

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES



ANNUAL REPORT 2010-2011

© Muhimbili University of Health and Allied Sciences
Dar es Salaam, 2011

Table of contents

Table of Contents	ii
List of Tables	iv
List of figures	v
List of Abbreviations	vi
Milestones of MUHAS	viii
Institutional Leadership 1963 – to date	ix
Members of the Muhimbili University Council during 2010/2011	ix
Muhimbili University of Health and Allied Sciences Top Management	x
Vice Chancellor's Preface	xi
1.0 Introduction	1
2.0 Vision and Mission of the University	1
2.1 Vision	1
2.2 Mission	1
2.3 The Values	1
3.0 Teaching and Human Resources Affairs	2
3.1 Teaching and Learning	2
3.1.1 Programmes offered by MUHAS	2
3.1.2 Student Admissions	5
3.1.3 Examination Performances 2010/2011	6
3.1.4 Student Outputs	8
3.1.5 Graduation Ceremony 2010	9
3.1.6 Student Academic Staff Ratio	10
3.2 Human Resources	10
3.2.1 Academic Staff by Qualification	10
3.2.2 Academic Staff Development	11
3.2.3 Academic Staff Recruitment	11
3.2.4 Academic Staff by Age and Sex	11
3.2.5 Administrative Staff Development	12
3.2.6 Administrative Staff Recruitment	12
3.2.7 Administrative staff by Age and Sex	12
3.2.8 Technical staff by Age and Sex	13
3.2.9 Administrative and Technical Staff by Qualification and Sex	14
3.2.10 Promotions	15
4.0 Activities Implemented in Schools, Directorates, Academic and Research Institutes	16
4.1 School of Medicine	16
4.2 School of Dentistry	17
4.3 School of Pharmacy	18
4.4 School of Nursing	21
4.5 School of Public Health and Social Sciences	22
4.6 Institute of Allied Health Sciences	24
4.7 Institute of Traditional Medicine	26
4.8 Directorate of Postgraduate Studies	27
4.9 Directorate of Research and Publication	29

4.10 Directorate of Planning and Development – Muhimbili Campus	33
4.11 Directorate of Planning and Development – Mloganzila Campus	38
4.12 Directorate of Information Communication and Technology Services	42
4.13 Directorate of Library services	44
4.14 Directorate of Continuing Education and Professional Development	46
4.15 Directorate of Undergraduate Education	50
4.16 Office of the Dean of Students	52
5.0 International Exchange Program Unit	54
5.1 Elective Study Activities	54
6.0 Research projects and Publications	56
6.1 Research Projects	56
6.2 Research Funding 2000/2001 to 2010/2011	57
6.3 Publications	94
6.4 Journal Articles in 2010/2011	94
7.0 Obituary	111
8.0 Appendix - Audited Financial Statement for year ended 30th June 2009	112

List of Tables

Table 1: Academic programs established from 2006/2007 to 2010/2011.....	4
Table 2: Student academic staff ratios.....	10
Table 3: Academic Staff Promotions during 2009/2010	15
Table 4: BPharm Student Enrolment in 2010/2011.....	18
Table 5: Postgraduate Students Enrolment School of Pharmacy.....	19
Table 6: Academic staff members in the school of Pharmacy on training in 2010/2011.....	20
Table 7: Summary of Registered Postgraduates for Academic Year 2010/2011...	27
Table 8: Distribution of postgraduate candidates Registered in 2010/2011 by School and Sex.....	29
Table 9: Progress Report on MUHAS Projects during 2010/2011	29

List of Figures

Figure 1: Trend of Development of Academic Programs: Reflecting Number of Diploma and Degree Programs at MUHAS.....	3
Figure 2: Students Registered for Undergraduate Degree Programms.....	5
Figure 3: Number of Postgraduate Students Registered for Degree Programmes 2005/06 – 210/11.....	6
Figure 4: Diploma Programmes Examination Performance 2010/2011.....	7
Figure 5: Undegraduate Degree Programmes Examination Results 210/2011...	7
Figure 6: Postgraduate Degree Programmes Examination Results 2010/2011....	8
Figure 7: Diploma, Undergraduate and Postgraduate Students Outputs.....	9
Figure 8: Diploma, Undergraduate and Postgraduate Students' Outputs by sex	10
Figure 9: Academic Staff by Qualification.....	11
Figure10: Age Distribution for Academic staff by Sex (2010/11).....	12
Figure 11: Age Distribution for Administrative Staff by Sex.....	13
Figure 12: Technical staff by Age and Sex.....	13
Figure 13: Administrative and Technical Staff by Qualification and Sex.....	14
Figure 14: ICT Problems attended by DICT from July 2010 – June 2011.....	43
Figure 15: Trend of Research projects from 2005/2006 to 2010/2011.....	57
Figure 16: Government and Donor Agencies Allocations of research Funds to MUHAS 2000/2001 – 2010/2011.....	58
Figure 17: Trend of Publication at MUHAS from 2001 to 2011.....	94

List of Abbreviations

ABBOTT	A global, broad-based health care company devoted to discovering new medicines, new technologies and new ways to manage health.
AIDS	Acquired Immunodeficiency Syndrome
ALP	Academic Learning Project
BGML	Barick Gold Mine Limited
BMGF	Bill and Melinda Gates Foundation
BMLS	Bachelor of Medical Laboratory Sciences
B.Pharm	Bachelor of Pharmacy
BSc	Bachelor of Science
BScN	Bachelor of Science Nursing
BSC RTT	Bachelor of Science, Radiation Therapy Technology
BTU	Bagamoyo Training Unit
CBVCT	Community Based Voluntary Counseling and Testing (CBCVT)
COSTECH	Commission of Science and Technology
CDC	Centre for Disease Control
CHPE	Centre for Health Professional Development
CPA	Certified Public Accountant
CPD	Continuing Professional Development
CPOI	Community Popular Opinion Intervention
CVCPT	Committee of Vice Chancellors and Principals of Tanzania
DAWASCO	Dar es Salaam Water and sewerage Company
DCEPD	Directorate of Continuing Education and Professional Development
DeIPHE	Development Partnership in Higher Education
DFID	Department For International Development
DNA	Deoxyribonucleic acid
DPRET	Dartmouth/Penn Research Ethics Training Grant
DVC	Deputy Vice Chancellor
EDCF	Economic Development Cooperation Fund
EIA	Environmental Impact Assessment
FHI	Family Health International
GDC	Gender Dimension Committee
GPD	Gross Domestic Product
GTZ	Deutsche Gesellschaft für Technische Zusammenarbeit
HAART	Highly Active antiretroviral therapy
HEMP	Health emergency Management Project
HESLB	Higher Education Students Loan Board
HIV	Human Immunodeficiency Virus
HPE	Health Professional Educators
HRH	Human Resources for Health
IAHS	Institute of Allied Health Sciences
ICOHRTA	International Clinical Operations and health System Research Training on Aids and TB
ICT	Information Communication Technology
IEARDA	International Extramural Associates Research Development Award
IFLA	International Federation of Library Associations
ISP	Internet Service Provider
ITM	Institute of Traditional Medicine
KCMC	Kilimanjaro Christian Medical College

LAN	Local Area Network
LIPHEA	Leadership Initiative of Public Health in East Africa
MCW	Miracle Corners of the World
MD	Doctor of Medicine
MHEST	Ministry of Higher Education Science and Technology
MMed	Master of Medicine
Mpharm	Master of Pharmacy
MNH	Muhimbili National Hospital
MoH&SW	Ministry of Health and Social Welfare
MoLHHSD	Ministry of Lands, Housing and Human Settlement Development
MoF	Ministry of Finance
MoEVT	Ministry of Education and Vocational Training
MUHASA	Muhimbili Academic Staff Assembly
MUHAS	Muhimbili University of Health and Allied Sciences
MUHASSO	Muhimbili University of Health and Allied Sciences Student organization
BOQ	Bill of Quantities
MSc	Master of Science
MUSC	Medical University of South Carolina
MVC	Most Vulnerable Children
NEMC	National Environment Management Council
NIMH	National Institutes of Mental Health
NIH	National Institute of Health
NHIF	National Health Insurance Fund
NORAD	Norwegian Agency for Regional Development
PFA	Planning Finance and Administration
PGAF	Pangaea Global AIDS Foundation
PhD	Doctor of Philosophy
PI	Principal Investigator
PTSS	Post test Support Services
SARIS	Records Information System (SARIS)
Sida/SAREC	Swedish International Development Agency/Department for Research Cooperation
SLF	Student Loan form
SOD	School of Dentistry
SOP	Standard Operating Procedures
SPHSS	School of Public Health and Social Sciences
SSB	Student Services Bureau
TAN TRADE	Tanzania Trade Development Authority
TANESCO	Tanzania Electric Supply Company
TAPP	Tanzania AIDS Prevention Programme
TEA	Tanzania Education Authority
TDC	Tropical Deaseses Control
TOV	Trial of Vitamins
USA	United State of America
USAID	United States Agency for International Development
UK	United Kingdom
UNICEF	United Nations Children's Fund
WHO	World Health Organization
YHC	Youth Health Corp

Milestones of MUHAS

- 1963** The Dar es Salaam School of Medicine established under Ministry of Health
- 1968** The Dar es Salaam School of Medicine becomes the Faculty of Medicine of the University College of Dar es Salaam a constituent College of the University of East Africa.
- 1969** Faculty of Medicine launches an intensive course in biomedical sciences for diploma students. This was meant to convert the diplomas to the Bachelor of Medicine and Bachelor of Surgery (MB; ChB) degree which was being offered by the University of East Africa.
- 1970** The Faculty of Medicine becomes Faculty of Medicine of the University of Dar es Salaam.
- 1974** Faculty of Medicine launches a three-year Bachelors degree in Pharmacy in the Division of Pharmaceutical Sciences.
- 1974** Traditional Medicine Research Unit is launched within Muhimbili.
- 1976** Faculty of Medicine and Muhimbili Hospital merge to form Muhimbili Medical Centre (MMC).
- 1979** A five-year degree course in Doctor of Dental Surgery starts in the Division of Dentistry.
- 1989** A Bachelor of Science in Nursing degree and Faculty of Nursing established.
- 1991** Faculty of Medicine upgraded into a constituent College of the University of Dar es Salaam and in July of 1991 the Muhimbili University College of Health Sciences becomes established.
- 1991** The Institute of Allied Health Sciences established from the former paramedical schools.
- 1991** The Institute of Public Health Predecessor of School of Public Health and social Sciences Established
- 1997** Programme Management Unit is created to address planning and development issues in the College.
- 2000** Muhimbili Medical Centre is disestablished to create two closely linked but autonomous public institutions known as Muhimbili University College of Health Sciences and Muhimbili National Hospital and the University moves from the Ministry of Health to the Ministry of Science Technology and Higher Education.
- 2003** Faculties upgraded into Schools to make them more autonomous.
- 2003** Programme Management Unit is upgraded into a Directorate of Planning and Development.
- 2004** University acquires 3800 acres of prime land on the outskirts of Dar es Salaam for future expansion.
- 2005** Establishment of Directorates of Planning and Development for Mloganzila and Muhimbili Campuses
- 2006** Department of Library services is upgraded to a Directorate.
- 2006** Establishment of the Unit of Continuing Education under the Directorate of Postgraduate Studies
- 2007** Established Directorate of Continuing Education and Professional Development
- 2007** The Muhimbili University College of Health Sciences upgraded to a full fledged University
- 2008** Inauguration of University's Workers Council
- 2009** Establishment of Directorate of Undergraduate Education
- 2010** The Government of the United Republic of Tanzania signed a loan agreement with the Government of South Korea for construction of the University Medical Centre at Mloganzila campus.
- 2011** The Government of the United Republic of Tanzania signed a loan agreement with the Government of South Korea for supply and Installation of the equipments for the University Medical Centre at Mloganzila

Institutional leadership 1963 – to date

Year	Name of the Head of institution	Position Held
1963-1968	Dr. A. M. Rankin	1st Dean, Faculty of Medicine
1968-1969	Prof. R. G. Manekosso	2nd Dean, Faculty of Medicine
1969-1973	Prof. A. M. Nhonoli	3rd Dean, Faculty of Medicine
1973-1977	Prof. W. J. Makene	4th Dean, Faculty of Medicine
1977-1981	Prof. A. M. Nhonoli	5th Dean, Faculty of Medicine
1981-1988	Prof. W. J. Makene	6th Dean, Faculty of Medicine
1988-1990	Prof. G. M. P. Mwaluko	7th Dean, Faculty of Medicine
1991-1994	Prof. S. Y. Maselle	1st Principal, MUCHS
1994-2003	Prof. J. P. Mtabaji	2nd Principal, MUCHS
2003-2007	Prof. K. J. Pallangyo	3rd Principal, MUCHS
2007-todate	Prof. K. J. Pallangyo	1st Vice chancellor MUHAS

Members of the Muhimbili University Council during 2010/2011

Name	Address	Position
1. Mr. D.A. Ntukamazina	MUHAS Council	Chairperson
2. Prof. K.J. Pallangyo	VC MUHAS	Secretary
3. Prof. W.S. Abel	Director of Higher Education MoE & VT	Member
4. Prof. R. Mukandala	Appointee of CVCPT	Member
5. Mrs. B.S.J. Nyoni	Permanent Secretary, MoHSW	Member
6. Dr. M.S. Jidawi	Appointee of RGZ	Member
7. Hon P.H. Chana (MP)	Appointee of National Assembly	Member
8. Hon Dr. L. Siyame (MP)	Appointee of National Assembly	Member
9. Ms. I. Kasambala	Appointee of MoF	Member
10. Ms. R. Masenga	Appointee of MoE&VT	Member
11. Mrs. Z. S. Madabida	Appointee of ALUMNI	Member
12. Dr. K. Malima	Appointee of Senate	Member
13. Prof. K. Manji	Appointee of Senate	Member
14. Dr. T.B. Nyambo	Appointee of MUHASA	Member
15. Dr. M.R. Kazaura	Appointee of Workers Union (THTU)	Member
16. Dr. F.K Kahabuka	Appointee of GDC	Member
17. Mr. G. Shayo	Appointee of MUHASO	Member
18. Ms. L. Albert	Appointee of MUHASO	Member

Muhimbili University of Health and Allied Sciences Top Management



Prof. K. Pallangyo
Vice Chancellor



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



Prof. B. S. Lembariti
**Deputy Vice Chancellor-Planning
Finance and Administration**

Vice Chancellor's Preface



The year 2010/2011 marked another step forward for Muhimbili University of Health and Allied Sciences (MUHAS) towards achieving its corporate plan 2004 – 2013. MUHAS would not have made the progress she has made in isolation. I would like to express my appreciation to partners and stakeholders who have supported us intellectually and financially and to thank my colleagues for the effective contribution made in the implementation of the corporate goals. May I also hasten to add that during the year 2010 graduation ceremony the University conferred a Doctor of Public Health (Honoris Causa) degree to His Excellency the President of the United Republic of Tanzania Dr. Jakaya Mrisho Kikwete for his outstanding contributions and commitment in the development of the University.

