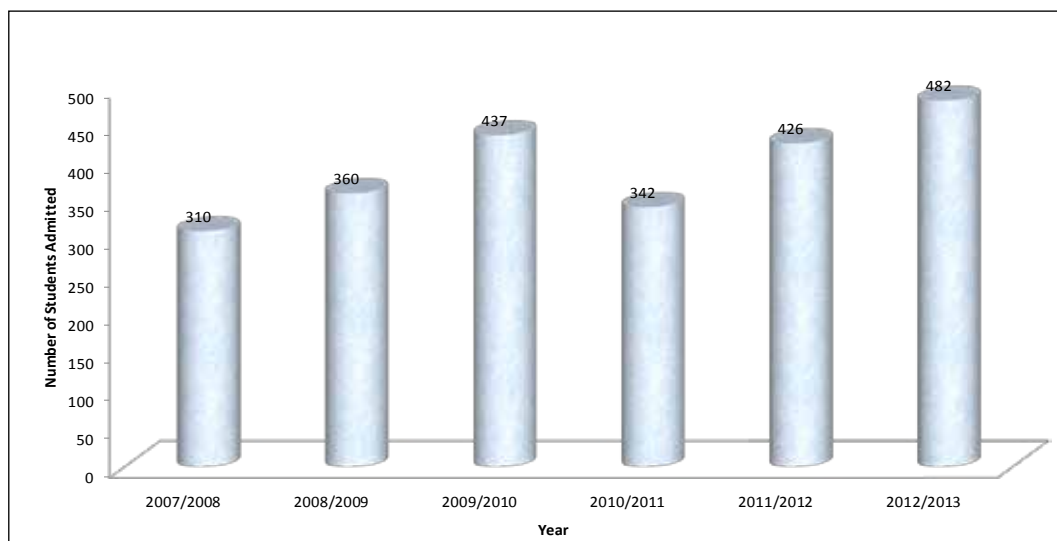


Figure 2: Trends in the admission of undergraduate students during the past six years 2007/2008 – 2012/2013

3.2.3 Postgraduate Programmes

During the reporting period 205 postgraduate students were admitted in various postgraduate programmes of which 126 were males, and 79 were females. A slight increase in enrolment rate of 10.2% was registered compared to the previous year (2011/2012) during which 186 students were admitted. However, for the past five years there has been a remarkable increase in number of postgraduate students admitted into various programmes, for example in 2008/2009, 119 postgraduate students were admitted compared to 205 students (72.3% increase) admitted in 2012/2013 (Figure 3).

The current postgraduate enrollment is 493 students; this is an increase of 10.0% compared to the previous year whereby 444 postgraduate students were enrolled. This increasing trend is due to establishment of new postgraduate programmes and, increased public awareness of the new established programmes. The main obstacle to enrolment for qualifying applicants is lack of sponsorship.

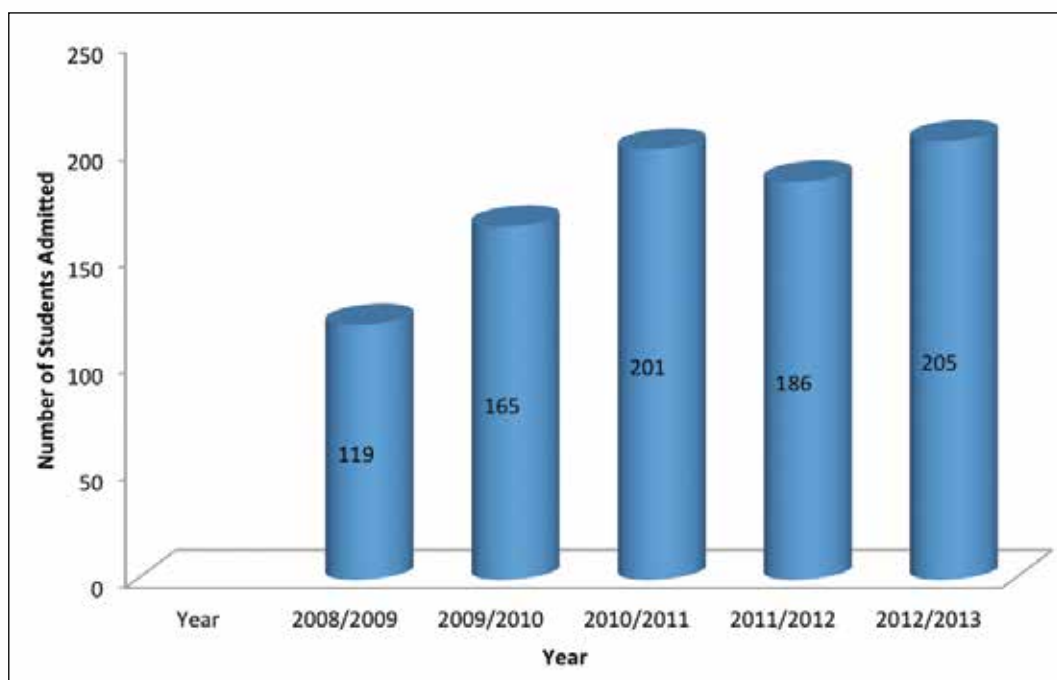


Figure 3: Trends in the admission of postgraduate students during the past five years (2008/2009 – 2012/2013)

3.3 Student Enrollment during the past five years (2008/2009 – 2012/2013)

3.3.1 Diploma Students

Enrollment of Diploma students registered increase during the reporting period whereby 950 diploma students were enrolled in various MUHAS diploma programmes compared to 736 students enrolled in the year 2008/2009. There has therefore been a 29.1% increase during the last five years. The current enrolment of diploma students at Muhimbili Campus is 698 of which 373 are males and 325 are females. This means that female students represent 46.6% of the total. At Muhimbili Campus the student enrollment in diploma programmes seem to be in line with the National agenda of gender balance (Figure 4).

3.3.2 Undergraduate Students

The number of students enrolled during 2012/2013 into all undergraduate programmes was 1771 with an increase of 33% compared to 1332 students enrolled in 2008/2009 (Figure 4). During the reporting period, 553(31.2%) of the total students enrolled were females showing an improvement compared to previous year's enrollment of 411(28%) female students (Figure 4).

3.3.3 Postgraduate Students

The number of postgraduate students has been consistently increasing from 2008/2009 to 2012/13. During the reporting period 473 students were enrolled in various postgraduate programs. Unlike undergraduate students the admissions of postgraduate students has been consistently low. However during the period under review there was a 129.6% increase in enrolment compared to the year 2008/2009 where 206 students were enrolled. This significant increase may be due to the increased awareness of the programmes and the popularity of newly introduced programmes. (Figure 4).

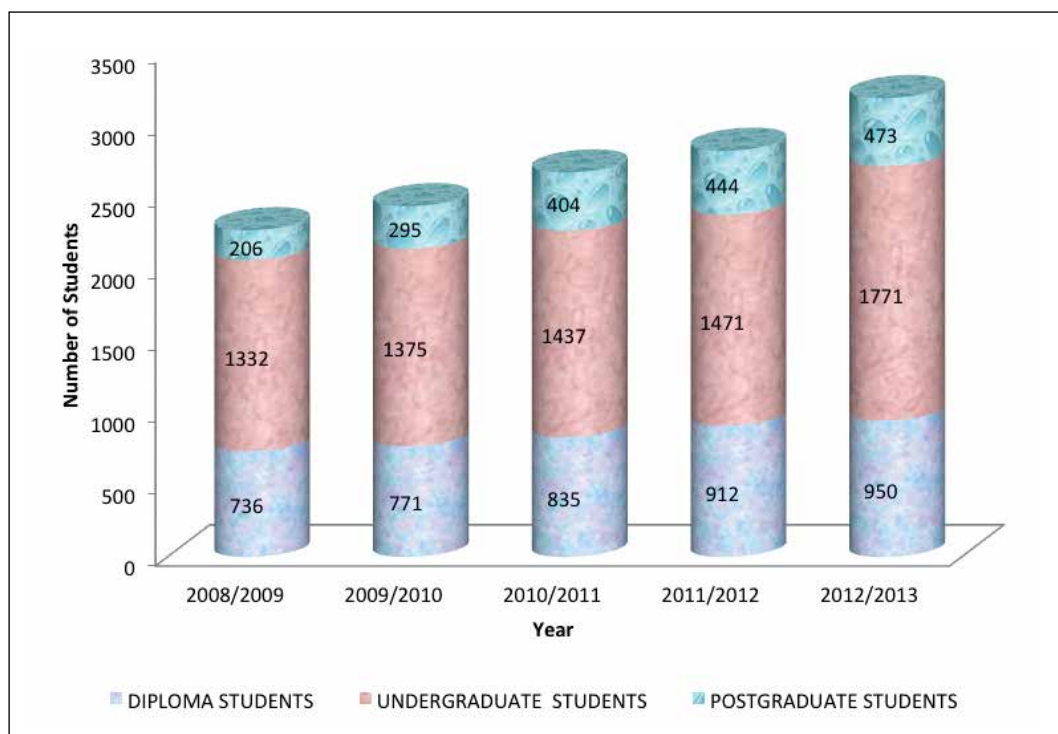


Figure 4: Trends of Enrolled Diploma, Undergraduate and Postgraduate Students; 2008/2009 – 2012/2013

3.4 Examinations Performance in 2012/2013

3.4.1 Diploma Programmes

Figure 5(a) shows the level of performance of diploma students who sat for examination during the reporting period. The results indicate that out of 986 students who sat for examination, 782 (79.3%) passed at first sitting. For those who did not pass at first sitting, 128 (13%) students were referred to do supplementary examinations, 4 (0.4%) students were discontinued, and examination results were withheld for 72 (7.3%). Compared to the previous year, 2011/2012 the students' pass rate during the reporting period slightly improved by 4.5%.

It should be noted that during the reporting period six (0.6%) students did not appear for examination because they either absconded or postponed studies.

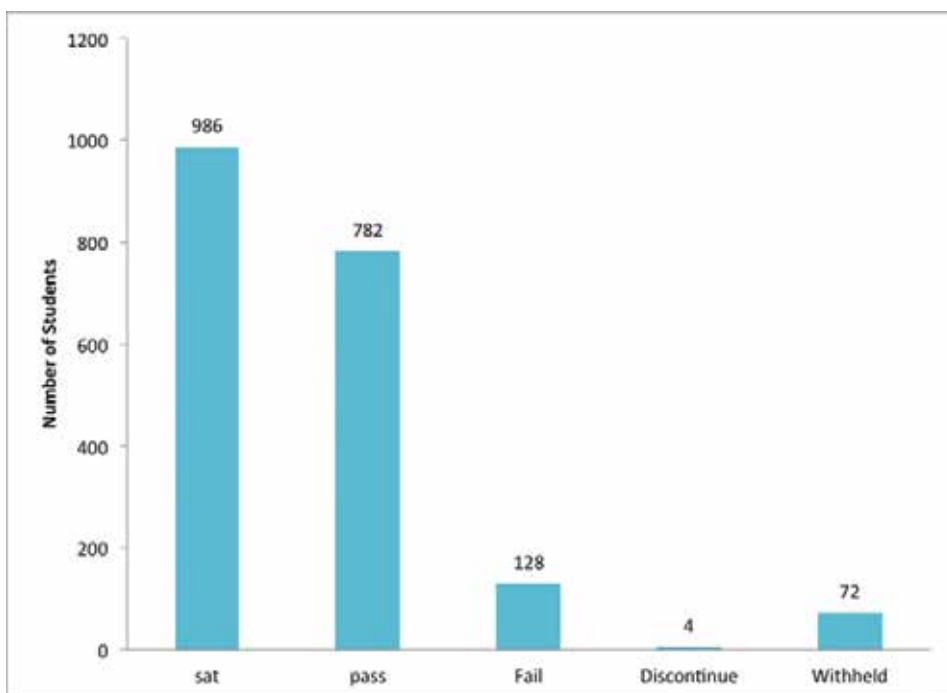


Figure 5(a): Diploma programmes Examination Performance (2012/2013).

3.4.2 Undergraduate Degree Programmes

In the academic year 2012/2013 one thousand three hundred and seventy five (**1375**) students in undergraduate degree programmes sat for examinations. The results indicate that, 939 (68.3%) passed at first sitting. Of those who did not pass during the first sitting 407(29.6%) students failed and were referred to do supplementary examinations; six (6) students were discontinued on academic grounds and twenty three (23) students had incomplete results. (Figure 5(b)).

During the year under review 38 students did not appear for examination of which five (5) students postponed their studies due to various reasons and five (5) students were discontinued from studies on abscondement grounds. Twenty eight (28) students were suspended on disciplinary grounds.

During the period under review 6 (0.4%) students were discontinued, compared to the previous year (2011/2012) where 4(0.3%) students were discontinued.

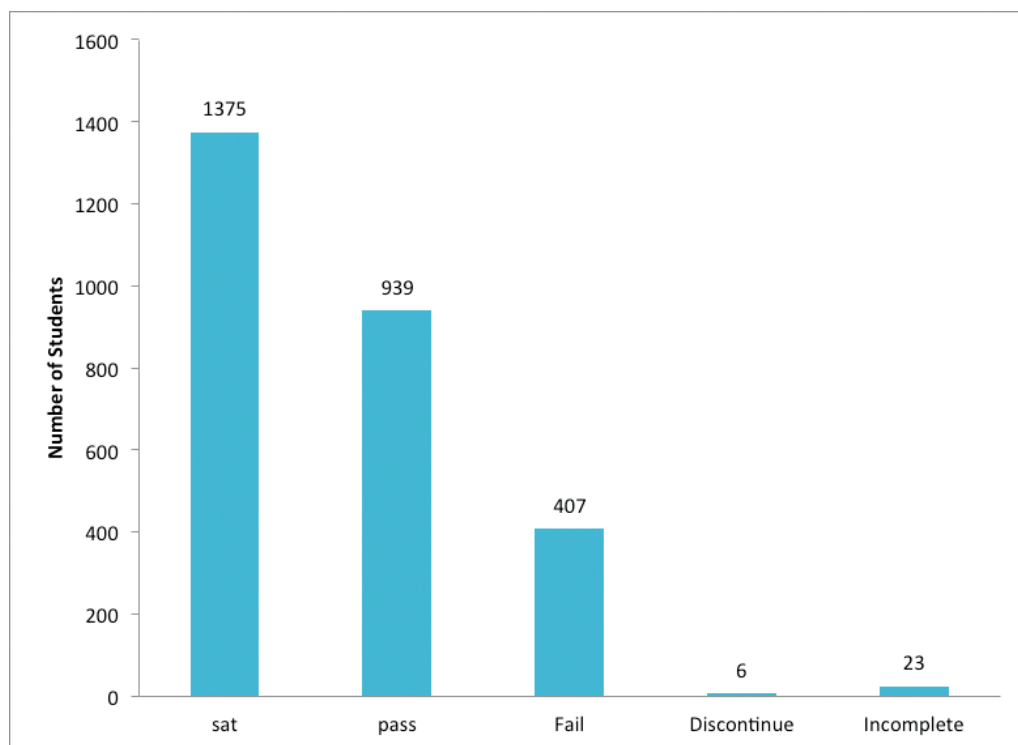


Figure 5(b): Undergraduate programmes Examination Performance (2012/2013).

3.4.3 Postgraduate Programmes

During the reporting period (424) postgraduate students sat for and completed examinations. The results show that 334(78.8%) students passed at first sitting while 82(19.3%) students were referred to do supplementary examinations. Compared to the previous year in which the pass rate was 63.9%, in the year 2012/2013 there was an improvement in the overall performance by 14.9%. During the period under review there were no students discontinued. However, the results of 3(0.7%) students were withheld (Figure 5 (c)).

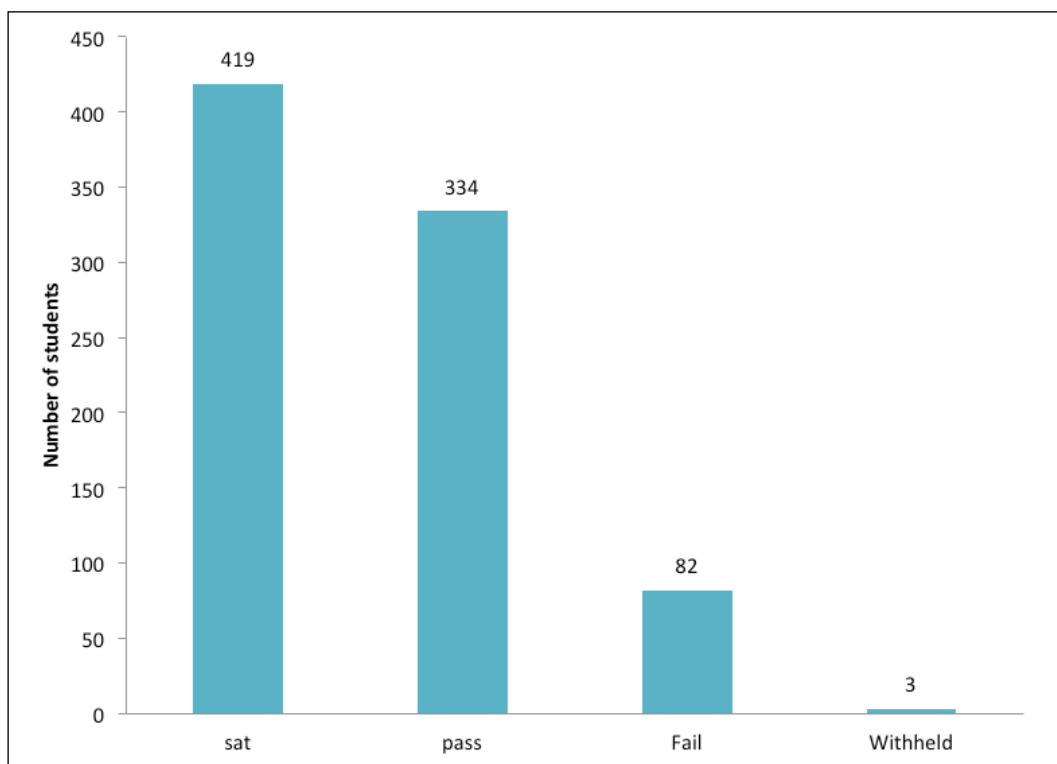


Figure 5(c): Postgraduate programmes Examination Performance (2012/2013).

3.5 Student Output

3.5.1 Diploma Programs

In the academic year 2012/2013, two hundred and thirty one (231) diploma students completed their studies and the number of qualifying candidates remained constant compared to the year 2011/2012. Figure6 below shows the trend of students awarded diploma and certificates over the past five years (2008/09- 2012/13). There has been a gradual increase in the pattern of the number of qualifying candidates. For instance in the year 2008/2009, 206 students graduated while in the year 2009/2010 students output decreased to 193. However, there was a slight increase in the year 2010/2011 where MUHAS produced 202 diploma graduates. Compared to the last four years whereonly 193 graduates were produced, during the reporting period MUHAS produced 38 (19.7%) more graduates.

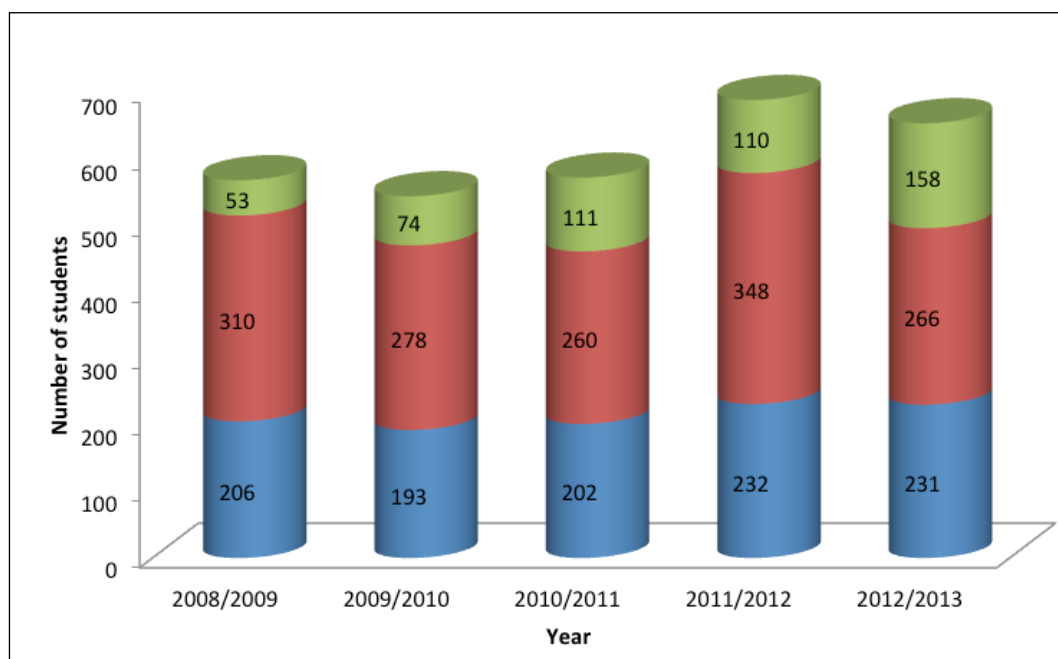


Figure 6: Trend in the output of Diploma undergraduate and postgraduate programmes during the past five years (2008/2009 – 2012/2013).

3.5.2 Undergraduate Degree Programmes

The number of graduates during the reporting period (2012/2013) decreased to 266 from 348 in the previous year. Overall as shown in figure 3.6, there has been no consistent increase in graduands from the undergraduate programmes up to the year 2012/2013. Hence the number of students who graduated in 2008/09 and 2012/13 were between 260 and 348. This trend reflects the rate of admission of undergraduates at the university.

3.5.3 Postgraduate Programmes

A total of 158 postgraduate students graduated in 2012/2013 academic year compared to 110 students in 2011/2012. This significant increase of 43.6% in postgraduate student output is attributable to the increased number of new academic programmes as well as student admission and retention.

3.6 Graduation Ceremony 2012

MUHAS marked its 6th graduation ceremony on 8th December 2012 during which a total of 655 graduands were awarded degrees and diplomas as follows: Two hundred thirty one (231) diplomas, 266 first degrees in MD, DDS, B.Pharm, BSc. Nursing, BScN Midwifery, BScN Management, BSc. Environmental Health Sciences, BMLS

and BSc. RTT. With regard to postgraduate students, 158 were awarded degrees as follows: - Master of Medicine (81), Master of Science (15), Master of Arts in Health Policy and Management (10), Master of Pharmacy (5), Master of Dentistry (5) and Master of Public Health (30). During the reporting period the number of female graduates was 218 (33.2%) compared to the previous year whereby 229(33.7%) female students graduated. There was therefore a slight decrease of 11(0.5%) female graduates (Figure7).

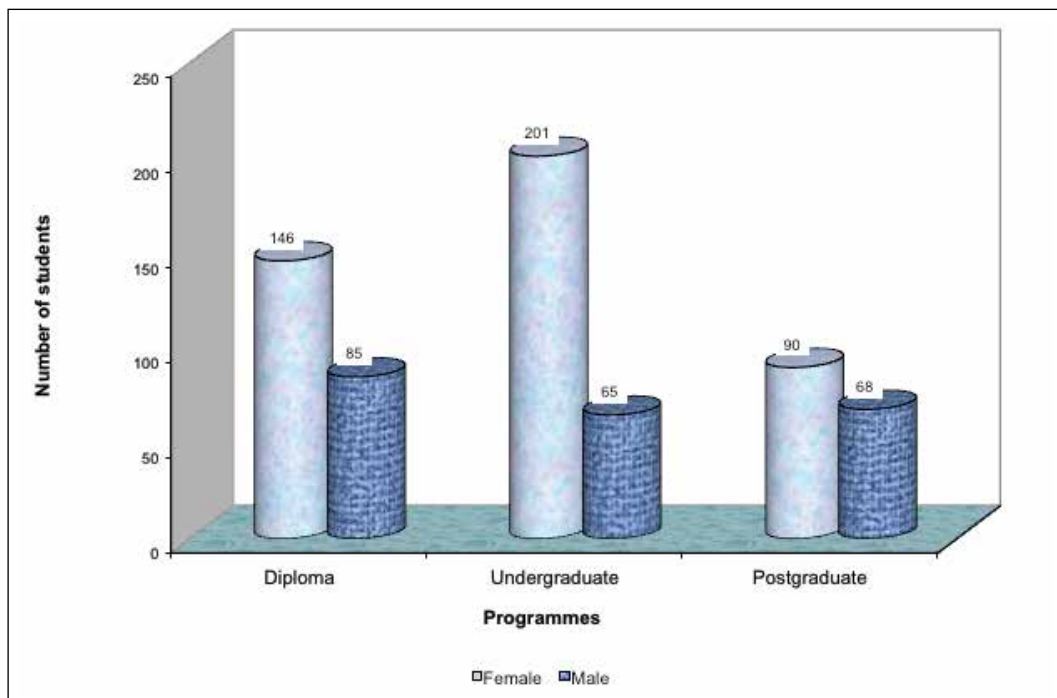


Figure 7: Diploma, undergraduate and postgraduate graduants by sex (2012 graduation ceremony)

4.0 Department of Human Resources Management and Administration

4.1 Introduction.

In order to strengthen human resource recruitment and performance, the university plans to upgrade the unit to a Directorate of Human Resources Management and Administration to meet Human Resources needs and its administration. This Department strives to promote University performance through effective and efficient Administration of the human resources functions. It strives to maintain a working environment that encourages employees to achieve the University goals as well as the individual professional goals. The Department also has a role of exploiting the full potential of available work force as means of realizing the University vision and mission.



Mr. A. Nnko

4.2 Staff Establishment and Recruitment.

During the years under review the University recruited 36 new staff, 33 being Academic staff and 3 administrative staff. Compared to the previous year, during which 51 new staff were recruited, there was therefore a decrease of 4.2% in staff recruitment. The limited number of employment permits received from Public Service Management caused this reduction in the recruitment of administrative and technical staff.

4.3 Staff Training and Development.

The University continued to ensure that competent, functional, relevant and adequate human resources with appropriate skills mix are in place. In recognition of the importance of staff training and development, the University continued to train its employees both locally and internationally and to encourage and support individual professional development efforts. In this respect a number of employees were trained in short courses and others attended long-term training such as diploma, undergraduate and postgraduate programmes. During the reporting period a total of 60 staff were attending long-term training while 16 staff completed their studies as shown in Table 1.

Table 1: Staff Training and Development in 2012/2013

Cadre S/N			Gender	PhD	Masters	(Post doc/ Degree)	Total
Academic Staff	1	Staff on Training	Male	21	5	1	27
			Female	26	3	0	19
	2	Staff completed training	Male	3	2	0	5
			Female	2	1	2	5
Admin & Technical Staff	1	Staff on Training	Male	0	1	0	1
			Female	3	4	6	13
	2	Staff completed training	Male	0	0	0	0
			Female	2	0	4	6
Grand Total				47	16	13	76

In the year 2012/2013 there was an improvement in staff development compared to the previous year where only eight (8) staff completed their training including five (5) PhDs and three (3) master degrees..

4.4 Promotions.

During the reporting period, thirteen (13) academic staff were promoted to different levels as shown in table 4.2. During this period promotions decreased from 24 in 2011 to 13 employees in 2012.

Table 2: Academic Staff Promotions 2011-2013

Cadre	Year	From Tu- torial As- sistant to Assistant Lecturer	From Assistant Lecturer to Lectur- er	From Lecturer to Senior Lecturer	From Senior Lecturer to Associate Professor	From Asso- ciate Pro- fessor to Professor.	Total
Academ- ic Staff	2011	4	7	7	5	1	24
	2012	2	4	7	0	0	13

In the year 2012 no faculty was promoted to the rank of Professor from Associate Professor and from Senior Lecturer to Associate Professor.

Also promotion for administrative and technical staff decreased dramatically from 57 employees in 2011 to 7 employees in 2012. The reason for this decrease in the number of promotions was mainly due to a number of staff being re-categorized to higher posts following an approval of the new scheme of service for administrative and technical staff which was operationalize from July 2012.

4.5 Retirement.

During the reporting period a total number of 24 staff retired after reaching the compulsory age for retirement. Of these, 12 were academic staff and the other 12 were administrative and technical staff. This is contrary to the previous year where a total of 22 staff retired and only nine (9) were academic staff. During the period under review MUHAS received ten (10) replacement permits and only nine (9) staff were employed including; five (5) academic staff and four (4) administrative staff.

4.6 Staff Turnover and Retention.

In the reporting period, a total of 15 staff left employment through resignation, termination of or end of contracts. The ratio of staff turnover was 2.7%, which is slightly lower, compared to the previous year, which was 2.8%.

Overall staff retention was good during the reporting period where 97.4% staff were retained compared to 97.2% in the previous year.

5.0 Directorate of Quality Assurance

5.1 Introduction



Dr. G.H. Lyena

Quality assurance (QA) in university activities is an important element of ensuring that the University is delivering according to stakeholders' expectations. It is a mechanism of holding higher education institutions (HEI) accountable to their activities. In Tanzania, quality assurance at the university level has been in place since 1997, when the Inter-University Council of East Africa (IUCEA) began to harmonize universities. The main aim of harmonization was to ensure competencies acquired in Universities were similar to allow cross-border mobility of graduates.

During the year under review the University Council approved the new university organogram and created a Directorate of QA. The Unit of Quality assurance at MUHAS was officially initiated in late October 2012 with an overall goal of overseeing quality assurance activities at the University. Later on in June 2013 the university Council upgraded it to a directorate reporting to the Vice Chancellor. The directorate is mandated to implement as well as assess quality of the core functions of the university namely; teaching, research and public service/consultancy.

5.2 Activities Implemented during 2012/2013

Since its initiation, the Directorate of quality assurance has conducted several activities within the university:-

1. Staff participated in 2 workshops to familiarize themselves with the concept of quality assurance.
2. Two self-assessment activities have been initiated at the University:-
 - a. Self - assessment of the BSc Nursing (equivalent) program and
 - b. Self - assessment of the institution ready for external assessment before re- accreditation.
3. A workshop for 14 academic members of staff from different schools with the support of the One Health Central and East Africa project (OHCEA) was conducted
4. Development of student forms for evaluation of teaching and courses
5. Assessment of administration of University examinations in July 2013.
6. Support units quality assessment audits
7. The Directorate collected information on different activities carried out at the University, in order to understand the level of quality adherence in teaching and service delivery to the public.