Our Vision to expand to a more spacious area with conducive learning and working environment is progressively being realized. During the reporting period the preliminary activities for the construction of the MUHAS Medical Centre at Mloganzila were initiated. The Consultant for designing and supervision of the construction of the University Medical Centre is on site and has already presented the concept design to the Management. The designing processes is expected to be completed in February 2012 and construction is planned to begin in May 2012. Furthermore the second loan agreement for the Medical Centre equipment has been signed between the Government of the United Republic of Tanzania and the Government of South Korea. There is also hope that the Ministry of Education and Vocational Training through the Higher Education Development Program will solicit resources for the construction of the basic infrastructure and the academic and administrative structures for phase I of the project.

The University academic programs are central to its core functions and reflect its professional and technical output. The MUHAS academic programs have been increasing over the last five years (2006/2007 – 2010/2011) and during this period a total of 30 new programs were developed; all of which were demand driven to meet the national requirements for specialized training. In general there was a 58.8% increase in the number of academic programs in the last five years from 51 in 2005/06 to the current 81 academic programs.

During the reporting Period the University through the MUHAS – UCSF Academic Learning project revised its training curriculum and has changed it from the Traditional Education system to Competence - Based Education system. The review process was finalized in June 2011 and the implementation of the new Competence Based Curriculum has been initiated in this academic year (2011/2012) beginning with 1st Year students.

Student output has been consistently increasing for most of the programs. During the reporting period 573 students were awarded degrees in Medicine, Pharmacy, Dentistry, Nursing, Public Health and Social Sciences, Diploma in Allied Health Sciences, Masters in Clinical and Public Health disciplines. Of significance is the increase in the postgraduate programs output, while 74 students graduated in 2009/2010 in the year 2010/2011 a total of 111 students graduated; this is a 50 % increase, which is attributable to the enrolment expansion program, establishment of new academic programs and retention. Overall the attrition rate was less than one percent.

MUHAS has continued to fulfill its function of creation, advancement and sharing of Knowledge through research and publications. The University has consistently expanded in terms of establishment of research links and projects. During the reporting period MUHAS research links had increased from 25 in the year 2007/08 to 51 research links (104% increase) and 79 research projects established through existing and new collaborations. Dissemination of research results has been enhanced through publications in peer reviewed journals and presentation in both international and local conferences. During the reporting period there was an increase of 35.8% in the number of publications compared to 2009/2010. Of the total of 174 publications, 155 are published in peer reviewed journals.

Internationalization of MUHAS programs has been strengthened through the establishment of the International Exchange Unit. During the reporting period MUHAS registered 195 elective and 24 exchange study students. The unit also registered 107 occasional students who carried out elective studies at 20 different hospitals in the United Republic of Tanzania. There has been a 19.7% increase in the elective and exchange students compared to 2009/2010. This increase is partly attributable to the growing MUHAS's excellent international reputation and academic environment.

MUHAS has consistently strived to improve its learning and working environment through new infrastructure development and rehabilitation of existing infrastructure using resources from internal revenues and research projects/programs. During the reporting period the student undergraduate cafeteria at Muhimbili was rehabilitated through improvement of the cooking area (externally and internally) and the serving bay, renovation of the estates office, construction of incinerator and rehabilitation of the staff housing roofing. The University through the MUHAS – UCSF academic learning project is renovating the operating theatre for the Bagamoyo District Hospital and it is envisaged that this will facilitate both undergraduate and postgraduate students' clinical training and practice. New infrastructure development is the construction of the Centre for Health Education which is still ongoing and at an advanced stage supported by the MUHAS – UCSF academic learning project and the completion of phase I extension of laboratories, offices and classrooms in the School of Public Health and Social Sciences through funding from CDC.

Once again I wish to acknowledge the support of dedicated staff, the Government and development partners and look forward to continued support in the development and expansion of MUHAS to the new campus at Mloganzila.



Professor Kisali Pallangyo

Vice Chancellor

1.0 Introduction

This is the fourth 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 in various students 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 2010/2011 the University made significant progress towards achievement of its vision of expanding to a more spacious facility with conducive learning and working environment. The MUHAS expansion to the new campus at Mloganzila is now becoming a reality, the initial preparations for initiating the constructions are underway, the consultant for designing and supervision of the construction of the MUHAS Medical Centre is on site; the designing process is ongoing and construction is set to begin in May 2012.

MUHAS is also expanding in developing close collaboration with other district health facilities in the training of its students. To this end MUHAS is rehabilitating and expanding the Bagamoyo district hospital operating theatre to facilitate clinical training and practice to undergraduate and postgraduate students. This arrangement will also bring specialised care and treatment to the communities in the district.

During the reporting period in May 2011, Prof. Bakari S. Lembariti former Deputy Vice Chancellor - Planning, Finance and Administration retired and Prof. Muhammad Bakari was appointed as the new Deputy Vice Chancellor – Planning, Finance and Administration. In the same year the former Dean of Students Dr. Ambrose Haule also retired and Dr. D. V. C. Kakoko was appointed as the new Dean of Students. We congratulate and welcome them to the current MUHAS Management team.

2.0 Vision and Mission of the University

2.1 Vision

To become a centre of excellence for training of health professionals, quality research and public service, located in a spacious area with a state of the art University hospital, conducive learning and working environment and sustainable resource generation.

2.2 Mission

To seek for quality health through education, training, research and health services for attainment of equitable socio-economic development.

2.3 The Values

- In order to realize the vision and fulfill its mission, MUHAS shall be guided by the following values:
- Social responsibility, accountability and leadership in responding to issues and expectations of the society.

- Public accountability through transparent decision-making, open review, responsible and efficient use of resources.
- Institutional autonomy through self-governing structures and greater independence in action while being responsive to societal needs.
- Professional and ethical standards of the highest order, practiced through openness, honesty, tolerance and respect for the individual.
- Equity and social justice with regard to gender, religion, ethnicity and other social characteristics.
- Academic freedom in critical thought and enquiry as well as the open exchange of ideas and knowledge.
- Academic integrity and professional excellence in teaching, research and service provision.
- Nationalism and internationalism in scholarly activities of national and global concerns,
- Productivity, innovation and entrepreneurship in all activities of the University underpinned by a dedication to quality, efficiency and effectiveness.
- Human Resource of the highest quality capable of enhancing the realization of the vision and mission of the University.
- The right to enjoy intellectual, social, cultural and recreational opportunities, for students and staff.

3.0 Teaching and Human Resources Affairs

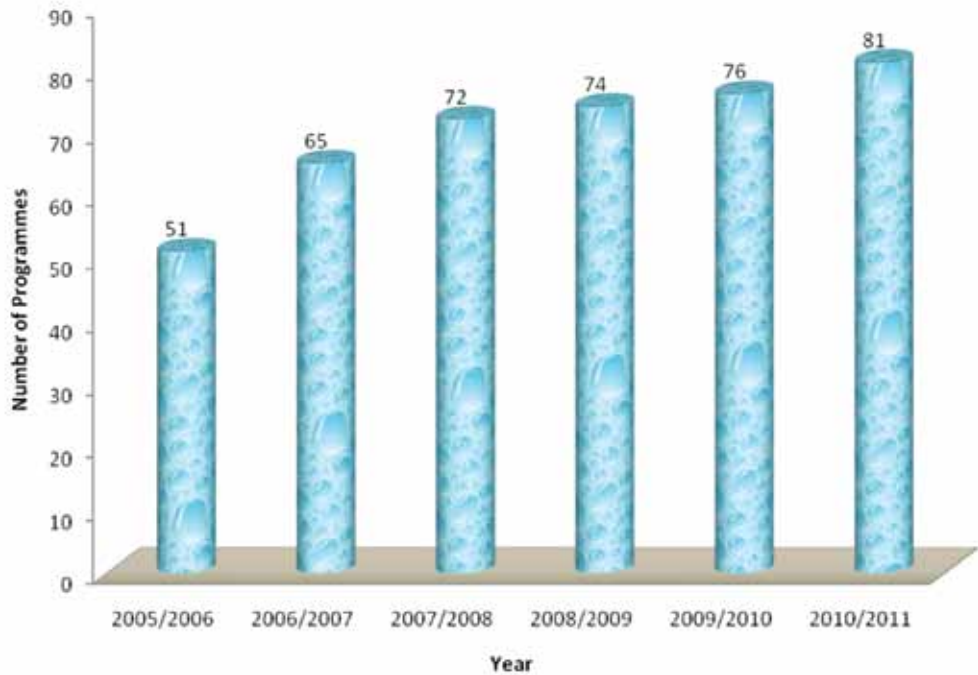
3.1 Teaching and Learning

Teaching is one of the core functions of the University. The academic staff continues to engage the students in the learning process through transmission of knowledge theoretically and practically. The creation of competent professionals is achieved not only through knowledge transmission but also quality of established academic programs and well trained academic staff plays a central role. The following sections highlight the teaching and learning activities during the reporting period.

3.1.1 Programmes offered by MUHAS

MUHAS academic programmes have continued to grow reflecting the advancement of the institutional professional and technical output. The developed programs are demand driven in response to the regional and national needs for specialized professionals. Currently the University has 81 academic programmes.

The number of academic programmes has been consistently increasing over the past five years from 51 in the year 2005/06 to the current 81 programmes, with 30 programmes being established in the last five years (2006/07 – 2010/2011). This is a 58.8% increase giving an average of about 6 programmes per year. Figure 1 and table 1 below shows the general trend of the number of academic programmes established since 2006/07 to 2010/11.



*Figure 1: Trend of Development of academic Programmes: Reflecting
Number of Diploma and Degree Programs at MUHAS*

Table 1 Academic programs established from 2006/2007 to 2010/2011

School	Programs Established				
	2006/2007	2007/2008	2008/2009	2009/2010	2010/2011
Medicine	BMLS Parasitology BMLS Microbiology & Immunology BMLS Haematology & Blood Transfusion BMLS Clinical Chemistry BML Histotechnology MSc. Radiology Therapy Technology MSc. Anatomy MSc. Haematology & Blood Transfusion MSc. Cardiology MSc. Nephrology M.Med Radiology MSc. Neurology	MSc. Pulmonary Medicine MSc. Clinical Pharmacology MMed. Urology	MSc. Biochemistry	MSc. Respiratory Medicine	MSc. Physiology MMed. Emergency Medicine MSc. Clinical Psychology MMed. Clinical Oncology
Pharmacy	Nil	Nil	MSc. Pharmaceutical Management	Nil	Nil
Dentistry	Nil	Nil	Nil		M.Dent. Paediatrics Dentistry
Nursing	MSc. Critical Care Trauma MSc. Mental Health	Nil	Nil	Nil	Nil
Public Health and Social Sciences	MA Health Policy and Management	MSc. Applied Epidemiology MSc. Parasitology MSc. Epidemiology and Laboratory Management	Nil	Nil	Nil
Traditional Medicine	Nil	Nil	Nil	MSc Trad Med Development	Nil
Allied Health Sciences	Nil	Nil	Nil	Nil	Nil

3.1.2 Student Admissions

3.1.2.1 Diploma Programs

During the reporting period 320 diploma students were admitted in various MUHAS diploma programs. The current enrolment is 835 diploma students of which 467 are males and 368 are females. This means that female students represent 44.1% of the total. At MUHAS the diploma program admission seem to be in line with the national agenda of gender balance and MUHAS objective of enhancing gender balance among students. However Compared to 2009/2010 there was a slight decrease of 6.2% in the number of admissions.

3.1.2.2 Undergraduate degree programs

Figure 2 reflect admission of undergraduate students during 2010/11, a total of 342 students were admitted into all undergraduate programmes. For past ten years there has been a notable increase in undergraduate admission however, the growth pattern has been fractuating. For instance during the reporting period there was a decrease of 95 (21.7%) compared to previous year where 437 students were admitted. During the reporting period MUHAS enrolled 1437 undergraduate students in various programmes, of this 368 (25.6%) were female students. The female students enrolment in undergraduate programs is still short of the target of 40% aimed at in the MUHAS Five Year Rolloling Strategic Plan.