6.0 Directorate of Postgraduate Studies

6.1 Introduction



Prof. O. Ngassapa

The Directorate of Postgraduate Studies (DPCS) has the mandate of coordinating all matters related to provision of postgraduate training at the MUHAS. It is responsible for promoting, marketing and monitoring the conduct of postgraduate training in` collaboration with schools, institutes and other directorates in the University. The Directorate is manned by one director, one administrative officer, one secretary and one office attendant. During the reporting period the Directorate processed admissions of postgraduate student into various postgraduate programmes as detailed in the following paragraphs.

6.2 Student Enrolment

Doctor of Philosophy (PhD)

During the academic year 2012/2013 the Directorate of Postgraduate Studies had a total of 40 PhD students enrolled. Out of these 19 were females.

Masters Students enrolment (By Coursework and Dissertation)

During academic year 2012/2013 a total number of 493 postgraduate students were enrolled into five Schools and one Institute as indicated in table 6.1.Of these 27.9% were females. Compared to the previous year there was an increase of 49(9.9%) students registered at MUHAS.

Table 3 Summary of enrolment of Postgraduate students for Academic Year 2012/2013

School	Male	Female	Total
Medicine	175	95	270
Pharmacy	20	13	33
Dentistry	19	0	19
Nursing	7	9	16
Public Health and Social Sciences	92	54	146
ITM	2	3	5
Sub Total	315	174	489
Cross cutting programmes			
Master of Sciences by Research	2	2	4
G/Total	317	176	493

6.3 Students Research Proposal

The Directorate in collaboration with the DRP reviewed students' research proposals for ethical clearance and funding. A total of 218 proposals submitted by M. Med, M. Pharm, M. Dent, MSc, MA and MPH students were processed.

6.4 Post Graduate Selection.

The Joint Postgraduate Selection Committee under the Directorate, recommended a total of 329 applicants for admission into various postgraduate programmes for the academic year.

Table 4: Summary of total number and applicants recommended to join programmes at MUHAS in 2012/2013

School	Recommended Applicants	Non recommended Applicants	Total Applicants
Medicine	119	16	135
Pharmacy	10	2	12
Dentistry	9	0	9
Nursing	16	2	18
Public Health and Social Sciences	172	38	210
ITM	3	1	4
Total	329	59	388

The Joint selection committee also recommended re-advertisement of new programmes and the low subscribed programmes. The new programmes advertised MSc in Environmental and Occupational Health.

6.5 Curriculum Revision

The directorate of Postgraduate studies started implementation of the competency based curricular for Postgraduate students. The Teaching Materials and Education course was offered for the first time for all postgraduate students. Working with schools the Directorate engaged in continuous programmes improvement process.

7.0 Directorate of Research and Publications

7.1 Introduction



Prof. M. Moshi

The vision of the Directorate of Research and Publications (DRP) is to be a leading center for coordinating and regulating quality health and related research that responds to National, Regional and global challenges. The mission of the Directorate is to provide a conducive research environment at the University, promoting the conduct of research that is in-line with the National Research agenda and to enhance the University capacity to advance frontiers of knowledge.

DRP Annual Report contains information about the efforts made in the specified period to fulfill its vision and mission in achieving the set goals and objectives. The basic function of the DRP is to coordinate and regulate all matters related to research and publications at MUHAS as guided by the Directorate's Five Year Rolling Strategic plan of 2012/13- 2017/18.

7.2 Proposal Review Process

The Directorate coordinates the review of proposals submitted by faculty and students through the Senate Research and Publications Committee which in essence is the Institutional Review Board (IRB) and its Expedited Review Sub-committee. It is also responsible for regulating and monitoring progress of clinical trials implemented by faculty and collaborators at the University.

In total 275 proposals were reviewed during the reporting period, which included postgraduate student proposals. Below is a summary of the requests submitted for review:-

Table 5: Summary of proposals submitted for review

Type of Submission		Number
Students	Postgraduates	218
	Electives	7
	Undergraduates	1
Others	Requests for Ethical Clearance	18
	Protocol Amendments	14
	Requests for funding	17
	Total	275

7.3 DRP Human Resources Development

The DRP continued to support faculty to pursue postgraduate programmes whereby 7 registered for PhD and 5 registered for MSc programmes in various disciplines. The Directorate awarded fellowships to 5 people to study Masters in Bioethics at the University of Pennsylvania. DRP supported 3 faculty to attend regional and international conferences to present research findings as one way of supporting dissemination.

In addition MUHAS gave support to Tanzanians employed by MUHAS and other Universities and Research Institutions in the country to pursue PhD training. Sponsorship also awarded to faculty and Staff to attend Regional and International workshops:

Ms Mariam Masandika, Ms Daima Bukini, and Ms Judith Shayo attended Masters in Bioethics training at Pennsylvania University from August 2012 to August 2013 and all of them successfully completed their studies and have already reported back to the University.

Ms Nana Nachene Mgimwa attended a two weeks training in Managing Research Collaborations at Harvard University Global Health and Population Department from 24th April to 8th May 2013.

7.4 Research Funding

Research conducted at the University continued to be largely funded by foreign donors. The University had 78 established research partnerships with foreign institutions in addressing National health needs and priorities. These research partnerships received grants from different sponsor organization and institutions.

7.5 Publications Output

The number of dissertations and PhD theses produced increased from 111 in 2011 to 157 in the year 2012.

7.6 Research Dissemination

The directorate participated in the organization of the 1st MUHAS scientific conference held on 2nd to 4th May 2013. The conference was largely supported by the DRP through its Sida research capacity strengthening funds. The Directorate also participated in the 37th International Trade Fair Exhibitions held from 28th June to 8th July 2013. These fora are used by the University to showcase its functions and products to the Community.



Tanzania Vice President, Dr. Mohamed Gharib Bilal in a group photo with MUHAS Management and a section of participants during the 1st MUHAS Scientific Conference, held at Kunduchi Beach Hotel, Dar es Salaam.

7.7 Networking

Two training sessions in Research Administration and Grant Management were held in Nairobi and Zanzibar. The training was jointly conducted by MUHAS, The University of Nairobi and The Joint Clinical Research Center of Kampala Uganda. Participants came from Tanzania, Uganda, Kenya, Rwanda, Burundi, Ethiopia and Southern Sudan. The training was funded by the DRP using a Fogarty/EARDA grant through an Initiative on Research and Innovation Management (iRIM)

8.0 Directorate of Planning and Development – Muhimbili Campus

8.1 Introduction



Dr. D. Gasarasi

The Directorate of Planning and Development Muhimbili Campus has a corporate role at the University. The directorate is responsible for ensuring that all Schools and Directorates develop strategic plans in line with the University Corporate Plan. It is also responsible for monitoring and coordinating timely unit specific implementation of the FYRSP and reporting on progress of Implementation. During the year 2012/2013, the Directorate undertook a number of activities in fulfilment of its mandate as described below: -

8.2 Strategic Planning Activities

In October 2012 the Directorate organized a strategic planning workshop whose main objectives were to develop MUHAS Corporate Strategic Plan for the next 10 years (2014/2015 – 2023/2024). The progress report of implementation action for the 2004-2013 Corporate Strategic Plan was presented and achievements and challenges highlighted. The unit specific FYRSP (2008/2009 – 2013/2014) implementation reports were presented and the stakeholder identified and developed key strategic areas of the next Corporate Strategic Plan 2014/2015 –2023/2024.



Participants to the MUHAS Corporate Strategic Plan review workshop in a group photo with MUHAS Vice chancellor Prof. E. Kaaya

During the reporting period the Directorate coordinated the implementation of various developmental activities depending on the availability of funds; major Capital Development projects implemented were through funds obtained from Internally Generated sources and support from development partners. Through these financial sources the university was able to renovate/rehabilitate infrastructure for the following: -

- (i) Construction of CHPE building, which is in progress. Contractor has reached more than 75% of the total work.
- (ii) Major renovation of parasitology laboratories at Bagamoyo and Muhimbili initiated in the previous year completed and in use.
- (iii) Minor rehabilitation of the Undergraduate Cafeteria, which was initiated in the previous financial year continued.
- (iv) Completed installation of industrial gas cookers at Muhimbili student



CHPE construction development by December 2013

- (v) Minor renovation at Muhimbili campus hostel has been initiated. The Directorate coordinated minor renovation of MUHAS pavilion located at Mwalimu Nyerere Grounds and was used for the 37th International Trade Fair. Plans are underway to have permanent activities by the Institute of Traditional Medicine at the SabaSaba facility.
- (vi) Cleaning of sewage system from Muhimbili campus to DAWASCO main sewer
- (vii) Renovation of Dental store
- (viii) MPL power upgrading



Industrial gas cookers installed at Muhimbili student canteen

The table below shows the list of projects in a summary form which indicate the project title, Actual budget and actual amount paid so far as well as actual status of the project.

Table 6: List of Ongoing Projects at MUHAS

S/No	Description of the Project	Contract Sum	Amount Paid	Actual Status
1.	Proposed construction of CHPE building	3,887,032,710.65	2,655,012,931.49	ON PROGRESS 75% completed
2.	Proposed extension of SPHSS laboratory phase II	342,053,019.20	332,928,343.12	Completed
3.	Cleaning of sewage system from Muhimbili campus to DAWASCO main sewer	18,408,000/=	17,487,600.00	Completed
4.	Renovation of Muhimbili Hostels	69,000,000/=	69,000,000.00	Completed
5.	Renovation of SPHSS lab at Bagamoyo	27,894,037.70	21,000,000.00	Completed
6.	Renovation of Dental store	20,200,000/=	19,190,000.00	Completed
7.	MPL power upgrading	104,662,662.50	Nil	On progress 20% completed

8.3 Staff Affairs

Administrative Staff recruitment: Two staff (Drivers) left and joined another institution for greener pastures. To fill these vacant positions the University requested permit and recruited two replacement drivers.

Staff development: Permission was granted to one staff to attend a one-week short course on Project Management that was held in Kigali Rwanda.

8.4 Land Development

A Task Force for resource mobilization has been formed and one of the terms of reference for this committee is to develop ideas for investment into the MUHAS lands and marketing them to potential investors. Currently the Directorate is coordinating the development of a business plan for investment at the MUHAS plots located in Masaki

8.5 Marketing of the University Activities

During the reporting period the Directorate coordinated and participated in the 37th International Trade Fair held at TAN TRADE – Mwalimu Nyerere grounds from 28th June to 8th July 2013. The theme of the exhibition was “Expanding Business Horizon”. During exhibition MUHAS got an opportunity to display and promote various products and services offered by the University. Simple medical diagnostic services were provided including screening for sugar, malaria examination and dental check up were carried out. In addition during the entire period of trade fair, exhibitors were able to market MUHAS programmes as well as the envisaged MUHAS Medical Centre to be constructed at Mloganzila. MUHAS pavilion attracted many people including His Royal Majesty King Mswati of Swaziland who visited the pavilion accompanied by the Prime Minister of the United Republic of Tanzania Hon. Mizengo Peter Pinda.

In addition to that the Directorate of Planning coordinated the preparation and participated in the Higher Education Institutions exhibitions organized by TCU, which took place between 21st to 24th May 2013. The theme of the exhibition was “building a knowledgeable, Accountable and progressive Society through higher Education, Science and Technology”. The MUHAS pavilion attracted lots of people who were interested in the variety of items displayed Furthermore the Directorate of Planning coordinated the preparations and participated in the Academia – Private Partnership Forum and Exhibitions, which took place from 23rd – 25th October 2013 at Jomo Kenyatta International Conference Centre in Nairobi Kenya.



His Royal Majesty King Mswati and Hon. Mizengo Peter Pinda Listening to MUHAS exhibitor when visited MUHAS pavilion during 37th Dar es Salaam International Trade fair

8.6 Other Activities

During the year 2012/2013 the Directorate among other things also managed to accomplish the following activities: -

- (i) Completed review of Ten year MUHAS Corporate Plan 2014 -2023.
- (ii) Completed the review process of MUHAS consultancy bureau policies, guidelines and procedures.
- (i) Continued to coordinatespreparations of Five Year Rolling Strategic Plans and annual work plans for 2014/2015 to 2018/2019.

9.0 Directorate of Planning and Development – Mloganzila Campus

9.1 Introduction



In order to address the shortage of Human Resource for Health (HRH) in the country, MUHAS started development activities for the proposed New Campus at Mloganzila. The development of MUHAS campus at Mloganzila has received considerable support from the government and development partners. During the reporting period, a number of development activities and initiatives were undertaken as follows: -

Prof. A. K. Kamuhabwa

9.1.1 Presentation of Mloganzila Campus Project Progress Report to the President of the United Republic of Tanzania

On 23rd November 2012 the University Management met with the President of the United Republic of Tanzania, His Excellency Dr. Jakaya. Mrisho. Kikwete at the State House. During the meeting, project progress report for construction of the MUHAS Medical Center at Mloganzila was presented. The Management explained to the President the importance of getting funds for development of basic infrastructure like access roads, electricity and water to support construction and development of the University Campus. The management also used this opportunity to request for funding to support construction of academic and support facilities at Mloganzila. The President was delighted with the progress report from the University Management, and promised to provide support for construction of academic and support facilities. He remarked that modalities, which were used for constructing academic and support facilities for the University of Dodoma, would be used for Mloganzila, and he assured the University Management that the construction of these facilities would be expedited to coincide with the construction and completion of the Medical Centre.



A group photo of the university management with the President Hon. Dr. Jakaya Mrisho Kikwete at the State House after presentation of the Mloganzila Progress Report

9.2 Property Compensation to Mloganzila Residents

During the evacuation of residents in July 2012 to pave way for the construction of the Hospital it was discovered that a total of 91 residents were not evaluated and compensated for due to existing disputes of property ownership. Subsequently,

evaluation of their property was done before demolition in July 2013. A total of **TZS 980,604,433.19** was needed for this compensation. The requested amount was received from the Ministry of Education and Vocational Trainings part of Capital Development to effect compensation. The compensation was then paid to all residents on 17th September 2013.

9.3 Construction of Basic Infrastructure at Mloganzila

In order to develop Mloganzila land into a University Campus, basic infrastructure including access roads, water and electrical power supply are required. In an effort to have these infrastructure established before commencement of the construction of the Medical Center, on 12th December 2012 the University Management made a presentation to the Ministerial Cabinet at the State House. During the meeting, Mloganzila Project Progress report was presented to the Cabinet. The main purpose of the presentation was to inform the Ministers about the project and its requirements. Following the presentation to the Cabinet, directives were given for the respective ministries to establish these facilities at Mloganzila site:

- i) **Access road:** Following the directives from the Minister for Infrastructure Development, TANROADS procured a contractor (Chico Construction Company) for the construction of tarmac road from Kibamba CCM to Mloganzila site. The contract was signed on 21st June 2013 between the two parties for the first phase of constructing a 4km tarmac road for 12 months period. The Road designing has already been completed. The contractor has started clearing the road and established a central alignment.



Ongoing road construction at Mloganzila

- ii) **Water supply:** On 20th December 2012, the Deputy Minister for Water visited Mloganzila to make an assessment for water supply requirements. During the tour, personnel from DAWASCO and DAWASA were directed to make technical assessment and provide the requirements, including possibility of using both piped water and boreholes at Mloganzila area. Thereafter, DAWASA drilled a borehole for supply of water at Mloganzila. After laboratory testing, the water was found to be too salty. On 5th March 2013 MUHAS Management met with Minister for Water to discuss modalities for establishing piped water supply system at Mloganzila. The Minister for water directed DAWASA to initiate connection of piped water from Kibamba area to Mloganzila site. DAWASA procured the contractor and suppliers and started implementation of water connection project at Mloganzila. The contractor for laying piped water from water pumping station to Mloganzila area started digging trenches for laying water pipes. In addition, the construction of overhead tanks for water reserves has been completed.



Construction of water tank towers, which will be used for reserving water during construction of the Medical Center

- iii) **Electrical Power Supply:** Materials required for installation of electrical power supply was procured by MUHAS and installation cost paid to TANESCO. Electrical power supply poles have already been installed at the site. Cabling and construction

of sub-station have also started. A contractor for construction and installation of power supply control panels at the site has been procured. The electrical power supply is expected to be in place by early February 2013 after residents outside the university site have been compensated.



Ongoing Electrical Power Installation at Mloganzila

9.4 Topographical Survey and Development of Master Plan

The consultant hired to carry out Topographical Survey and Master Plan development for Mloganzila project made a presentation of the concept development of the Master Plan to MUHAS On 11th April, 2013. After incorporating comments from MUHAS management, the consultant made the second presentation of the Master Plan during the Meeting of the Committee of Deans and Directors on 20th June 2013 at MUHAS. Further comments were made for improvement of the Master Plan. The Master Plan has been finalized and it is being used for developmental and other activities at Mloganzila.

9.5 Construction of MUHAS Medical Center

After signing of the first phase of the Loan Agreement amounting to USD 49.5 million for construction of MUHAS Medical Center at Mloganzila between the Government of South Korea and the Government of the United Republic of Tanzania in September 2010, MUHAS procured a Consultant (BAUM Architects, Engineers and Consultants Inc.) among Korean Consulting Firms to design and supervise construction of MUHAS Medical Centre on June, 2011. The consultant presented to MUHAS the final design

documents of the proposed Medical Center with capacity of 600 beds in May 2012. Subsequently, the procurement of the contractor for the construction of Medical Centre was initiated. Bid documents were prepared and submitted to Korean Exim Bank for approval on 24th September 2012. After approval of the bidding documents by Korean Exim Bank, MUHAS Tender Board advertised bids on 27th February 2013. Bids were opened on 2nd May 2013 and evaluation report was approved on 22nd May 2013. The report showed a huge disparity between available budget and the lowest evaluated bid price for about 41.8%.

After discussion with Korean Exim Bank, the consultant was directed to make an assessment and provide reasons for higher prices from the bidders and make actual estimation of the construction cost. A report from the consultant indicated that since the feasibility study, which established the cost of the project, was conducted in 2009 and the Loan Agreement signed in 2010, the cost of construction has increased due to inflation. It was also observed that the criteria in the bidding documents including overseas experience limited adequate participation of bidders. As a result only two bidders submitted their bids. After assessment, it was revealed that the hospital would be constructed for a total sum of USD 61,960,000. Since the available budget for construction is USD 43,920,000, it was agreed to request additional USD 18,040,000 from the government. The additional funds have already been requested and the Government has committed to guarantee the availability of the funds. Invitation of bids for contractors advertised. It is expected to have a contractor by mid-December 2013. The construction is expected to start by February/march 2014.

9.6 Supply and Installation of Medical Equipment for MUHAS Medical Centre

The Government of the Republic of South Korea and the Government of Tanzania signed the second phase of a loan agreement of USD 27,000,000 for Supply and Installation of Medical Equipment for the Medical Centre in October 2011. MUHAS in collaboration with Korean Exim Bank have already procured a consultant (Mediline Medical Company from South Korea) for Supply and Installation of medical equipment. A contract between MUHAS and the consultant was signed on 10th April 2013. The consultant is currently preparing a list of the required medical equipment.

9.7 Preliminary Operational Plans for MUHAS Medical Centre

The sub-committee for developing MUHAS Medical Center has already developed three documents for operationalization of the Medical Center. These are Human Resources Recruitment Plan, Personnel Emolument Budget and Management of the Medical Center. In order to strengthen planning and operationalization of the MUHAS Medical Center, MUHAS has received technical support from Korean Health Industry Development Institute (KHIDI), a government funded organization under the Ministry

of Health and social Welfare of South Korea, and Korean Foundation for International Health (KOFIH), a public agency under the Ministry of Health and Welfare of South Korea. Memorandum of understanding between MUHAS, KHIDI and KOFIH has already been signed for this support.



The members of Sub-Committee for the operationalization of the Medical Centre at Mloganzila follow up the presentation from one of the member of Korea Health Industrial Development Institute in the MPL Board Room at MUHAS

9.8 Establishment of Academic and Support Facilities at Mloganzila

Following presentation made by the University Management to the Ministerial Cabinet at the State House on 12th December 2012, the Permanent Secretary in the Prime Minister's Office convened a meeting between MUHAS Management and Representatives from Social Security Institutions (SSIs) on 21st December 2012. During the meeting, SSIs were briefed on the need to support Mloganzila Project. MUHAS was then directed to submit the requirements and cost estimates for the required academic and support facilities. On 31st December 2012, MUHAS submitted the requirements as directed. However, due to the high amount of funds required for these facilities, the Government advised the University Management to prioritize the facilities that are critical for the Medical Center to start functioning after completion in 2015. A list of prioritized facilities was completed and the report discussed during

the meeting held on 7th February, 2013 between MUHAS Management, the Permanent Secretary in the Prime Minister's Office and the Representatives from the SSIs. During the discussion, it was agreed that, MUHAS should engage a consultant to review the list and meet with the technical personnel from SSIs to agree on the proposed facilities and the required costs.

A consultant was hired to review the list of the facilities, prepare client briefs, cost estimates and preliminary architectural designs for the proposed facilities. On 21st February 2013, MUHAS Management met with technical personnel from the SSIs. During the meeting, the SSIs reiterated their commitment to support the project. It was further advised that the project be divided into lots and each SSI be allocated a lot for funding. For effective implementation of the project, a consensus was reached that each SSI will procure a consultant and contractor for implementation of the project in the allocated lot.

Architectural briefs and cost estimates were finalized and submitted to the Prime Minister's Office on 8th June 2013. The total cost for establishment of the required academic and support facilities for phase one of the project is USD 404,633,410.46. Preliminary architectural designs of the facilities with both two- and three-dimensions have already been developed and submitted to the Prime Minister's Office for funding request.

On 17th September, 2013 the University Management and SSI met with the Prime Minister at his office to discuss the modality of implementing the project of construction of the academic and support facilities at Mloganzila. During the meeting, it was agreed that, the Social Security Institutions will support part of the project and the government through Ministry of Finance should look for other alternative financial support for the project. This agreement was to be followed up by a meeting between the Prime Minister, the SSIs and MUHAS.

9.9 Restoration of Site Boundaries at Mloganzila

In order to establish the boundaries of the MUHAS area at Mloganzila and avoid encroachment to the University land, a contractor to replace the uprooted beacons, installation of concrete poles and billboards around the site boundaries was procured in September 2012. The contractor has already cleared the boundaries, replaced beacons, and installed concrete poles and billboards to a large part of the Mloganzila land. During this work, several complaints were received from neighboring residents claiming that part of their lands have been wrongly identified as part of MUHAS land. Following these complaints, on 5th December 2012, MUHAS requested the Director of Surveys and mapping from the Ministry of Land, Housing and Human Settlements Development to engage a Government surveyor for the purpose of authenticating

the boundaries of MUHAS plots at Mloganzila and Kwembe. The registered surveyor was procured and a large part of the boundaries of Mloganzila land has already been verified.

9.10 Visit of the Prime Minister of the United Republic of Tanzania at Mloganzila Site

The Prime Minister of United Republic of Tanzania Hon. Mizengo Peter Pinda visited Mloganzila on 16th August 2013 in order to familiarize himself with the new University campus. The main purpose of his visit was to know the progress that has been made and the challenges encountered by the University in developing the land into a University Campus. During the visit, the Prime Minister was accompanied by the Minister for Land, Housing and Human Settlements Development Hon. Prof. Anna Tibaijuka, the Minister for Education and Vocational Training Hon. Dr. Shukuru Kawambwa, the Deputy Minister for Health and Social Welfare Dr. Seif Rashid, the Dar es Salaam Region Commissioner Hon. Said Meck Sadick and the Coast Region Commissioner Hon. Mwantumu Mahiza. Others were the Chief Executive Director of TANROAD, the Chief Executive Director of TANESCO, Representative from the Ministry of Water, the District Commissioners of Kinondoni and Kisarawe and other officers from the different Ministries.

During the visit, the Prime Minister received progress reports of different ongoing projects at Mloganzila and talked to the residents of Mloganzila. The Minister for Education and Vocational Training Hon. Dr. Shukuru Kawambwa presented the progress report of construction of Medical Centre, Academic and supporting facilities at Mloganzila. Among the challenges mentioned by the Minister were the additional funds for the Medical Centre Project (a total sum of USD 18,040,000 and approval of the government for the Social Security Institutions to support construction of academic and supporting facilities. In response, the Prime Minister promised to convene a meeting between MUHAS Management, the Prime Minister's Office and Social Security Institutions to discuss about the project. He also agreed on the government commitment on additional funds for construction of Medical Centre at Mloganzila. The Prime Minister also received reports for infrastructures development in the area. The reports were presented by TANROADS, representatives from the Ministry of Water for water supply project and Acting Director General of TANESCO, Mr. F. Mramba for electrical power supply at Mloganzila. The Prime Minister insisted to the responsible agents to complete these projects before the commencement of the construction works.

In addition, the Prime Minister talked to Mloganzila residents who demanded explanation on matters concerning compensation for land and properties for the

residents of Kazamoyo. He explained that the 91 residents of Kazamoyo whose properties were not compensated for will receive their compensation in October 2013. He further explained that no compensation will be offered for the land because the residents were illegal occupants. The payment offered was only for the properties developed on the land.

Addressing the Ministers, MUHAS management, staff and other government officials present at the site, the Prime Minister thanked the Management for the tour and promised his cooperation and assistance in everyway possible. The Prime Minister requested the Management to regularly give him reports on the process, obstacles and/or achievements on the Mloganzila land.



The Prime Minister Hon. Mizengo Pinda with other Government officials and MUHAS Management visited MUHAS Land at Mloganzila to assess progress of developing the land into a University new Campus

10.0 Directorate of Information Communication and Technology - DICT

10.1 Introduction



Mr. E. Nyella

The mission of the Directorate of ICT is to provide and apply effectively and efficiently quality ICT services towards realization of MUHAS vision and mission. In-line with this mission and the Five Year Rolling Strategic Plan for 2009/10 to 2013/14, the Directorate carried out a number of activities in the period under review as stipulated in the sections below.

10.2 Internet and Network Infrastructure

During the year 2012/2013, the Directorate of ICT continued to manage and maintain ICT infrastructure including a number of servers such as the mail server, web server, proxy server, DNS and DHCP servers, and application servers and the Local Area Network (LAN) to ensure reliable access to intranet and Internet services.

10.3 Network Infrastructure Strengthening

During the year under review, efforts were made to improve ICT services through installation and re-structuring of the LAN and acquisition of IT devices. The following activities were done:

- (i) Re-structured LAN was done in the computer-training laboratory. Ten new computers were procured through the Library-ICT Sida project funds and were added in the lab to pave way for short courses training.
- (ii) Wired LAN was installed in the new building of the School of Public Health and Social Sciences (SPHSS).
- (iii) Wireless LAN was installed in the Institute of Traditional Medicine (ITM), MUHAS Boardroom, School of Dentistry building and in the Institute of Allied Health Sciences (IAHS).
- (iv) Installed a wireless link between MPL and Muhimbili University Health Information Center (MUHIC) building to provide Internet services to the center as part of income generating venture.

- (i) A wireless link was installed between MPL and CPL building connecting the Muhimbili Wellcome Programme (MWP) to the MUHAS network as part of income generating venture.
- (ii) The Local Area Network in the Library twenty-four hour reading room was completed within the period under review.
- (iii) A new 5KVA Uninterruptible Power Supply (UPS) was procured through the Library-ICT Sida support fund for strengthening services in the server room.
- (iv) The MUHAS Harvard Project was connected to the MUHAS Internet services.
- (v) Survey and preparation for a BOQ for LAN installation in the clinical section of the Dental building.
- (vi) Replacement of network active components in the Administration block following an electrical fault.
- (vii) Replacement of UTP cables in the MUHAS Graduation Square office building after rats damaged them.

10.4 Institutional IP Addresses Block

DICT acquired an IP Addresses block for MUHAS from African Network Information Centre (AFRINIC), through the support from the Library-ICT Sida fund. AFRINIC is a non-governmental organization charged with the responsibility to do Internet Registration in Africa. By MUHAS having its own IP Addresses block increases service reliability, resilience and stability in the face of changing from one Internet Service Provider (ISP) to another.

10.5 MUHAS Website and E-mail Services

During the year under review, the MUHAS Website was redesigned and updated to make it more versatile to accommodate and publish different kinds of information. A number of announcements, documents, and academic programs have been published and made available to the MUHAS community and the general public via the website for more transparency as directed by the Government.

To further improve internal and external communication through e-mail services, DICT installed a new e-mail system to resolve some challenges with the current system in terms of space, file upload size and spams. The system will be made officially operational after the testing phase is finalized.

10.6 ICT Offsite Disaster Recovery Site

Disasters are fortunately rare but when they do occur they can have devastating consequences. The vulnerability of the MUHAS ICT services to the effects of a computer systems failure have increased markedly in recent years as more and more reliance has been placed on computerized systems to manage services. This is likely

to continue in the coming years as ICT systems are increasingly used as a means of generating efficiency and effectiveness in teaching, research and consultancies. Therefore, the DICT has already set up preparedness and disaster recovery measures to ensure continuity of essential services in the face of disasters.

As part of the disaster recovery measures, DICT earmarked a space in the Graduation Square office building where an Offsite Disaster Recovery Site for all critical ICT services was setup. Equipment such as power backup, cooling system and physical servers for replicating all the services running in the data center were installed. On behalf of the University management, DICT would like to express a vote of thanks to the Project Investigators (PIs) of *Afrique One Project* supported by *Wellcome Trust* for their generous support for the power backup. The power backup was procured and installed at the end of the year under review.



Power Backup System in the ICT Disaster Recovery Site

10.7 Telephone Services Strengthening

The Directorate of ICT oversees the MUHAS telephone system with over 500 telephone extensions and 16 trunk lines for internal and external communications. During the period under review a number of activities were carried in order to strengthen the services. These included:-

- (i) Formalization, printing and circulation of an Internal Telephone Directory booklet
- (ii) Maintenance of a number dysfunctional internal telephone extensions
- (iii) Replacement of the dysfunctional Voice Over IP (VoIP) telephone card system
- (iv) Twenty new telephone headsets were acquired through the Library-ICT Sida support project. Installation of the headset to the MUHAS staff without telephone extensions is underway.