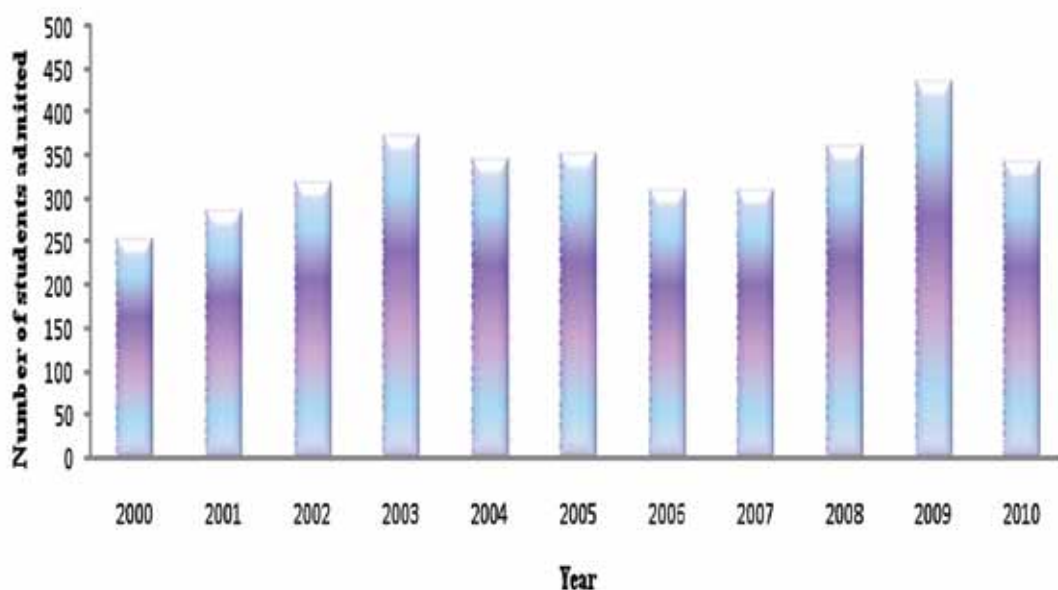


Figure 2: Students Registered for Undergraduate Degree Programs

3.1.2.3 Postgraduate Programs

In the last five five years postgraduate students admitted at MUHAS has been progressively increasing as shown in figure 3. During the reporting period 201 postgraduate students were admitted in various postgraduate programs of which 131 are males and 70 are females. An increase of 21.8% was registered compared to the previous year (2010/2011) during which 165 students were admitted. Unlike undergraduate students the admissions of postgraduates has been consistently low. However, for the past five years there has been a remarkable increase in

number of postgraduate students admitted into various postgraduate programmes, for example in 2005/2006 only 50 postgraduate students were admitted compared to 201 students who were admitted in 2010/2011. The current postgraduate enrollment is 404 students. There is a 36.9% increase compared to the previous year where 295 postgraduate students enrolled. This increasing trend is due to establishment of new postgraduate programmes, increased awareness of the new established programmes and the implementation of the student Expansion program as per Higher Education Development Policy

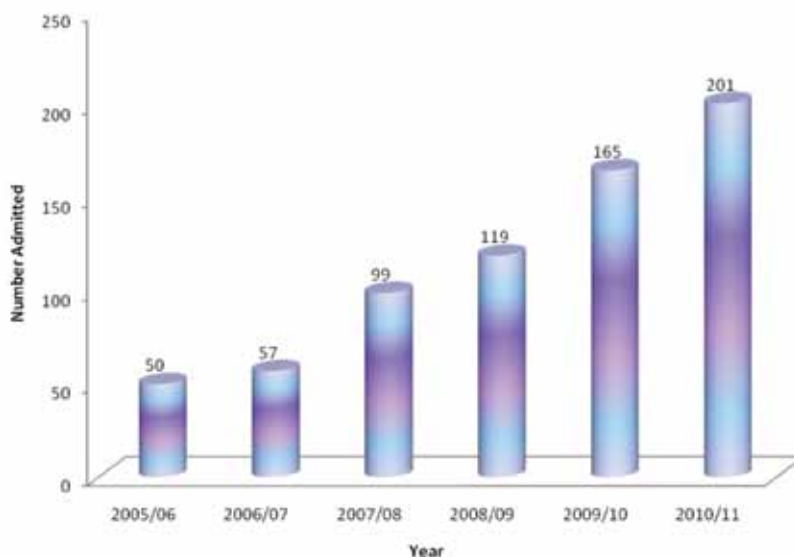


Figure 3: Number of Postgraduate Students Registered for Degree Programmes 2005/06 – 2010/2011

3.1.3 Examination Performances 2010/2011

3.1.3.1 Diploma Programs

Figure 4 gives levels of performance of diploma students who sat for examination during the reporting period. The results indicate that out of 833 students who sat for examination, 725(87%) passed at first sitting. For those who did not pass at first sitting, 104 (12.5%) students failed and were referred to supplementary, 3(0.4 %) students were discontinued and the remaining 5 (0.6%) students either postponed or the results were incomplete. Compared to the previous year 2009/2010 the students pass rate improved by 6.4% during the reporting period.

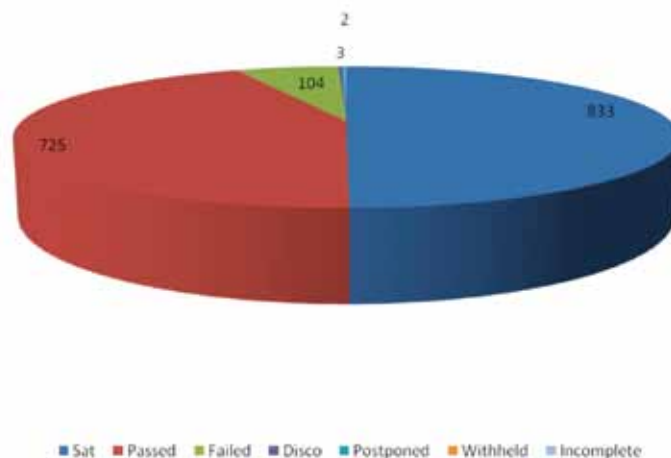


Figure 4: Diploma Programmes Examination Performance 2010/2011

3.1.3.2 Undergraduate Degree Programs

During the reporting period 1378 undergraduate degree programs students sat for examination. The results indicate that, 934 (67.8%) passed at first sitting. Of those who did not pass during the first sitting 436 (31.6%) students failed and were referred to supplementary , the results for 14 (1%) students were withheld due to a number of reasons and the remaining had either incomplete results or had postponed examinations. Compared to the previous year (2009/2010) during which 10(0.6%) students were discontinued, compared to 2010/2011 where only 4 (0.3%) studen

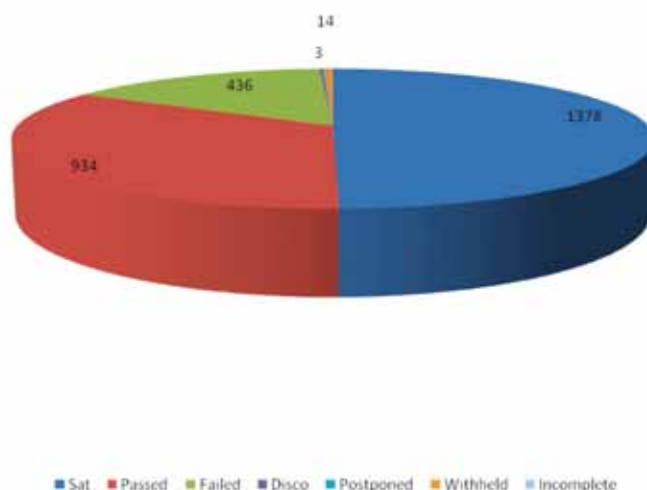


Figure 5: Undergraduate Degree Programmes Examination Results - 2010/2011

3.1.3.3 Postgraduate Programs

Three hundred and eighteen (318) postgraduate students sat for examination during the reporting period. The results indicate that 220 (69.7%) passed while 89(28%) students were referred to supplementary. Compared to the previous year during which 89.4% of the students passed the examination, during the reporting period there was a slight decrease in performance by 19.7% and 2 (1%) students were discontinued (Figure 6)

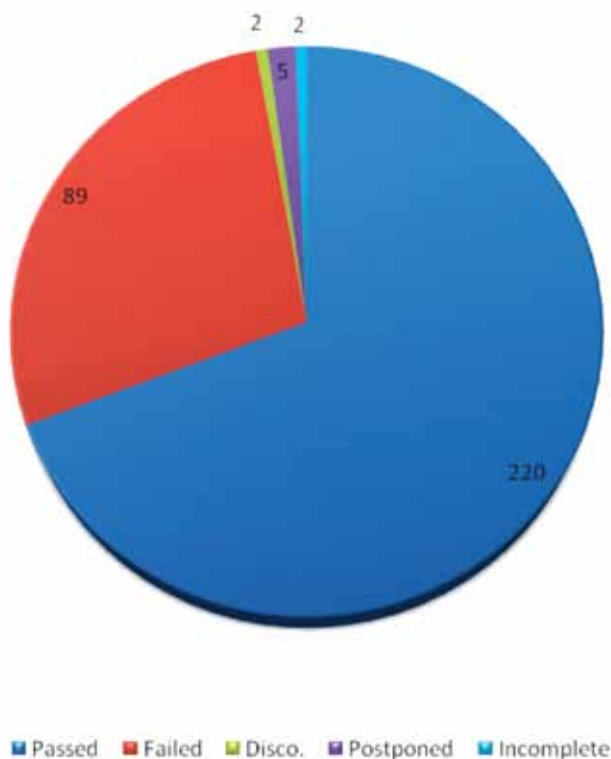


Figure 6: Postgraduate Degree Programmes Examination Results - 2010/2011

3.1.4 Student Outputs

3.1.4.1 Diploma Programs

During the reporting period 202 diploma students completed their studies and there was a 0.5% decrease in the number of qualifying candidates compared to the year 2009/2010. Figure 7 below shows the trend of diploma students awarded diploma certificates for the past ten years (2001/02- 2010/11). There has been no consistent pattern in the number of qualifying candidates, for instance in the year 2007/2008, 160 students graduated. While in the year 2008/2009 students output increased to 206, this growth pattern was not maintained in the year 2009/2010 and 2010/2011 where MUHAS was able to generated 203 and 202 health professional at diploma and advanced diploma levels respectively.

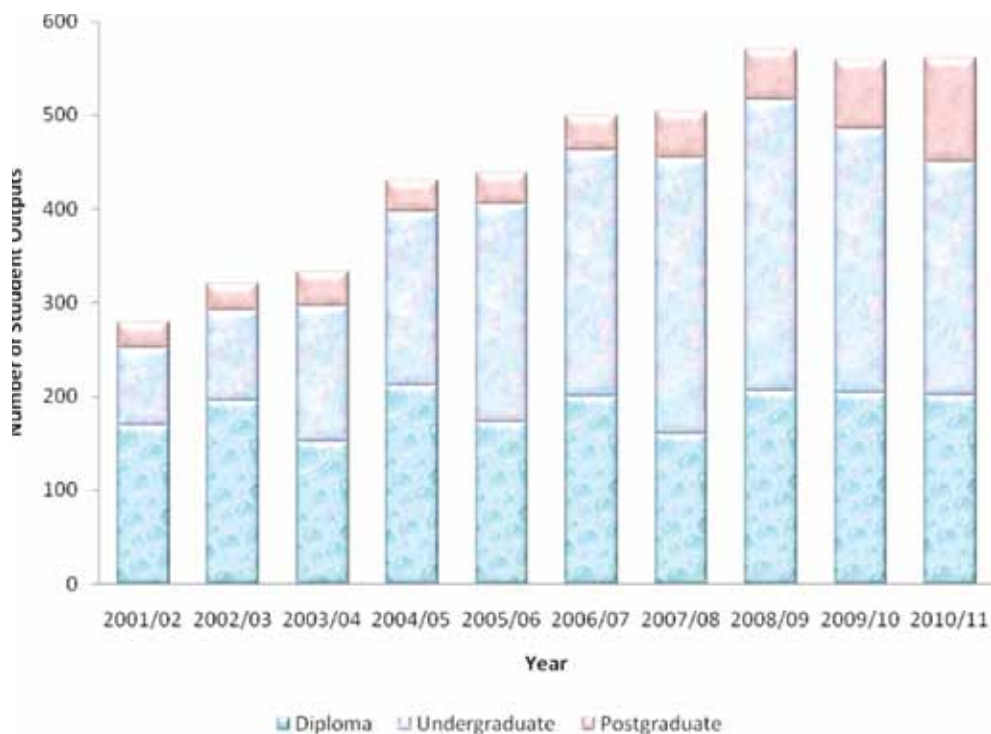


Figure 7: Diploma, Undergraduate and Postgraduate Students Outputs

3.1.4.2 Undergraduate Degree Programs

From the year 2001/02 to 2008/09 there has been consistent increase in the number of graduating undergraduate students from 83 in 2001/02 to 310 in 2008/09. This is a 273.5% increase in graduates. However during the reporting period 2010/11 a drop of 11.7% in the number of graduating undergraduate students was registered. (Figure 7)

3.1.4.3 Postgraduate Programs

Consistent with the low level of admission of postgraduates, the number of postgraduate students completing studies is low (Figure 7 above). However, during the reporting period 111 students graduated compared to 74 students in 2009/2010. A remarkable 50% increase in the postgraduate output was registered which may be attributable to the increased number of new academic programmes, student admission and and retention.

3.1.5 Graduation Ceremony 2010

During the reporting period MUHAS marked its 4th graduation ceremony on 11th December 2010 at MUHAS grounds. At this graduation ceremony a total of 573 graduates were awarded degrees and diplomas including; 202 students awarded diplomas, 260 students awarded first degrees in MD, DDS, B.Pharm, BSc. Nursing, BScN Midwifery, BScN Management and BSc. Environmental Health Sciences. In addition to that 111 graduates were awarded postgraduate degree in Master of Medicine, Master of Dentistry and Master of Public Health. During the reporting period the number of female graduates was 215 (37.5%) compared to the previous year where 185(33.1%) female students graduated; there was an increase of 16.2%

in the number of female graduates. During this graduation ceremony, the University conferred a Doctor of Public Health degree (Honoris Causa) to His Excellence the President of United Republic of Tanzania.