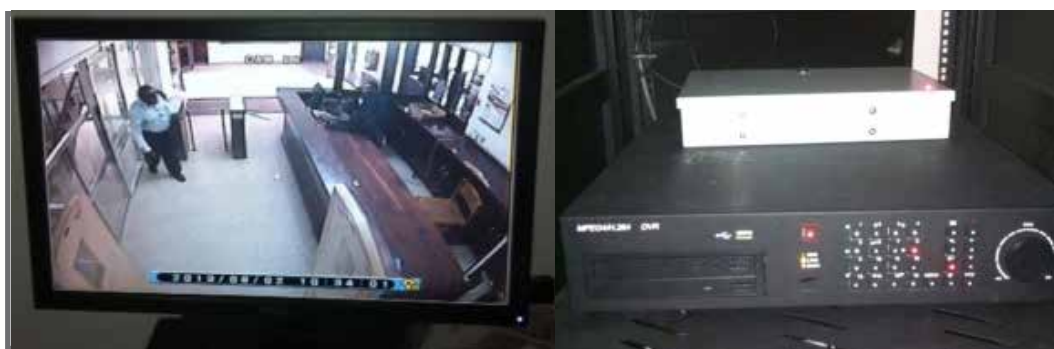
Internal Telephone Directory Booklet



Telephone Headsets

10.8 Installation of Video Conferencing and CCTV Systems

During period under review DICT supervised installation and commissioning of a Closed Circuit Television (CCTV) in the MUHAS main Library. The CCTV is a TV system with cameras in which signals are not publicly distributed but are monitored from a central point, primarily for surveillance and security purposes in the Library. The system, continuously records events in a video format, on a storage device whose capacity is 2 Terabyte. This storage capacity of the CCTV can keep video events covering a period of one month only. In order to increase the storage time of the videos for at least four months, DICT recommends increasing the storage capacity to 8 Terabytes.



The CCTV System in the DLS

Likewise, during the year under review DICT were involved in the installation and configuration of Video Conferencing facility in the Directorate of Library Services (DLS) – Multimedia Room. Technical support has been provided by the DICT team in running the facility. Three meetings have successfully been conducted from MUHAS to different parts of the world under the supervision and support of the ICT team.

10.9 Teaching and Learning

DICT staff continued to collaborate with the Directorate of Library Services in offering the Information and Technologies (IT 100) course to all first year undergraduate students. Likewise more than 30 students pursuing ICT related degree programs from a number of universities in the country did their practical training at MUHAS during the year under review, under close supervision of the DICT staff.

10.10 Short Courses

Four short courses: Microcomputer Applications for Beginners, Computer Maintenance, Advanced Microcomputer Applications, Website Development, and Computer Maintenance were developed during the year under review. Two of them have been approved by the Directorate of Continuing Education and Professional Development. The Directorate plans to put up marketing strategies to boost the number of participants in the future.

Table 7: ICT Short Courses introduced during 2012/2013

S/N	Short Course Title	Course Description
1	Microcomputer Applications for Beginners	The aim of the course is to equip participants with competences and skills on how to handle and use a computer for file management; use of office application software, for information processing; and the use of the Internet and E-mail services.
2	Advanced Microcomputer Applications	The course is designed to provide participants with advanced skills on Microsoft Office Applications, especially those who work with long documents like masters and PhD theses, books, reports, and research proposals with long budgets.
3	Website Design and Development	The purpose of the course is to enable participants to design, develop and manage interactive websites using free Content Management Systems (CMS).
4	Computer Maintenance	The course aims to equip participants with basic knowledge and skills on computer hardware and software maintenance and troubleshooting of common problems.

10.11 E-learning Platform

During the period under review, the DICT continued to adapt Moodle E-learning platform - open source software, for use at MUHAS. The platform provides a Virtual Learning Environment where different online resources for different programs and courses including lecture materials, study notes, discussion boards, can be made available for students. Training of academic staff on the use of the platform is on-going and up to now one undergraduate course -Information and Learning Technologies (IT100), and three postgraduate courses namely Behavioral Change (BC 600), Principles of Epidemiology (FP600.1) and Environmental and Occupational Health (EO 600) have been conducted in a blended mode supported by the platform.

10.12 End User Support

The Directorate of ICT continued to provide technical support to MUHAS staff and students in the use of ICT devices, software and services. About 263 end user problems were related to Internet, our technical crew attended hardware, and software.



Video Conferencing facility in the Directorate of Library Services

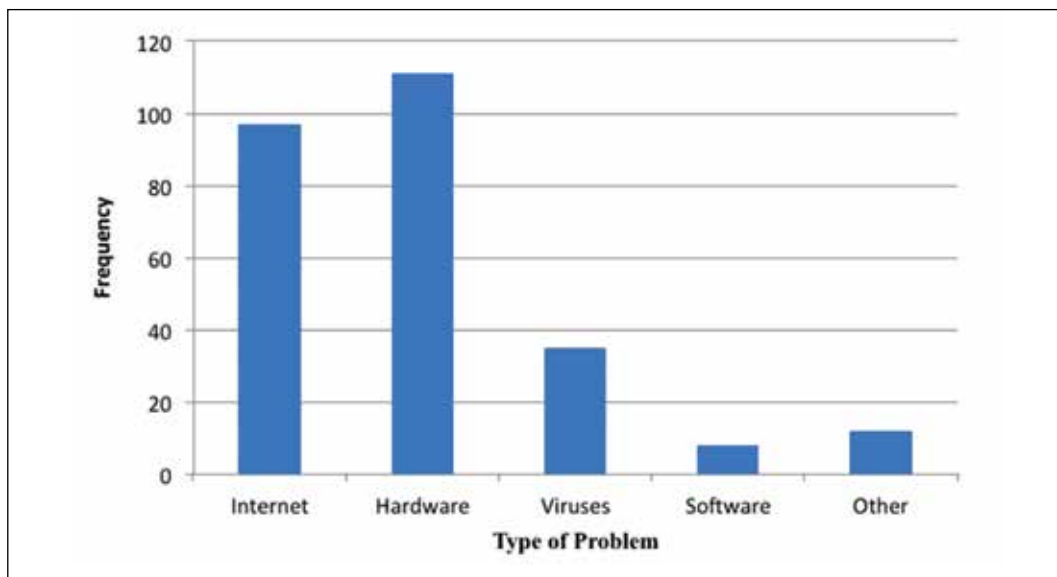


Figure 8: End User Problems Attended by the DICT Support Crew – 2012/2013.

10.13 Information Systems Implementation and Support

The University relies heavily on a number of information systems to carry out its administrative, teaching and learning functions. The DICT team provides day-to-day maintenance and support to the following MUHAS Information Systems:

(i) Student Academic Records Information System (SARIS)

The university maintains Student Academic Records Information System (SARIS) to manage students' academic matters. DICT conducted a number of training sessions to orient staff on how to upload continuous assessments and exam results into the system. The process of adapting the system to the MUHAS academic business logic is ongoing and whenever a new need or technical hurdle arises, the DICT and the supplier of the system technical team act promptly to resolve the issue.

(ii) Accounting System

The DICT continued to provide technical support to the accounts department staff on the use of the financial management system – EPCOR, and in the management of the EPCOR servers in terms of users' accounts, regular backups and conducting recovery procedures. The MUHAS Harvard project and Tanzania Aids Prevention Project (TAPP) were configured and

connected to EPCOR system in the year under review and support has been provided in case of technical hurdles.

Nonetheless, the implementation of the system is yet to be completed as there are some modules which yet to be finalized such as the inventory module; and there some technical challenges presented by the system such as:

- (a) Slow performance in information processing
- (b) Frequent system crash which happens any time there is an abrupt power cuts. When power resumes the system goes into a suspect mode, where the solution has be restoring the system from backup site.
- (c) Frequent incidences to post transactions to print reports DICT continues to work closely with the supplier of the system to resolve the challenges and to ensure completion of the remaining modules.

(iii) Human Capital Management System (HCMIS)

During the period under review, the directorate continued to support use of the electronic system provided by President's office Public Service Management (PO-PSM). The support included the TTCL connection linking between MUHAS and the PO-PSM..

10.14 Staff Recruitment

One of our technical staff, the only hardware engineer in the directorate retired at the end of May 2013. The Directorate faces shortage of staff in the areas of hardware maintenance, database and information systems management. As the university continues to increase the use of electronic information systems to support the core functions of teaching, research and consultancy, more technical staff will equally be needed to provide the necessary support.

10.15 Staff Training

During the period under review, one ICT technical staff got an opportunity to join a master's degree programme in Information Systems (IS) atKampala International University– Dar es Salaam College under the Library-ICT Sida project fund. Furthermore, two technical staff attended a short course on Campus Network design under the same Sida project fund. Two other technical staff attended a training workshop on Network Management and System Security organized by the Tanzania Network Operators Group (tzNOG) in Arusha. One of them was supported by Tanzania Education and Research Network (TERNET) under the shared mechanism and the second one was supported by the University.

11.0 Directorate of Library Services

11.1 Introduction



Dr. T. Lwoga

During the reporting period the library continued to implement activities aimed at achieving its objectives as outlined in its Five Years Rolling Strategic Plan. Again due to an insufficient local budget, financial support for the activities came mainly from donors, particularly Sida whose aim is to strengthen the teaching and research capacity at the University.

11.2 Assessment of User Needs

The library continued compiling user profiles to give guidance on user needs. Academic departments and staff were contacted for suggestions and views on materials to be acquired, particularly books and journals. Library statistics were taken on daily basis to give guidance on library use and for decision - making.

11.3 Collection Development

During the period under review, the library acquired 1187 titles (2190 copies) of printed books and journals and 119 CDs through various means as shown below:-

- (i) The library received 840 titles (978 copies) of printed books from Book Aid International.
- (ii) The library purchased 40 titles (44 copies) of printed textbooks through Sida project. These books have been already processed and they are already in use.
- (iii) The Library also received 279 titles (1061 copies) of books from MuhimbiliOrthopaedic Institute (MOI).
- (iv) The library also received 164 titles (181 copies) of books from various Institutions as shown below:-
 - (a) 2 titles with 15 copies of books from MUHAS
 - (b) 1 title with 2 copies of books from the Government of Tanzania - President's office
 - (c) 3 titles of books from School of Public Health at MUHAS
 - (d) 155 theses of postgraduate students at MUHAS
 - (e) 3 titles of books from individual persons and organization such as ProfF. K. Kahabuka, Fredrick Mashili, and TACAIDS.
- (i) The library also received 28 titles (207 copies) of journals from various

institutions as shown below:

- a) Two titles with 15 copies of journals from the Association of Private Health Facilities (APHFTA)
- b) One journal from the International Network for the Availability of Scientific Publications (INASP)
- c) One journal from India Perspective Publishers
- d) One title with 4 copies of journal from Prof F. K. Kahabuka
- e) One1 title with 16 copies of journal from Under the Same Sun (UTSS) NGOs
- f) 6 titles with 11 copies of journal from Tanzania Commission for Aids (TACAIDS)
- g) One1 journal from the Joint United Nations Programme on HIV/AIDS (UNAIDS)
- a) Nine titles with 25 copies of journals from MUHAS
- b) One journal from International Medical and Technological University (IMTU)
- c) Two titles with 4 copies of journals from World Health Organization (WHO)

11.4 E-resource subscription

- (i) The library continued to subscribe to 37 academic databases through the SIDA-SAREC project funds for 2014. These academic databases provide access to scholarly journals and books and they are subscribed under the Consortium of Tanzania University and Research Libraries – COTUL
- (ii) The library subscribed to a Science Direct and SCOPUS databases through the Royal Tropical Institute (KIT) Library in Netherlands. These databases are now available on Muhimbili Campus for free for 2014
- (iii) The library continued to subscribe to free online journals under the UN Research for Life Programmes, which include HINARI, AGORA and OARE. These databases provide access to over 4,500 journals in health, environment social sciences and related fields
- (iv) The library continues to provide access to offline e-journals through the *Essential Electronic Agricultural Library (TEEAL)* database with a support from the Technical center for Agricultural and Rural Cooperation (CTA). TEEAL collection provides access to over 140 top scientific journals in agriculture and health fields. The database is now available at the library

11.5 Institutional repository

The library continued to create awareness and conducting training on the use of an institutional repository (<http://ir.muhas.ac.tz:8080/jspui/>) to students and academic staff at MUHAS. Currently, there are 1016 titles at the repository, with dissertations up to 1986. There is an ongoing activity to digitize and enter full text data for student's theses, and faculty research reports, journals and other related research publications.

11.6 Library website

The library website was re-developed and it is now available on the internet. The library continued to catalogue the free electronic resources on the internet. The catalogue is available on the library website. The catalogue comprises of links to free online journals, books, evidence based practice databases, educational materials, statistics, tutorials on information searching other health gateways.

11.7 Data entry activity

The data entry activity continued with SIDA-SAREC financial support. The database has a total of 29568 copies and 17957 titles records of books 3411 titles of journals. Currently, the library staff are entering records of recently acquired books and journals.

11.8 Teaching and Learning

The library taught the following University courses:

- i. Course IT 100: information and learning technologies to first year undergraduate students at MUHAS. The course has two modules. The first module is Basic ICT and learning technologies, while the second module is on information searching techniques. In the first semester of the 2012/13 academic year, the library taught 401 students
- ii. ICT module for the diploma in Medical Laboratory Sciences (DMLS) at the School of Allied Health Sciences, second semester. A total of 77 students were taught
- iii. FP 600 – Research methods module to 31 first year students of the Masters of Public Health
- iv. AE 603 research methods for students of Msc Applied Epidemiology

The library continued to conduct voluntary workshops on information literacy to postgraduate students. In total, the library has trained 92 postgraduate students.

11.9 Continuing professional development programmes

The library continued to conduct workshops on open access issues, reference management and online searching strategies academic staff at MUHAS. In total, the

library has trained 157 academic staff at MUHAS

11.10 Short courses

The library conducted six workshops in the period under review, where a total of 74 participants from outside MUHAS attended the workshops. These workshops focused on evidence based medicine, digital repositories, cataloguing and electronic records management.

11.11 Conference papers

1. Lwoga, E. T., & Questier, F. (2014). A Model for Measuring Open Access Adoption and Usage Behavior of Health Sciences Faculty Members. In *XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013*, pp. 1298-1301. Springer International Publishing. <http://www.springer.com/engineering/biomedical+engineering/book/978-3-319-00845-5>. ISBN: 978-3-319-00845-5
2. Sife, AS and Lwoga, ET. 2014. Research productivity and scholarly impact of academic librarians in Tanzania. Tanzania Library Association (TLA) (26th – 28th February, 2014)
3. Lwoga, E.T. 2013. Open access attitudes and uptake among health sciences faculty and roles of information professionals. The 6th Annual Conference of the UbuntuNet Alliance, Kigali Rwanda 14-15 November 2013.
4. Lwoga. E. T. 2013. Faculty attitudes, perceptions and experiences of information literacy in the health sciences University education. 2013 ProLISSA Progress in Library and Information Science in Southern Africa *Conference* - 5 to 8 March 2013, Pretoria, South Africa.

5. Tweve, J and Chande-Mallya, R 2013. Hindrance of Online information Services Provision in Private Academic Library in Tanzania: A case study of Tumaini University, DSM College. Tanzania Library Association Annual Conference, 25th-28thFebruary 2013, Tabora, Tanzania
6. Lwoga, E. T., and Mosha, N. F. 2013. Information seeking behaviour of parents and caregivers of children with disorders. Conference on Knowledge for Poverty Reduction in Tanzania Towards Access to Information Resources, ESRE, 11th– 12th June 2013, DSM, Tanzania
1. Chande-Mallya, R 2013. Access and Use of Health Information through Health corners in public Libraries in Tanzania: Users Perspectives. Conference on Knowledge for Poverty Reduction in Tanzania Towards Access to Information Resources, ESRE, 11th– 12th June 2013, DSM, Tanzania
2. Chande-Mallya, R and Sife S.S. 2013. Citation Analysis of Thesis and dissertations as a measure of Web resources usage at MUHAS. 1stMUHAS Scientific Conference 2nd-4th May 2013 at Kunduchi Beach Hotel, DSM, Tanzania
3. Lwoga, E. T. 2013. Scholarly communication open access behavior of hfaculty members in health sciences universities in Tanzania, 2013 1stMUHAS Scientific Conference 2nd-4th May 2013 at Kunduchi Beach Hotel, DSM, Tanzania
4. Chande-Mallya, R 2013. The role of communication channels in accessing and disseminating HIV/AIDS information in rural Tanzania: users perspectives, Progress in Library and Information Science in Southern Africa (PROLISA) 5-8th March 2013 at the Saint George Hotel, Pretoria, South Africa.
5. Lwoga, E. T. 2013. Faculty attitudes, perceptions and experiences of information literacy in the health sciences university education, 2013 ProLISSA Conference 5-8th March 2013, Pretoria
6. Chande-Mallya, R. 2013. Evaluation of Evidence based practices workshops at MUHAS. Tanzania Library Association (TLA) (February, 2013)

12.0 Directorate of Undergraduate Studies

12.1 Introduction



Prof. D. Simba

The Directorate of Undergraduate Education processed the application of both direct and equivalent undergraduate students for 2012/2013 academic year for various programmes. The total number of applications was 482 but the admitted students were 396. Table 8 shows the number of students who applied and registered for various undergraduate programmes as follows:

Table 8: Number Registered Undergraduate Students

Programme	Number of Applicants	Number of Registered Applicants
Doctor of Medicine	201	184
Bachelor of Medical Laboratory Sciences	37	35
Bachelor of Science in Radiotherapy technology	13	11
Doctor of Dental Surgery	41	32
Bachelor of Environmental Health Sciences	38	10
Bachelor of Pharmacy	56	54
Bachelor of Science in Nursing	54	38
Bachelor of Science in Nursing Management	13	13
Bachelor of Science in Nursing (Midwifery)	28	19
Total	482	396

During the reporting period the Directorate of Undergraduate Education also processed various applications for both Diploma and Advanced Diploma programmes for 2012/2013 academic year. A total of 352 new students were admitted in various Diploma and Advanced Diploma programmes.

12.2 Installation of SARIS

The Directorate of Undergraduate Education (DUE) in collaboration with Directorate of Information Communication Technology initiated a process of installing Students Academic Records Information System (SARIS) software. Installation of the software

was aimed at entering and processing students' examination marks and grades to ensure easy access to students as well as members of academic staff. SARIS software has been installed in the MUHAS website and is currently operational. However, since SARIS was developed in the period when the old curriculum was in place, implementation of the SARIS is faced with the challenge of harmonization of the software with the current competence based curriculum. New demands to track teaching sessions and the flow of students in order to maximize space use will require installation of new software. The DICT has initiated the process to procurement the software.

12.3 Establishment of Undergraduate Admission Office

The undergraduate admission office was established with a view to processing students admission. The office has been partitioned and furnished. One administrative officer has been recruited and the process to recruit head of department is underway. The DUE plans to incorporate admission data into the SARIS so as to link with students' performance data from the time of admission to graduation.

13.0 Directorate of Continuing Education and Professional Development

13.1 Introduction



Dr. G. Kwesigabo

The Mission of Directorate of Continuing Education and Professional Development is to provide quality, demand driven CPD through facilitation, regulation and promotion of CEPD for the health sector and beyond. During this academic year, the Directorate conducted a number of activities as follows.

13.2 CPD Courses and Quality of Teaching and Learning

- (i) Coordinated a three months Diabetes Management Course that was conducted by the Department of Internal Medicine from 1st August to 30th October 2012. This was done to train highly skilled middle cadre Health Care workers to effectively deliver quality Diabetes Management in Regional and District hospitals in the country. The course had a total 5 participants. The course was well received by the participants. The skills, knowledge and practicals gained during the training will enable them to provide better treatment to the diabetic patients.

- (ii) Conducted a Faculty Development Workshop for Deans, Directors and Heads of Departments from on 17th to 18th December 2012, 21 faculty were trained in day one while 19 faculty were trained in day two. The workshops were well received and participants thought that the majority of the session had direct practical application to their day-to-day academic activities in teaching and learning.
- (iii) The Directorate conducted a half-day Faculty Development workshop on item analysis (Multiple Choice Questions (MCQ) as part of Faculty Development on 30th January 2013. A total of 20 faculty were trained. The workshop was well received and participants thought it were useful and information could be directly used by academic staff to analyze and improve the quality of their MCQs.
- (iv) The Directorate, in collaboration with HPEG Group coordinated the Post Graduate Teaching course (HE 600) that started on 14th March 2013 and ended on 11th July 2013. A total number of 140 Postgraduate students were trained. The evaluation for the course is still ongoing, 159 students attended, The pre course assessment of the PG students knowledge on teaching and learning indicated that only 6% of first year PG students had basic knowledge of teaching, learning and assessment. Post course test assessment of the PG students' knowledge on teaching and learning showed a statically significant increase in knowledge p 0.001. with 82% of PG students obtaining a A, B+ grade or higher in the August University Examination 2013.

A survey of PG students in December 2013 indicated that there was an increase in the number of departments using PG students to teach undergraduate students from 4-10 as a result of the HE 600 course.

- (v) The Directorate conducted a one-day Faculty development workshop on small group teaching, professionalism, feedback and assessment of Dental competencies for the School of Dentistry on 18th September 2013. A total of 14 faculty were trained. The workshop was well received and participants thought it were useful and information could be directly used by their academic staff.

13.3 Accreditation of CPD Courses

During this academic year, the directorate accredited the following short courses based on the accreditation guidelines for all CEPD courses: -

- (i) Short course on Micro-computer Applications from the Directorate of Information and Communication Technology (DICT). The course has 15 credit points
- (ii) Short course on Computer Hardware & Software Maintenance from Directorate of Information and Communication Technology (DICT) The course had a total of 15 credit points
- (iii) Short course on Training on Herbal Medicine Development from Institute of Traditional Medicine (ITM). The course has a total of 15 credit points
- (iv) Short course on Teaching Methodology for Health Care Personnel from Institute of Allied Health Sciences (IAHS) The has a total of 15 credit points
- (v) Short course on Management of Odontogenic infections from the School of Dentistry (SOD). The course had a total of 15 credit points
- (vi) Short course on Non-communicable Diseases Prevention and Control from School of Public Health and Social Sciences. The course had a total of 15 credit points. \
- (vii) The accredited short courses will have to be re-accredited after every three years.

13.4 The 1st MUHAS Scientific Conference

The Directorate facilitated and coordinated the 1st MUHAS Scientific Conference, which was held from 2nd to 4th May 2013 at Kunduchi Beach Hotel, and various Researchers, Scientists and Postgraduate Students from MUHAS and other stakeholders participated in the conference. The theme of conference was “Health Research Towards Poverty Alleviation” with the following Sub themes:

- (i) MDG: Progress in addressing Health related Millennium Goals
- (ii) Crisis on Human Resources for Health
- (iii) Emerging Health Challenges
- (iv) Translating Health Research findings into Policy
- (v) Pan Africanism and Africa Renaissance.



The Vice President of United Republic of Tanzania Dr. Gharib Bilal officiating the 1st MUHAS Scientific Conference at Kunduchi Beach Hotel

13.5 Quality control & assurance

The Directorate has continued to review curricula of various postgraduate programmes from various schools as the way of improving and strengthening the quality of teaching and learning at the University.

13.6 Infrastructure Development and Income Generation Activities

In an attempt to ensure Sustainability of its activities, DCEPD continued with the following strategies: -

- (i) The Kalenga House continued to provide quality and affordable short term living for various visitors and the Directorate continued to generate income for the university through lodging fees.
- (ii) The construction the Centre for Health Professionals Education (CHPE) is still ongoing.

13.7 The 37th Dar es Salaam International Trade Fair Exhibitions

The Directorate also participated in the 37th International Trade Fair Exhibitions from 28th June to 8th July 2013 as the way of strengthening Linkages, partnerships and networks. In collaboration with DICT, Schools, Institutes and other directorates, DCEPD is establishing e-learning Unit aiming at coordinating e learning and Distance Education activities in the University.

13.8 E-Learning

In collaboration with DICT, Schools, Institutes and other directorates, DCEPD is establishing e-learning Unit aiming at coordinating e learning and Distance Education activities in the University.

14.0 Institute of Traditional Medicine

14.1 Introduction



Dr. E. Innocent

During the reporting period (2012/2013) the Institute continued with its efforts to develop and standardize herbal medicinal products. Morizella juice, a nutritional supplement was successfully registered by TFDA as "MORIZELLA (Sugar free), registration TAN 13 FD 000940; and MORIZELLA (Sweet) as TAN 13 FD 000939. Currently, the Institute is producing 11 products. Sales from herbal medicinal products for the reporting period was 37,206,000/=, while expenditure was 6,793,608/63 with the net balance of 412,391/37 on closing date of 30th June, 2013. The sales of herbal medicine has enabled many needy people to access the medicine as well as been a source of subsidizing running costs at the Institute.

The Institute is implementing a modularized MSc. Trad. Med. Curriculum and continued to disseminate its research results whereby 24 papers and 3 patent applications were published. The Institute continued to host undergraduate and graduate students from School of Pharmacy, MUHAS; Chemistry Department, UDSM; and College of natural science, UDOM. Currently the Institute is involved in 17 Research activities at various levels of funding. Furthermore during the reporting period, the Institute participated in various exhibitions and public services at National level.

14.2 Student Affairs during 2012/2013

- (i) The second batch of two MSc. in Trad. Med. Dev. Students were conferred their degrees on 08th December 2012.
- (ii) One PhD student is finalizing her PhD studies while five PhD students are at different stages of their studies.
- (iii) The Institute hosted eight BPharm IV students who did their research projects under the supervision of Institute staff.
- (iv) The institute hosted 5 students from the University of Dar es Salaam and 1 from University of Dodoma and 1 from Sokoine University for their field research projects.

14.3 Research, Publication and Consultancy activities during 2012/2013

Table 9a: Major research project completed

S/No.	Title of the Project	Principal Investigator	Department
1	Establishing Capacity of mosquito-borne disease control at MUHAS to bridge academia and Community needs.	Dr. E. Innocent	Biological and Pre-clinical studies.
2.	Adding value to purification and anti-tuberculosis screening of natural products derived from Tanzanian medicinal plants,	Dr. P. Erasto	Natural Products Development and Formulations.
3.	Comparative studies of mosquito larvicidal constituents from <i>Kotschya</i> .	Dr.E. Innocent	Biological and Pre-clinical studies.
4	Studies on chemical profile and isolation of mosquito larvicidal compounds from Ethanol extracts of four <i>Kotschya species</i> .	Dr. E. Innocent	Biological and Pre-clinical studies.
5.	Screening Tanzanian <i>Commiphora</i> species for antimycobacterial activity.	Dr. P. Erasto	Nat. Products Development and Formulations.
6.	Screening Tanzanian <i>Commiphora</i> species for antimycobacterial activity.	Dr. P. Erasto	Nat. Products Development and Formulations.
7.	Screening <i>Garcinia</i> species for protease and HIV-1 inhibitors.	Dr. J.J. Magadula	Nat. Products Development and Formulations.

9b: Major ongoing research projects

S/No.	Title of Research project	Research Coordinator	Department
1.	Formulation and standardization of herbal medicine from <i>garcinia</i> and <i>combretum</i> plant species growing in Tanzania for managing HIV/AIDS and related diseases.	Dr. Z.H. Mbwambo	Natural Products Development and Formulations.
2	Ethnobotanical survey and pre-clinical evaluation of efficacy and cytotoxicity of plants used by Traditional healers to treat epilepsy in Mahenge District, Morogoro.	Ramadhan S.O. Nondo	Biological and Pre-clinical studies.
3	Toxicity assay of herbal medicines used for impotency and penile enlargement in Dar es Salaam city.	Dr. J.N. Otieno	Medical Botany, Plant breeding and Agronomy.
4.	Ethnobotany, bioassay and pure compound isolation from medicinal plants for TB in lake Victoria region	Dr. J.N. Otieno	Medical Botany, Plant breeding and Agronomy
5	Discovery of antimalarial from Tanzanian medicinal plants	Dr. M.C. Kapingu	Nat. Products Development and Formulations.
6	Management of Aflatoxins and storage, pests in maize using solar, biomass and indigenous pesticide technologies in Lake Victoria basin for health, food security and biodiversity conservation.	Prof. R.L.A. Mahunah	Medical Botany, Plant breeding and Agronomy
7	Isolation and characterization of anticonvulsant and antimicrobial principals in extracts of <i>Diospyros fischeri</i> and (Ebenaceae).	Prof. M.J. Moshi	Biological and Pre-clinical studies.

8	Domestication of safe medicinal species; An alternative approach.	Prof. M.J. Moshi	Biological and Pre-clinical studies.
9	Impact of home based life saving skills training in Awareness of danger signs, facility delivery, referral acceptance and care seeking during complication.	Dr. Edmud Kayombo	Dept. Obstetrics and Gynecology-Reproductive Health
10	An intervention to improve health care seeking behaviour and reporting of events among survivors of child sexual abuse, rape and intimate partner violence in Kilombero District.	Dr. Edmud Kayombo	Dept. Obstetrics and Gynecology-Reproductive Health
11	Malaria and HIV infections in pregnancy: Drugs Interactions, Effectiveness and Impact of the National Malaria Prevention and Treatment Interventions on Maternal and Child Health in Rufiji District.	Dr. Edmud Kayombo	Dept. Obstetrics and Gynecology-Reproductive Health.
12	Isolation and characterization of anti-HIV and antioxidant compounds from ethanol extracts of <i>Allanblackia ulugurensis</i> and <i>Mammea usambarensis</i> plant species.	Dr. J. J. Magadula	Nat. Products Development and Formulations.
13	Evaluation of selected Botanicals as Rodent repellents in maize fields and stored maize grain in rural area, Tanzania.	Dr. J.J. Magadula	Nat. Products Development and Formulations.
14	Investigation of domestic Cat (<i>Felis sivestris catus</i>) urine odour as a potential Rodent management strategy in crop fields in Tanzania.	Dr. J.J. Magadula	Nat. Products Development and Formulations.

15	Phytochemical and pharmacological investigations of <i>Carissa spinarum</i> root extract and formulation of standardised product for use against chronic illnesses a) Search for ant-TB herbal medicines in Lake Victoria region.	Dr. P.J. Masimba	Biological and Pre-clinical studies.
16	Phytochemical and Biological Studies on Four Threatened <i>Garcinia</i> Species of Tanzanian Origin.	Dr. J.J. Magadula	Nat. Products Development and Formulations.
17	Comparison of Isolated mosquito larvicidal compounds from ethanolic extracts of <i>Kotschya</i> species collected between wet and dry season.	Dr. E. Innocent	Biological and Pre-clinical studies.

14.4 Consultancy activities

- (i) Two members of academic staff were involved in the review of proposals submitted to COSTECH on 11th-12th May, 2013.
- (ii) The Tanzania Industrial Research and Development Organization (TIRDO) has involved the Institute of Traditional Medicine in the IDRC funded project on "Universities, innovation and inclusive development in Africa: towards a research network". The aim of the project is to make visible the involvement of academics and universities in the kinds of innovation that typically remain below the radar by identifying and mapping the kinds of interactions between academics and communities, especially marginalized groups, and in an informal setting.