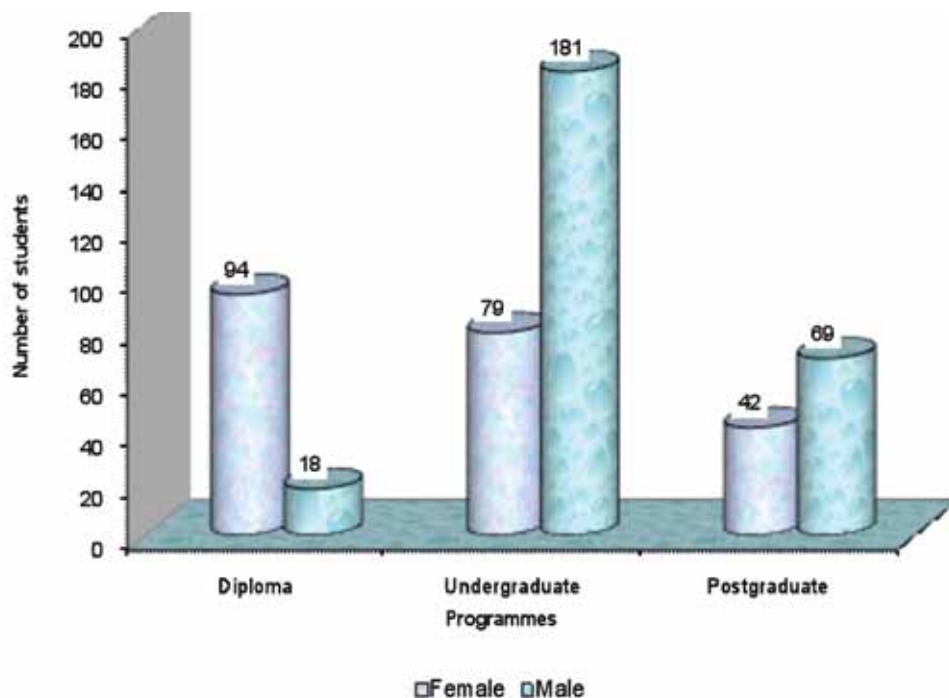


Figure 8: *Diploma, undergraduate and postgraduate student's graduants by sex*

3.1.6 Student Academic Staff Ratio

The Student staff ratio is an indicator of the load of the staff which may impact on quality of teaching and learning. The ratio is also used to measure the level of utilization of the academic human resource at the institution. During the reporting period the student academic staff ratio was 1:9, which is slightly higher than the previous year (Table 2).

Table 2: *Student academic staff ratios*

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	2010/11
Students	1564	1816	2004	1842	2050	2153	2441	2695
Staff	205	211	217	222	235	243	310	314
Student - Staff Ratio	1:8	1:9	1:9	1:8	1:9	1:9	1:8	1:8.5

3.2 Human Resources

3.2.1 Academic Staff by Qualification

During the reporting period the number of academic staff with PhD and Masters were 111 and 118 respectively and 12 are degree holders. Of the female academic staff at MUHAS 33 have PhDs and 31 Masters Degrees only 3 have 1st degree.

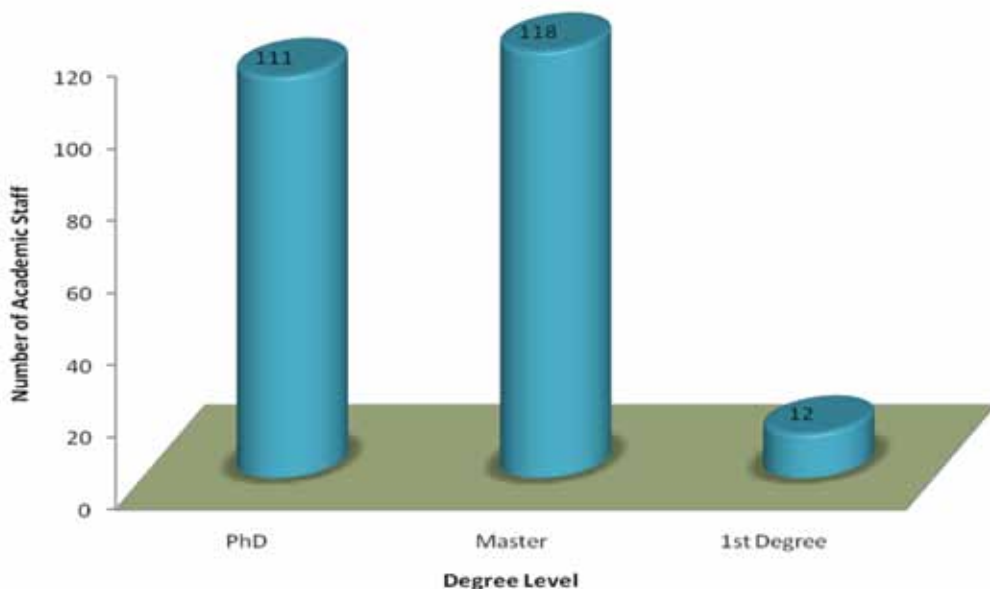


Figure 9: Academic Staff by Qualification

3.2.2 Academic Staff Development

During the reporting period a total of 6 academic staff completed their studies at different levels including 4 at PhD level and 2 at masters level. The University continued to develop and train academic staff as a prerequisite for higher learning Institutions. During the reporting period a total of 46 academic staff were progressing well with their studies. 40 were registered for PhD programmes which included 18 females and 22 males and 6 other staff were registered for Masters Programmes of which 4 are males and only 2 are females.

3.2.3 Academic Staff Recruitment

During the reporting period 14 academic staff were employed, of these 4 were females and 10 were males. However, 3 academic staff resigned. The recruitment level during the reporting period was 50% higher than the previous year. And the retention rate has improved compared to 2009/2010

3.2.4 Academic Staff by Age and Sex

The age distribution for academic staff ranges from 20 to 70 years, as depicted in Figure 10. The majority (43.2%) of the academic staff is aged between 51 and 60 years, implying that they have less than ten years to reach the retirement age of 60 years. The proportion of the younger age group 40 years and below stands at 30.3% compared to 53.1% of the 51-70 age bracket. Also it should be noted that, the age group above the retirement age of 60 years make up 15.8% of the total academic staff. The proportion of females has been improved from 27.2 in 2009/2010 to 27.8% in 2010/2011 of the total academic staff at MUHAS and the majority of these (61.2%) are aged 50 years and below as opposed to males where 41.4% are aged 50 years and below, implying that the majorities of the males (58.6%) are above 50 years of age and have less than 10 years to retirement.

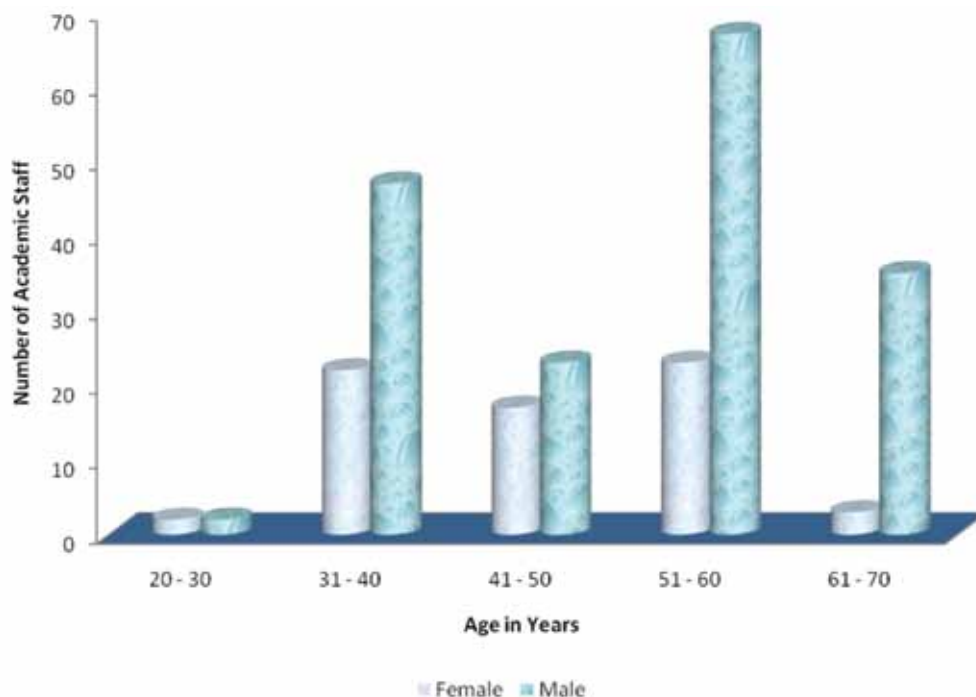


Figure10: Age distribution for academic staff by sex (2010/11)

3.2.5 Administrative Staff Development

During the reporting period a total of 5 administrative staff completed their studies at different levels including 3 at masters level, 1 bachelor level and 1 diploma. The University continued to develop and train administrative staff. During the reporting period a total of 15 administrative staff were progressing well with their studies. One (1) was registered for PhD programme 5 masters programmes, 3 1st degree, one (1) advanced diploma, 2 CPA and 3 diploma. Of the total 10 were female administrative staff

3.2.6 Administrative Staff Recruitment

During the reporting period MUHAS recruited 26 administrative staff, of these 10 were females and 16 were males. The level of recruitment for administrative staff is much higher than that for academic staff. However administrative staff turn overs were higher than academic staff. During the reporting period twelve (12) administrative staff resigned.

3.2.7 Administrative staff by Age and Sex

During the reporting period the total number of administrative staff at MUHAS was 257. Figure 11 shows that, majority 69.3% of the administrative staff are aged 50 years and below, in contrast to the age distribution pattern for academic staff. The proportion of staff (31.5%) in the age group of 40 years and below is slightly greater than the age group of 51-60 years (30.7%) and these will retire within the next 10 years. Overall 52.5% of the administrative staff at the University are females.

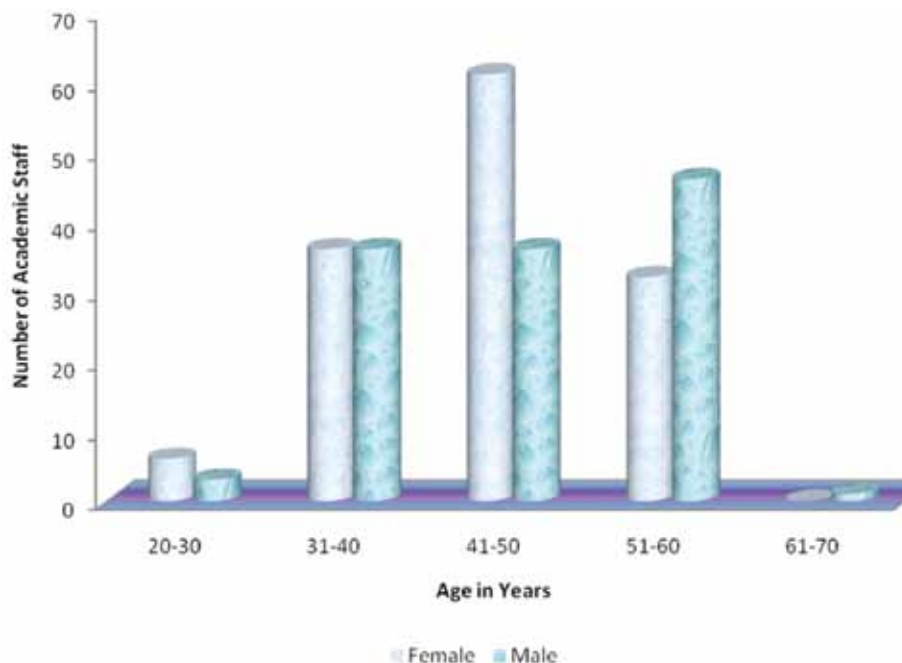


Figure 11: Age distribution for Administrative staff by sex

3.2.8 Technical staff by Age and Sex

Figure 12 shows the age distribution of the 106 technical staff at MUHAS. The age distribution pattern approaches a normal distribution and about 65.1% of the technical staff are 50 years and below. However 33.9% of the technical staff will be retiring within the next ten years.

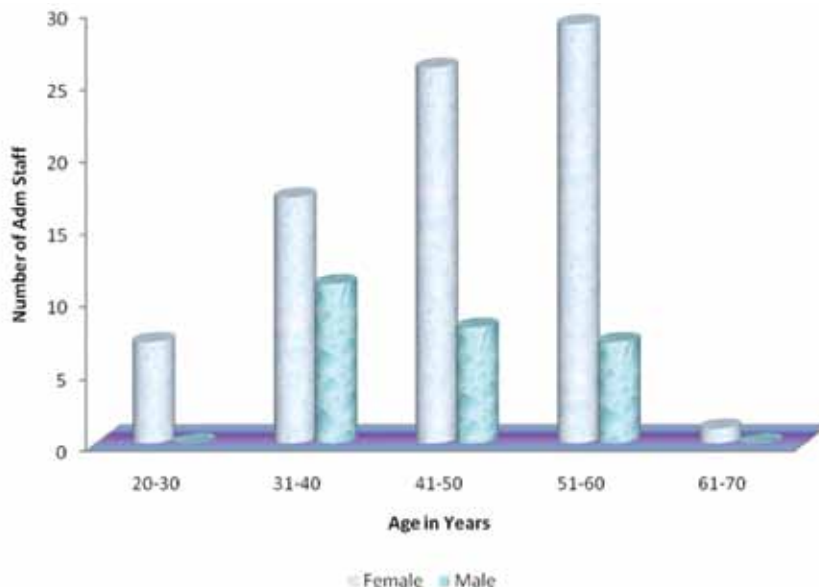


Figure 12: Technical staff by Age and Sex

3.2.9 Administrative and Technical Staff by Qualification and Sex

Figure 13 show the academic qualification of Administrative and Technical staff at MUHAS, it is obvious that, the performance of any institutional is directly related to staff competence which may be acquired through relevant training and experience in addition to other contributing factors. During the reporting period MUHAS made improvement by employing more Administrative and Technical staff whose academic qualifications are at degree level. Currently of all the 363 administrative and technical staff at the University 23.7% are are trained to degree level including; 1 PhD, 20 Masters, 4 Postgraduate and 61 first Degree holders. The majority (39.4%) are diploma and certificate holders, of these 11% have diploma and 28.4% have certificate level of training. However 24.5% have other qualifications which are basically below secondary school education. It is notable that, over the years the majority of these have been males and during the reporting period the proportion increased to 62.9% where it was 57.6% in the previous year 2009/2010.

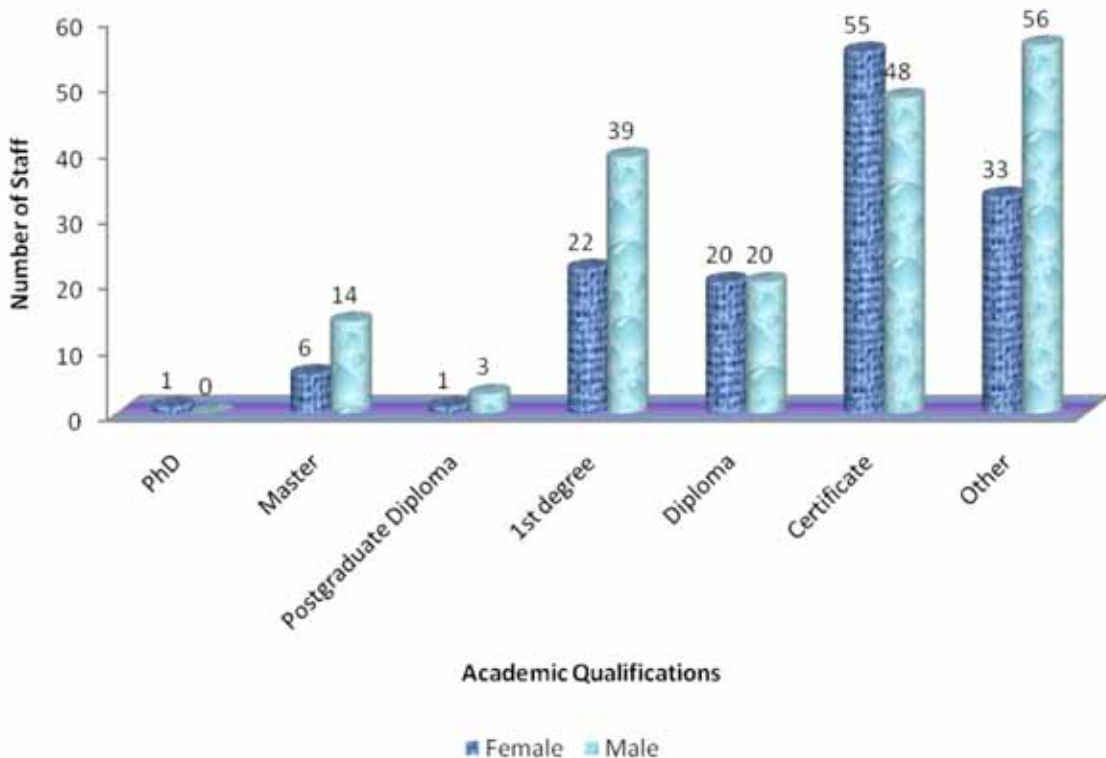


Figure 13: Administrative and Technical staff by qualification and sex

3.2.10 Promotions

During the reporting period the Muhimbili University of Health and Allied Sciences Council approved the promotion of 16 academic staff to various ranks. It is notable that there is an increase of in the number of staff promoted during 2009/2010 compared to 7 academic staff promoted during 2008/2009.

Table 3: Academic Staff Promotion during 2010/2011

S/N	Name	Directorate/School/Department	Previous Position	New Position
1	Prof. E. F. Lyamuya	Microbiology and Immunology	Associate Proffessor	Professor
2	Prof. W.B. Matuja	Internal Medicine	Associate Proffessor	Professor
3	Prof. Mary Justin Temu	Pharmaceutics	Associate Proffessor	Professor
4	Prof. Z. Premji	Parasitology and Medical Entomology	Associate Proffessor	Professor
5	Dr. S. Aboud	Microbilogy & Immunology	Senior Lecturer	Associate Proffessor
6	Dr. T. Ngoma	Radiology and Radiotherapy	Senior Lecturer	Associate Proffessor
7	Dr. K. D. Mwambete	Pharmaceutical Microbiology	Senior Lecturer	Associate Proffessor
8	Dr. F.K. Kahabuka	Preventive Community	Senior Lecturer	Associate Proffessor
9	Mr. Joel Ambakile	Clinical Nursing	Tutorial Assistant	Assistsnt Lecturer
10	Mr. Aman Thomas	Phamaceutical Microbiology	Tutorial Assistant	Assistsnt Lecturer
11	Dr. Boniface M. Kalyanyama	Oral Surgery and Oral Pathology	Lecturer	Senior Lecturer
12	Dr. Elison N. Simon	Oral Surgery and Oral Pathology	Lecturer	Senior Lecturer
13	Dr. Fidelis M. Shubi	Oral Surgery and Oral Pathology	Lecturer	Senior Lecturer
14	Dr. M. Njelekela	Physiology	Lecturer	Senior Lecturer
15	Dr. Muganyizi	Obs and Gyne	Lecturer	Senior Lecturer
16	Dr. Pembe	Obs and Gyne	Lecturer	Senior Lecturer

4.0 Activities Implemented in Schools, Directorates, Academic and Research Institutes

4.1 School of Medicine

Dean's Statement



Prof. K. Manji

4.1.1 Introduction

This School continues to lead in the number of students and postgraduate programmes. The School currently has 192, 223, 165, 171, 201, students in the first to fifth years of the MD programme, respectively, totaling 957. There are 35, 39, and 18 students respectively in the first, second and third years of the BMLS program and 16, 15, and 9 for the first, second and third year of the BSc RTT program, totaling 132. The total number of UG students is therefore 1090. The School has a total of 200 Postgraduate students, with 102 in Semester 1-2, 37 in Semester 3-4, and 37 in semester 5-6.

The School is currently reviewing the medical training curriculum. The review process has reached an appreciable stage, with all the undergraduate programs, MD, BMLS and BScRTT ready to start the rolling-out of Semester 1 and 2 of the new revised, competency based curricula. Further refining of the curricula for semester 3 onwards is ongoing.

The School conducted its First White Coat Ceremony, which was graced by Prof. Roger Mbise. This was a very much appreciated ceremony by both academic staff and students alike and helped bridge gaps as well as impress upon the value of professionalism and ethics.

An income generation unit has become operational, under the Chairperson Dr. Julie Makani and Secretary Dr. M Mchembe. We have an operational vote code number 500.6420 and have now some funds deposited into it. There are 2 consultancies registered in the School, one by Prof. K Manji and Dr. C Killewo on the assessment of new WHO Guidelines on PMTCT and the other by Dr. P Muganyizi on assessment of Needs in Emergency Obstetric care.

Dr. Francis Didas of Department of Biochemistry completed his PhD and joined back in his department thus boosting the academic staff numbers in this department. While a Post-Doc program supported by SACIDS was able to support Dr. Erasto Mbugi, who is looking into the issue of MDR-TB. A total of 4 Academic staff members completed their PhDs last year, and we have a total of 17 members continuing their masters and PhD programs. Two of these are masters of Science students in Anatomy, and have been sponsored by MUHAS, thus potential lecturers in the Department of Anatomy.

Last graduation ceremony, we had 155 MD graduates, 9 BMLS and 2 BScRTT, the BMLS and BScRTT were the first batch of graduates in those programs.

During the Academic year 2010/11 there were 8 promotions in the school reflected in section 3.2.10 above. We are very proud of this achievement.

In the links and research arena, the various links within the School are going on well. An important public health finding on the use of Extended Nevirapine for Breast fed offspring's of HIV positive mothers was reported. The School has the

highest number of researchers involved in the HIV vaccine trials as well as other research.

The School continues to provide consultancies and academic assistance to various Universities in the country. Several academic staff undertake teaching in St. Johns University, Weills Bugando University and University of Dodoma. The student counseling services are ongoing, and the new School of Medicine newsletter has been uploaded in the website. This newsletter will includes messages to prevent HIV/AIDS among staff and students alike.

4.2 School of Dentistry

Dean's Statement



Dr. E. Mughamba

4.2.1 Introduction

During the Academic year 2010/2011, twenty (20) undergraduate and eight (8) postgraduate students (one is a private candidate from Zambia) were enrolled in the School of Dentistry (SOD). Teaching and examinations in both undergraduate as well as postgraduates were conducted smoothly as planned. A total of twenty three (23) undergraduate students graduated in December 2010 whereby there were only four (4) females. During the year, a new postgraduate programme in Paediatric dentistry was introduced for the first time and two students

were registered. There were seven postgraduate students who graduated, two in Oral and maxillofacial surgery, and five in restorative dentistry, whereby one was a female. From semester one to six we have sixteen postgraduate students, Oral and maxillofacial surgery (6), restorative dentistry (5), Preventive and community dentistry (3), and paediatric dentistry (2).

From the newly graduated postgraduate, one was recruited as an academic member of staff in the department of restorative dentistry.

On research and publications during the reporting period 2010/2011 there were only seven publications, six from the department of Preventive and Community Dentistry, and one from Restorative Dentistry. This time there was no publication from Oral surgery and oral pathology.

Two technical staff (dental laboratory technologists) had the opportunity of attending a short course in USA and was sponsored by the Miracle Corners of the World (MCW). Once again, in early 2011 the Miracle Corners of the World (MCW), USA donated dental laboratory equipment and materials worth 356,960 USD. The installation of the equipment is yet to be done after having completed the necessary in-house rehabilitation of the infrastructure in the dental laboratory rooms.

4.3 School of Pharmacy



Dr. M. Chamuso

Dean's Statement

4.3.1 Highlights of Major Achievements and Challenges

During 2010/2011 the School recorded various achievements as detailed below.

4.3.1.1 Teaching and Learning Academic programmes

- Teaching programmes remained the same, the B.Pharm programme as the only undergraduate academic programme and six M.Pharm programmes namely; M.Pharm in Hospital and Clinical Pharmacy, Industrial Pharmacy, Quality Control and Quality Assurance, Pharmacognosy, Medicinal Chemistry and Pharmaceutical Microbiology.
- The MSc in Pharmaceutical Management introduced during 2009/2010 was able to admit 8 students (1 female, 7 male). This year the programme attracted one foreign student from Liberia. The other MPharm programmes admitted 2 students, one in Hospital & Clinical Pharmacy and one in Quality Assurance & Control.

Curriculum Review

- The curriculum review process was concluded for 5 of the programmes in the school including, the Bachelor of Pharmacy, the MPharm Clinical Pharmacology & Therapeutics, the MPharm Quality Assurance & Quality Control, MPharm Pharmaceutical Microbiology, MPharm Pharmacognosy, transforming them into modularized, competence based programmes. For three other programmes, namely, MPharm Medicinal Chemistry, MPharm Industrial Pharmacy and MSc Pharmaceutical Management, the exercise is still ongoing.

Student enrolment

Student enrolment during the triennium is summarized in Table 3 and 4 below:

Table 4: BPharm Student Enrolment in 2010/2011

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	
2010/11	8	31	39	9	35	44	5	25	30	10	22	35	33	112	148	
%F	23.1%			20.5%			16.7%			31.3%			22.3%			

Forty-six students were admitted in the first year but only 39 reported for studies.

Table 5: Postgraduate Students Enrolment School of Pharmacy

Academic Year	MSc Pharm Management	Mpharm Clin Pharm	Mpharm QA
2010/2011	8 (12.5%F)	1 (0%F)	1 (0%F)

The enrolment of postgraduate students decreased to 10 students in the year under review from 12 in the previous year.

Students' performance in exams

In the undergraduate examinations the physiology and microbiology examinations were badly performed. This was attributed to change in the examination format for physiology throwing students into unfamiliar grounds as they were used to reviewing past examinations. The students were therefore urged to change their preparation habits and concentrate on mastering the subject matter rather than studying past examination papers. For Microbiology the reason advanced was that too much material was covered in a single semester. The course was therefore spread over two semesters in the just completed curriculum review.

For post graduate students the results were generally satisfactory. Students had problems mostly in ER600 (Epidemiology & Research Methodology). This was a university-wide problem for postgraduate students and the particular component bringing this challenge was biostatistics. The Department was requested by Senate to find ways of improving performance.

4.3.1.2 Human Resource Development in the School of Pharmacy

Staff Recruitment

During the 2010/11 one member of staff reached retirement age. This was Mr Absalom Mgeni who was a Senior Scientific Officer in the Department of Medicinal Chemistry. His place was taken by a new employee Mr. Edson Lutta.

Staff Development

In the year under review nine faculty members were recorded as being on study leave. One faculty completed his masters degree programme and registered for PhD studies. Details are shown in the table below:

Table 6: *Academic staff members in the School of Pharmacy on Training In 2010/2011*

S/N	Name	Department	Degree Sought (Institution)	Status
1	Mr. R. Sangeda	Pharmaceutical Microbiology	PhD (KU Leuven)	Ongoing
2	Mr. E. Ngaimisi	Unit of P'cology & Therapeutics/ P'cognosy	PhD (Karolinska Institute)	Ongoing
3	Mr. C.I.A. Kabati	Pharmaceutics	PhD (MUHAS)	Provisionally registered
4	Mr. W.M. Kalala	Pharmaceutics	PhD (MUHAS)	Ongoing
5	Ms. B. Maganda	Pharmaceutics	PhD (MUHAS)	Ongoing
6	Mr. A. Thomas	Pharmaceutics	MSc (Karoliska)	Ongoing
7	Mr. D. Pius	Pharmaceutics	MSc (Dublin)	Completed
8	Ms. V. Manyanga	Medicinal Chemistry	PhD (KU Leuven)	Ongoing
9	Ignace Alphonse	Pharmacognosy	MSc Pharmacology (MUHAS)	On going

Promotions

During the reporting time two members of staff were promoted to senior positions as reflected under section 3.10

4.3.1.3 Research and Publications

Staff members in the School carried out research in various areas relevant to pharmacy and pharmaceutical sciences. Thus research ranged from basic pharmaceutical sciences as to pharmacy practice. These included evaluation of plants for biological activity, quality assessment of medicines and other pharmaceutical products, pharmacokinetic studies, study of practices of prescribing and dispensing of medicines and microbial drug resistance studies. During the reporting period 7 publications were produced in the school and appear under publications section 7.2

4.4 School of Nursing

Dean's statement



Dr. K. I. Y Malima

In the academic year 2010/2011 the School of Nursing (SON) continued to perform its core functions of teaching, research and service to the public. The process of revising the curricula for all MUHAS academic programs has been one of the important highlights of this year. This process of re-writing the curricula has been a challenge but a Welcome and inspiring experience that SON successfully participated in and completed the revision process of its five undergraduate programs and two postgraduate programs. These are; BScN and BScN (Midwifery) for both direct high school leavers and registered nurses, and the BScN Management that is for registered nurses, and the clinical Masters programs Mental

Health Nursing and Critical Care and Trauma.

The new competence based curricula will ensure our aspirants receive an excellent academic opportunity and supportive learning experience as upcoming professionals ready with skills, knowledge and attitude to meet the dynamic health needs of our society. In ensuring competency in clinical skills, the clinical department has trained selected graduate nurses at MNH to be our appointed clinical instructors and we will together ensure that students get the best clinical learning experiences in the hope that this will expand throughout MNH and other clinical settings.