14.5 Expansion/Improvement of Academic Programs during 2012/2013

- (i) So far the Institute has one MSc. and PhD Programmes.
- (ii) The Institute actively implements a competency based curriculum aimed at improving professionalism.

14.6 Staff involvement in community services during 2012/2013

1. During the reporting period, Prof R.L.A Mahunnah and Prof. Z. Mbwambo were involved in preparation of national intellectual property policy and guidelines document under the Ministry of Industry and Trade.
2. Dr E. Innocent, participated in a Haba na Haba radio program about “the role of Traditional medicine” and, the kind of service the institute provides for the public, which was aired by BBC Media action on 22nd and 23rd June 2013.
3. The Institute participated in the exhibition during Sabasaba on 01st – 08th, July, 2012; 1st MUHAS scientific conference on 2nd-4th, May, 2013: and TCU on 22nd-24th May 2013.

14.7 Major planned work

- (i) The Institute plans to continue expansion of its activities in the standardization and formulation of herbal medicines. This aims at increasing the number of herbal products.
- (ii) To come up with means of partnership with a pharmaceutical company in order to expand areas of distribution of products.
- (iii) To continue strengthening the MSc. programme and develop a diploma course in Traditional Medicine
- (iv) To strengthen cultivation of medicinal plants in experimental farms at Arusha, Moshi, Lushoto and Kibaha, to feed into the ongoing production of formulations.
- (v) To register herbal medicine products with TFDA
- (vi) To continue seeking for funding of the project on “Establishment of a National Medicinal Plants Botanical Garden at Mloganzila” and “Scaling up production and distribution of herbal medicines to the level of pharmaceutical industry’
- (vii) To create new collaboration and foster collaboration with existing partners

15.0 Institute of Allied Health Sciences

15.1 Introduction.



Mr. L.E Ndolele

The institute of Allied Health Sciences is one of the two Institutes of the Muhimbili University of Health and Allied Sciences (MUHAS) involved in training of the middle level technical health services providers.

The Institute is situated within the premises of the Muhimbili National Hospital (MNH) with thirteen (13) schools nine (9) at Muhimbili two (2) at KCMC Moshi, one (1) at Mpwapwa and one (1) in Tanga.

During the year of the report the future administrative position of the institute, after dissolution of the former Muhimbili Medical Centre and Muhimbili University College, remain unresolved by the relevant Authorities. However MUHAS appointed a committee headed by Director of Undergraduate Education to negotiate with MOHSW to release the institute totally to MUHAS.

15.2 Student Enrolment

During the year 2012/2013 the Institute enrolled a total number of **950** students, **373** males and 325 females. **252** students were at KCMC, Mpwapwa and Tanga campuses.

15.3 Student Admission

The number of qualified applicants aspiring to join the programmes of the Institute has been increasing from year to year. However, the number of students admitted has been limited by inadequate teaching facilities. During the year of reporting 348 students were admitted; 201 Males and 147 females. This makes the number of females' students admission to be 42 %slightly above the MUHAS target of 40%

15.4 Teaching Staff Recruitment and Development.

The Institute has no structured and development program for teaching staff. The Institute depends on the placement of teaching staff by the Ministry of Health and Social Welfare. During the reporting period the Ministry of Health and Social Welfare (MOHSW) posted teachers to the schools including some who were on compulsory retirement and study leaves. This makes the Institute to continue to be severely affected by shortage of teaching staff and depend heavily on part –time teachers.

15.5 Administrative and Technical Staff Recruitment and Development

The Institute continues to utilize administrative and technical staff members of the Muhimbili National Hospital who have been working in the school before the dissolution of Muhimbili Medical Centre and MUCHS. The Institute has no structured system for recruitment and development.

15.6 Research and Publications

The Institute has very low research output. Few staff members were engaged in research activities. Never the less efforts are being made to raise the awareness in this particular area of our responsibilities.

15.7 Consultancy and Public Service

Individual staff members were involved in community services and consultancies especially in the Ministry of Health and Social Welfare (MOHSW) projects.

15.8 Curricula Revision Progress

The process of curricula polishing continued to make them competence based

15.9 Rehabilitation of Nurses Hostel Blocks 26, 27& 28

Rehabilitation of the Nurses Hostel Blocks has been completed and the Institute is putting efforts to continue with maintenance accordingly. It is expected that if funds will be obtained, a regular planned, preventive, maintenance and major rehabilitation will be carried out.

15.10 Improvement of Cafeteria and Accommodation Services at Nurses Hostel

No improvement made during the year of reporting only 200 mattresses and 100 double deckers were procured to improve accommodation services. The water tanks were put in place for the clean water supply.

15.11 Constrains Faced by the Institute

- (i) Undefined administrative position of the Institute following the reforms of the former Muhimbili Medical Centre and MUCHS.
- (ii) In adequate budgetary funding.
- (iii) Poor and inadequate physical infrastructures of building especially the Institute building which requires major rehabilitation and restructuring.
- (iv) Persisted shortage of teaching staff in most of the school under the institute.

16.0 School of Medicine

16.1 Introduction



Prof. S. Kaaya

The School of Medicine is one of the five schools of the Muhimbili University of Health and Allied Sciences. It continues to be the largest and lead in the number of Faculty, students and academic programmes both at undergraduate and postgraduate levels.

This is the first report of the triennium (2012/2013 – 2014/2015) under the Deanship of Professor Sylvia Kaaya and two Associate Deans, Prof. Naboth Mbembati (Postgraduates and Research) and Dr. Milka Mafwiri (Undergraduates). The

School has 19 departments with over 130 faculty, 984 undergraduate and 217 postgraduate students. The School governing body is the School Board, comprised of 26 members including heads of departments and representatives from other Schools and Directorates at MUHAS. The School Boards is answerable to the University Senate, through a Committee of Deans and Directors and the MUHAS Academic Board. Sub-committees of the School Board supporting the activities of the office of the Dean, include the Management, Planning, Teaching and Assessment Quality, Undergraduate, and Higher Degrees and Research Committees. During the reporting year (2012/2013), the School of Medicine undertook several activities as follows: -

16.2 Implementation of teaching and learning

During the period under review, the School of Medicine continued to implement its undergraduate and postgraduate programmes. The school continued to improve its curricula by identifying and rectifying minor curriculum content and teaching problems during implementation of the Competence Based Education system introduced in 2011/2012.

Departments of the School conducted the following undergraduate programmes:

- (a) Doctor of Medicine (MD) (5 years or 10 semesters)
- (b) Six Bachelor of Medical Laboratory Sciences (BMLS) (3 years or 6 semesters); including a general programme (BMLS general) and four specialized programmes, in Clinical Chemistry (BMLS Clin. Chem), Haematology and Blood Transfusion (BMLS Haem. BT), Histo-technology (BMLS Histotech.), Microbiology and Immunology (BMLS Micro. Immunol.). A fifth specialized BMLS programme in Parasitology and Entomology (BMLS Para. Entomol.) was conducted in collaboration with the School of Public Health and Social Sciences

- (a) Bachelor of Science in Radiation Therapy Technology (BSc RTT) (3 years or 6 semesters).

In the reporting year the programmes had 896 (MD), 71 (BMLS) and 17 BSc.RTT students respectively.

Postgraduate programmes twenty five (25) conducted in the reporting year. These included:

Master of Medicine (MMed)

- (a) M.Med. - Anaesthesiology
- (b) M.Med. - Anatomical Pathology
- (c) M.Med. - Clinical Oncology
- (d) M.Med. - Emergency Medicine
- (e) M.Med. - Haematology
- (f) M.Med. - Internal Medicine
- (g) M.Med. - Microbiology/Immunology
- (h) M.Med. - Obstetrics/Gynaecology
- (i) M.Med. - Ophthalmology
- (j) M.Med. - Orthopaedics/Traumatology
- (k) M.Med. - Otorhinolaryngology
- (l) M.Med. - Pediatrics and Child Health
- (m) M.Med. - Psychiatry
- (n) M.Med. - Radiology
- (o) M.Med. - Surgery
- (p) M.Med. - Urology

Master of Science (MSc) Programmes

- (a) M.Sc. - Anatomy
- (b) M.Sc. - Biochemistry
- (c) M.Sc. - Clinical Pharmacology
- (d) M.Sc. - Physiology

Master of Science in Super specialties/MSc Superspecialty Programmes

- (a) M.Sc. Sup - Cardiology
- (b) M.Sc. Sup - Nephrology
- (c) M.Sc. Sup.- Neurology
- (a) M.Sc. Sup - Respiratory Medicine
- (b) M.Sc. Sup - Neuron-surgery

16.3 Students Registration:

The School registered a total of 234 first year students in the academic year 2012/2013, including; MD – 191, BMLS – 34 and BSc.-RTT – 9.

The continuing undergraduate students registered were 750 making a total numbers of 984 registered students in the year, distributed as follows: MD – 896, BMLS – 71 and BSc.-RTT – 17

For postgraduate students, there were a total of 276 students with 90 in Semester 1&2, 109 in Semester 3&4 and 77 in Semester 5&6

16.4 University Examinations

During the reporting year, formative and continuous assessments were conducted as planned in the respective departments. University Examinations conducted during the reporting year were as follows:

- a) July 2012 End of Audit Year 2011/2012 University Examinations.
- b) September 2012 – Supplementary Examinations.
- c) February 2013 – End of semester University Examination.

16.5 Curriculum Revision:

The School of Medicine continues to fine-tune curricula for its eight Undergraduate programmes – MD, BMLS and BSc.RTT. Competency based Curricula were implemented in semesters 1 to 4 of the MD programme and semesters 1-6 of the BMLS and BScRTT programmes, while the old curriculum continued to be phased out in the MD semesters 5-10. Several School Management and Planning Committee meetings were held to prepare for implementation of an earlier clinical placement for MD students in semester 5 and 6 as part of implementation of the Competency Based Curriculum in the 2013-14 academic years.

Implementation of the competency based curricula for post-graduate students began across departments, in the reporting year and the curricula documents were in the final phases of completion.

16.6 Five Year Rolling Strategic Plan (FYRSP) 2013/2014–2018/2019:

During the reporting year, the School prepared, completed and approved the third School FYRSP. The Annual Strategic Plan was also completed and approved by the School Board. The third Strategic Rolling Plan has six (6) Strategic Objectives under which various performance targets have been identified for implementation. Implementation of the plan started with departments submitting their planned activities and their budget estimates.

16.7 Staff training at Masters and PhD levels

A total of nine staff members were registered for PhD training and two were registered for various Masters Programmes.

16.8 Promotions

During the reporting time there were no announcements of promotions for both academic and administrative staff. Although staff were promoted internally, approval was not made because of Government circular of October 2012, which barred promotions and salary increments for staff. This ban has not been lifted to date.

16.9 Research and Publications

During the reporting period, academic members of staff maintained collaborative links with research partners. Thirty eight (38) research projects were implemented by faculty and are reported under section 3 tables 18.

In the year 2012/2013, the faculty of the School was involved in research findings dissemination activities, some of which occurred in scientific journals. A selection of articles (20) published in international journals, demonstrates increasing multidisciplinary research work. In most of the publications listed, faculty published with staff from other Schools at MUHAS as first authors or co-authors. The publications are reported under section 23.3.

16.10 Non-Research Collaborations

A number of non-research collaborations were developed during the reporting period.

16.10.1 Deans Office

Two non-research collaborations were developed during the reporting period. The School was invited by the United States Peace Corps to participate in their Global Health Service Partnership Volunteer (GHSPV), whereby; human resource for teaching was enhanced by two visiting scholars in cardiology, Prof. Humphrey Steven, and anesthesiology Dr. Bronwyn Rae. The two staff were salary supported for 12 months at MUHAS, while the University management provided them with accommodation.

In collaboration with the MUHAS Links Office, the office of the Dean successfully applied with collaborators Prof. Ulla Lindqvist and Prof. Peter Stalberg from the School of Medicine, University of Uppsala, Sweden, for a Linnaeus Palme Exchange Program grant. The exchange programme will allow both staff and undergraduate student exchanges for clinical training. Preliminary visits to Sweden by Prof. Naboth

Mbembati and Dr. Febronia Uiso, and to Dar es Salaam by Prof. Ulla Lindqvist and Prof. Peter Stalberg, during the reporting period facilitated writing of the grant request and a memorandum of understanding that will start implementation in 2014. Departments that will be involved in this exchange include Obstetrics and Gynecology, Paediatrics, Surgery, Internal Medicine and Emergency Medicine.

16.10.2: Special Departmental Activities

Ophthalmology: During this reporting period, training collaborations for postgraduate various outreach activities for community based clinical skills building have continued to be implemented in the Department of Ophthalmology. These outreach training services are supported by the Collage of Ophthalmologists of East and Central Africa and the Middle East Africa Council of Ophthalmology (MEACO). Pediatric ophthalmology clinical training, service delivery and infrastructure development (equipping, renovating existing space and providing consumables) in this department is supported Sightsavers Tanzania and UK country offices and Guys Saint Thomas's Hospital in London, United Kingdom. A medical retina clinic for training and service delivery established at the Muhimbili National and Teaching hospital (MNH) in 2011, continues to receive support from exchange visits between the departments of ophthalmology of MUHAS/MNH and Guys Saint Thomas's Hospital, while infrastructure development support has been received from Sightsavers UK and the World Diabetic Federation. The department of Ophthalmology has continued implementation of an outreach programme aimed at providing quality practical training for residents in ophthalmology. This activity is part of a collaborative initiative between MUHAS and the Fred Hollows Foundation

17.0 School of Dentistry

17.1 Introduction



Dr. E.N Simon

The School of Dentistry is one of the five schools of the Muhimbili University of Health and Allied Sciences. It started as a Dental Division within the Faculty of Medicine of the UDSM in 1979 and upgraded to a Faculty of Dentistry in 1991. Later on in 2003 it was upgraded to School of Dentistry of MUCHS.

During the Academic year 2012/2013, thirty four (34) undergraduate and six (6) postgraduate students were enrolled in the School of Dentistry (SOD). Teaching and examinations in both undergraduate as well as postgraduates were conducted as planned. A total of eleven (11) undergraduate students among whom three (3) were females successfully

completed studies and graduated in December 2012. There was only one postgraduate student who graduated in this academic year. Revising the Master of Dentistry programmes to transform into competence-based curriculum was completed. One member of academic staff who was pursuing a Masters programme and another on PhD studies successfully completed their studies. Some academic members of staff had opportunities to attend seminars and conferences within and outside the country for example the Senior Dental Leaders training and Global Health courses.

During 2012/2013, the Department of Orthodontics, Paedodontics and Community Dentistry had 7 publications; Department of Oral and Maxillofacial Surgery had 3 and Restorative Dentistry four. Consultation and clinical services to patients with oral health problems were rendered adequately using the dental equipment, instruments, laboratory equipment and X ray machines contributed by the Miracle Corners of the world World (MCW) of USA.

17.2 Research and Publications

The School staff engaged in research and dissemination of research results. During the reporting period twelve (12) papers were published and are reported under section 23.3

Major research Projects

SN	Title of the Research project	Research Coordinator	Department
1.	Nylon teeth myth.	Prof. F.K. Kahabuka	Orthodontics. Paedodontics and Community Dentistry.
2.	Emergence Pattern of Third Molar Teeth among Tanzanians.	Dr. E.A. Mugonzibwa	Orthodontics. Paedodontics and Community Dentistry.
3	Post Doc TASENE Research Award.	Dr. M. Mtaya Mlangwa	Orthodontics. Paedodontics and Community Dentistry in Collaboration with Nijmegen University.

NB. All these are on-going research projects

17.3 Consultancy Activities:

Apart from our consultancy role in the treatment of dental in- and outpatients no

other project was carried out so far. The School was visited by a business consultant from the United Kingdom who helped to make a business plan for the school

17.4 Expansion/improvement of Academic programs during 2012/2013

Improvement: Competence based curriculum is being followed by first and second year DDS students. For the postgraduate programs competence based curriculum were finalized and implementation started in 2012/2013.

17.5 Highlights of major achievements:

First and second year DDS students started using the competence based curriculum. First year MDent students also started to use the competence based curriculum. Teaching and learning progressed smoothly and finally the students sat for modular examinations marking the end of semester one and two of 2012/2013.

17.6 Development of physical infrastructure

Replacement of the roof and painting of the annex building that is housing the dental store and the workshop was done in May/June 2013.

17.7 Information Communication Technology

Developing the School web page has reached its final stages. A brochure for the school was prepared and was ready for circulation by the end of June 2013. Development of the ICT network for the Dental services was initiated and finalised towards the 4th quarter of the academic year.

17.8 Staff involvement in Community Services during 2012/2013

Academic staff and semester 10 students took part in Community Dentistry Morogoro fieldwork. Outreach programmes in Dar-es-Salaam Primary schools by semester 8 and 10 students under the department of Orthodontics, Pedodontics and Community Dentistry were implemented as planned.

17.9 Activities Implemented during 2012/2013

Dean's office

- i) Installation of Internet cables and ports in all clinical cubicles, reception and X-ray room. This was done in preparation for:
 - a) The installation of digital x rays in all clinical rooms in the dental building with the assistance of Miracle Corners of the World (MCW).
 - b) Mounting special computer software for patients' records that shall smoothen records system throughout the building.

Department of Restorative Dentistry

- (i) Started outreach programs (based on Atraumatic Restorative Technique (ART) for both undergraduate and postgraduate dental students in Dar-es-Salaam educational institutions.
- (ii) Promote research activities among staff
- (iii) Promote collaboration with other Universities
- (iv) Conduct continuing education courses on cosmetic dentistry and dental materials.

Department of Orthodontics, Paedodontics and Community Dentistry

- (i) Teaching of three major subjects to undergraduate students (Paedodontics and Orthodontics and Preventive and Community Dentistry) and Postgraduate students in Paediatric Dentistry and Community Dentistry
- (ii) Promote research activities among staff
- (iii) Provide treatment service to children
- (iv) Promote collaboration with other Universities

Department of Oral and Maxillofacial Surgery

- (i) Promote research activities among staff
- (ii) Provide specialized treatment services to outpatients and in patients
- (iii) Promote collaboration with other Universities

17.10 Visits

Visit to the school of Dentistry

The School of Dentistry was visited by the First Lady, wife of the President of the United Republic of Tanzania in May 2013. Other visitors were staff from the Miracle Corners of the World (MCW), USA including the Health Project Director Dr. Marion in November 2012 and March 2013. The school also received visitors from USA, Finland and Kenya. The main aim of the visits was to foster collaboration between the dental School of MUHAS and their institutions.

Visit to departments in the School of Dentistry

The Departments of Oral and Maxillofacial Surgery, Orthodontics, Paedodontics and Community Dentistry as well as the Department of Restorative Dentistry were visited by different batches of elective students from different Universities in the UK, Ireland, Canada and USA. Also, they were visited by different external examiners from South Africa, Nairobi and Herbert Kairuki Memorial University (TZ).

17.11 Constraints faced by the School during year 2012/2013

During the reporting period the school faced the following challenges: -

17.11.1 Materials for Teaching & Service

- (i) Inadequate funds for the purchase of stationeries and teaching materials
- (ii) Inadequate teaching facilities including Laptops and LCD Projectors.
- (iii) Inadequate teaching space especially in the department of Oral and Maxillofacial Surgery (OMS). The main lecture hall has been released to MUHAS, so the school remains with three classrooms only. One of these classrooms is currently used to store dental materials. This leaves two rooms only for all undergraduates and ADO students. The deficit shall be felt more when the competence-based curriculum is put into practice in the clinical subjects during the next academic year.
- (iv) Procurement of materials is not smooth with a lot of unnecessary delays. Since the whole process of procurement, including for patients' services has been handed over to the School of Dentistry there is a room for improvement in the PMU department.

17.11.2 Staffing

- i) Age profile skewed towards retirement age among the faculty in all the departments.
- ii) The employment slots given to the school are very few hence an urgent need for recruitment of young staff otherwise soon the school shall rely mainly on retired staff.
- iii) Difficult in improving performance of majority of supporting staff whose level of education is a maximum of Primary School (STD VIII). This seems to be a permanent problem.

17.11.3 Equipment

- (i) Inadequate computers for staff
- (ii) Unavailability of a wireless internet system in the School
- (iii) Unsatisfactory office furniture for academic members of staff in all departments and the Dean's office.
- (iv) Poor Public toilet facilities in the building.
- (v) Need for security metal grill doors at the dental clinics

17.12 MUHAS-MNH cooperation

The MUHAS-MNH Joint Committee was re-activated. For the first time MNH released funds from revenue collected from patients for the months of November 2012 to March 2013. MUHAS took over the collection of revenue in the dental building from the 1st of June 2013 and from July 1st it took over the responsibility of procuring materials and supplies for patients' treatment.

Working relationship between the two institutions has remained good during 2012/2013. Academic members of staff have consistently rendered services to in patients at the MNH new OPD clinics, wards and operating theatre.

18.0 School of Pharmacy

18.1 Introduction



Prof. V. Mgoyela

The School continued to provide services in drug quality control through its Pharm R & D Laboratory to clients and assisting the Ministry of Health and Social Welfare as well as its various Agencies in several areas of pharmaceutical service policy formulation and implementation. The School is currently running one undergraduate program and seven postgraduate programs viz.

MPharm Quality Control & Quality Assurance, MPharm Pharmacognosy, MPharm Industrial Pharmacy, MPharm Pharmaceutical Microbiology, MPharm in Hospital and Clinical Pharmacy, MPharm Medicinal Chemistry and MSc Pharmaceutical Management.

The School is looking forward to establish one undergraduate and one postgraduate program in BSc in Pharmaceutical Analysis & Herbal Medicines and MSc Medicine Regulatory Affairs respectively after conducting a thorough market survey. The following are the highlights of major achievements and challenges during 2012/2013.

18.2 Teaching and Learning

18.2.1 Academic programmes

In this triennium the School advertised the following programmes for potential candidates: Bachelor of Pharmacy programme as the only undergraduate academic programme and seven postgraduate programmes namely; MPharm in Hospital and Clinical Pharmacy, Industrial Pharmacy, Quality Control and Quality Assurance, Pharmacognosy, Medicinal Chemistry, Pharmaceutical Microbiology and MSc Pharmaceutical Management.

Table 10 The number of postgraduate students admitted during 2012/2013

Programme	female	Male	Total
MSc Pharm Mgt	3	5	8
MPharm Hosp & Clin pharmacy	1	2	3
MPharm QA & QC	1	1	2
MSc Industrial Pharmacy by Research	-	1	1
MSc QA & QC by Research	-	2	2
PhD	-	1	1
TOTAL	5	12	17

18.2.2 New Postgraduate Students in the School for 2012/2013

This is a downward trend from last year when most of these programmes recorded a higher admission rates as shown in the Figure 9.

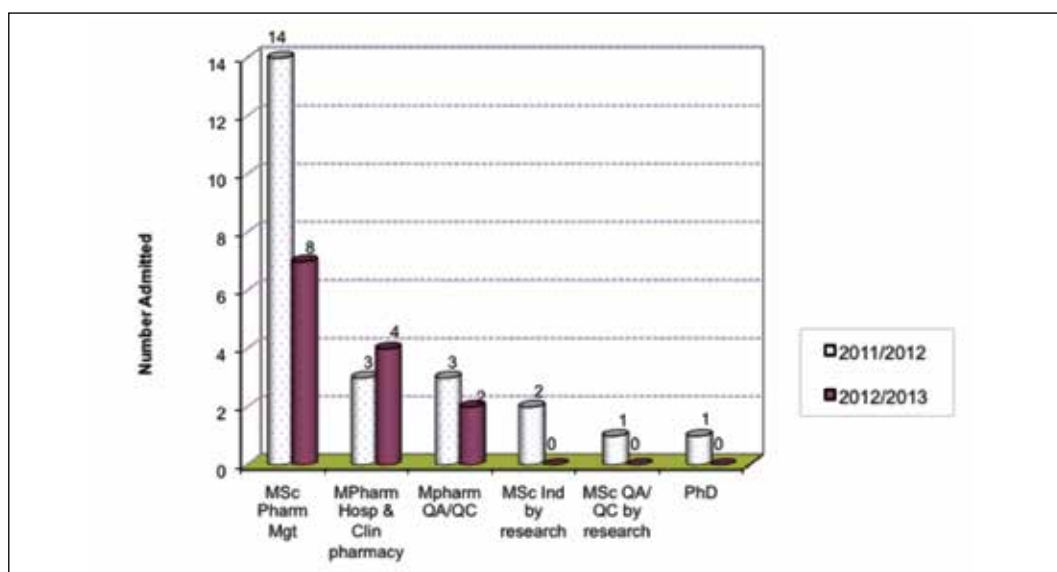


Figure 9: Trends in Postgraduate student admission between 2011/2012 and 2012/2013.

18.2.3 New Undergraduate Students in the School for 2012/2013

For the undergraduate programme the School admitted 53 students (12 Females and 41 Males). This admission figure is in contrast to a higher one recorded last academic year (64 students were admitted). The actual enrolment capacity is 50 students but the School usually takes about 10% more in anticipation of dropouts and those who do not turn up.

18.2.4 Student enrolment

New and ongoing student registration during the reporting year is summarized in Table 18.2 and 18.3 below:

Table 11 BPharm Student Enrolments in 2012/2013

First Year			Second Year			Third Year			Fourth Year			Grand Total		
F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
13	40	53	15	49	64	9	31	40	9	31	40	46	151	197
24.5%			23.4%			22.5%			22.5%			23.5%		

These figures tally neither with the admission capacity of the programme nor with gender balance strategy of the School which has projected an annual admission of capacity of 50 students and the gender balance of at least 30% female students. This needs to be brought to the attention of the TCU, which has taken over the admission process.

Table 12 Postgraduate Student Enrolments in 2012/2013

Academic Year	MSc Pharm Management	MPharm Clin Pharm	MPharm QA	MPharm Ind by Research	MPharm QA by Research	PhD
2012/2013	8 (37.5%F)	3 (33.3%F)	2 (100%F)	1	2	1

The enrolment of postgraduate students decreased to 13 students in the year under review from 26 in the previous year.

18.2.5 Implementation of the new Competence Based Curriculum and Performance in Examination

The new modularized competence-based curriculum was implemented for the second year for the undergraduate programme. There has been significant improvement in

students' and lecturers' performance as compared to last academic year especially in the first year. This is reflected in this year's performance for the 1st & 2nd year's students. Failure rate for the first year students in the year 2012 was 70.3% while in 2013 it dropped to 28.3%. (Figure 18.2).

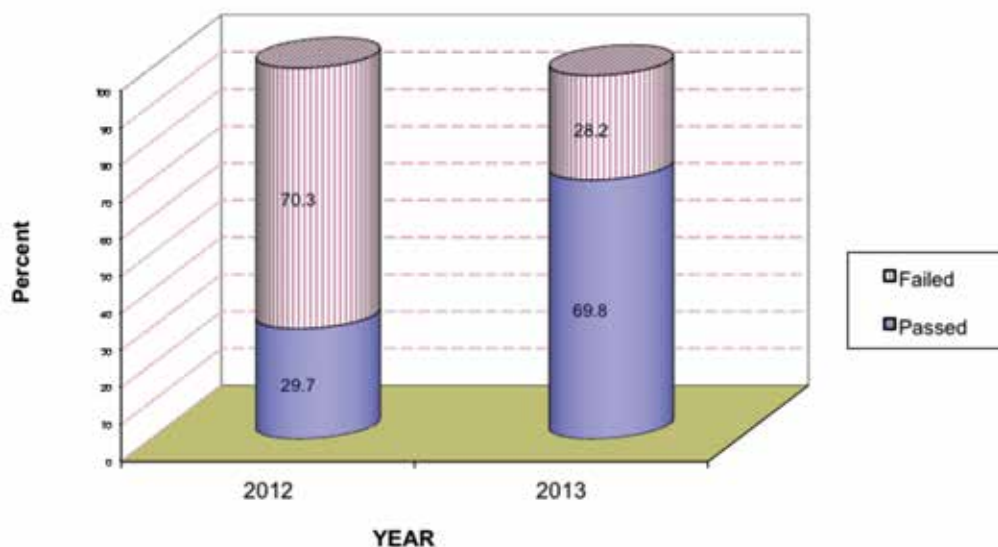


Figure 10: Trends in the performance of first year students between 2011/2012 and 2012/2013 after the introduction of competence-based curriculum

As indicated above, the competence-based curriculum has significantly improved academic performance with the failure rate dropping to as low as 20.8% in Professionalism for Health Professionals followed by Basic Organic Chemistry (9.4%). In general the academic performance for the second year undergraduate students was satisfactory; and for the final year students, the overall academic performance was very good and much better than the previous year. The second year students recorded a similar performance even the previous year with a failure rate of 56.3% at first sitting.

Table 13 Student performances in exams at first sitting – March 2013

SUMMARY OF RESULTS	1st yr	2nd yr	3rd yr	4th yr
Number of students sat for the Examination	53	64	40	40
Number of students passed	37	28	25	31
Number of students failed	15	36	14	9
Number of students absconded	0	0	0	0

Number of students postponed studies	0	0	0	0
Number of students results withheld	1	0	0	0
Incomplete results	0	0	0	0
Failure rate	28.3%	56.3%	35.0%	22.5%

For post graduate students academic performance was generally unsatisfactory because of unsatisfactory performance in ER600 (Epidemiology & Research Methodology) as in the previous year.

Table 14: Postgraduate Student performance

	MSc Pharm Mgt	MPharm Hosp & Clin Pharm	MPharm Qc & QA
	Yr 1	Yr2	Yr 1
Number of students sat for the Examination	7	14	4
Number of students passed	2	13	3
Number of students failed	4	1	1
Number of students ab-sconded	0	0	0
Number of students post-poned studies	1	3	0
Number of students re-sults withheld	0	0	0
Incomplete results	0	0	0
Failure rate	57.1%	7.1%	25%

18.2.6 Student output

For the undergraduate programme, a total of 31 final year students passed while the remaining 9 who had failed subjects in previous years/semesters, once they pass their supplementary examinations in September 2013, they may join their colleagues for the graduation ceremony in December 2013. For the postgraduate programmes 18 students are expected to graduate.

18.3 Human Resource Development School of Pharmacy

18.3.1 Staff Recruitment and Development

During the 2012/13, one member of staff reached retirement age. This was Dr. Mhina Chambuso who was a Senior Lecturer in the Department of Medicinal Chemistry. Dr. Chambuso was however offered a two year contract and he is still in the Department. Towards the end of the year under review, the Department of Medicinal Chemistry lost a Senior Lecturer, Dr. Singfrid Mung'ong'o. In the Department of Pharmaceutical Microbiology, Dr. Raphael Z. Sangeda returned from PhD studies in Belgium in May 2013. The Department of Pharmaceutics still faces a shortage of staff, having two retired members of staff (Prof. M. Justin-Temu and Mr. C.I.A. Kabati), and three members of staff on postgraduate studies (Ms. Betty Maganda, Mr. Thomas Mori and Mr. Wilbroad Kalala). Therefore the Department has only two unretired members of staff station (Dr. G. Kagashe and Mr. Dickson Pius). However, towards the end of the year under review two Tutorial Assistants, Mr. Mathias Eulambius and Ms. Amisa Tindabanyile were recruited in the Department of Pharmaceutics and another one, Mr. Rogers Mwakalukwa was recruited in the Department Pharmacognosy. In the Department of Pharmacognosy (Unit of Pharmacology, Dr. Elford Ngaimisi completed his Ph.D studies and reported back in April 2013 and Mr. Mlyuka Hamu was recruited as a Tutorial Assistant and Ritah Mutagonda as Assistant lecturer.

Academic staff members who were on training during 2012/2013

S/N	Name	Department	Degree Sought (Institution)	Status
1	Mr. R. Sangeda	Pharmaceutical Microbiology	PhD (KU Leuven)	completed
2	Mr. E. Ngaimisi	Unit of P'cology & Therapeutics	PhD (Karolinska Institute)	completed
3	Mr. W.M. Kalala	Pharmaceutics	PhD (MUHAS)	Ongoing
4	Ms. B. Maganda	Pharmaceutics	PhD (MUHAS)	Ongoing
5	Mr. A. Mori	Pharmaceutics	PhD (Karoliska)	Ongoing
6	Ignace Alphonse	Pharmacognosy	MSc Pharmacology (MUHAS)	completed

18.3.2 Professional Development

A total of 11 members of staff attended a TOT orientation workshop in Morogoro on Supply Chain Management that was organized by the JSI- USAID in March, 2013. The School has now adequate capacity to administer the subject to both undergraduate and postgraduate students.

18.4 Research and Publications

18.4.1 Research Grants

Two research grants were secured: one in Nano-medicine technology and another one in Screening for trypanocidal agents from plants.

18.4.2 Research undertaken in the School

Staff members in the School carried out research in various areas relevant to pharmacy and pharmaceutical sciences. Thus research ranged from basic pharmaceutical sciences to pharmacy practice. These included evaluation of plants for biological activity among neglected diseases, quality assessment of medicines and other pharmaceutical products, pharmacokinetic studies, study of practices of prescribing and dispensing of medicines and microbial drug resistance studies.

18.4.3 Publications produced in the School

During the year under review, academic staff members in the School published a total of 36 articles in scientific journals. This is an average of about 1.4 papers per academic staff per year which is a two-fold increase as compared to 0.64 in 2011/2012 reporting year.

18.5 Five year Rolling Strategic Plan 2013/14 - 2017/18

The School's five year rolling strategic plan was revised in October 2012, after incorporating inputs from School level and University-wide strategic planning workshops.

18.6 Establishment of resource mobilization committee

A consultancy Bureau committee consisting of 5 staff members was appointed to oversee Income Generation activities. The activities carried out in the year under review include is listed in the next section:

18.7 Consultancy and public services

(i) Analytical testing services to the USAID/SCMS

The school continued to implement its contract with the Supplies Chain Management Systems in collaboration with USAID for quality assurance for medicines it procures in support for PEPFAR programs in Tanzania. The Analytical lab continued to analyze samples of medicines from the USAID/SCMS at an agreed fee of 200 USD per batch. This activity was able to generate periodically income to MUHAS as 8% institutional overhead. For the year under review a total Tshs 19, 140, 00.00 of and USD 43, 075.00 were generated through medicines samples analysis.

In addition to income generated other tangible outcome resulted. This included 4 masters students who have benefited from the resources made available from USAID collaborations to support the conduction of their experimental laboratory work at Pharm R&D Lab. The ongoing renovation of the QC lab is expected to be completed end of February 2014. With this USAID Support we anticipate expanded testing base in the near future.

(ii) Analytical testing services to the Action Medeor

The Analytical lab continued to analyze samples of medicines from another client Action Medeor this activity was able to generate periodically income to MUHAS as 8% institutional overhead. For the year under review a total Tshs 3, 120, 00.00 were generated through medicines samples analysis.

(iii) MSH study to Survey quality of medicines in ADDO

The School of Pharmacy was contracted to assess the quality of medicine samples from selected Accredited Drug Dispensing Outlet (ADDO) in Tanzania with a contract from the Management Sciences for Health (MSH) that was won during the last reporting year. The contract was signed as indefinite quantity contract (IQC) with 160,000 USD as ceiling. School of Pharmacy submitted invoice with Tshs 71,001,002/= to execute the medicine testing component. For the year under review a total Tshs 19,619,000.00 has been received

(vi) Part-time teaching at other universities.

Members of staff in the school assisted the practical training of pharmacy students at Catholic University of Health and Allied Sciences (CUHAS) at Bugando and St John's University in Dodoma. The university is expected to generate more than 5,000,000 Tshs. The formula to share this revenue will be guided by RMCC policy of the University. The Memorandum of

Understanding between MUHAS and CHUAS as well as ST John University is still being processed by School.

18.8 Challenges Faced by the School during the reporting year

18.8.1 Infrastructure

The school continued to experience severe constraints in infrastructure for all core activities (Teaching, Research and Consultancy) in terms of space, equipment, reagents and funding.

18.8.2 Staffing

Staffing is inadequate in most of the Departments: Pharmaceutics Department which is responsible for teaching two subjects to BPharm and MPharm students and 2 post-graduate programmes has 2 post retired staff, only 1 active senior staff and 1 Tutorial Assistant, 4 staff on studies; the Department of Pharmaceutical Microbiology has 3 members of staff with heavy administrative responsibilities; Medicinal Chemistry has 2 post retired staff, 2 staff with heavy administrative posts and 2 staff in charge of R&D laboratory; Unit of Pharmacology and therapeutics has 6 members of staff and Pharmacognosy has 2 post retired staff, 3 staff with heavy administrative posts and 1 Tutorial Assistant.

19.0 School of Nursing

19.1 Introduction



Dr. S. Leshabari

In the academic year 2012/2013 the School of Nursing (SON) continued to perform its core functions of teaching, research and public services as well as establishing links and other collaborative activities. The school is currently running three undergraduate programs and two postgraduate programs namely, Bachelor of Science in Nursing, Bachelor of Science in Midwifery, Bachelor of Science Nursing Management, Master of Science in Mental Health Nursing and Master of Science in Critical care and Trauma Nursing.

The School is looking forward to start one master program in Midwifery (Master of Science in midwifery) and one undergraduate program in Nursing Education (Bachelor of Science in Nursing Education).

19.2 Teaching:

For the year 2012/2013, total number of (90) applicants was registered to join both undergraduate and postgraduate programs at the SON. The distribution is as follows; BSc. Nursing (45), BSc. Midwifery (26), BSc. Nursing Management (9) MSc. Nursing Mental Health (3) and MSc. Nursing Critical care and Trauma (7).

During the sixth MUHAS graduation ceremony, a total number of seventeen (17) undergraduate students were awarded Bachelor of Science degree in Nursing. Of these, six (6) were awarded Bachelor of Science in Nursing and eleven (11) were awarded Bachelor of Science in Nursing Management. Nine (9) postgraduate students were awarded Master degree in two different programs as follows: Master of Science Nursing Mental Health (3), and Master of Science Nursing Critical Care and Trauma (6).

19.3 Curriculum

The school has developed two new curricula (Master of Science in Midwifery and Bachelor of Science in Nursing Education) which when ready shall be submitted for approval. The School also completed revision of two existing master programs to competence-based and have been submitted for approval by SHDC. The academic members are converting the 3-years equivalent undergraduate programs to a 4-years program similar to direct entrants undergraduates.

19.4 Skills laboratory

The School of Nursing received four MamaNatalie birthing simulators (for helping mother to survive bleeding after birth) and one BabyNatalie simulator (for helping baby breath) from Laerdal Foundation through International Confederation of Midwives (ICM) for training midwifery skills to students.

The School has also received equipment worth US\$ 10,000 for the skills lab from American International Health Alliance (AIHA) through the Tanzania Nursing Initiative (TNI), a project under the school of nursing funded by PEPFAR.

19.5 Collaborations

The Linnaeus Palme collaboration between SON and Umea University and also with Uppsala University is ongoing on well. This has facilitated teacher/student exchange for this academic year. Four best students (2 BSc. Midwifery) went under student exchange program for Midwifery clinical placement in Uppsala University; and again (2 BSc. Nursing) went for nursing clinical placement in Umea University, Sweden for 3 months during their long vacation. One faculty taught at Uppsala University for a period of three weeks as part of teacher-exchange program.

Partnerships for research, teaching and student exchange are continuing with various Universities e.g. University of Illinois in Chicago, U.S.A; Wright state University of Ohio, USA; University of Pennsylvania; Dartmouth University; St Luke's College of Nursing in Japan; Bergen University College in Norway; University of Utrecht in Holland and University College of Odense in Denmark.

The Dean SON has recently visited the Child Nurse Practice Development Initiative at the University of Cape Town, South Africa to establish relationships and to undertake a scope review to assess the possibility of collaboration in the design of a paediatric nursing programme specific for Tanzania. She was impressed by their methods of training students to be experts in clinical practice.

Between April and October 2013, one faculty (Menti Ndile) participated in Dr LEE Jong-wook program for Nurses, which he attended (together with two fellows from MNH-Marwa Wambura and Robert Aloyce). It was a 6-month program. The purpose of the training was capacity building of the fellows in clinical practice and supervision. The School of Nursing has formed partnerships with other Schools of Nursing in the eight Universities in health sciences (public and private) in the country through the formation of the Dean's forum. The forum intends to collaborate in the various functions to promote Nursing and Midwifery education and professionalism in Tanzania. The SON therefore strives to maintain and strengthen these links and make concerted efforts to promote international, regional and local links.

19.6 Human Resource Development in the School of Nursing

Staff Recruitment

During the 2012/13 three Assistant Lecturers were recruited; Mr. Baraka Morris for the Department of Nursing Management and Ms. Judith Shayo and Beatrice Mwilike for the Department of Clinical Nursing.

Staff Development

In the year under review 2012/13 three faculty members of Staff continued with PhD training at MUHAS and two academic members completed their PhD. All three Heads of Departments were trained on the Nursing Leadership Course, which was organized, by American Organization of Nurse Executive (AONE) and AIHA. Two academic staff were trained on 5S and KAIZEN for continuing quality improvement. They aim at implementing 5S at the SON and train other staff and students. One academic member was trained on Strengthening Midwifery Education and Developing Media Skills; Helping Baby Breathe and Helping Mother Survive Bleeding After Birth Champions and Master Training in Cape Town, South Africa. She is aiming at strengthening Teaching and Learning in Midwifery program.

19.7 Research and Publications

Staff members in the School carried out research and wrote proposals in various areas relevant to Nursing and Midwifery. During this reporting period 10 publications were produced in the SON.

20.0 School of Public Health and Social Sciences

20.1 Introduction



Dr. D. Urassa

The School of Public Health and Social Sciences is one of the five Schools at Muhimbili University of Health and Allied Sciences. The School addresses the core functions of the University including training, research and community service as well as establishing links and collaborative activities.

The School of Public Health and Social Sciences is running one undergraduate course namely Bachelor of Science in Environmental Health Sciences and ten postgraduate courses namely, Master of Public Health regular Track and Master of Public Health Executive Track, Master of Arts in Health Policy and Management, Master of Science in Tropical Diseases, Master of Science in Applied Epidemiology, Master of Science in Epidemiology and Laboratory Management, Master of Science in Parasitology and Medical Entomology, Master of Medicine Community Health, Master in Behavior Change and Master in Behavior Change Communication. In the new academic year, the School will run a new Master programme namely Master of Science in Environmental and Occupational Health.

The School is looking forward to start new Master programmes including MBA in Health Service Management, curriculum is at final stages and other programmes including: - MSc Health Promotion, MSc. Biostatistics and MSc. Health Care Delivery Science.

20.2 Workshops/Meetings Attended

The Dean met with Dr. Sally Zweimueller from MEASURE DHS and had a discussion on opportunities that exist to support staff that would like to attend short course on how to analyze DHS data. The information was disseminated to all academic staffs that are to apply for such course.

The Dean also met with Damien Churianx IOM representative and discussed about possibilities of identifying area of research in global health where the institution can collaborate.

Dr. John Mayer and Dr. Richard Waddell also met with the Dean to discuss about possibility of establishing masters in Bioethics in collaboration with Dartmouth University. The collaboration will be between the universities but school of Public Health and Social Science will coordinate teaching of the program.

The Dean attended a meeting in Kampala to discuss on Resilient African Program whereby 20 Universities in Africa have formed a consortium with four hubs namely Uganda, Ethiopia, Ghana and South Africa. The hubs will coordinate research activities on Resilience for the nearby countries and Tanzania will team up with Uganda in this initiative.

Furthermore, the Dean attended a meeting in DRC Congo and Rwanda. Deans from all the 20 Universities met in Kampala to discuss how to implement the program. Several meeting have been conducted between SPHSS team and counter parts from the Open University of Tanzania working on the establishment of Master of Public Health programme to be offered as a distance learning (ADL). Staff are now trained on how to develop teaching and learning material to fit distance learners.

Members of staff participated in the Constitutional Debates Brainstorming Workshops and presentations. Other staff members attended workshops focusing on women and constitution. Members of staff also participated in initiative for expanded democracy and participatory governance organized by UN Women, Tanzania Women Fund, and Tanzania Gender Networking Programme. One academic staff attended a scientific workshop in South Africa on Neuro toxicity. Two other members of staff attended the Global Maternal Health Conference (GMHC) in Arusha.

A dissemination workshop was organized in order to evaluate Morogoro Project held at Courtyard Hotel in Dar Es Salaam. Another workshop was organized at Holliday Inn Hotel, which involved research scientists from MUHAS, NIMR and stakeholders from MoHSW. Deputy Minister opened this workshop for Health and Social Welfare Hon. Dr. Rashid aiming at discussing matters regarding modalities of operation and collaboration between researchers and policy makers.

20.3 Teaching

A total number of twenty (20) applicants were selected to join BSc. Environmental Health Sciences program. A total number of One hundred and forty one (141) applicants were selected to join different master programs in the School of Public Health and Social Sciences. The Distribution is as follows, MSc. TDC (4), MPH (31), MPH Executive Track (49) M.A. HPM (12), MSc. Applied Epidemiology (15), MSc. Epidemiology and Lab. Management (12), MSc. Parasitology and Medical Entomology (2), MSc. Behavior Change Communication (7) and MSc. Behavior Change (9).

During the sixth MUHAS graduation ceremony a total number of twenty (20) undergraduate students were awarded Bachelor of Science degree in Environmental Health Sciences, seventy one (71) post graduate students were awarded Master degree in different programs as follows; Master of Public Health regular Track (15),

Master of Public Health Executive Track (18) MA. Health Policy Management (9) MSc. Epidemiology and Lab Management (5), MSc. Applied Epidemiology (7), MSc. Parasitology and Medical Entomology (3), MSc. Tropical Disease Control (10) and MMED Community Health (4)

All academic staff participated actively in teaching both undergraduate and postgraduate programs within the school and for those cutting across the entire University.

The School has also developed thirteen new short courses, which are at different stages of the accreditation following the guidelines provided by the office of the Directorate of Continuing Education and Professional Development. These courses are: -

1. Disaster Preparedness
2. Strategic Planning for Behavior Change Interventions
3. Qualitative Research Methods
4. Project Management, Monitoring and Evaluation
5. Health System Research
6. Operation Management in Health Care
7. Occupational Health and Safety
8. Scientific Writing
9. Principles of Occupational Hygiene
10. Non Communicable Diseases Prevention and Control
11. Basic Malaria Microscopy course for Primary Health Care Workers
12. Management of Fever course for Primary Health Care Workers
13. Laboratory Management course during Epidemic situations.

These short courses will strengthen and sharpen skills of health professionals working in various areas as well as being used as a source of internal generation of funds to support running of school and university at large.

21.0 Dean of Students Office

21.1 Introduction



Dr. D.C.V Kakoko

The office of the Dean of Students is responsible for the administration of student affairs, mainly personal and social welfare aspects of the students' life. During the reporting period the office continued to provide various services including: health, accommodation, cafeteria, games and sports, counseling and guidance. As the students' organization was still banned, most of the students' activities, which were previously handled by the student government (Muhimbili University of Health and Allied Sciences

Students Organization - MUHASSO), were managed by the office of the Dean of Students.

21.2 Orientation of First Year Students

The orientation programme for the first year students started on the 01st October 2012 to 05th October 2012. All orientation activities were conducted successfully. During the orientation programme incoming students were addressed by the University Management including the Vice Chancellor, Deputy Vice Chancellor (Academics, Research and Consultancy), Deputy Vice Chancellor (Planning, Finance and Administration), and Director of Undergraduate Education. First year students were also addressed by external guest speakers from the National Health Insurance Funds (NHIF) and Higher Education Students' Loan Board (HESLB). There were also sessions on "Conflict Management and Problem Resolutions among University students" that was presented by Dr. Elisante Gabriel who is the Director of Youth Development in the Ministry of Youth, Culture and Sports.

Other aspects covered during the orientation programme included: Introduction to MUHAS life, Students Leadership at MUHAS, Guidance and Counseling for students at MUHAS, Students services, Security Issues at MUHAS, the Art of Communicating in the University Setting, Gender Issues at MUHAS, and Sexual, Reproductive Health and HIV/ AIDS Issues.

On the last day of the orientation program, incoming students had sports tournaments. The event was opened by the Manager of the National Micro-finance bank (NMB) of Muhimbili Branch and the closing was made by the Councilor of Western Upanga Ward (Hon. Mbagga). Students participated in various games and sports including football, tug of war, eating hanging apples, eating bread and soda, rope jumping,

racing 100 meters, racing with sac, racing and hand filling water in the bottle. Prizes were given to the winners and finally the event ended by serving snacks and soft drinks to all students who attended.

21.3 Accommodation Services

Two hundred ninety seven (297) first year students from upcountry, twenty four (24) foreign postgraduate students and two hundred forty seven (247) continuing students from upcountry were accommodated at Chole road hostel making a total of accommodated students at Chole road hostel to be 568 corresponding to the available spaces at Chole road hostel. Three hundred eight two (382) clinical students and fourteen (14) sick students were allocated rooms at Muhimbili hostel. This made a total of accommodated students both at Muhimbili and Chole hostels to be nine hundred sixty four (964) students as summarized in the following table:

Table 15: Accommodation Status for 2012/2013 academic year

Total number of registered students	1471
The number of students accommodated at Chole hostels	568
The number of students accommodated at Muhimbili hostels	396
Total number accommodated students	964
The number of students not accommodated (who applied for rooms)	273
Percentage accommodated undergraduate students	65.5%

All students who were accommodated in the hostels of the University paid accommodation fee for the first semester. However, there were some delays in paying fee for accommodation for the second semester. This was due to the fact students do not hand-over rooms during the mid-semester. Nevertheless, those who had not paid were served with reprimand letters or intention to evict them from the rooms.

21.4 Security Issues in the Hostels

Compared with the previous years, there were fewer theft cases reported in the hostels both at Muhimbili and Chole road hostels. This was attributed to the closing of Post-graduate students' hostel gate as well as enforcing the practice of showing identity cards at the gates.

21.5 Cafeteria Services

Cafeteria services were provided to students for the whole period of the year as required. The caterer namely Mugaya General Enterprises continued to operate cafeteria services both at Muhimbili and Chole road. Compared to last year, the

services were better and most of students were appreciating his services. Besides, there was still space problem as the Muhimbili students' cafeteria can accommodate only 200 students at a time. This causes long queues especially during lunchtime as almost all students break for lunch uniformly between 12:30 to 02:00 pm.

21.6 Students' Health Services

Health services continued to be provided satisfactorily to the students. First year students continued to register with the National Health Insurance Fund (NHIF) scheme and some of the continuing students renewed their expired cards for 2012/13 academic year. Currently, majority of students have joined the scheme making the total number of active NHIF members to be 917 (55.9%) including 10 post-graduates (2.5%). Nevertheless, 104 (11.3%) membership cards were yet to be issued to students to the end of academic year. There was therefore an arrangement, which helped students to access medical services at Muhimbili National Hospital when they had paid but were yet to receive their cards.

21.7 Counseling Services

Counseling and guidance services continued to be offered to the students as required and a total of **71** students sought counseling services voluntarily. The major problems reported were family problems, social relationships, and prolonged sickness, and mental illness cases, psychological and academic issues. In addition, there was also a special task of academic counseling regarding all students who had performed poorly in their examinations. This was intended to know the causes and find out the interventions to make them improve. These students were: **4** from SPHSS, **9** from School of Dentistry, **27** from school of Nursing, **32** from School of Medicine, **16** from the School of Pharmacy and **17** from the Institute of Allied Health Sciences. The exercise was very successful.

All schools allocated academic advisors to all first year students and names were posted on school notice boards for students to note and contact their advisors. Accordingly, the Dean of Students Office prepared and distributed mentor-mentees forms that have to be filled by both students and mentors every semester.

21.8 Students' Loans/Grants

Students who had filled the HESLB forms correctly received their first and second installments of meal and accommodation loans/grants for the 2012/2013 academic year. Meal and accommodations loans were disbursed on time. Some students did not get meal and accommodation loans/grants and the follow-up indicated that they had not updated their information on-line in the previous year, which was mandatory for a student to get loan/grant from the HESLB.

21.9 Student Leadership and Governance

Muhimbili University of Health and Allied Sciences Students' Organization (MUHASSO) remained banned as students were yet to comply with the Universities (Student Organization) regulations published under Government Notice No. 178 of 2009 and the Universities (Student Organization) (Amendment) regulations published under Government Notice No. 455 of 2011. Besides the ban of MUHASSO, interim arrangements for the representation of students in different organs of the University continued. Student representatives attended School Boards as well as the University Senate.

Following various efforts of the University to encourage students to revise MUHASSO constitution, a Committee that composed of 11 Class Representatives was formed to revise MUHASSO Constitution. Likewise, the 2010 MUHAS Students By-Laws were revised. The drafts of the revised MUHASO constitution and revised By-Laws were presented to the Committee of Deans and Directors (CDD) and thereafter to the Students Affairs Committee (SAC) and thereafter revised. The Council approved both documents on 04th July 2013.

21.10 Students' Disciplinary Matters

Twenty-four (24) students who had been rusticated were reinstated for studies on 15th December 2012. Upon their reinstatement, they all signed a contract with the University not to participate in any other students' riots. They also signed that they should not involve themselves with any issues related to student Government for the rest of their time in the University. Eight students who were suspended for two years are expected to be reinstated on 15th December 2013. Two expelled students continued to pursue their case in the High Court of Tanzania

21.11 Games/Sports and Recreational Activities

Inter-School Sports Competitions:

From 20th March 2013 to 08th May 2013, TAMSA organized inter-school sports competitions were conducted at MUHAS football ground in form of league. The Dean of Students was the Guest of Honor to officiate the closing of the league. There were:

- (i) Football game between MD II and MD V where MD V won the game.
- (ii) Volleyball game was played between MD II and MD II (females). MD II won the game.
- (iii) Volleyball game for males was between MD IV and MD II where MD IV won the game.

Awards for the winners ranged from Tshs. 100,000/= to 400,000/= and the referee was given Tshs. 5,000/= per match.

MUHAS Vs UDSM friendly football Match:

This was held at the University playgrounds on Wednesday 15th May 2013 whereas MUHAS soccer team scored 1- 3 goals. The University Management supported the fans with transport and Tshs. 50,000/= for buying drinking water during the match.

MUHAS Vs Mburahati Freedom United friendly football Match:

The match was held at MUHAS football grounds on Friday 7th June 2013 and MUHAS soccer team won the match by scoring 3-1 goals.

MUHAS Vs Tambaza Football Club:

This interesting football match was held at MUHAS playgrounds on Wednesday 12th June 2013 and the outcomes were 1-1 goals.

21.12 Special Students' Activities and Events

From 03rd August 2012 to 7th August 2012 and from 27th to 30th August 2012, nine (9) students and two (2) staff participated in the International Youth Camp in Tanzania. The camp was hosted by the Ministry of Information, Youth, Culture and Sports in collaboration with International Youth Fellowship, Tanzania (IYF). The aim of the camp was to bring positive changes into youths' state of mind. The Dean of Students office thanked the University management for supporting students who participated in the IYC.

On 23rd October 2012, fourteen (14) students attended and participated in the Public Debate organized by the United Nations System in Tanzania on the theme "Greening

the Environment for Sustainable Livelihoods". The debate engaged the youths and students on current environment issues, challenges faced at the global, regional and country level and discussed the way forward.

From 31st October 2012 to 02nd November 2012, five staff in the Dean of Students office attended the workshop for six days to prepare the Dean of Students office strategic plan for 2012/2013-2016/2017. The Dean of Students office strategic plan was presented during the university strategic planning workshop.

On 8th December 2012, ten (10) students participated in the dialogue organized by the University of Dar es Salaam Gender Centre in collaboration with the Civil Society Organizations (CSO). The dialogue was a part of celebration of the 16 days of Activism against Gender-Based violence and violence against Women.

On 9th January 2013 the Councilor, Western Upanga Ward (CCM) donated one set of Jersey and two balls for football so as to strengthen games and sports among MUHAS students.

On 7th March 2013, the University of Dar es Salaam Gender Centre in collaboration with CIDA and VSO invited fifteen (15) MUHAS students to attend the wonderful and historic event of IWD held at the Theatre Hall-National Museum Auditorium and House of Culture. The theme was *"Youth Momentum in Gender: Be the Change"*.

On 12th June 2013 there was a seminar on Social Security matters that was conducted by the LAPF pension fund officials to all finalist students starting from 2:00 pm at New Lecture Theatre 5. The final year students as well as continuing students attended the seminar, which was intended to expand their knowledge regarding their career as well as social security issues in general.

21.13 Students' Academic Associations held Different Activities

TAMSA conducted a seminar on Leadership skills; Project Management and Curriculum Vitae writing as well as a short course on project Management and Grants Application. These were followed by a General Annual Assembly held on 13th June 2013.

TAPSA made a tour in Bagamoyo and played games and Bonanza.

TEHSA conducted one day meeting to discuss various issues regarding Environmental day, which was organized on 8th April 2013, to commemorate an "International Environmental Day"

TAMELASA had training on Carrier Development at IMTU facilitated by NBC. They also had training on Carrier Development and Customer Care Services at MUHAS facilitated by East African Productivity trainers Ltd. On 27th April 2013, TAMELASA attended a General meeting at KAM College and the theme was to discuss the challenges facing Medical Laboratory. Moreover, on 17th June 2013 TAMELASA attended a Scientific Tour at Chief Chemist House where all Medical Laboratory Sciences of MUHAS participated.

21.14 Students Clubs Organized and Conducted Different Activities

On 18th May 2013, the University of Dar es Salaam Gender Centre invited twenty five (25) of MUHAS students to a Dialogue on Gender, Law and HIV/AIDS, which was held at the UDSM. The dialogue aimed at educating public on HIV to discourage stereotypes, increasing knowledge, and create awareness about HIV/AIDS-related stigma.

On 19th May 2013, SAVE the Life club held Candle lighting at MUHAS (New lecture theatre) and then visited Kurasini Orphanage Centre where they played with children and lectured them on the issues related to HIV, ARVs, Counselling and Gender.

On 31st May, 2013, SAVE the Life club conducted candle light post event at MUHAS (New lecture theatre) where different topics were presented by internal stakeholders like HKMU, IMTU, TAYOA, TACAIDS and external presenters.

On Thursday 20th June 2013, Tanzania Commission for AIDS (TACAIDS) invited two (02) MUHAS students from SAVE the Life and Gender Club and two (02) Staff to attend the HIV Free Generation Champions held at Southern Sun Hotel Dar es Salaam. The purpose of the Champions was to raise awareness and advocate for strengthened partnership and national response regarding HIV/AIDS. The CHAMPIONS transcend political partisanship to speak freely and independently about the key HIV issues. His Excellency Festus Mogae (Retired President of Botswana) and the Chairman of the Champions for an HIV-Free Generation together with Prof. Miriam Were (former Chairperson of the Kenyan National AIDS Control Council and the AMREF Chairperson) moderated the session.

22.0 International and local Links Collaborations

The unit has received and processed applications for elective period of study in different departments within the Schools of Medicine, Public Health & Social Sciences, Dentistry and Nursing. The Unit received, registered and allocated a total of 150 elective and 32 exchange study students at MUHAS in the reporting year. Further, the unit also registered 50 occasional students who took their elective study in 20 different hospitals in Tanzania. The number of elective and/or exchange student has decreased substantially in the reporting period. This is attributable partly to an abrupt increase in resident permit fees from US \$ 120 to US \$ 550. However, after a lot of communications now the fee has been reduced to US \$ 250. Hopefully, with this change the number will start picking up again. The University has a working agreement with the WORK THE WORL elective study student placement; this has been able to bring the majority of students for elective study in the schools of Medicine, Nursing and Dentistry. Overall, the number of occasional students has also dropped substantially during the reporting period due also to the increased resident permit fee. Specific details and elaborations appear in the subsequent sections of this report.

22.1 Elective Study Activities

Elective study students from Europe especially Britain and Germany on clinical rotations; arrange for their elective individually, by applying to different teaching hospitals and or universities for clinical rotations. However, there are some upcoming institutions based in Europe that have started to coordinate elective study student applications and placements. MUHAS has a working agreement with one such institution known as WORK THE WORLD that organizes British universities and elsewhere-elective study placements in Tanzania. Another similar organization known as WORLD UNITE! arranges elective placements for applicants from Germany and other parts. We have worked with both organizations this reporting year.

Most universities from the USA, Canada, Norway and some other parts have a formal arrangement and their elective placement is centrally coordinated with more or less fixed time to start and specific places where their students can do the elective.

22.1.1 Institutionally Arranged/Coordinated Elective Study

- (i) Elective study students for the Institute of Traditional Medicine come under the ongoing UDSM-USA (MHIRT) Summer School Student Exchange Programme; however, the program did not field any student this reporting year.