Another highlight event for the School of Nursing for 2010/2011 was the opening of the skills lab that was made possible by the UK branch of Britain-Tanzania Society (BTS) through SONs link with Ms Petronella Mwasandube and Mr Danny Mwasandube (BTS members) and the opening was honored by Chairperson of the BTS, Ambassador Paul Rupia. The School continued to participate in collaborative projects and research with different Institutions for the exchange programs. Nursing students from various Universities in the UK, Netherlands, Norway and Sweden have been mentored in clinical elective placement by the school as an important International collaboration for the school.



A corner of SON's skills lab February 2011.

The Linnaeus Palma collaboration between SON and Umea and Uppsala University has also facilitated teacher/student exchange for this academic year. One faculty taught at Umea University for a period of three weeks as part of the exchange program.

New partnerships for research, teaching and student exchange have been established with the Wright state University of Ohio, US and the St Luke's College of Nursing, Tokyo, Japan and it is hoped that SON will collaborate with these partners in fulfilling its core functions with mutual benefits for both sides.

4.5 School of Public Health and Social Sciences

Dean's Statement



Dr. G. Kwesigabo

4.5.1 Introduction

The School of Public Health and Social Sciences (SPHSS) has been addressing the core functions of the University including training, research and community service as well as establishing links and collaborative activities. The SPHSS offers one undergraduate course and seven postgraduate courses namely Bachelor of Science in Environmental Health Sciences, 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 Applied Epidemiology and Laboratory Management and Master of Science in Parasitology.

The School is looking forward to start new Master courses including MSc. Health Promotion, MSc. Biostatistics, MSc. Occupational Health and MSc. Health Care Delivery.

Several short courses have been conducted including; Data Management, Monitoring and Evaluation of HIV/AIDS programs in Africa, Qualitative Methods, Cutting edge teaching methodologies, Effective students supervision, Data analysis using SPHSS software, proposal writing.

4.5.2 Workshops/Meetings Attended:

The Dean met Dr. Diana Prieto USAID Washington, Sasha Mital CDC Atlanta, Nancy Padian UC Berkely, Joan Kraft CDC Atlanta, Eva Matiko CDC Tanzania to discuss possible collaboration between the School of Public Health, Department of Psychiatry and CDC and the proposed Behavioral change communication project. He also met with Angela Makota CDC Tanzania, Kaysha Rose, CDC Tanzania and Roger Myrick UCSF to discuss the possibility of supporting the Initiation of the MSc. In Monitoring and Evaluation programme at SPHSS-MUHAS

One member of Staff attended Lake and catchment Research Symposium proceeding workshop at Kenyatta University, Nairobi, Kenya. He was selected in the climate and water Resources working group for the preparation of regional program of climate change and catchment management within the framework of Integrated Sanitation Management.

One staff facilitated in the Global Medicine Course May 22-28, in Bagamoyo. Twenty two participants from Karolinska University Sweden were received.

The objectives of the visit were to study the overview of health systems and the determinants of health and disease in Tanzania.

Members of staff attended three different workshops with partners from Dartmouth College and Boston University working together in curriculum review process. During this activity the School has managed to make a list of core courses which will be taught to all programs across the School. Other courses will be optional according to the interest of the students and the requirement of the particular course.

4.5.3 Teaching:

A total number of thirty three (33) applicants were registered to join BSc. Environmental Health Sciences program. A total number of eighty two (82) applicants were selected to join different master programs in the School of Public Health and Social Sciences. The Distribution is as follows, MSc. TDC (12), MPH (33), M.A. HPM (15), MSc. Applied Epidemiology (8), MSc. Epidemiology and Lab. Management (5), MSc. Parasitology and Medical Entomology (4), MMED Community Health (5). However some of the applicants did not manage to register due to different reasons mainly being sponsorship for the programme.

4.5.4 Projects:

EduLink Ear – Health Projects

The SPHSS through EduLink EAR –Health project sponsorship in collaboration with partners from Makerere, Moi and Heidelberg Universities ran a short course on Reproductive Health and HIV/AIDS for two weeks. Participants came from different districts within the country and Non Governmental Organizations. At the end of the course a total of twenty five (25) participants were awarded certificates of participation.

The programme has come to an end after three years having completed a total of three new short courses. The other two courses are Quality Improvement and Leadership in Health Systems and Services and Health of Displaced Populations. Partners are looking forward for future collaborations.

CDC- SPHSS (Building Capacity for HIV/AIDS Human Resources)

The focus of this cooperate agreement is to enhance the Muhimbili University of Health and Allied Sciences (MUHAS) and SPHSS ability to contribute to the development of the Tanzanian Health Care system through its trainings in the field of public health.

Renovation of a building which will provide more space for offices and classrooms is still going on. The first phase (ground floor) is almost finished. A workshop was organized to develop and harmonize the core and programme specific modules which involved 7 Master Program done by 17 faculties from MUHAS and Faculty from Dartmouth and Boston Universities.

One Orientation workshop in e-learning was conducted. Two Data analysis short courses using SPSS software were also conducted. Another two LCD projectors were purchased. There was also development of case studies and teaching materials, processing the procurement of vehicle, processing procurement of books and renovation of classrooms

4.5.5 SPHSS Consultancy Bureau

The SPHSS Consultancy Bureau is still in the process of building its capacity and charting the direction through development of guiding principles and charting the strategy.

The Bureau successfully bided for a consultancy for evaluating the National Costed Plan of Action (MVCs) for Most Vulnerable Children (MVC). The Consultancy is financed by FHI and the department of Social Welfare (DSW/

MOHWS). The SPHSS Bureau also successfully bided for a consultancy for situational analysis of Barick Gold Mine Limited (BGML) health laboratory services under BGML health laboratory quality assurance and more activities to come.

4.6 Institute of Allied Health Sciences



Mr. S.S. Senya

Director's Statement

4.6.1 Introduction

The Institute of Allied Health Sciences is one of the two Institutes of the MUHAS involved in training of middle level technical health service providers.

The Institute is situated within the premises of the Muhimbili National Hospital (MNH) with ten (10) Schools. Six (6) are in Muhimbili two (2) at KCMC Moshi, one (1) at Mpwapwa and one (1) in Tanga.

The Institute conducts nine (9) programs; three (3) Advanced Diploma programs and six (6) Ordinary Diploma programs.

During the year of report the future administrative position of the Institute after dissolution of the former Muhimbili Medical centre remains unresolved by the Ministry of Health and Social Welfare (MoHSW).

4.6.2 Students Enrollment

During the year 2010/2011 the Institute enrolled a total number of 835 students 467 males and 368 females. 615 students were enrolled at Muhimbili Campus and another 220 students at the other three campuses; KCMC, Mpwapwa and Tanga.

4.6.3 Students Admission

The number of qualified applicants aspiring to join the programs of the Institute have been increasing from year to year. However the number of students admitted has been limited by inadequate teaching facilities including lecture rooms and laboratory facilities.

During the year of reporting 320 students were admitted; 173 males and 147 females. This makes the number of female students admission to be 46%.

4.6.4 Human Resource Development

Teaching Staff recruitment and development

The Institute has no structured recruitment 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 year of reporting the Ministry of Health and Social Welfare (MoHSW) did not post any teachers to the Schools although some of the teaching staff went on compulsory retirement and study leave. This makes the Institute to continue to be severely affected by shortage of teaching staff and depend heavily on part-time teachers.

4.6.5 Administrative and Technical Staff Recruitment and Development

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

4.6.6 Research and Publications

The Institute has very low research capacity; a few staff members were engaged in research activities. Nevertheless efforts are being made to raise the awareness in this particular area of our responsibilities.

4.6.7 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.

4.6.8 Curricula Review Progress

The process of curricula review to make them competence based was carried out during the year. The review process has been funded through Bill and Melinda Gates Foundation under MUHAS-UCSF Collaboration project. Two Advanced Diploma Programs and five Ordinary Diploma programs have been reviewed and will be presented in various organs of the university in the near future for approval. Two programs; One Advanced Diploma and one Ordinary Diploma programs have not been reviewed and it is expected that they will be reviewed in the near future.

4.6.9 Rehabilitation of Nurses Hostel Block 26 and 28

Rehabilitation of Nurses Hostel Block 28 have been completed and the Institute have acquired 200 double decker beds and 300 mattresses in order to improve the students boarding facilities. At the same time plans are under way to start rehabilitation of Block 26. It is expected that if funds will be allocated by the Ministry of Health and Social Welfare (MoHSW), the rehabilitation will take place in the next financial year.

4.6.10 Improvement of cafeteria services at Nurses Hostel and Boarding Services at MTC Hostel

In order to improve the cafeteria services at the Nurses Hostel, the Institute has acquired 7 dinning tables and 60 dinning chairs for Nurses Hotel cafeteria. In addition the Institute has acquired 100 mattresses in order to improve the students boarding facilities at MTC Hostel.

4.6.11 Renovation of Skill Laboratory for the School of Nursing Diploma

The School of Nursing Diploma in collaboration with NUFFIC has set aside funds for renovation of the School Skill Laboratory which was in very bad condition.

Rehabilitation is on its final stage and finally all the equipment will be supplied by NUFFIC in order to improve teaching and learning in the School of Nursing.

4.6.12 Constraints faced by the Institute

- Undefined administrative position of the Institute following the reforms of the former Muhimbili Medical Centre.
- Inadequate budgetary funding
- Poor, physical infrastructure of buildings especially the Institute Building which require major rehabilitation.
- Persistent shortage of teaching staff in most of the schools under the institute.

4.7 Institute of Traditional Medicine



Dr. Z. Mbwambo

Director's Statement

During the reporting period (2010/2011) the Institute continued with its efforts to develop and standardize herbal medicinal products. Three new products have been introduced in market, namely, Mangifera cream, mangifera capsules (antioxidant) and Ravo tincture. In total the Institute is producing 11 products. Sales from herbal medicines products for the reporting period was 27,550,500/=.

Currently the Institute is involved in 15 Research activities at various levels of funding and continued to disseminate its research results whereby 7 papers were published in peer reviewed journals.

The Institute successfully modularized its MSc. Trad Med. Curriculum and was able to enroll six MSc candidates expected to join year 1 of the MSc. Traditional Developments programme. The Institute continued to host undergraduate and graduate students from School of Pharmacy (BPharm IV) MUHAS and from the Chemistry Department, UDSM. Furthermore in the reporting period, the Institute participated in various exhibitions at National level.

4.8 Directorate of Postgraduate Studies

Director's Statement



Prof. Z. Premji

4.8.1 Introduction

PhD Admission

During the academic year 2010/2011 The Directorate registered 15 PhD applications Out of 15 candidates 5 are female. PhD admission has been tremendously increased in this academic year compared to previous years. For example during academic year 2008/09 there was only 5 PhD students registered at MUHAS.

4.8.2 Master Students enrolment

During academic year 2010/2011 a total number of 426 postgraduate students enrolled into five Schools and one Institute as indicated in the table below, of these 40.73% are female. Enrolment in previous year was 357, Compare to last year, enrolment in this academic year 2010/2011 increased by 19%.

Table 7: Summary of Registered Postgraduate students for Academic Year 2010/2011

Programme	Year I (Semester 1)			Year 2 (Semester 3 & 4)			Year 3 (Semester 5 & 6)			Total PG students per school		
	M	F	Total	M	F	Total	M	F	Total	M	F	Total
School of Medicine												
Master of Science	12	1	13	3	1	4				15	2	17
Master of Medicine (MMed)	56	30	86	35	20	55	23	20	43	114	70	184
Master of Science Super-specialty	4	1	5	3	0	3	1	0	1	8	1	9
Sub Total	72	32	104	41	21	62	24	20	44	137	73	210
School of Dentistry												
Master of Dentistry (MDent)	8	0	8	1	0	1	5	1	6	14	1	15
Sub Total	8	0	8	1	0	1	5	1	6	14	1	15
School of Pharmacy												
Master of Pharmacy	2	0	2	1	2	3	-	-	-	3	2	5
Master of Science	7	2	9	5	4	9	-	-	-	12	6	18
Sub Total	9	2	11	6	6	12	-	-	-	15	8	23

School of Nursing												
Master of Science in Nursing	3	10	13	1	2	3	-	-	-	4	12	16
Sub Total	3	10	13	1	2	3	-	-	-	4	12	16
School of Public Health												
Master of Public Health (MPH)	10	12	22	-	-	-	-	-	-	10	12	22
Master of Public Health Executive Track	11	21	32	14	17	31	-	-	-	25	38	63
Master of Science	13	10	23	12	6	18	-	-	-	25	16	41
Master of Arts In Health Policy and Management	7	5	12	5	5	10	-	-	-	12	10	22
MMed Community Health	3	1	4	4	0	4	-	-	-	7	1	8
Sub Total	44	49	93	35	28	63	-	-	-	79	77	156
Institute of Traditional Medicine												
Master of Science in Traditional Medicine Development	3	0	3	2	1	3	-	-	-	5	1	6
Sub Total	3	0	3	2	1	3	-	-	-	5	1	6
TOTAL	139	93	232	86	58	144				254	172	426

4.8.3 Students Research Proposals

The Directorate in collaboration with the DRP reviewed students' research proposals for ethical clearance and funding. A total of 140 proposals submitted by M.Med, M.Dent, MSc and MPH students were processed.

4.8.4 Post Graduate Selection.

The Joint Postgraduate Selection Committee under the Directorate, met to approve Schools' recommendation for 2011/2012 Postgraduate admissions. The total number of applicants approved for admission is 272 including 183 males and 89 females. The selected students will be admitted in various Masters of Medicine, Masters of Science, Masters of Dentistry, Masters of Pharmacy, Masters of Public Health and Master of Arts programs. The following is a summary by school and institute.

Table 8: Distribution of Postgraduate Candidates Registered in 2010/2011 by School and Sex

School	Male	Female	Total
Medicine	98	44	142
Dentistry	8	0	8
Pharmacy	16	8	24
Nursing	7	7	14
SPHSS	50	29	79
ITM	4	1	5
Total	183	89	272

The female admission for postgraduate students is 48.6% which surpasses the targeted level of 40% for MUHAS in general.

4.9 Directorate of Research and Publication

Director's Statement



Prof. M. Aboud

4.9.1 Introduction

The mission of the Directorate of Research and Publications 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. The Directorate continues to support faculty, students and our collaborators by improving research administration infrastructure at the University.

The basic function of the DRP at MUHAS is to coordinate all matters related to research and publications. As mentioned in the 2008- 2013 strategic plan of the Directorate, these functions include to:

- Update regularly the University research Policy
- Produce regularly University Research Bulletin
- Provide information on possible sources of research funding
- Solicit research funds
- Develop University research agenda
- Establish and maintain research links
- Administer research projects
- Develop research infrastructure
- Set guidelines on research ethics
- Enhance capacity to conduct and disseminate research findings

4.9.2 Production of Policies

The Directorate has prepared policies to guide research management implementation at the University, these include; (i) University Research Policy, (ii) Intellectual Property Policy, (iii) Policy of Research Misconduct and (iv) Conflict of Interest Policy. The Research Policy and Intellectual Property Policy have already been discussed by the Committee of Deans and Directors and the drafts will be discussed by the Senate and Council for approval.

4.9.3 Development of University Research Agenda

University research agenda has been prepared and the final draft was discussed by the Committee of Deans and Directors, the document will be sent to the Senate for approval. The document will guide the Institution, funding agencies and collaborative partners on the research priority areas of the University.

4.9.4 Soliciting Research funds

The Directorate through support from the IEARDA grant and the Sida Research Capacity Strengthening Programme has subscribed to Research Africa which provides regular funding opportunities. Selected faculties have an access to these funds as a trial. Upon successful application of the trial, the access will be made available to the University community.

Research funding in the University continues to be largely from foreign donors, however the Government has set aside 1% of GDP to support research activities although MUHAS had yet to receive the funds from this allocation.

4.9.5 Review Process

The Directorate is also coordinating the review process of protocols conducted by faculties and students through the Senate Research and Publications Committee and its Expedited Review Sub-committee.

Senate Research and Publications Committee

- The committee reviews all the new studies that request for ethical clearance and also funding requests provided by the University through the Sida Research Capacity Strengthening Programme. In total 28 proposals were discussed and approved

Expedited Review Sub-committee of the SRPC

- In total the sub-committee discussed and approved a total of 140 postgraduate student's proposals and 156 studies which were requesting for minor revisions and renewal of ethical clearance from faculties. The sub-committee also discusses and approves studies with minimal risks that require expedited approval.

4.9.6 Research Dissemination

In collaboration with Schools, the directorate supports one day research seminars which are conducted, during this period the School of Pharmacy, School of Dentistry and Institute of Traditional Medicine conducted the seminars supported by the Directorate through the Sida Research Capacity Strengthening Programme. School of Medicine and Public Health and Social Sciences have planned to conduct their seminars immediately after University Examinations.

4.9.7 Review of Research Administration at MUHAS

During the reporting year, the Directorate and administrators from the MUHAS Sponsored Programmes have conducted extensive review of the MUHAS Research Administrative functions. This process had been supported by Sida, Academic Learning Project and IEARDA grants at MUHAS. Report of the review and recommendations will be distributed to all MUHAS research stakeholders after it has been discussed and approved by the University council.

4.9.8 Restructuring of the Directorate

In order to improve MUHAS Research management and administration to meet the 21st century challenges, it has been proposed to restructure the directorate into three (3) functional units, (i) Research Development (ii) Grant Management and (iii) Human Subject Protection units. Roles and responsibilities of each unit have been drafted and are awaiting MUHAS management approval.

4.9.9 Institutional Repository

There are initiatives between the Directorate of Research in collaboration with the Directorate of ICT and Library to establish the Institutional Repository. The repository will be used to compile all information of faculties, publications, and all other important documents of the University. A sub- committee has already been establish to work on the matter. The draft will be discussed in the upcoming Senate Research and Publications committee meeting in August.

4.9.10 New Grants to the Institutions

- Fred Hollows Foundation Grant awarded to the department of Ophthalmology
- Extension of the Action Medeor International Health- GTZ Grant The objective of the grant is to upgrade the analytical lab at the MUHAS School of Pharmacy and strengthen drug development and pharmaceutical education at MUHAS
- DELPHE- BC, awarded to the Institute of Traditional medicine
- European Union Grant through the PREPARE Project which is conducted in collaboration with University of Bergen, the purpose of the grant is to develop research based culture and gender sensitive sustainable community based interventions
- A collaborative grant with the University of Bergen, on health promotion, dignity and human rights
- Grant from Commission of Science and Technology (COSTECH) in the Institute of Traditional medicine
- PEPFAR Grant to the department of psychiatry on Public Health Evaluation
- Centre for Disease Control grant on Agents change of protocol
- Well-come Trust Grant award of £ 1.2 Million

4.9.11 New Grants to the Directorate

- NIH/ Forgarty grant for capacity building of MUHAS IRB which is awarded jointly between Darmouth and MUHAS
- Dartmouth/ Penn Research Ethics Training Grant(DPRET):
International Research Ethics Training award, the objective is to establish a center of excellence for Bioethics at MUHAS

4.9.12 Networking and New opportunities

MUHAS is one of the founding members of the Association of Research Administrators in Africa (ARAA), the association provides a networking and training forum for research administrators across Africa. The Annual 2010 Meeting for the association was held in November, Kampala and a total of 16 administrators from MUHAS (including administrators from the research programmes) attended this meeting. The Director and Deputy Director of Research also attended the meeting.

4.9.13 Intellectual Property Person and Office

The Directorate, appointed Ms Mariam Masandika, the legal advisor to be a contact person for Intellectual Property issues at MUHAS. The directorate supported her to attend trainings at COSTECH on similar issues to familiarize her with the issues involved.

4.9.14 Challenges

Human Resources

The directorate critical problem is human resource, for now there are only 4 staff (to include the Director, Deputy Director, Administrator and Secretary). Due to the volume of works in the unit, the Directorate needs addition of two administrators to enable the Directorate to reach its objectives

Space

There Directorate is sharing space with the Directorate of Postgraduate studies, there is no enough filing space to cater the needs for both directorates.

Audit- A133

NIH has requested for all the federal funded projects (US Governement funded projects) to be audited. Up to now the audit has not been done due to absence of centralized sponsored research administration few individual projects have been audited.

Epicor Accounting Software

The software was procured to facilitate the project accounts, but since installation there are problems which hinder the efficient use of the software.

Centralized Research Information System

Currently there is no centralized system for research information at the University, collecting and compiling the information is one of the major challenges that the directorate is facing.

4.10 Directorate of Planning and Development – Muhimbili Campus

Director's Statement



Dr. Dinah Gasarasi

4.10.1 Introduction

The mandate of the Directorate of Planning and Development is to coordinate the development and implementation of the University Plans and to ensure that the planned activities are implemented as scheduled and are consistent with the five year rolling strategic plan of the University.

Strategic Planning

During the reporting period (2010/2011) the directorate reviewed and prepared the implementation progress report of the University corporate plan 2004 -2013. Substantive progress has been made in the achievement of the institutional goals in the last eight years; more especially significant progress has been towards the achievement of the MUHAS vision of expanding to a **“more spacious area with conducive learning and working environment”**(Details Under the Directorate of Planning Mloganzila). Plans are underway to share the progress report with the stakeholders as an initial step towards the development of the next ten years corporate plan 2013 – 2022. The current corporate plan was developed when the institution had a College status; it is therefore important to undertake the review and to develop goals and objectives consistent with the institution current status. Furthermore the implementation progress report reflects that most of the goals have been achieved and there is therefore a need for a more dynamic corporate plan. In 2010/2011 the directorate also reviewed the MUHAS transport policy to align with the current institutional status and the new version has been approved by the University organs and is in use.

Infrastructure Development

During the reporting period the directorate participated in writing of development projects for resource mobilization. A project proposal for infrastructure development and other development activities has been submitted to the Ministry of Education and Vocational Training (High Education Development Program). There is hope that this initiative will yield some positive results.

4.10.2 Renovations of Buildings

Despite limited resources for Capital Development the university through its internally generated funds and support from partners was able to develop and maintain infrastructure for the following:

4.10.2.1 The Muhimbili Campus Undergraduate Cafeteria

The undergraduate cafeteria was renovated to improve the cooking area internally and externally. The serving bay was extended to increase its size and cashier's window was created. Other parts rehabilitated include, electrical wiring, Floor terrazzo grinding, all doors were changed, windows fitted with new wire gauze, roover frames replaced, fume hood repaired and the plumbing system was revamped to improve the drainage. The plastic furniture was

replaced with better quality furniture. To improve the water supply to the cafeteria, a water tank was installed to supply water to the cafeteria only.



Rehabilitated undergraduate cafeteria at Muhimbili Campus: from top left: The extended Saving Bay and the renovated fume hood, Cashier's Office, External shaded area, and the new quality furniture installed in the cafeteria

4.10.2.2 Rehabilitation of the Bagamoyo District Hospital Operating Theatre

MUHAS has traditionally taken students to Bagmoyo district for field training. This training component is planned to be extended to have both undergradute and postgraduate students doing clinical training and practice at Bagamoyo district hospital. To this end the University, utilizing resources from the Academic Learning project (ALP) is extending and renovating the Bagamoyo District Hospital Operating Theatre in order to have a facility that can accommodate an adequate number of students and staff. The existing operating theatre was too small to meet the training requirements. The rehabilitation work is now about 75% complete.



Rehabilitation of the Bagamoyo District Hospital Operating Theatre: From Left – the general external appearance and the rehabilitated old wing showing entrances to the extended wing

4.10.2.3 Rehabilitation of the Estates Building

The Building called “Estates Building” was an old house used by a member of staff. This building was renovated and modified to create offices for the Estates department. Windows, doors, floor, partitions were all changed and replaced. The roofing was repainted and modernized. The renovation work also included reconstruction of the drainage system, electrical rewiring, and installation of air conditioners and repainting of the whole house. Upon completion of this facility offices have been created for the whole Estates department and the Transport Unit.



Rehabilitated Estates Building: External View and fully furnished Office for Artisans



Rehabilitated and fully furnished Estates building: General view of some offices

4.10.2.4 Construction of the incinerator

The University shifted the location of the incinerator to pave way for new developments. A new and more suitable location was identified where an incinerator house was constructed and a new incinerator was fabricated and installed at the new site. The pictures below shows the fabricated incinerator installed and the incinerator house which are completed and in use.



Fabricated incinerator and Incinerator House

4.10.2.5 Other Renovations and Infrastructure Development

To create a conducive living environment for staff. The staff houses at Muhimbili campus were rehabilitated by completely revamping the existing roof and replacing it with new roofing sheets. The worn out ceiling boards were also removed and replaced.

4.10.2.6 Upgrading of the electrical system at Muhimbili Campus

To counteract electrical power interruptions in some of the major buildings at MUHAS the University engaged a consultant to assess the power load of these buildings. The consultant completed the power load assessment and provided recommendations for upgrading power for each of the buildings. The initial upgrading will be for the MPL building and preparations of the bid documents for inviting a contractor who will carry out the work are underway.

4.10.2.7 Renovation of the SPHSS Bednet Building

During the reporting period the SPHSS Bednet Building was renovated and extended to create offices, laboratories and classrooms through the funding from SPHSS – CDC collaborative project. The pictures below show the completed phase one renovations.



Renovated Building showing Main Entrances Externally and Internally

4.10.3 Marketing the University Activities: Participation in the 35th International Trade Fair

During the reporting period the Directorate of Planning and Development coordinated the preparations of activities for participation in the 35th Dar es Salaam International trade fair. During the exhibition MUHAS displayed and promoted various products and services offered by the University. Various Units participated in the trade fair including; Internal Medicine, Surgery, Pediatrics and Child Health, Obstetrics and Gynecology, Anatomy, Parasitology/Medical Entomology, Environmental Health Sciences, School of Dentistry, School of Pharmacy, School of Nursing, Institute of traditional Medicine and Directorate of library services. The exhibitions covered teaching, research and related activities according to the unit specialization. Health screening for Blood Pressure, diabetes, dental problems, malaria and BMI were carried out by the relevant units. Of significance was the display of the research progress in testing the HIV Vaccine by the joint teams of Tanzania and Mozambique (TAMOVAC) which attracted a number of viewers who wanted to know about the vaccine. The MUHAS pavilion was graced by the visit of the President of the United Republic of Tanzania, Dr. Jakaya Mrisho Kikwete.

The pictures below show the MUHAS pavilion and some of the activities which took place during the exhibition which begun 28th June 2011 to 8th July 2011.



His Excellency the President of the United Republic of Tanzania Visiting MUHAS Pavillion at SabaSaba Grounds July 2011



MUHAS Pavillon at Mwalimu Nyerere Sabasaba grounds: Exhibitors demonstrate to visitors during the 35th International Trade Fair

4. 11 Directorate of Planning and Development Mloganzila Campus Director's statement



Dr. A. R. Kamuhabwa

4.11.1 Introduction

Inadequate teaching and learning infrastructure are the major challenges facing the higher education sub-sector. MUHAS is not an exception to this challenge. Currently MUHAS has about 2442 students compared to 456 in the late 1990s. This trend has occurred without a corresponding increase in the teaching and learning infrastructure within the institution. The existing university infrastructures are inadequate and some facilities are old and worn out. Another main challenge facing MUHAS is lack of a Teaching Hospital. Currently, Muhimbili National Hospital does not provide adequate teaching space for increased clinical students at MUHAS.

MUHAS embarked on solving the existing challenges by initiating developmental activities at Mloganzila. During the reporting period, a number of activities were carried out for the purposes of developing this land into a New University Campus.

4.11.2 Visit of the MUHAS Chancellor at Mloganzila Site

MUHAS Chancellor, the former president of United Republic of Tanzania Ali Hassan Mwinyi visited the University land in Mloganzila in January, 2011. In this visit he was given a tour around the area to familiarize himself with the University Plans on the use of the land. The Chancellor was accompanied by MUHAS Management and Staff. Among other areas that he was shown is the area where the University State of the Art Teaching Hospital will be located and the small lake which is within the land. MUHAS Management proposed and agreed to name the lake in Chancellors honor. The MUHAS Vice Chancellor informed the Chancellor that the plan of developing the land is to have a University town where all basic needs will be available. Addressing MUHAS management and staff at the site the Chancellor thanked the Management for the tour and promised his cooperation in the development of the site. The Chancellor requested the Management to regularly give him reports on every process, obstacles and or achievements on the Mloganzila land.