- (ii) The Nijmegen University (HAN), Holland has a special arrangement with the School of Nursing – MUHAS; whereby their elective study students spend one week at MUHAS getting a general exposure to the Tanzanian healthcare system before going on elective study in other hospitals within Tanzania. MUHAS did not register any student under this arrangement. A group of 5 students from the Umea University, Sweden did 1 week clinical nursing rotation at MUHAS and 4 weeks rotation at the Buguruni Health center.
- (iii) This year MUHAS did not receive elective study students from the Dalhousie University, Nova Scotia, Canada for their usual one week elective study period at MUHAS; whereby they rotate in the School of Medicine; and in the School of Nursing.
- (iv) The Dartmouth University, USA has an elective arrangement with some departments of the School of Medicine. In the reporting period no student was received for elective at MUHAS.
- (i) The Harvard University, Boston, U.S.A. has an arrangement with the Departments of Pediatrics and Child Health and Internal Medicine, for their post-graduate students to do a 4 weeks clinical rotation at MUHAS. This year 2 Internal Medicine and one Pediatrics residents were received under this arrangement.
- (ii) The School of Nursing and the department of Radiology have established an arrangement with the Bergen University, Norway; whereby specified groups of students ranging from 2 to 7 carry out their clinical nursing or radiology rotation at MUHAS each year in August/November, November/February, January/March (Radiology rotation) or April/May for a total duration of 6 to 8 or 12 to 13 weeks. During the reporting period all the groups did their nursing or radiology rotations as per agreement.
- (iii) Another agreement exists with the HINT-NAMSOS – NORD TRONDELAG for nursing elective placements of shorter duration of 3 to 4 weeks. Four students were received under this arrangement.

22.1.2 Student Initiated Elective Study Arrangement

For the first, second and third quarter; 30, 18, and 42 elective study period students were registered at MUHAS respectively. In the last 3 months of the reporting period, 59 elective study period students have been registered at MUHAS for different durations

in different Clinical departments of the School of Medicine, Nursing and Dentistry.

- (i) The following departments / schools (with their respective total number of students in brackets) supervised the highest number of foreign elective study students during the reporting period: School of Nursing (# 60), Surgery (# 26), Internal Medicine (# 16), Paediatrics & Child Health (# 26) Obstetrics & Gynecology department (# 13), Emergency Medicine (# 8) and the School of Dentistry (# 11).
- (ii) In total 182 elective/exchange students were registered for the reporting year at MUHAS. The School of Nursing on average registered the highest number of elective students in each quarter, with an overall total of 60 for the reporting year.
- (iii) The Department of Pediatrics & Child Health had the highest number of Exchange students (in total 14). The majority were from Mie University in Japan (12 students in total)

**Table 16: Number of Elective and Exchange Students in MUHAS Departments:
Period July 2012 to June 2013**

Department / School	Student Numbers										
	Quarter # 1		Quarter # 2		Quarter # 3		Quarter # 4		Sub-total		Total
	Elect.	Exch.	Elect.	Exch.	Elect.	Exch.	Elect.	Exch.	Elect.	Exch.	
Internal Med.	1	1	1	-	1	2	8	2	11	5	16
Paed. & Child	4	1	1	-	1	-	6	13	12	14	26
Surgery	5	2	4	-	7	-	8	-	24	2	26
Obs. & Gyn.	-	-	1	-	5	-	7	-	13	--	13
Psych.	-	-	1	-	-	-	3	1	4	1	5
Microb.	-	-	-	-	-	-	6	-	6	-	6
Haemat.	-	-	-	-	-	-	-	-	-	-	-
Otorhinolaryngology	-	-	-	-	-	-	-	-	-	-	-

Ophthalmology	1	-	-	-	1	-	1	-	3	-	3
Orthopedics & Trauma	-	-	-	-	-	-	-	-	-	-	-
Radiology	-	-	-	-	-	3	3	-	3	3	6
Emergency	4	1	1	-	-	-	2	-	7	1	8
Anesthesiology	-	-	-	-	-	-	1	-	1	-	1
Nursing	9	-	8	-	26	6	11	-	54	6	60
ITM	-	-	-	-	-	-	-	-	-	-	-
Community	-	-	-	-	-	-	-	-	-	-	-
Dentistry	6	-	-	-	2	0	3	-	11	-	11
SPHSS	-	-	1	-	-	-	-	-	1	-	1
Pharmacy	-	-	-	-	-	-	-	-	-	-	-
SoM	-	-	-	-	-	-	-	-	-	-	-
Total	30	4	18	0	42	11	59	16	150	32	182

22.1.3 MUHAS Registered Foreign Occasional Students

Occasional student figure for the first, second and third quarter ranged from 18, 12, 4, while the figure for the last quarter of the year was 16; showing an element of seasonality in elective study activities. However, the increase in resident permit fees had a very big impact on this general trend.

- A cumulative total of 50 elective/occasional students were registered in 20 different hospitals in Tanzania.
- The number of hospitals involved in receiving elective study students has now remained at around 25 to 27 from the initial total of 8 different hospitals. The Mvumi and Dodoma regional hospital are the most recent addition to the list of hospitals for clinical rotation.

Table 17: Number of Elective/Occasional Students in Other Hospitals in the Country: Period July 2012 to June 2013

S.N.	Hospital / Region	Number of Students				
		Quarter # 1	Quarter # 2	Quarter # 3	Quarter # 4	Total
1.	Rubya - Kagera	2	-	-	-	2
2.	Biharamulo - Kagera	1	-	-	-	1
3.	Ndala - Tabora	2	-	-	1	3
4.	Sengerema - Mwanza	2	1	1	1	5
5.	Sumve - Mwanza	-	-	-	-	-
6.	Turiani - Morogoro	2	1	1	2	6
7.	Ligula- Mtwara	-	-	-	-	-
8.	Kibangu -DSM	-	-	-	-	-
9.	Mbesa - Tunduru	-	-	-	1	1
10.	Bagamoyo Hospital	-	-	-	-	-
11.	Same District Hospital	-	-	-	-	-
12.	Mkwajuni Hospital - Mbeya	-	-	-	-	-
13.	Ndolage Hospital - Kagera	-	-	-	-	-
14.	Igongwe Hospital - Tukuyu	3	2	1	-	6
15.	Namanyere Hospital – Ruk- wa	-	-	-	-	-
16.	Mafinga – Mufindi Iringa	-	-	-	-	-
17.	Wasso Hospital - Ngoron- goro	-	-	-	-	-
18.	Hydon Lutheran - Mbulu	-	-	-	-	-
19.	Ruangwa - Lindi	-	-	-	-	-
20.	Usangi - Mwanga	2	-	-	4	6
21.	Magunga - Korogwe	-	-	-	-	-
22.	Kondoa - Dodoma	2	2	-	2	6
23.	Dodoma Regional Hospital	2	6	1	-	9
23.	St. Francis - Ifakara	-	-	-	-	-
24.	Mvumi - Dodoma	-	-	-	-	-
25.	Simanjiro - Arusha	-	-	-	-	-

27.	Buguruni Health Centre - DSM	-	-	-	5	5
Total		18	12	4	16	50

22.2 Student Exchange Activities

The Unit had the opportunity to meet and discuss with coordinators of existing Elective Study Student Exchange Agreements and some prospective Exchange arrangements. These include the Mie University, Japan; Eastern University, Finland; UMCG, Groningen University and Uppsala and Umea Universities, Sweden. Ongoing exchange arrangements were reviewed and new ones were also explored. Further, communications through the email and other means continued throughout the year and even for existing arrangements like the Bergen University, Norway and the UCL in Britain, who did not visit MUHAS during the reporting period.

22.2.1 Mie University, Japan and School of Medicine, MUHAS

The department of Pediatrics and Child Health, School of Medicine received two groups of exchange study students from Mie University-Japan for 3 weeks elective study period. The first group of six undergraduate medical students did their elective in April and the second group of 4 undergraduate students and 2 year one residents was received in May 2012. The Mie University has a student exchange arrangement with MUHAS, School of Medicine, Pediatrics & Child Health department; that involves undergraduate medical students from Japan in exchange of postgraduate MUHAS students.

22.2.2 MOI University, Kenya and School of Medicine, MUHAS

MOI University, Eldoret, Kenya, has also initiated student exchange as part of implementation of a regional students' union agreement, however, for the reporting period no applicant has been received. Based on their proposed exchange agreement, such students have to be accommodated in the respective receiving University Hostel facilities. Such an arrangement has not been possible for the Kenyan student from MOI University and MUHAS students have not made any initiative for elective placement in Kenyan universities. One Kenyan student from Nairobi University did six weeks surgery rotation on a different individual arrangement.

22.2.3 North-South-South Exchange Agreement

Under the North-South-South Exchange agreement, there was no student exchange activity in the reporting year. However, MUHAS was involved in the development and application of funding for the exchange implementation.

22.2.4 Other Exchange Activities

Other exchange study activities are as detailed in table 3 below. Table3 is a list of ongoing and prospective Collaborative research and student exchange agreements, some of which were reviewed and/or being developed within MUHAS in the reporting period. Prospective Exchange Agreements are at different levels of development and respective schools and departments are involved in their development and establishment.

Table 18: Exchange and Collaborative Activities on Development

Title	Institutions	Description	Comments/Status
Agreement for collaboration by and between MUHAS and the University of South Florida, USA	Muhimbili University of Health and Allied Sciences of Dar es Salaam, Tanzania	Educational, training, research and cultural cooperation agreement including elective study student exchange	Umbrella agreement developed and signed in June 09. Schools and Institutes to develop specific agreements depending on needs.
Student and Staff Exchange Agreement between Bergen University College (HiB), Norway and the Muhimbili University of Health and Allied Sciences	The Bergen University College and the Schools of Nursing and Medicine; Department of Radiology	Involves regular elective study student exchange from Bergen University to the School of Nursing and Radiology department. Collaborative research and staff exchange may also be carried.	Agreement renewable every 3 years. The Radiology student exchange is an additional component after agreement was signed in September 2008. Radiology and Nursing clinical rotation students were received at MUHAS during the reporting period as per agreement.

North South - South Higher Education Network Programme	School of Public Health and Social Sciences and Department of Public Health and Clinical Nutrition, Eastern University, Finland	Student and Staff Exchange	Endorsement letter Signed at School level on behalf of the University. There was no MUHAS nor Eastern University placement this year.
Agreement for cooperation between MUHAS (School of Medicine) and the UMCG/FMS – Groningen University, Netherlands	School of Medicine MUHAS and the UMCG/FMS, Groningen, The Netherlands	Exchange of UMCG Medical students for clinical rotation at MUHAS in exchange of MUHAS students to the UMCG Groningen Netherlands	Five years renewable agreement signed in February 2012. No students received this year.
HAN University of Applied Sciences and MUHAS	The Faculty of Health and Social Sciences, University of Nijmegen and the School of Nursing, MUHAS	Nursing students one week introductory course on health care system in Tanzania followed by 3 months elective in district and designated hospitals in Tanzania	Ongoing No provision for reciprocation from MUHAS. No students received this year.
The St. Radboud University College Holland student exchange	The St. Radboud University College and the Community Medicine department, MUHAS	Medical elective study student exchange Two groups of MUHAS Community medicine students in Holland Dentistry exchange with Groningen University –	One medical student from St. Radboud, Holland on 12 weeks (one semester) of Community Medicine Rotation. No placements this year.

MUHAS/UCSF collaborative Agreement	Continuing Education and Professional Development –MUHAS and UCSF	Educational, training and research cooperation agreement including elective study student exchange	Two UCSF research students were received under the Twining Project in this year.
The Mie University, Japan and MUHAS	Pediatrics and Child Health department, MUHAS and the Mie University	Medical students from Japan in two groups April and May for 3 weeks clinical pediatrics rotation.	Collaborative agreement. MUHAS staff and postgraduate students visit Mie University on training in exchange for undergraduate medical students from Japan
Agreement between MUHAS and the University Medical Centre (Utrecht) The Netherlands	School of Medicine MUHAS and the UMC Utrecht, The Netherlands	Exchange of 6 Medical students for clinical rotation at MUHAS in exchange of 2 MUHAS students to the UMC Utrecht Netherlands	Ongoing No MUHAS placement so far.
MOI University, Eldoret, Kenya elective study student exchange and School of Medicine, MUHAS	School of Medicine, MUHAS and MOI University, Kenya	Medical Elective study student exchange	No students received
The Linneus Palme student exchange program	Swedish Universities, Sweden and MUHAS	Medical and Nursing elective study student exchange	No students received

The University College of London (UCL) and the School of Medicine elective study student exchange	UCL and School of Medicine, MUHAS	Medical elective study student exchange	International Health study students from UCL were not received at MUHAS.
Agreement between MUHAS and the Uppsala University, Sweden	School of Medicine, MUHAS and Uppsala University, Sweden	Staff and Medical elective study student exchange	Proposal for agreement and funding being developed after initial exchange of staff from both universities this year.

22.3 Development Matters

Links and Exchange activities and plans were mainly centered on improving elective student welfare/environment. Execution and achievements as detailed below:

- (i) A list of possible accommodation places in Dar es Salaam has been developed and more additions to the list will be made in the course of time.
- (ii) Transport provision at a fee to receive for elective study students on arrival and send them to the airport during departure is being explored.
- (iii) An initial draft of a student elective study guide is in progress
- (iv) The elective page at the MUHAS website was reviewed and updated to reflect the full university status and other changes. Elective application forms can now be accessed from the MUHAS website under document download.

22.4 Support for Resident Permit Class C and/or Visa Application

Foreign student and staff coming to Tanzania for studies or research are by regulation required to have a Resident Permit Class C. Thus the Unit has had to process and submit applications for Resident Permit Class C for elective, occasional, foreign degree and diploma registered students and staff on exchange at MUHAS. The Unit is working out a way to get Resident Permit applications lodged before the students' arrival to reduce delays and improve on the process. This is done at a nominal fee paid directly to MUHAS as service charge. Application forms submitted to MUHAS have to be attached with the relevant bank transfer documents.

22.5 Generated Fees

All MUHAS registered foreign students pay registration fees amounting to US \$ 100. Foreign elective study students pay a tuition fee amounting to 45 US\$ per week and research elective study students pay supervision fees amounting to US\$ 35 per week. Students coming under formal exchange arrangements are exempted the total tuition or research supervision fees. Accumulated tuition fees are compiled department wise and as such the department receives 70% of their total and the respective school receives 20%, and the remaining 10% is retained as institutional capacity building contribution.

22.6 Constraints and Concerns

Based on feedback report forms, the majority of elective study students have raised serious concern on clinical rotation student group size and crowded hospital wards that make teaching and follow-up very difficult. The School of Medicine will need to come up with ways to address this concern; otherwise the University is bound to loose potential elective study students. There is also a need to update MUHAS website to

reflect actual student numbers to allow applicants to make informed decisions about what to expect for their electives placements in MUHAS. The other main concern relates to information given to them during their elective study at MUHAS. Most have requested getting appropriate information and detailed rotation schedule, including a timetable with respective dates on when they will join particular firms in a particular study department. They will also appreciate to know where and when specific outpatient clinics are held. They waste a lot of time trying to find out when and where to go for a particular study activity. In general departments should be prepared to accommodate elective study students in their clinical teaching schedules. Some students feel like they are only tolerated and nobody really wants them. Other main concern is means of communication with patients in Kiswahili, which makes follow up on their part very difficult. They will need to study preliminary Swahili before coming for elective study in Tanzania.

23.0 Research Projects and Publications

23.1 Research Projects

During the reporting period the number of research programs increased to 103 compared to 73 research projects in previous year. This is 41.1% increase, reflecting an increase in research capacity. During 2012/2013 MUHAS established the following 19 new projects:

S/No.	Research Project	Name of Principal Investigator
1	Dar Dar Pension contribution funds	Prof. M. Matee
2	Post-doctoral Training	Dr. J. Otieno
3	Pharmaceutical Analysis Lab	Dr. E. Kaale
4	Search Tanzania GBV	Dr. J.K.K Mbwambo
5	Water Contamination study	Dr. S. Mamuya
6	Clinical Trial Unit	Prof. K. Manji
7	GIZ consultancy	Prof. M. Mwangu
8	UNAIDS Consultancy	Prof. M. Leshabari
9	Promoting the Phase own approach of dental amalgam in developing countries	Prof. F. Kahabuka

10	Search for Novel Trypanocidal Agents from <i>Albizia gummifera</i> , <i>Asteranthe asterias</i> , <i>Commiphora emini</i> , <i>Disosporos verucosa</i> and <i>khaya nyasica</i> medicinal plants used in The Veterinary Field	Dr. J. Sempombe
11	Global Antibiotic Resistance Partnership, Tanzania - Phase II (GARP II - Tanzania)	Prof. S. Aboud
12	Parent-Son Protective Factors for Improved Adolescent Health Outcomes in Tanzania	Prof. S. Kaaya
13	A multilevel intervention to reduce HIV Risk among networks of men in Tanzania	Ms. Lusajo Kajula
14	Biomarkers of gut function and predictors of linear growth and neurodevelopment status among young Tanzania children	Prof. K Manji
15	Abortion Incidence in Tanzania	Dr. P. Muganyizi
16	National Consortium for infectious Diseases surveillance	Prof. M. Matee
17	Antimicrobial activity of extract of combretaceae family plants against drug resistant and biofilm forming bacteria and candida species isolated from HIV/AIDS patients	Dr. D. Mloka
18	Establishing of office of sponsored projects at MUHAS	Prof. M. Moshi
19	Tuberculosis Research Institute at MUHAS	Prof. M. Bakari

During 2012/2013 Nine research projects were completed as follows:

S.No	Name of Research Project	Name of Principal Investigator
1	To Upgrade the analytical lab at the MUHAS School of Pharmacy and strengthen drug development and pharmaceutical education at MUHAS	Dr. E. Kaale
2	ART Project	Dr. G. Kwesigabo
3	Occupational respiratory diseases among male and female workers in dusty industries in Tanzania	Dr. S. mamuya
4	HPTN 046 (HIVPrevention Trial Networks): A phase III trial to determine the efficacy and safety of an extended regimen	Prof. K. Manji
5	HIV Vaccine Trial Capacity building in Tanzania and Mozambique by continued exploration of optimal DNA priming and MVA boosting strategies, TaMoVac - 01	Prof. M. Bakari
6	Pathways to adolescent health and livelihoods in Tanzania	Prof. J. Killewo
7	The Effect of Zinc Supplementation on duration of Hospitalization in Tanzania Children presenting with acute pneumonia	Dr. M. Fataki
8	Strengthening of Health corner in library services of Tanzania	Ms. Rehema Chande
9	Ear Health	Prof. M. Leshabari

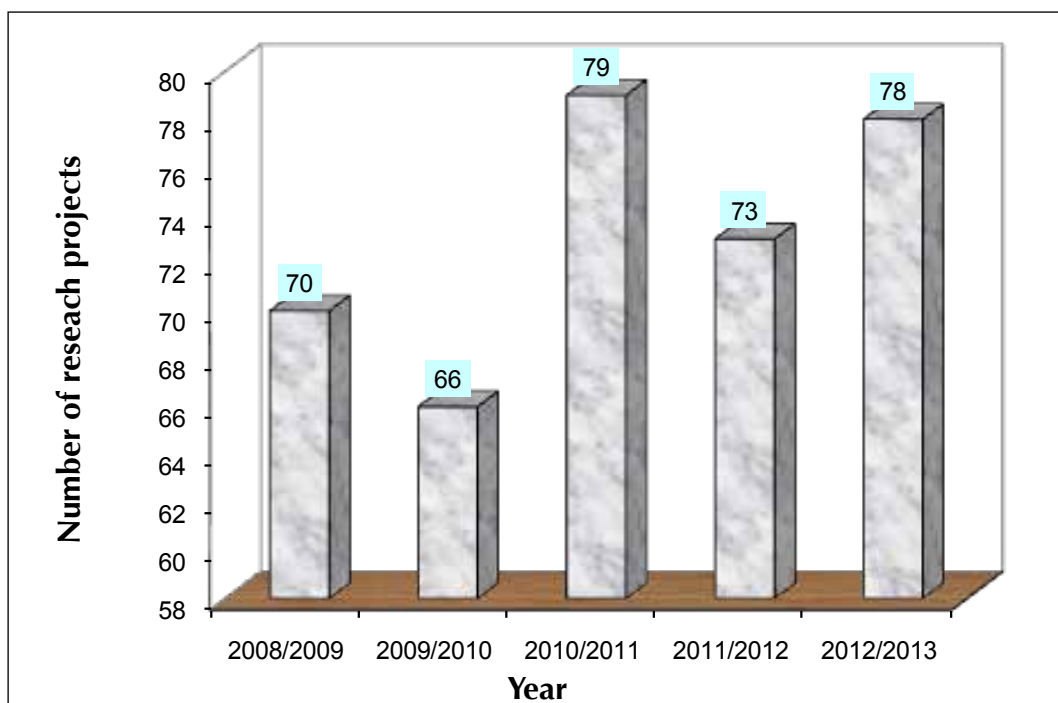


Figure 11: Trend of Research projects from 2008/2009 to 2012/2013

23.2 Research Funding 2008/2009 to 2012/2013

Research funding for the University has been largely donor dependent. The donor support has been increasing over the years and for the last 5 years (2008/09 – 2012/2013) research funding increased from **TZS. 8,002,900,443 to TZS. 20,154,391,904** that is a 251.8% increase. This increase reflects consistent development in research capacity of the institution. The government contribution has been mainly in terms of provision of monthly salaries for researchers, research space and some other research facilities.

Figure 12 below shows the Government allocations of research funds Vis a' Vis donor contributions. It also shows that, for the past five years there has been no Government allocation for research activities.

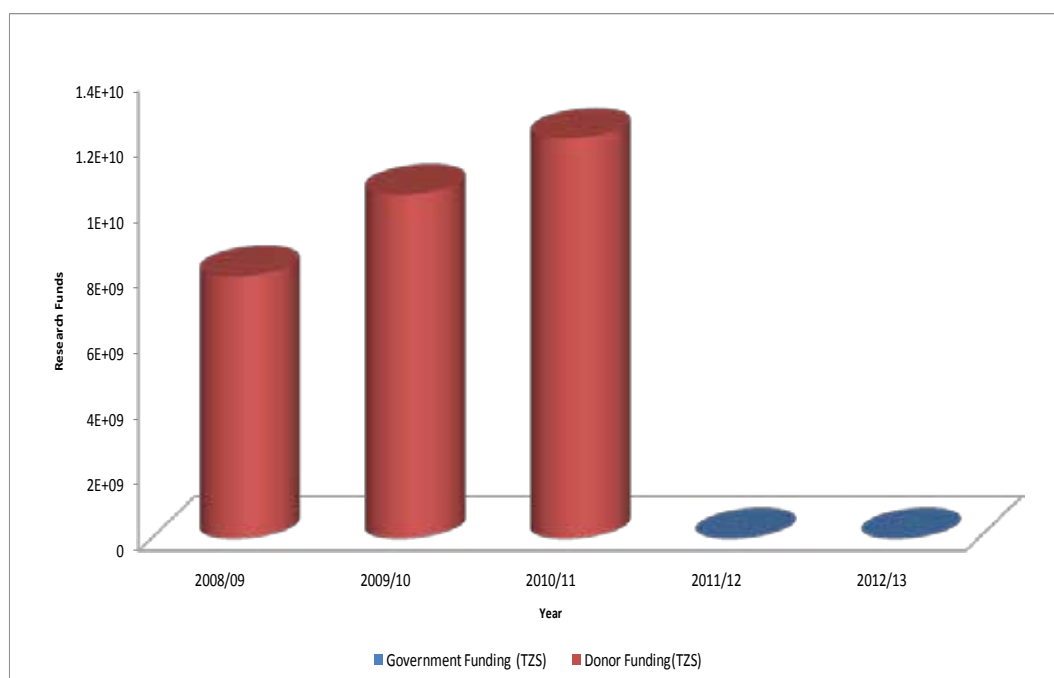


Figure 12. Government and Donor Agencies Allocations of Research Funds to MUHAS 2009/09 to 2012/2013

Table 19 Progress report on MUHAS Research Project during 2012/2013

MUHAS PROJECTS PROGRESS REPORT 2012/2013				
S/N	PI Name	Project donor/Link	Main Project Title and sub-project	Brief project report
1	Dr. C. Moshiri	Muhimbili Research Program- Wellcome Trust- UK	MUHAS/ AFRIQUE ONE PROJECT	Intervention activities completed in December 2013, final evaluation data collection to be conducted in January 2014. PhD candidate was recruited and registered in December 2012. He is finalizing proposal and will proceed with data collection early 2014. One MSc student graduated at MUHAS in December 2013. Two other master candidates enrolled in October 2012 (MScBehavior Change and MMed Community Health) are currently undertaking coursework for their respective degree programmes. The postdoc fellow attended international and national conferences during 2013.
2	Dr. DCV Kakoko	University of Bergen collaboration- Funds from the Research Council of Norway	Health Promotion Dignity and Human Rights	Analysis of the household survey data for manuscript development has been accomplished. one manuscript is being finalized to be submitted into the Journal.

3	Dr. E. Mbaga	European Union	African Programme for Advanced Research Epidemiology Training	<p>The project aims at building epidemiological capacity of African researchers through research fellowships. Progress: Two Epidemiology fellows have been recruited and completed their fellowships in September 2013. The third fellow has been recruited and will be attending an initiation workshop in Kampala from January 14, 2013. Three small grants project have been implemented and results presented in two conferences (European Infectious Disease conference in 2012, AFENET conference in 2013).</p>
4	Dr. E. Mbaga	European Union	ARCADE	<p>The project aims at developing postgraduate online courses on health system research. A total of ten courses have been developed in collaboration with partners and the last course on qualitative evaluation methods was conducted in November 2013 where 4 PhD candidates who are MUHAS staff participated.</p>

5	Dr. E. Mbaga	European Union	FGS and HIV infection	The objective of this project is to determine the contribution of female genital schistosomiasis in HIV transmission in Kahe ward, Kilimanjaro. Baseline data collection was completed, cohort established and follow up ongoing. First follow up data collection is scheduled to take place on February 2013
6	Dr. E. Mbaga	National Aids Control Programme	Integrated Bioethical Survey	This is a bio-behavioral estimation of HIV and selected sexually transmitted prevalence among People who inject drugs in Dar es Salaam. Data collection was completed on 30th November 2013. Data entry ongoing.
7	Dr. E. Mugonzibwa	The Finnish Medical Society (DUODECIM)	Finnish Tanzania Global health course	The project received 7 Finnish students in July 2013 for two weeks, one in Dar es Salaam and another week in Morogoro under SUA's supervision.
8	Dr. G. Kwesigabo	Bernard van Leer Foundation	Violence against children in three Tanzanian Districts	Data collected from a probability sample of 3600 individuals (1800 children below 9years) 1800 adults 18-54 years. Data analysis and manuscript development ongoing

9	Dr. G. Kwesigabo	CDC/PEPFAR Boston University School of Public Health Dartmouth Institute for Health Policy and Clinical Practice	Building capacity for HIV/AIDS human resources at the Muhimbili School of Public Health and Social Sciences	Faculty development in student centered learning approaches ongoing, learning management system training ongoing for faculty and students, infrastructural development ongoing including purchase of equipment, furniture and other supplies aimed at enhancing the teaching and learning environment
10	Dr. H. Naburi	Dartmouth	Paediatric care and treatment	A total of 465 HIV positive children are receiving care at Dar Dar pediatric clinic. Where 350 are on ARV and the rest on care and treatment. Currently the project is under the support of CDC though MDH, plans for secondary data analysis on progress and 2 papers have been submitted for publication and efforts to apply for grants from other sources on progress.
11	Dr. I. Semali	Bill and Melinda Gates foundation/Management Sciences for Health	Measuring Household medicine use in ADDO Districts of Tanzania	The aim project was to assess community access and use of medicines, knowledge and perceptions of households regarding medicine use and antimicrobial resistance (AMR). It was implemented in four regions namely Morogoro, Mbeya, Singida and Tanga. In each region three hundred randomly selected households were interviewed making a total of 1200 households. Data analysis is in progress and a draft report is at the final stages of preparation.

12	Prof Gad Kilonzo/ Prof Lembariti	CDC	Tanzania AIDS Prevention programme (TAPP2)	Program aimed at HIV interventions for key populations and their partners including HIV Testing and Counseling, Gender Based Violence and Alcohol injections. Includes community injection drug users program and MAT. Not research.
13	Dr. J.K.K. Mb- wambo/ Dr. S L Likindikoki	Johns Hopkins Collabo- ration	Understanding and Inter- pretations of communica- tion campaign messages about concurrent partner- ships, acute HIV infection and sexual networks	Closed; dissemination to Iringa and Dar es Salaam stakeholders. Manu- script development to happen outside period of research activity
14	Dr. J.K.K. Mb- wambo/Lusajo Kajula/F.Kisanga	Future Group	SEARCH Tanzania GBV	Data collection complete, data clean- ing ongoing; data quality audit in progress before data analysis
15	Dr. J. K.K. Mb- wambo	National Institutes of Health	RTC Comprehensive Tri- aged HIV Prevention	Data collection in progress to be com- plete April 2014; intervention to start May 2014
16	Dr. J. K.K. Mb- wambo/Dr. S. L Likindikoki	USAID/John Hopkins Bloomberg School of Public Health	Assessing barriers and facil- itators to linkages to care in Iringa, Tanzania	Data collection concluded, report finalized; dissemination in Iringa and Dar es Salaam March 2014. Closing March 31, 2014

17	Dr. J. Makani	Muhimbili Wellcome Programme	Genetic determinants of clinical heterogeneity in Sickle Cell disease.	Genotyping completed in UK. Validation studies done. Manuscript in preparation. 2 abstracts presented at international conferences. Siana Nkya Studentship: PhD Studentship. Completed 1 year training in UK. 3 manuscripts in preparation. 2 presentations in international conferences. MalariaGEN: Grant applied to University of Cape Town for training in data analysis and manuscript development. (B Mmbando, R Sangedda)
18	Dr. J. Makani, Dr. S. Cox	London School of Medicine	Vascular Function Intervention Trial in Sickle cell	Last subject to complete and exit the trial Feb 2014. 117 out of 119 enrolled have either completed or are still in active follow-up. Trial close out planned for March, submission of primary paper planned for July 2014.

19	Dr. J. Makani, N. Mulder	University of Cape town	H3ABioNet: a sustainable African Bioinformatics Network for H3Africa	Set up of ICT infrastructure. Post-Doctoral Fellow B Mmbando applied for Wellcome Trust Training Fellowship. R Sangeda appointed on part-time contract. Twaha Mlilwo started PhD in South Africa. 2 international conferences attended. Presentation of genomic network in Tanzania during SMART partnership meeting. 5 people attended meetings/training workshops (F Mbuya, B Mmbando, R Sangeda, M Tarmohamed, J Makani)
20	Dr. J. Makani, Prof. C. Newton, Prof. E. Kaaya, Dr. S. Cox	Muhimbili Wellcome Programme	Strategic Project	Ongoing clinical surveillance of a cohort of 3,500 SCD patients at MNH. Training: 2 MD (completed), 1 MMed (D Nkya) cause of death and secular trends in mortality in SCD. PhD: 1 (S Nkya) on-going. Engagement with Ministry of Health to develop SCD policy (D Soka). Collaboration with Government of Brazil (E Meda). Papers published: 3. NEUROLOGY: Finished collecting data on MRI scan findings in children with sickle cell anemia.

21	Dr. J. Makani, S. Cox, E. Kaaya, SL Thein	Muhimbili Wellcome Programme	Haematology Programme of anemia and its therapy (PAST)	Optimizing best standard of care. Management guidelines drafted. Partnership with American Society of Hematology. Part-time appointments: S Rwezaura, E Meda, Mwajuma Ahmada, C Kindole, R. Nkingi. Studentships: 2 MD, 1 MMed. Fellowships: 2 Masters (E. Osati, H. Sawe), Post-Doc (R Sangedda). Hydroxyure trial put on hold. J. Makani went for training in clinical research at NIH, Washington. Partnership with UCSF. Data analysis and manuscript preparation. 4 reviews submitted and 2 original research articles in preparation. MSc course (J. Makani, J. Mgaya, H. Mariki) at UCL, UK. Online course. Research Intern (Florence Urio) continuing laboratory component of the project. Underwent training in the UK. Application for PhD studentship.
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22	Dr. J. Otieno	University of Uppsala	Post-doctoral Training	<p>1. Training on DNA extraction, purification and sequences analysis accomplished. 2. The supported MSc student is writing her dissertation. 3. Two new DNA sequences of orchids produced. 4. Presentations given in one international conference in Reunion-France and in 2 university seminar presentations at MUHAS and Leiden University</p>
23	Dr. J. R. Masalu	Swedish International Development Agency (Sida)	Research Capacity Strengthening and contingency fund for Sida project	<p>The MUHAS Research Capacity Strengthening Programme has two main components, namely Postgraduate Support and Faculty Core Support. During the reporting period the project enrolled 10 PhD and five MSc. Candidates. Two PhD candidates defended their PhDs. 20 small-scale research studies received grants. Research bulletin volume 12 has been compiled for publication with abstracts from 2009-2012. First MUHAS scientific conference supported as well as students "win and learn" initiative supported. Four schools supported to conduct research seminars</p>

24	Dr. J. Sempombe	International Foundation for Science	Search for novel Trypanocidal Agents used in the treatment of Trypanosomiasis from Ethnoveterinary medicine	<p>The project focuses on screening for the antitrypanosomal activities of traditional medicinal plants known to treat trypanosomiasis in ethno-veterinary field. The objectives of the project included (i) To evaluate for cytotoxicity of crude extracts using MTT assay. (ii) To evaluate for the in vivo anti-trypanosomal activities against Trypanosoma brucei of crude extracts in mice. (iii) To determine the chemical constituents from the active extracts and evaluate for their in vivo and in vitro anti-trypanosomal activities (iv) To establish molecular structures of the isolated pure compounds. Objectives (i) and (ii) have been achieved by 80% and the manuscript is under preparation. Objectives (iii) and (iv) are expected to be achieved in year two (2014 up to March 2015). However, these depend on the results of objective (ii). The challenges have been to achieve objective (i) that required the samples to be sent to South Africa for analysis. These findings are expected to contribute to the community the scientific rationale of using the plant species against trypanosomiasis as claimed by traditional healers.</p>
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25	Dr. M. Fataki	WHO/Future Grow	An operational study on the management of acute diarrhea in Tanzania	Data collection has been completed as of June/July 2013 in the two districts –Kisarawe and Bagamoyo. Currently on-going is data processing, analysis and formulating a manuscript by June 2014.
26	Dr. M. Ezekiel	USAID TANZANIA	MAP Curriculum Evaluation for CHAMPION	We have completed baseline and midline survey in all project sites. Currently writing midline evaluation report; and thereafter we will proceed to conduct end line evaluation
27	Dr. M. Mwangi	Norwegian Development for Higher Education (NOMA) Training Support	MA in Health Policy and Management	The project has supported the fifth and last cohort of 6 students who have graduated in Master of Arts in Health policy and Management in December 2013. Previously the project supported four cohorts since 2007 with a total of 40 students who have all graduated. The project is officially coming to an end in December 2013. Currently the project is supporting the development of distance learning materials for MA-HPM where materials for two modules will be developed: Health management, planning and policy and Social determinants of health and Development module.

28	Dr. M. Mwangu	EPOS	Proactive Staff Recruitment and Retention Measures Based on Experiences of Successful Implementers: Towards Improving Quality and Quantity of Skilled Health Workers in Lindi and Mtwara	<p>This was an action research contracted by GIZ/EPOS and done through a participatory process of key stakeholders. It was carried out through a series of consultative consensus building meetings from 2011 to 2012. The aim of this study was to document the existing best practices in staff recruitment and retention in some local councils in Lindi and Mtwara regions with the intention of formalizing and popularizing them in all councils in Lindi and Mtwara. The project was successfully concluded in 2012 and final report submitted in April 2013. Through this work proactive staff recruitment and retention guides were developed for implementation.</p>
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29	Dr. P. Muganyizi	Guttmacher Institute	Abortion incidence in Tanzania	<p>The study aims at providing important information around unsafe abortion in Tanzania including the incidence, providers and methods used to induce abortion. The estimate of the abortion incidence will also allow us to calculate the rate of unintended pregnancy, another key reproductive health indicator that is difficult to estimate in Tanzania. The study employs a novel method that relies on indirect methodologies since the practice of inducing abortion is highly restricted. Currently data collection for Tanzania mainland and Zanzibar is completed. Analysis will begin shortly and will be completed by end of January 2014 as scheduled.</p>
30	Dr. S. Leshabari	St. Lukes Midwifery College, Tokyo, Japan	The Center of Asia Africa Midwifery Research	<p>The project has conducted 2 workshops for midwives behavioral change in "Humanization of Child Birth"</p>

31	Dr. S. Leshabari	Norwegian Development for Higher Education (NOMA) Training Support	NOMA Regional Master in Nursing	The project has supported the third and last cohort of 4 students who have graduated in Master of Science in Critical Care & Trauma Nursing and Master of Science in Mental Health Nursing in December 2013. Previously the project supported two cohorts since 2008 with a total of 23 students who have all graduated. The project is officially coming to an end in December 2013. The final dissemination meeting will be in March 2014.
32	Dr. S. R. Kamazima	Pathfinder Int.	Master of Science Behavior Change Program	First cohort (2012) undertaking MS, BC program specific courses. The second cohort (2013) of 7 students joined the program last October.
33	Dr. T. Nyamhanga	SIKKA	Corruption in public health facilities	Transcription of qualitative data completed. Finalizing entry of quantitative data

34	Dr. T.W Kohi	PEPFAR	Teaching and learning about HIV/AIDS in Tanzania Schools	<p>Conducts Forums for Deans of Nursing of 8 Universities in Tanzania</p> <p>Provides technical assistance to the Four Nursing Pillars (Quad) – the Office of the Government Chief Nurse; Nursing Training Section of the MOHSW, Tanzania Nursing and Midwifery Council and the Tanzania National Nurses Association) by:</p> <ul style="list-style-type: none"> - Developing and reviewing the competency- based curricula of the certificate and diploma programs - Strengthening leadership and management of nursing leaders and the Quad in Tanzania <p>Provided the School of Nursing –MU-HAS with Skills laboratory facilities worth US\$ 150,000. Also, 14 certificate and diploma nursing schools were provided with skills lab facilities each worth US\$ 150,000.</p> <p>US\$ 50,000 was received</p>
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35	Mr. Yahya Kishashu	African Barrick Gold (ABG)	Environmental and Occupational Health Capacity Building Project – MUHAS-ABG Collaboration	<p>Second scholarship awarded from ABG (\$ 80,000.00) to enable postgraduate studies in occupational medicine at the University of Cape Town, South Africa.</p> <p>Ten students from MUHAS environmental health sciences programme have benefited from 8-week practical training in the mines owned by African Barrick Gold during the reporting period (2012/2013).</p>
36	Ms. Lusajo Kajula, Dr. J.K.K. Mbwambo	National Institutes of Health (NIH) in collaboration with University of North Carolina (UNC)	Identifying venues to prevent HIV and violence for youth in Tandale district, Dar es Salaam	<p>In the past year we identified, mapped and collected data on 303 camps across four wards of Dar es Salaam. We also finalised the baseline assessment in which we completed a total 1,451 interviews with male and female camp members. In the same year we also developed training manuals for the health leadership training and microfinance components. The intervention has also been launched by providing camp health leaders a 5 day training and also microfinance training.</p>

37	Prof. A. D. Kiwara	DANIDA	Health Insurance in Ghana and Tanzania: Addressing Equity and Accessibility.	Project supported two PhDs from MUHAS. Both-a man and a woman-got their doctorates in Nov 2013. A prospective one yearlong data collection is completed. Awaiting data analysis.
38	Prof. A. D. Kiwara	Sida	Health Systems Research	This project had three subcomponents. Ten abstracts presented at MUHAS first Scientific Conference. Four papers published already. Five MSS submitted. Presentations in international conferences in Peking and Sao Paulo
39	Prof. D. Simba	Grand Challenge Canada	Malaria drugs on wheels	

40	Prof E. Lyamuya	EDCTP	<p>Main Project: HIV vaccine trial capacity building in Tanzania and Mozambique by continued exploration of optimal DNA priming and MVA boosting strategies; TaMoVac II.</p> <p>Components</p> <p>(a) Clinical Trial</p> <p>A Phase II trial to assess the safety and immunogenicity of HIV-DNA priming administered by the ID Zeta-jet® with or without ID Derma Vax™ electroporation followed by IM HIV-MVA boosting with or without CN54 rgp140/GLA-AF in healthy volunteers in Tanzania and Mozambique; TaMoVac II Clinical trial</p> <p>(b) Baseline Epidemiological Surveys</p> <ol style="list-style-type: none"> 1. Epidemiological and socio-behavioural issues in preparation for efficacy HIV vaccine studies among young women at high risk of HIV in Dar es Salaam, Tanzania. 2. Participants and community related perceptions regarding on-going HIV vaccine trials. 	<p>For the clinical trial, recruitment of participants has been completed all sites including MUHAS (82 participants), NIMR-MMRC (80 participants) and Maputo (40 participants). Currently, booster immunization with MVA with or without CN54 rgp140/GLA-AF is ongoing. The major challenge encountered was a delay in the delivery of the HIV-MVA vaccine, which has led to delay in initiation of the MVA and rgp 140/GLA vaccinations as per schedule. No safety concerns so far.</p> <p>Recruitment and data analysis for the first epidemiological sub-study has been completed and a manuscript is under review ready for submission for publication. For the second epidemiological sub-study, data collection via questionnaires was completed late September 2013 and currently data analysis is being performed. However, data collection using focus group discussions will be conducted in March 2014.</p>
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41	Prof. F. Kahabuka	United Nations Environment Programme	Promoting the phase sown approach of dental amalgam in developing countries	<ul style="list-style-type: none"> • Three dentists attended a training of trainers' workshop on Dental Amalgam Best Management Practices in Kampala Uganda. • Dentists, Nurses and dental auxiliary staff at Hindu Mandal Hospital, Amana Regional Referral Hospital, Muhimbili University of Health and Allied Sciences - Dental School and Muhimbili National Hospital attended one day workshop on Dental Amalgam Best Management Practices. • Project group members supervised the implementation of Dental Amalgam Best Management Practices at Hindu Mandal Hospital, Amana Regional Referral Hospital, Muhimbili University of Health and Allied Sciences - Dental School and Muhimbili National Hospital. • Amalgam separators were fitted at Hindu Mandal Hospital, Amana Regional Referral Hospital and Muhimbili University of Health and Allied Sciences - Dental School • Project group members and collaborating partners attended a results dissemination workshop at Muhimbili University of Health and Allied Sciences. <p>USD 17,730 and three Amalgam separators were received.</p>
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43	Prof. F. Mugusi	MUHAS-Harvard, Funds from NIH	Effect of Vitamin A and Zinc on Placental Malaria among pregnant women attending Antenatal Clinic	<p>The project aim is to investigate nutritional and immunological effects of Zinc and Vitamin A has during pregnancy on placental malaria transmission, birth weight and maternal immune response.</p> <p>Enrollment and randomization of 2500 samples were completed since September 2013</p> <p>Follow ups of women on monthly basis and 6 weeks post-delivery are ongoing.</p>
44	Prof. F. Mugusi	MUHAS-Harvard, Funds from NIH	Malaria 2: malaria in pregnancy, nutrition and immunological effects	<p>The project aim is to investigate nutritional and immunological effects of Zinc and Vitamin A has during pregnancy on placental malaria transmission, birth weight and maternal immune response.</p> <p>Enrollment and randomization of 2500 samples were completed since September 2013</p> <p>Follow ups of women on monthly basis and 6 weeks post-delivery are ongoing.</p>

45	Prof. F. Mugusi	NIH/ Fogarty International Center	International Clinical, operational and Health system Research Training on AIDS and TB (ICOHRTA)	<p>The International Clinical Operation and Health Services research Training Program for AIDS and TB (ICOHRTA) aims at training and developing critical mass of researchers in Tanzania in area of HIV/TB disease implementation research. During the reporting period; Continued to sponsor 3 PhDs Students, 3 MPH Students, Supported between 3 – 4 MMed students per annum and conducted four short courses.</p> <p>Planned activities:-</p>
46	Prof. J. Killewo	MUHAS- Harvard, Funds from NIH	DAR cohort study	<p>Project stopped partially in August 2012 due to lack of funding. Field workers were laid off during all this period. We are trying to revive DUCS by attracting nested studies within it and in June 2013 we received funding to do a small study on Hypertension on sample of 2500 residents. Study will start in January 2014.</p>
47	Prof. J. Killewo	Johns Hopkins Collaboration	Morogoro Evaluation	<p>Project is now in its third and final year of evaluation, which ends on 30th April 2014. Activities are still ongoing with data collection completed in January 2014. Data analysis is ongoing and final dissemination workshop is planned for 24-25 April 2014. For paper writing we are requesting for no-cost extension until end of September 2014.</p>
48	Prof. J. Killewo, Pangaea Global AIDS Foundation (PGAF)	PEPFAR	Pathways to adolescent health and livelihoods in Tanzania (Youth Health Corp project – YHC)	<p>Project ended in September 2013 after no cost-extension from 2012. Funds were delayed but we were able to finalize the final and submit report.</p>

49	Prof. K. Manji	Boston Children's Hospital fund from Bill and Melinda Gates Foundation	Biomarkers of gut function and predictors of linear growth and neurodevelopment status among young Tanzanian children	The study obtained ethical clearance in November 2012. The annual progress report was presented at London on 3-4th December 2013. 590 aliquots for citrulline and LPS were tested. A repeat citrulline test is required for another 590 stunted children because previous specimen were haemolysate laden. The progress is good, and we expect to conclude the study in November 2013.
50	Prof. M. Aboud	NIH/ Forgary International Center	International Extramural Research Development Award	Through faculty development workshop, two themes were supported and facilitated by the program; a) Functions of clinical monitors and DSMB b) Tissue banking and material transfer agreement. Four workshops on grant writing and electronic application of grant were held to MUHAS faculty and administrators during the reporting period. Supported national and regional network in research and research administration through workshops and ARAA conference. Supported five MUHAS PIs to submit electronic grant applications to NIH and CDC. Continues to support Office Of Sponsored Program (OSP) daily activities
51	Prof. M. Aboud	NIH	DPRET- Dartmouth-Penn Research Ethics Training Programme	Five (5) fellows completed MSc Bioethics training at University of Penn, USA. Two national workshops for members of IRB on research ethics were held at Kunduchi Beach Hotel. A total of 43 IRB members from all over the country attended. MUHAS Masters of Bioethics curriculum has been developed and is at the final approval stage. Committee to draft proposal for MUHAS Institute of Research and Bioethics has been appointed and has started the work. Several meetings and teleconference were held with PIs and program advisory board.

52	Prof. M. Bakari	Swedish International Development Agency (Sida)	HIV and TB sub-programme	<p>The sub-Program with its four research projects continued well. Six (Patricia Munseri, Theodora Mbunda, Agricola Joachim, Tumaini Nagu, Matilda Ngarina and Helga Naburi) out of the 9 originally recruited PhD students are continuing well with their studies. Three (Said Aboud, Edith Tarimo Mrosso and Gasto Frumence) defended their theses successfully in 2011. One MSc. Student (Innocent Justin Moshah) is provisionally registered at MUHAS.</p> <p>Four publications have emanated from work done by Patricia Munseri. She is expected to defend her PhD thesis in May 2014. Her work is closely linked with the on-going HIV vaccine trial (TaMoVac-II) to which she is the Clinical Co-coordinator.</p> <p>Agricola Joachim has continued to work on immunological responses following provision of candidate vaccine (DNA prime followed by MVA and rgp/140 boosts) to Tanzanian volunteers. A working collaboration with DUKE University in the USA has been established. She has been focussing on neutralizing antibodies.</p> <p>Socio-behavioral issues related to the participation of youths, especially young females, in HIV vaccine trials is the basis for Theodora Mbunda's PhD training. One manuscript has been accepted for publication.</p>
53	Prof. M. Bakari	Swedish International Development Agency (Sida)	Studies of cohorts for HIV vaccine trials and HIV vaccine evaluation in Tanzania	

54	Dr. C. Killewo	Swedish International Development Agency (Sida)	Prevention of Mother to Child HIV Transmission (PMTCT)	
55	Prof. F. Mugusi	Swedish International Development Agency (Sida)	Improved Clinical Management of TB in HIV co-infected individuals in Tanzania	
56	Dr. A. Mwaki-gonja	Sida	HIV and Malignancies	
57	Prof. M. Le-shabari	UNAIDS	UNAIDS MSM project	Data collection, entry and analysis is completed. Currently completing report writing and dissemination of results to different stakeholders. We expect to finish dissemination of results by April 2014.
58	Prof. M. Le-shabari	European Union	Quality of maternal and perinatal care: Bridging the know do gap	Intervention activities are on going and currently final data is being collected from both the intervention and control districts. PhD candidates involved in the project are also collecting any additional data they need for their dissertations. The final project conference will take place in Accra Ghana from 27th to 29th January 2014.

59	Prof. M. Matee	Dar Dar Health studies- Receiving funds from NIH	Effects of Protein Calorie Supplementation on HIV disease in Breast-feeding women and women with TB	<p>The DarDar Health Studies on relationship of Nutrition and HIV and Tb started in 2009. Its main activities are centered on the role and effect of Nutrition on HIV and Tb.</p> <p>The first study (DarDar 2A) objective was To quantify anthropometrics and intake of energy and protein among human immunodeficiency virus (HIV) positive women with TB. Findings from this study were published in the International Journal Of Tb and Lung health in 2013 whose title was "Nutritional status of HIV-infected women with tuberculosis in Dar Es Salaam, Tanzania" findings from this study helped to develop a nutritional supplement which has been used in subsequent studies</p> <p>DarDar 2B objective is looking at infant outcomes Infant weight t three months) from infants born to HIV infected mothers. This study recruited 96 HIV positive women in their third trimester who were randomised to receive either protein calorie supplement (PCS) or Multivitamins. This study has been completed in Oct 2013 and preliminary data analysis is due to begin soon.</p> <p>DarDar 2C (a third nutritional related study) began in 2011, 151 HIV-Tb coinfectd clients have been recruited into this study and the main objective is to look at immunological outcomes (CD4 count change) among patients receiving the nutritional supplement as compared to those receiving multivitamins. This study is on going.</p>
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60	Prof. M. Matee	Dar Dar Health studies- Receiving funds from NIH	Dar Dar 1.0 Vaccine Trial	<p>The DarDar Health Study, named for Dartmouth and Dar Es Salaam, Tanzania, found that MV immunization reduced the rate of definite tuberculosis by 39 percent among 2,000 HIV-infected patients in Tanzania.</p>
61	Prof. M. Matee	Sokoine University	National Consortium for Infectious Disease Surveillance	<p>This project is lead by SACIDS which is a ONE HEALTH consortium of southern African medical and veterinary, academic and research institutions involved with infectious diseases of humans and animals in the DRC , Mozambique, South Africa, Zambia and Tanzania (progressively also plant health). In an innovative partnership with world-renowned centres of research in industrialised countries.</p> <p>The main activities in 2012/2013 have been</p> <ol style="list-style-type: none"> 1. Organization of SACIDS 2nd One Health Conference in Africa (OHCA) – April 2013 2. Organization of SACIDS 2nd One Health Summer School Call, August 2013 3. Exchange visits of students and staff between institutions (UNZA, MUHAS, SUA, DRC, Eduardo Mondlane University) 4. Visits to RVC, LIDC, Stellenbosch for staff and students 5. Training of MSC OHMB students at SUS and MSc OHAE at UNZA 6. Proposal write-up to leverage funds from international and multilateral organization 7. Link with ministries in talking issues related with infectious disease

62	Prof. M. Moshi and Dr. E.T. Lwoga	Sida	ICT and Library Support	<p>The Library-ICT project has been able to improve ICT infrastructure by acquiring relevant ICT equipments and software to support research, teaching and learning activities at the University. The project installed the Closed Circuit Television System, purchasing 10 computers, 2 printers, 2 LCD, and barcode software and labels. The project has also acquired relevant 150 print books and subscribed to 40 online databases, built the capacity of 85 staff and 284 students on online information retrieval, reference management and open access resources through training. The project also trained two ICT and library staff are on postgraduate studies (i.e. postgraduate diploma and Masters in Computer Science). The project established the local digital repository, digitized and uploaded local research outputs and updated the library online catalogue. The project was able to update the in-house database with a total of 22,430 records of bibliographic details (3,409 journals, 18,807 books and 214 CDROM). A total of 1016 documents have been uploaded to the repository. The work of digitizing and uploading local outputs is still on progress. A policy of institutional has also been printed to increase access and usage of local research outputs. Generally the subprogram has continued to contribute significantly towards strengthening research activities and supporting teaching and learning activities at the University.</p>
62	Prof. M. Moshi and Dr. E.T. Lwoga	Sida	ICT and Library Support	

63	Prof. N. Moshi	Dar Dar Health studies- Receiving funds from NIH	Prevalence of hearing deficits and its association with HIV seroprevalence: A cross sectional study in HIV+ adults with frequency matching to HIV- controls	<p>The study is both cross sectional and prospective, covering adults and children</p> <p>100 adult individual who are HIV positive</p> <p>100 adult individuals who are HIV negative</p> <p>100 adult individuals who HIV and on ARVS</p> <p>100 adult individuals who HIV and on anti TB therapy</p> <p>The study also enrolled similar category of children as above. 100 children and adults new to ARVS were also enrolled and prospectively studied. Preliminary results show that HIV individual have significantly more hearing loss than HIV negative ones and that it is central hearing loss. ART does not appear to affect cochlear function. Analysis of results is on going and two abstracts have been accepted for publication.</p>
64	Prof. S. Aboud	Center for Disease Dynamics, Economics & Policy	Global Antibiotic Resistance Partnership, Tanzania – Phase II (GARP II – Tanzania)	<p>The objective of GARP's efforts in Phase 2 in Tanzania is to bring about policy change that will alter the course of antibiotic use and/or resistance positively. This could be at the level of hospitals, the government, or any other organizational level that is linked directly to GARP activities.</p> <p>Situational analysis of antibiotic resistance in Tanzania has been completed in February 2014 and report is being finalized. Planned for GARP Tanzania working group and stakeholders meeting to discuss the situational analysis report in March 2014 before being published. Endorsement on Call to action to preserve the power of antibiotics has been sought from the Ministry of Health and Social Welfare.</p>

65	Prof. S. Kaaya	PREPARE Project, In- collaboration with University of Bergen: Funds from the EU	Promoting sexual and Reproductive Health amongst Adolescents in Southern and Eastern Africa	<p>All intervention and evaluation field activities completed. Analysis and writing activities ongoing: Two publications: i) Leif Edvard Aarø, Catherine Mathews, Sylvia Kaaya, Anne Katahoire, Hans Onya, Charles Abraham, Knut-Inge Klepp, Annegreet Wubs, Sander Matthijs Eggers, Hein de Vries (2013) Promoting sexual and reproductive health among adolescents in southern and eastern Africa (PREPARE): Project design and conceptual framework. Accepted BMC Public Health, December 2013. ii) Sander Matthijs Eggers et al (2013) Explaining condom use in three different sub-Saharan regions: The applicability of the Theory of Planned Behaviour British Journal of Health Promotion 1638R2. Study close out on schedule for May 2014</p>
66	Prof. S. Kaaya	CDC	Technical support to MDH	<p>Technical support to MDH ongoing in five identified areas - good progress. Request for ethical clearance for operations research using routine data submitted to MUHAS IRB December 2014.</p>
67	Prof. S. Kaaya in collaboration with HSPH	CDC	Agents of change protocol	<p>All intervention field activities completed, final evaluation data collection ongoing and scheduled to be complete by end of January 2014. Analysis and writing activities ongoing: Four abstracts prepared for submission to the International AIDS Society Conference in Melbourne, Australia in 2014. Study close out on schedule for June 2014</p>
68	Prof. S. Masawe	Sida	Reproductive Health Projects	<p>The projects have four PhD students. They are progressing well with the follow-up phase of their studies</p>
69	Prof. S. Masawe	Karolinska Institute	Global health course	<p>Two groups of students with 22 students in each attended the course in January and June respectively</p>

70	Prof. W. Matuja	Norwegian Development for Higher Education (NOMA) Training Support	Post graduate Programme MSc Internal Medicine (MSc Cardiology and MSc Nephrology) MMED Radiology	The programme has trained 7 MSc cardiology from Tanzania, 1 from Uganda. 5 MSc. Nephrology, 3 from Uganda and Ethiopis and trained 15 Mmed students
71	Prof. W. Matuja	German Research Foundation/ Munich University	Palliative Care in Tanzania Exemplified by Cancer: A Hospital Based Ethnography in Dar es Salaam, Tanzania	Part one data collection done while part two to commence in March 2014
72	Prof. W. Matuja	German Research Foundation	Neurocysticercosis and Epilepsy in urban and rural Tanzania	Data Collection and Analysis ended in February 2014, Manuscript writing to commence in April 2014, Phd Student in parasitology are in second year
73	Prof. Z. H. Mbwambo	COSTECH	Formulation and standardization of herbal medicines from Garcinia and Combretum plant species growing in Tanzania for managing HIV/AIDS and related symptoms	<p>The study completed mapping of plant species that belong to the two genera namely, Combretum and Garcinia.</p> <p>Samples of 17 plants including leaves, roots and/or stem barks were collected and samples assayed for cytotoxicity and antimicrobial activities.</p> <p>Two products have been formulated and standardized</p> <p>Four (4) research paper published</p> <p>One monograph in progress.</p>

74	Dr.O. Minzi	Swedish International Development Agency (Sida)	Malaria Project	<p>The study aims at establishing a center of excellence for studying malaria and antimalarial drugs at MUHAS- The study has 2 arms with independent PIs. One addresses issues related to drug utilization- adherence, interaction and Pharmacokinetics and Therapeutic drug Monitoring. The other arm deals with testing ant malarial drug efficacy and effectiveness. So far both arms have accomplished nearly 65% of the planned sub studieswith 3 students recruited for PhD among which 1 already completed in April 2013, 2 others are completing i 2014 and the last one in 2015. There were also 2 Masters students all of which graduated this year (2013). The Plan was to strengthen the Bio analytical lab through procurement modern HPLC systems and training a lab technologist and PhD scientists capable of developing and interpreting bio analytical assays. All these objectives have been accomplished. The Project is now looking into the treatment outcomes of malaria in HIV patients receiving antiretroviral treatment so as to confirm if the interaction between 2 treatments can affect the malaria cure. We also have provided evidence based findings which support the importance of training the health workers on the clinical diagnosis of malaria and the use of microscopy as well as RDT in cutting down the number of ant malarial prescriptions. In the past they was malaria overtreatment since each fever was treated as malaria.</p>
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75	Dr.O. Minzi	NOVARTIS	Capacity building for Pharmacometrics application	This was a single non-continuous activity in which 12 Tanzanians, 32 Other participants from Africa including South Africa were trained from September 02-06, 2013 On the clinical applications of Pharmacometrics. The activity was funded by Novartis and the trainers came from UK, Tanzania, Basel (Novartis) and South Africa.
76	Dr. D. Mloka	NIMR	Antimicrobial activity of extracts of Combretaceae family plants against drug resistant and biofilm forming bacteria and Candida species isolated from HIV/AIDS patients	Sample collection has started and isolation and characterization of microbial isolates is ongoing. Plant materials have been collected from Tanga and extraction is ongoing. Phase 2 of the project that is antimicrobial sensitivity and biofilm testing to start in April 2014
77	Prof. M. Moshi	NIH	Establishing Office of Sponsored Projects at MUHAS	One Grants management officer attended annual Society for Research Administrators meeting 2013 at New Orleans. Three pre training meetings conducted. Needs assessment and preparation for Research Administration training for all stake holders on going.
78	Prof. M. Bakari	NIH	Tuberculosis Research Institute at MUHAS	Planning meeting was held in Paris. Request for Office space has been made to University administration and approval to utilize CHPE building when finished has been obtained.

79	Dr. M. Janabi	EDCTP	Optimization of tuberculosis and HIV co-treatment in Tanzania and Ethiopia: Pharmacokinetic and pharmacogenetics aspects on drug-drug interactions between Rifampicin and Efavirenz	
80	J. Makani, E Kaaya, M Aboud, K Pallangyo, C Newton	Muhimbili-Wellcome Programme projects	Defining the spectrum of Sickle Cell Disease in East Africa, A Clinical epidemiological study	Ongoing clinical surveillance of a cohort of 3,500 SCD patients at MNH. Training: 2 MD (completed) 1 MMed (D Nkya) cause of death and secular trends in mortality in SCD. PhD: 1 (S Nkya) on-going. Engagement with Ministry of Health to develop SCD policy (D Soka). Collaboration with Government of Brazil (E Meda). Papers published: 3. NEUROLOGY: Finished collecting data on MRI scan findings in children with sickle cell anemia.
81	J. Makani, S. Cox, C Newton	Muhimbili-Wellcome Programme projects	MWP - Neurology and neonatal conditions	Completed data collection on MRI findings in children with sickle cell anemia. Study conducted as part of MMed thesis for Dr Edward Kija. Ongoing data collection on epidemiology of neurological events.
82	J. Makani, S. Cox	Muhimbili-Wellcome Programme projects	Nutrition and nutrient gene interactions in sickle cell disease	Completed data collection. Data analysis and publication of manuscripts. Developing new studies in collaboration with school of pharmacy (Alphonse Marealle). Publications – 4.

83	Prof. F. Mugusi	EUROSIST funded by EDCPT	Prevalence of HIV Drug Resistance in HIV Infected Patients at MNH and the Application of Bioinformatics in Prediction of Appropriate Therapy	
84	Prof. f., Mugufi	MUHAS- Harvard Collaborative Projects with funds from NIH	Malaria I: Prenatal Iron supplements: Safety and Efficacy in Tanzania	Study aim is to investigate the safety and efficacy of iron supplementation during pregnancy on placental malaria infection. Enrollment and follow ups of the proposed target (1500) has completed Data cleaning is still undergoing
85	Prof. f., Mugusi	MUHAS- Harvard Collaborative Projects with funds from NIH	Malaria 1: Exposure of Biomass during pregnancy: Possible role of Placental Damage (Cook smoke)	
87	Prof. S. Kaaya	Family Health International with funds from NIH	Adolescent women and Microbicide trials: Assessing the challenges and opportunities to their participation	Closed out end of april 2013 and is only active for analysis and manuscript development
88	Dr. J.K.K. Mbwambo/Ms S.K. Maonga	National Institutes of Health (NIH) in collaboration with University of North Carolina (UNC)	Identifying venues to prevent HIV and violence for youth in Tandale district, Dar es Salaam	Completed

89	Prof. M Aboud	NIH/ Forgarty International Center	International Extramural Research Development Award	<p>a) During the third year of the program we aimed to complete and sustain the first and second year achievements, continue to work toward the strengthening of dedicated Office of the Sponsored Programs (OSP), networking within the country and the region, improving the knowledge and skills of research administrators within the institution and outside by supporting training programs through initiative of Research and Innovation Management (iRIM) training administrative supplement. The iRIM has also been the major activity in the year 3 program activities. Through faculty development training program, one whole day seminar was conducted focusing on functions of Clinical monitors and Data Safety Monitoring Boards (DSMB) for clinical trials, tissue banking and material transfer agreements. Thirty two junior and senior faculty attended the seminar. The seminar was facilitated by officer from Tanzania Food and Drug Authority (TFDA). The program supported NIH Grant Writing training workshop, held in September 2012. Twenty two participants attended the workshop. The program supported one day workshop on 2nd July 2012 for MUHAS's schools and institutes research committee representatives from all schools, and development and updating the Directorate of Research and Publication website. OSP has also been supportive in grant application process, from acquiring letters of support to uploading application, electronic submission and tracking. Faculty with Authorised Organization Representatives (AOR) status has been increased to at least one for each school.</p>
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90	Dr. A. Sanyiwa	MUHAS- Fred Hollows Foundation	Outreach Programme to provide quality practical training to Ophthalmology students	The project ended March 2013. The vote code has about 290,000Tsh.for drivers allowance for April 2014. Will still maintain the code as we are looking for another partner to support the outreach. For the moment we are supported by Mobile eyes Tanzania, who brings everything to the site and we provide the human resource. I have attached the report of the project
91	Dr. M. Njelekela	AIRES SUD	Air Pollution and Health Effects in Dar es Salaam, Arusha and Mwanza	
92	Prof. F. Mugusi	EDCTP	Prevalence of HIV Drug Resistance in HIV Infected Patients at MNH and the Application of Bioinformatics in Prediction of Appropriate Therapy	
93	Dr. J. Mwamboto/Dr S L Likindikoki	JHU collaboration	Strategic Assessment to Define a Comprehensive Response to HIV in Iringa, Tanzania	Closed; dissemination to Iringa and Dar es Salaam stakeholders done. Manuscript development outside period of funded research activity
94	Dr. A. Mwaki-gonja	Centre for AIDS Research (CFAR) at UCSF	Tanzania Cancer Registry	

95	Prof. M. Matee	Dartmouth	Dar Dar Pension contribution funds	
98	Lusajo Kajula	University of North Carolina	A multilevel intervention to reduce HIV Risk among networks of men in Tanzania	
102	Dr. M. Mtaya Mlangwa	Netherlands Organisation for scientific research wotro science for global development- through TASENE programme. In collaboration with Radboud University N i j m e g e n Medical Centre	Post Doc TASENE Research Award titled "Novel therapies to reduce scarring and quality of life assessment in orofacial clefting"	The overall objective of this project is to determine the Novel therapies to reduce scarring and quality of life assessment in orofacial clefting. It is implemented in 3 Major hospitals in Tanzania namely CCBRT, Muhimbili and Bugando and also in the Netherlands at the Cleft Palate Craniofacial Unit of the UMC St Radboud, Nijmegen. In each country, 75 patients and their parents are required to fill in the questionnaires namely the ECOHIS (for children of 7 years and less) and the COHIP (for children of 8-18 years). Children are also being clinically examined for conditions associated with Cleft Lip and Cleft Palate, such as; malocclusions, caries and bad oral hygiene. Data entry is in progress and analysis is planned to start from May 2014, in the Netherlands. A presentation was given in one international conference in Seoul, South Korea.

103	Dr. E. T Lwoga	Elsevier Foundation	Strengthening professional's skills in evidence based health care in Tanzania	<p>The project conducted a national survey and a series of two workshops on evidence based health care (EBHC) among medical University faculty, clinicians and other health care workers to improve the training, research and patient care services in Tanzania. The project developed workshop materials and conducted two workshops at Muhimbili University of Health and Allied Sciences (MUHAS), by MUHAS librarians in collaboration with Information Training and Outreach Centre for Africa (ITOCA) trainers. The first course was delivered through face to face, while the second one was delivered through a combination of face-to-face and via a videoconferencing (VC) facility. A total of 52 participants attended the two workshops on EBHC. The project will continue to conduct six workshops from 2014-2015, and conduct post-evaluation surveys to assess the impact of the workshops on EBHC.</p>
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23.3 Publications

During the reporting periods MUHAS academic community continued to carry out research and to publish. The number of publications in 2012/2013 was 137. Compared to previous year (2011/2012) there is a notable decrease of publication from 197 to 137 in 2012/2013

23.3.1 Journal Articles in 2012/2013

During the reporting period the University produced various publications, some of the areas in which the publications were written are, HIV/AIDS, Malaria, Maternal Health, Cancers, Diabetes, Child health and others. The following is a list of some of the publications produced in local, regional and International Journals during the reporting period.

Table 20 Summary of papers published by staff during the reporting period

S/ No	Title of Publication	Authors
1.	Self reported gingival conditions, oral hygiene habits and dental attendance among pregnant women in Dar es Salaam, Tanzania	Paulo T. N. Sarita, David Ntindhwa and Severine N. Anthony
2.	Giant calculus: review and report of a case	Kar; Woodmancey, Severine Anthony, Bakari Lembariti
3.	Oral Health knowledge and practices of secondary school students, Tanga, Tanzania	Carneiro LC, Kabulwa M, Mrosso G, Choum RT
4.	Immediate reconstruction of the mandible after resection for aggressive odontogenic tumors: a cohort study.	Simon EN, Merx MA, Kalyanyama BM, Shubi FM, Stoelinga PJ.
5.	Pattern of occurrence and treatment of impacted teeth at the Muhimbili National Hospital, Dar es Salaam, Tanzania.	Msagati F, Simon ENM, Owibingire S.
6.	Editorial: The Impact of Global Health on General and Oral Health.	Mugonzibwa EA.

7.	Editorial: Previous toothache, dental visits and caries presence among primary school children in Dar es Salaam.	Maro, D, Roberts H, Machibya F, Kahabuka FK, Mugonzibwa EA.
8.	Attitudes, subjective norms, and intention to perform routine oral examination for oropharyngeal candidiasis as perceived by primary health-care providers in Nairobi Province. 4.	Koyio LN, Kikwilu E , Mulder J, Frencken JE
9.	New curriculum in dentistry for Tanzania: competency-based education for patient and population health (2008-2011).	Loomer PM, Masalu JR , Mumghamba E, Perry DA.
10.	An institutional research agenda: focusing university expertise in Tanzania on national health priorities.	Masalu JR , Aboud M, Moshi MJ, Mugusi F, Kamuhabwa A, Mgimwa N, Freeman P, Goodell AJ, Kaaya EE, Macfarlane SB.
11.	Treatment time, outcome, and anchorage loss comparisons of self-ligating and conventional brackets.	Machibya FM , Bao X, Zhao L, Hu M.
12.	Changes in adolescents' oral health status following oral health promotion activities in Tanzania.	Mbawalla H, Masalu JR , Masatu M, Åström AN.
13	Bioactive benzophenones from stem bark and fruit hulls of <i>Garcinia semseii</i> Verdc, <i>International Journal of Research in Phytochemistry and Pharmacology</i> , 2(1), 261-265	Magadula J.J. (2012).
14	Mahunnah, R.L.A. (2012) Experience on Healthcare Utilization in Seven Administrative Regions of Tanzania. <i>Journal of Ethnobiology and Ethnomedicine</i> , 8: 5.	Kayombo, E.J., Uiso, F.C.,

15	Antimicrobial activity and phytochemical screening of <i>Antidesma venosum</i> root and stem bark ethanolic extracts. <i>International Journal of Plant Research and Pharmacology</i> , 2, 90-95	Mwangomo, D.T., Moshi, M.J., Magadula, J.J. (2012).
15	Checklist of Tanzania Plants, pp 247-520. In Gideon, H, Nyinondi, Oyema G (eds). Checklist of Tanzania Species, Version 1, TanBIF, COSTECH pp 545	Gideon H, Nyinondi P, Reuben s.o.w.n, Otieno, J.N and Tindamanyire N (2012).
16	Anti-Ages Activity Screening of Natural Compounds Isolated from Tanzanian Clusiaceous species, Proceedings of the International Congress for	Magadula, J.J., Gatto, J., Mbwapbo, Z., Debre, S. Guilet, D., Richomme, P.(2012).
17	A study of antimicrobial activity, acute toxicity and cytoprotective effect of a polyherbal extract in a rat ethanol-HCl gastric ulcer model. <i>BMC Research Notes</i> , 5:210179128567048 9	Haule, E., Moshi, M.J., Nondo, R.S.O., Mwangomo, D.T., Mahunnah, R.L.A. (2012).
18	Bioactive Mammea-type coumarins and benzophenones from two Clusiaceae Plants. <i>Journal of Pharmaceutical and Scientific Innovations</i> , 1(5), 31-33	Magadula, J.J. (2012).
19	Antimycobacterial Sterols from Aromatic Stem Sap of <i>Commiphora eminii</i> Engl. <i>Journal of Advanced Scientific Research</i> ,3(4), 27-31	Erasto, P. (2012).
20	The Isolation of Important Biosynthetic Intermediate; Presqualene Alcohol and Its Acetate Derivative from <i>Antidesma Venosum</i> . <i>Journal of Advanced Scientific Research</i> , 3(4), 32-3	Magadula, J.J., Mulholland, D.A., Crouch, N.R. (2012).

21	Conservation assessment and management planning of medicinal plants in Tanzania. <i>Medicinal plants conservation</i> , 15:35	R.L. Mahunnah, S. Augustino, J.N. Otieno and J. Elia (2012).
22	Larvicidal activity of <i>Kotschy ugwenensis</i> plant powders and methanol extracts against <i>Anopheles gambiae</i> S.S. larvae in the laboratory and in simulated ponds. <i>Journal of Applied Pharmaceutical Science</i> , 3, 122-126	Innocent E, Nkunya MHH, and Hassanali A (2013).
23	An institutional research agenda: Focusing university expertise in Tanzania on national health priorities. <i>Journal of Public Health Policy</i> 2012; 33, S1, S186–S201	Joyce R. Masalu, Muhsin Aboud, Mainen J. Moshi, Ferdinand Mugusi, Appolinary Kamuhabwa, NanaMgimwa, Phyllis Freeman, Alex J. Goodell, Ephata E. Kaaya, and Sarah B. Macfarlane (2012).
24	Time course effects of <i>Vitex schiliebenii</i> (Varbenaceae) solvent extracts on <i>Anopheles gambiae</i> giles s.s. Larvae under simulated semi field conditions. <i>Novus Natural Science Research</i> . 2 (1), 27-34	Mocha G. Nyamoita, Innocent Ester, Mbwapbo H. Zakaria, Lwande Wilber, Bwire J. Ochola and Hassanali Ahmed (2013).
25	Integration of Micro fractionation, qNMR and Zebra fish Screening for the In Vivo Bioassay-Guided Isolation and Quantitative Bioactivity Analysis of Natural Products. <i>PLoS One</i> ;8(5): e64006. doi: 10.1371/journal.pone.0064006. Print.	Bohni N, Cordero-Maldonado ML, Maes J, Siverio-Mota D, Marcourt L, Munck S, Kamuhabwa AR, Moshi MJ, Esguerra CV, de Witte PA, Crawford AD, Wolfender JL (2013).
26	Larvicidal and Brine Shrimp Activities of <i>Vitex Schiliebenii</i> Extracts and Isolated Phytoecdysteroids on <i>Anopheles gambiae</i> Giles S.S Larvae. <i>Journal of Applied Pharmaceutical Science</i> , 3, 91-95	Mokua G. Nyamoita, Innocent Ester, Mbwapbo H. Zakaria, Lwande Wilber, Bwire J. Ochola and Hassanali Ahmed (2013).

27	A novel α -lactone and other constituents of a Tanzanian <i>Antidesma venosum</i> , <i>Spatula DD</i> , 3(1), 7-12	Magadula, J.J., Mwangomo, D.T., Moshi, M.J., Heydenreich, M (2013).
28	<i>In Ovo</i> Antiviral activity of <i>Synadenium glaucescens</i> (pax) crude extracts on Newcastle disease virus. <i>Journal of Medicinal plants Research</i> , 7(14), 863-870	Mabiki F., Mdegela R.H, Mosha, R.D, Magadula J.J. (2013).
29	Antiviral Activity of Crude Extracts Of <i>Synadenium glaucescens</i> (Pax) against Infectious Bursal Disease And Fowlpox Virus. <i>Journal of Medicinal Plants Research</i> , 7(14), 871-876	Mabiki F., Mdegela R.H, Mosha, R.D and Magadula J .J. (2013).
30	The efficacy of the crude root bark extracts of <i>Erythrina abyssinica</i> on rifampicin resistant <i>mycobacterium tuberculosis</i> . <i>African Health Sciences</i> . 11(4), 587-593	Bunalema, L., Kirimuhuzya, C., Waako P., Tabuti, J.R.S., Orodho J., Magadula J.J., Otieno N., Okemo P. (2012).
31	Application of Crude Extracts from <i>Synadenium glaucescens</i> for Wound Healing and Control of Bacterial and Fungal Diseases, BRELA PATENT No TZ/P/10/00280	Mabiki, F.M., Mdegela, R.H., Mtambo, M. M. A., Mosha, R.D., Magadula, J.J. , Bakari, GG., Max, R. (2011).
32	Use of crude extracts from <i>Synadenium glaucescens</i> for treatment of poultry diseases. BRELA PATENT No TZ/P/10/00274	Mabiki, F.M., Mdegela, R.H., Mtambo, M. M. A., Mosha, R.D., Magadula, J.J. , Bakari, GG., Max, R. (2011).
33	Control of Newcastle Disease in poultry Using <i>Commiphora swynnertonii</i> crude extracts. BRELA PATENT No TZ/P/10/00277	Bakari, GG., Mabiki, F.M., Max, R., Mdegela, R.H., Mtambo, M. M. A., Phiri, E, J.H., Mosha, R.D., Magadula, J.J (2011).
34	Comparison of the effects of extracts from three Vitex plant species on <i>Anopheles gambiae</i> s.s. (Diptera: Culicidae) larvae. <i>Acta tropica</i> , 127, 199-203	1. Moku G. Nyamoita, Innocent Ester, Mbwapo H. Zakaria, Lwande Wilber, Bwire J. Ochola and Hassanali Ahmed (2013).

35	Polyphenolic Compounds with Anti-Ages Activity Isolated from Clusiaceae Plants of Tanzanian Origin: in Health Research Towards Poverty Alleviation, <i>Proceedings of the 1st MUHAS Scientific Conference</i> , May, pp. 88	Magadula, J.J., Gatto, J., Mbwambo, Z.H., Derbré, S., Guilet, D., Richomme, P (2013).
36	Reforms: a quest for efficiency or an opportunity for vested interests'? A case study of pharmaceutical policy reforms in Tanzania; BMC Public Health. 2013 Jul 13; 13:651. doi: 10.1186/1471-2458-13-651	Mori AT, Kaale EA , Risha P
37	Development and Validation of an HPTLC-Densitometry Method for Simultaneous Analysis of Lamivudine, Tenofovir Disoproxil Fumerate, and Efavirenz (LTE) in Tablets, <i>Journal of Planar Chromatography</i> 26(2013)3.	Bugusu Celestine Nyamweru, Eliangiringa Kaale, Veronica Mugoyela and Mhina Chambuso
38	A Retrospective Study of Poisoning at Muhimbili National Hospital in Dar-Es Salaam, Tanzania; <i>Journal of Public Health Frontier</i> Mar. 2013, Vol. 2 Iss. 1, PP. 21-26	E. Kaale , A. Mori, P. Risha, S. Hasham, K. Mwambete
39	The development and validation of a Thin Layer Chromatography densitometry method for the analysis of diclofenac sodium tablets; International Journal of Chemical and Analytical Science, Volume 4, Issue 2, June 2013, Pages 73–79 DOI: 10.1016/j.ijcas.2013.05.001	Eliangiringa Kaale , Bugusu C. Nyamweru, Vicky Manyanga, Mhina Chambuso, Thomas Layloff

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42	Factors Influencing the Persistence of Tobacco Smoking in Public Places in Tanzania: A Cross-Sectional Study in Urban, Rural and Semi-Rural Settings, Journal of Public Health Frontier Jun. 2013, Vol. 2 Iss. 2, PP. 77-82	A.T. Mori , E. A. Kaale , A Haule
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58	Prevalence and Management of Helminthiasis among underfiveswith HIV/AIDs at Amana Hospital; IntAssoc Physicians AIDS Care 2012	Mwambete Kennedy Daniel Tunzo J. and Mary Justin-Temu
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60	Burns in Tanzania: Morbidity and Mortality, Causes and Risk Factors: A Review Int J Burn Trauma and be published 2013; 3(1).	Anne H. Outwater, Hawa Ismail, LwidikoMgalilwa, Mary Justin Temu ,Reboth A. Mbembati
61	Challenges of secondary immunodeficiency and drug resistant opportunistic pathogens in developing countries; Chapter in a book "Microbial pathogens and strategies for combating them: science, technology and education" 2013 in Press	K.D. Mwambete and M. Justin-Temu
62	Curricular transformation of health professions education in Tanzania: The process at MUHAS (since 2008-2011); Journal of Public Health Policy, 2012; 33:S64-S91.	O. Ngasspa, E. Kaaya, M. Fyfe, E. F. Lyamuya, D.C. Kakoko, E. J.Kayombo, R. R. Kisenge, H Loeser, A. R. Mwakigonja, A. H. Outwater, J. Martin-Holland, K. D. Mwambete , I. Kida and S. B. 63MacFarlane.
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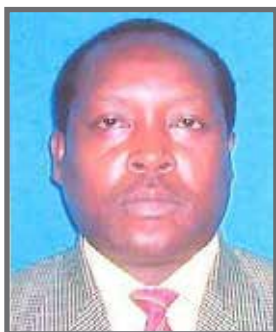
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24.0 Department of Finance



Mr. T.R.J Tibenda

The Department of Finance constitute of five sections namely; Revenue Accounts, Expenditure Accounts, Accounting Records, Fixed ssets and Project Accounts. The Department plan, direct and control the financial accounting operations of the University. Since its sections have grown to major units, plans are under way to upgrade the department to a Directorate.

It is also responsible for coordinating the preparation of budgets and provides fundamental feedback on the budget performance and assessment of the financial situation of the University.

It ensures implementation of good finance practice and transparency in finance management, reporting, and timely preparation of financial statements.

The Department is using Epicor Accounting Software in its financial accounting operations. During the reporting period Epicor was upgraded from version 7.3.5 to 9.2. This was necessitated by increasing need of generating reports which suit requirements of various stake holders, especially research projects. Following these changes 15 accountants attended training for application of the new version. In keeping abreast of current development in accounting profession, five accountants attended various courses in Rwanda, Zambia, Kenya and South Africa.

24.1 Financial Statements

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30TH JUNE, 2012

	2011/2012 TZS	2010/2011 TZS
Surplus / (Loss) for the Year	(1,633,890,249)	185,561,006
Adjustment For:		
Depreciation	1,550,135,818	908,829,002
Gain on Disposal of Assets	(50,800,000)	0
Foreign Exchange Gain	(56,258,900)	0
Operating Surplus / (Loss) Before Changes in Working Capital	(190,813,331)	1,094,390,008
Changes in Working Capital Items		
Decrease (Increase) / in Inventory	351,157,846	(604,092,316)
Decrease (Increase) / in Trade and Other Receivables	(262,556,483)	(152,017,292)
Increase / (Decrease) in Loans	(234,419,852)	(464,087,204)
Increase / (Decrease) Trade and Other Payables	(806,935,041)	847,957,964
Increase / (Decrease) Short Term Liabilities	(1,783,900)	(36,580,890)
Net Cash Flows From Operations (A)	(1,145,350,761)	685,570,270
CASH FLOWS FROM INVESTING ACTIVITIES		
Acquisition of Property and Equipment	(3,292,548,289)	(1,503,457,354)
Acquisition of Intangible Software	(49,831,670)	0
Proceeds from sale of Motor Vehicles	78,500,000	0
Net Cash Flows From Investing (B)	(3,263,879,959)	(1,503,457,354)
CASH FLOWS FROM FINANCING		
Capital Fund	0	968,320,272
Donor Grants	2,631,295,886	(479,282,349)
Net Cash Flows From Financing (C)	2,631,295,886	489,037,923
NET CASH FLOWS IN DURING THE YEAR (A+B+C)	(1,777,934,834)	(328,847,161)
Cash and Cash Equivalents at the Beginning of the Year	7,204,308,532	7,533,157,693
CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR	5,426,373,698	7,204,308,532

Notes 1 to 28 Form Part of these Financial Statements. Auditors Report on Pages 11 to 12.

Atukama
CHAIRPERSON

P. S. Jiddau
COUNCIL MEMBER

DATE 6th March 2013

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 30TH JUNE, 2012

	CAPITAL FUND	REVALUATION RESERVE	ACCUMULATED SURPLUS/ (DEFICIT)	TOTAL
	TZS	TZS	TZS	TZS
Balance As At 1st July, 2010	23,224,024,685	2,889,824,852	1,269,513,713	27,383,363,250
Surplus / (Loss) for the Year	<u>968,320,272</u>	<u>52,780,061,500</u>	<u>185,561,006</u>	<u>53,933,942,778</u>
Balance As At 30 th June, 2011	<u>24,192,344,957</u>	<u>55,669,886,352</u>	<u>1,455,074,719</u>	<u>81,317,306,028</u>
Balance As At 1 st July, 2011	24,192,344,957	55,669,886,352	1,455,074,719	81,317,306,028
Surplus / (Loss) for the Year	<u>0</u>	<u>0</u>	<u>(1,633,890,249)</u>	<u>(1,633,890,249)</u>
Balance As At 30 th June, 2012	<u>24,192,344,957</u>	<u>55,669,886,352</u>	<u>(178,815,530)</u>	<u>79,683,415,779</u>

Notes 1 to 28 Form Part of these Financial Statements. Auditors Report on Pages 11 to 12.

R. A. M. K. K. K. K. K.
CHAIRPERSON

D. S. J. J. J. J. J.
COUNCIL MEMBER

DATE *6 March 2013*

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30TH JUNE, 2012

	2011/2012 TZS	2010/2011 TZS
Surplus / (Loss) for the Year	(1,633,890,249)	185,561,006
Adjustment For:		
Depreciation	1,550,135,818	908,829,002
Gain on Disposal of Assets	(50,800,000)	0
Foreign Exchange Gain	(56,258,900)	0
Operating Surplus / (Loss) Before Changes in Working Capital	(190,813,331)	1,094,390,008
Changes in Working Capital Items		
Decrease (Increase) / in Inventory	351,157,846	(604,092,316)
Decrease (Increase) / in Trade and Other Receivables	(262,556,483)	(152,017,292)
Increase / (Decrease) in Loans	(234,419,852)	(464,087,204)
Increase / (Decrease) Trade and Other Payables	(806,935,041)	847,957,964
Increase / (Decrease) Short Term Liabilities	(1,783,900)	(36,580,890)
Net Cash Flows From Operations (A)	(1,145,350,761)	685,570,270
CASH FLOWS FROM INVESTING ACTIVITIES		
Acquisition of Property and Equipment	(3,292,548,289)	(1,503,457,354)
Acquisition of Intangible Software	(49,831,670)	0
Proceeds from sale of Motor Vehicles	78,500,000	0
Net Cash Flows From Investing (B)	(3,263,879,959)	(1,503,457,354)
CASH FLOWS FROM FINANCING		
Capital Fund	0	968,320,272
Donor Grants	2,631,295,886	(479,282,349)
Net Cash Flows From Financing (C)	2,631,295,886	489,037,923
NET CASH FLOWS IN DURING THE YEAR (A+B+C)	(1,777,934,834)	(328,847,161)
Cash and Cash Equivalents at the Beginning of the Year	7,204,308,532	7,533,157,693
CASH AND CASH EQUIVALENTS AT THE END OF THE YEAR	5,426,373,698	7,204,308,532

Notes 1 to 28 Form Part of these Financial Statements. Auditors Report on Pages 11 to 12.

At Hukamazinga
CHAIRPERSON

D.S. Jiddau
COUNCIL MEMBER

DATE *6th March 2013*

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES
STATEMENT OF COMPREHENSIVE INCOME FOR THE YEAR ENDED 30TH JUNE, 2012

	NOTES	2011/2012 TZS	2010/2011 TZS
REVENUE			
Government Grants	16	12,825,418,542	13,246,464,820
Donors Research Grants	17	15,800,692,400	14,354,465,520
Project Income	18	2,707,691,055	1,144,357,242
Student Fees	19	5,747,555,805	3,677,374,988
Sundry Income	20	<u>506,717,348</u>	<u>1,184,083,525</u>
		<u>37,588,075,150</u>	<u>33,606,746,095</u>
EXPENDITURE			
Academic Expenses	21	17,930,235,540	16,339,902,375
Staff Emoluments	22	14,096,243,044	12,056,197,827
Administrative Expenses	23	5,645,350,997	4,116,255,885
Depreciation and Amortization	24	<u>1,550,135,818</u>	<u>908,829,002</u>
		<u>39,221,965,399</u>	<u>33,421,185,089</u>
SURPLUS / (LOSS) FOR THE YEAR		<u>(1,633,890,249)</u>	<u>185,561,006</u>

Notes 1 to 28 Form Part of these Financial Statements. Auditors Report on Pages 11 to 12.

E. H. N. Kamugina
CHAIRPERSON

P. S. Iradaw
COUNCIL MEMBER

DATE *6th March 2013*

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF FINANCIAL POSITION AS AT 30TH JUNE, 2012

ASSETS	NOTES	30.06.2012 TZS	30.06.2011 TZS
Non-Current Assets			
Property, Plant and Equipment	4	79,532,261,584	77,755,432,542
Epicor Accounting Software	5	68,230,154	80,515,056
Total		<u>79,600,491,738</u>	<u>77,835,947,598</u>
Current Assets			
Inventories	6	456,484,435	807,642,281
Trade and Other Receivables	7	680,175,898	417,619,415
Cash and Cash Equivalents	8	<u>5,426,373,698</u>	<u>7,204,308,532</u>
		<u>6,563,034,031</u>	<u>8,429,570,228</u>
TOTAL ASSETS		<u>86,163,525,769</u>	<u>86,265,517,826</u>
EQUITY AND LIABILITIES			
Equity			
Capital Fund	9	24,192,344,957	24,192,344,957
Revaluation Reserves	10	55,669,886,352	55,669,886,352
Accumulated Surplus(Deficit)	11	<u>(178,815,530)</u>	<u>1,455,074,719</u>
Total Equity		<u>79,683,415,779</u>	<u>81,317,306,028</u>
LIABILITIES			
Non-Current Liabilities			
Long Term Loans	12	0	234,419,852
Donor Capital Grant	13	<u>5,314,472,964</u>	<u>2,739,435,979</u>
		<u>5,314,472,964</u>	<u>2,973,855,831</u>
Current Liabilities			
Trade and Other Payables	14	1,151,440,516	1,958,375,557
Other Short Term Liabilities	15	<u>14,196,510</u>	<u>15,980,410</u>
		<u>1,165,637,026</u>	<u>4,948,211,798</u>
TOTAL EQUITY AND LIABILITIES		<u>86,163,525,769</u>	<u>86,265,517,826</u>

Notes 1 to 28 Form Part of these Financial Statements. Auditors Report on Pages 11 to 12.

D.A. Hakamazingi

CHAIRPERSON

DATE *6th March 2013*

J.S. Jidda

COUNCIL MEMBER

25.0 Obituary

With deep regret and sorrow, the Vice Chancellor and the MUHAS community remembers the Colleagues who passed on during the reporting period as shown in the table below

25.1 Academic Staff.

S/N	Name	Designation	Date	Directorate/ Department
1	Dr. Enock Sayi	Senior Lecturer	31.12.2012	Surgery
2	Prof. Primo Carneiro	Professor	13.12.2012	Surgery
3	Dr. Sigfrid G. Mung'ong'o	Senior Lecturer	04.09.2013	Medicinal Chemistry

25.2 Administrative and Technical Staff.

S/N	Name	Designation	Date	Directorate/ Department
1	Mohamed S. Mohamed	Artisan	30.08.2012	Estates
2	William Stanslaus	Health attendant	27.10.2012	School of Medicine
3	Abdallah Hamidu Mpugike	Auxiliary Police	03.09.2013	Security