The Chancellor Ali Hassani Mwinyi with MUHAS Officials at the University land in Mloganzila

4.11.3 Property Compensation to the People Living at Mloganzila Land

During the reporting period properties of 618 people which were not evaluated in the earlier stage were evaluated. The process of evaluating properties for these people has been completed and the evaluation report was submitted to MoEVT for fund request. In addition to that of the 1919 people evaluated and compensated in 2009/2010, thirty (30) people are yet to be compensated pending resolution of land ownership disputes

4.11.4 Construction of Basic Infrastructure at Mloganzila

Development of basic infrastructure at Mloganzila, including Access roads, Electrical power supply and water will be a contribution of the Government to the project. The relevant Government institutions have been approached including TANROADS, TANESCO and DAWASCO. These institutions have visited the site and technical information collected for inclusion their annual budget

4.11.5 Environmental Impact assessment (EIA):

A consultant to carry out EIA at Mloganzila started the work on 7th September, 2010. EIA report was submitted to National Environment Management Council (NEMC) for review and approval on 2nd February, 2011. All comments raised by NEMC reviewers and TAC Members were given to consultant for incorporation. Consultant submitted the revised report to MUHAS for second review on 22nd July, 2011. MUHAS reviewed the EIA report and submitted the comments to the consultant for incorporation before submission of the final EIA report to NEMC.

4.11.6 Topographical Survey and Development of Master Plan

A consultant to carry out Topographical Survey and development of Master Plan for Mloganzila Campus was procured and started the work on 16th June, 2011. However, due to dispute of land compensation, the consultant could not continue with the work. MUHAS contacted the responsible Ministry and several meetings were convened with Ministry Officials and Kwembe Ward Executive Officers to discuss this matter. During the reporting period, MUHAS is waiting decision from the government regarding land compensation. The consultant will continue with the work once a decision has been made.

4.11.7 Loan Agreement for Construction of MUHAS Medical Centre

The Loan agreement for Construction of MUHAS Medical Center was signed on 15th September, 2010 between the Government of South Korea and the Government of Republic of Tanzania. According to the general terms and conditions of the Loan Agreement, the Loan became effective on 23rd December, 2010.

4.11.8 Procurement of the Consultant to Design and Supervise Construction of the Proposed MUHAS Medical Centre

The consultant to design and supervise construction of MUHAS Medical Centre was procured among Korean Consulting Firms. A contract between MUHAS and Baum Architects, Engineers and Consultants Inc was signed on 28th June, 2011 and approved by the Korean Exim Bank on 29th July, 2011. The consultant has already started the designing work which is expected to be completed in February, 2012. The Consultant presented the 100% concept design of the proposed Medical Centre. In the presentation, the consultant presented three major issues including; site analysis, land use planning, blocking and stacking plan for the proposed Medical Centre.

Executive Vice President of BAUM Architects, Engineers and Consultants Inc presenting 100% Concept Design of the proposed MUHAS Medical Centre.



Executive Vice President of BAUM Architects, Engineers and Consultants Inc presenting 100% Concept Design of the proposed MUHAS Medical Centre.

4.11.9 Procurement Plan for Medical Equipment Supply and Installation for MUHAS Medical Centre

The Procurement Plan was submitted to the Ministry of Education and Vocational Training (MoEVT) for onward submission to the Ministry of Finance (MoF) on 26th February, 2011. The MoEVT submitted the plan to MoF on 10th March, 2011. MoFEA submitted the plan to EDCF Korea for approval on 15th March, 2011. EDCF approved the plan on 24th March, 2011. The loan arrangement of US Dollars 27,000,000 for Equipment Supply and Installation for MUHAS Medical Centre was signed by the Government of South Korea and the Government of Tanzania on 30th July, 2011.

4.11.10 Establishment of a Pharmaceutical Manufacturing Plant and VIP Hospital at Mloganzila

The Directorate initiated the process of soliciting funds for the purpose of establishing the Pharmaceutical Manufacturing Plant and VIP Hospital at Mloganzila. During the reporting period NHIF confirmed to support construction of the VIP Hospital and Pharmaceutical Manufacturing Plant at Mloganzila by providing loan to the government subject to MUHAS obtaining a loan guarantee from the government.

4.12 Directorate of Information Communication and Technology Services

Director's Statement



Prof. M. Moshi

4.12.1 Introduction

In 2010/2011 the Directorate of ICT continued to manage and maintain ICT infrastructure including MUHAS servers and Local Area Network used for provision of internet and e-mail services. The University signed contract with VIZADA to be the new ISP and subsequently the bandwidth has been doubled to 8.0 Mbps duplex. However, given the volume of current users the impact has been minimal. The University Management remains committed to upgrade the bandwidth further and already modalities are being sought to ensure availability of adequate bandwidth to support the teaching and learning environment.

The directorate of ICT, for the first time since its inception, managed to hold a stakeholders workshop on the 3rd of March, 2011 to share views and concerns, and identify needs from all the schools and directorates. Following this event which took two days the Directorate made a final review of its Five Year Rolling Strategic Plan 2009/10-2013/14 and rolled it over to 2010/2011-2014/15. The planned activities are already being picked up for implementation at different levels.

4.12.2 Teaching activities

During the year under review the Directorate of ICT in collaboration with the Directorate of Library services developed an ICT curriculum for undergraduate students (IT100). The curriculum went through all the necessary reviews and is expected to be implemented in the academic year 2011/12.

DICT in collaboration with the Directorate of Undergraduate Education introduced student ID cards with barcodes, which are already being used by students and also installed a Students Academic Records Information System (SARIS). The system is already working but only waits to be linked with ADLIB.

Two servers were acquired through the ALP project funded by the Melinda and Bill Gates Foundation. The servers have installed with the TUSK platform for e-learning. These servers are supposed to store e-learning material. Project Funds were used to procure software, including Microsoft Windows 2007, Microsoft Office 2010, Windows Server 2008, Acrobat Professional 9, SPSS Version 18 and Dream Weaver.

4.12.3 Application for Grants

The Directorate procured 86 desktop computers from a TEA grant amounting to TZS. 150,000,000 /-. Among these 40 were installed in the Library and 46 in the Undergraduate Computer Laboratory. A new proposal was submitted to the Swiss Development corporation to seek support to buy additional computers and install LAN in the Library 24 hour reading room.

4.12.4 ICT support

In the year under review the directorate continued to support ICT needs of various projects/units including restructuring of Local Area Network in the Undergraduate and Postgraduate Computer Laboratories. Local area network, both wired and wireless was installed in the new office block. A PBX telephone system with 500 extensions was installed to most offices in all MUHAS buildings.

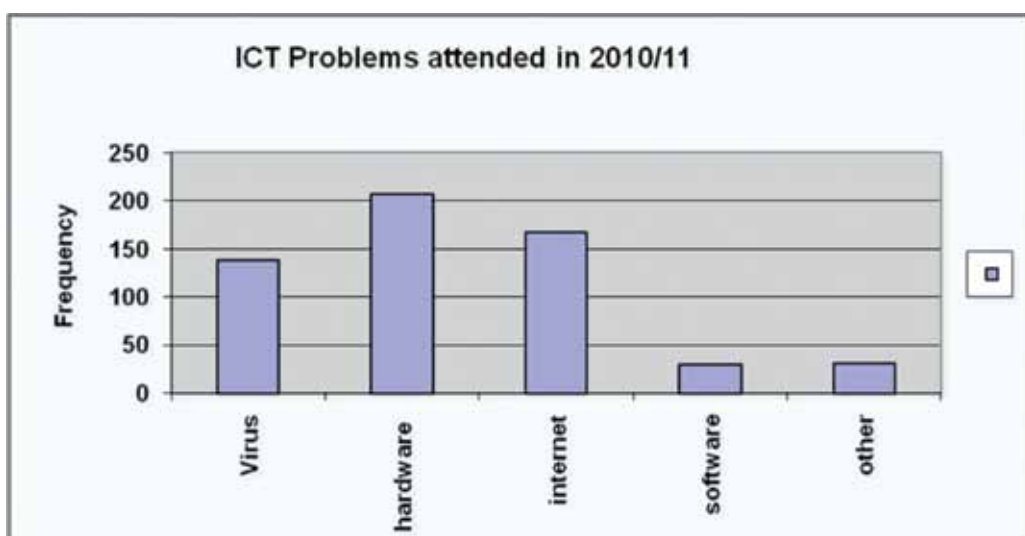


Fig. 14: ICT problems attended by DICT from July 2010 – June 2011.

4.12.5 Staff training

One academic member of staff completed his MSc studies in computer science and was subsequently promoted to the position of Senior Systems Analyst Analyst III in May, 2011. Another academic staff is doing his PhD studies in Norway. One Academic staff registered for PhD studies in 2011.

4.12.6 Staff recruitment

During the year under review one system administrator was employed. However, there is still a severe shortage of staff and this needs immediate attention to ensure delivery of good services and implementation of planned activities. A Minimum of 50 new staff are required for optimum management of ICT services at MUHAS.

4.12.6 Challenges in ICT services

Lack of ICT staff and ICT facilities such as computers and infrastructure still face the University as major challenges for effective and efficient application of ICT in teaching, learning and administration.

4.13 Directorate of Library services

Directors Statement



Dr. E .T Lwoga

4.13.1 Introduction

This report gives highlights of events and activities undertaken in the Directorate of Library Services during the period July, 2010 to June, 2011. During the period the library continued to implement activities aimed at achieving its objectives as outlined in its Five – years strategic plan. Again due to an insufficient local budget, financial support for the activities came mainly from development partners, particularly Sida/Sarec and Delphe under the Library Support Project whose aim is to strengthen the teaching and research capacity at the University.

4.13.2 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.

4.13.3 Collection Development

During the period, the library received 290 titles of health and allied sciences books from Book Aid International. The books have already been processed and they are already in use.

The library has also purchased 65 titles (332 copies) of health and allied sciences textbooks under the government funds and Sida Project Support. The books have been already processed and they are already in use.

The library has also solicited and collected books from public and private institutions and local and international NGO's, and the library managed to acquire a total of 177 titles with 3191 copies.

The library has also received 13 titles of books with 53 copies, where 9 titles of books were donated by MUHAS, 1 title of book was donated by National Bureau of Statistics and 3 titles of books were acquired from Bank of Tanzania. The library also received 21 printed journals, where 19 journals were donated by MUHAS, and 2 journals (11 copies) were received from TACAIDS.

4.13.4 Provision of ICT – Based and Facilities:

Work continued to automate library functions and in particular to convert the manual library card catalogue into an online computer – based catalogue. Data entry continued and all bibliographic records of books and CD-ROMS were entered in the ADLIB database making a total of 24,922 records. Currently there is an ongoing exercise to complete the journal collection.

Acquisition of computer hardware and software continued in order to improve the library's ICT facilities. One (1) Heavy duty scanner, One (1) Normal scanner, Fifty (50) computers and one (1) printer have been acquired at the library.

The Library applied and received the Essential Electronic Agricultural Library (TEEAL) database 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.

Training of 130 MUHAS academic staff and 50 students on information literacy using ICT technology was undertaken during the period.

4.13.5 Human Resource Development

The library staff, both professional and technical, needs to be trained and retrained in order to improve their work capabilities. The library has submitted to the university Administration a request for the training of four (4) library staff at Master's degree and degree levels in the field of librarianship, and one (1) library staff to be trained in computer studies at diploma level.

The library continued to follow-up with the MUHAS Administration for the recruitment of a System Administrator and Assistant librarians.

4.13.6 Resource Solicitation

The library continued to work on proposals and activities for fundraising. The library received a grant from the International Network for the Availability of Scientific Publications (INASP) to conduct training to health information professionals in July, 2011. The library applied and received a TEEAL database from CTA which provides access to wealthy agricultural and health information.

4.13.7 Marketing of Library Services

Marketing of library services through bulletins, leaflets, brochures and user guides was undertaken library user guides were prepared and distributed to new students and information leaflets were also prepared and circulated to all users to increase their library awareness.

Library services have also been marketed through its Website. The library website has been upgraded to give the latest information about library services and facilities

User education activities were also undertaken during the period including the library orientation programs for new students.

4.13.8 Networking and Resource Sharing

The library cannot operate in isolation but has to work on networking, resource sharing and institution linkage. The library staff participated in meetings, seminars and workshops with other librarians to exchange views and knowledge. Links were maintained with other institutions such as Book Aid International of PHI, RCOG of UK and others.

Delphe project partners from PHI and RCOG in UK conducted a one week training on evidence based practice at MUHAS in March 2011.

4.13.9 Research and Publications Activities

The library continued to implement the university policy on research including conducting research in the field of library and information science.

Two (2) library staff, Rehema Chande-Mallya and Mboni Ruzagea are currently doing their research activities in connection with their PhD training. Rehema Chande- Mallya is about to complete her PHD studies.

4.14 Directorate of Continuing Education and Professional Development



Prof. E. Kaaya

Director's statement

4.14.1 Introduction

The Mission of Directorate of Continuing Education and Professional Development is to provide quality, demand driven CPD through facilitation, regulation and promotion for the health sector and beyond. In order to achieve its mission the Directorate carried out the following activities during this academic year:

4.14.2 CEPD courses

During the reporting period, the Directorate conducted the following training courses and workshops:

- (a) HIV/AIDS care and treatment training of trainers conducted in April 2011 to MUHAS faculties and outside participants to equip them with modern strategies of teaching was offered by MUHAS Trainers in collaboration with ASPIRE Trainers from University of California at San Francisco for one week.
- (b) Three months Diabetes Management course continued in collaboration with Department of Internal Medicine.
- (c) The Directorate in collaboration with Afya Bora Consortium conducted a Leadership Training Course from 2nd May 2011 to 21st May 2011.
- (d) The Directorate conducted two sessions of Faculty Development workshops for implementation of Competency Based Curriculum from 27th June to 2nd July 2011.



Some of the MUHAS faculty following up a session in a faculty development workshop

4.12.3 Quality of teaching and learning

(i) Curriculum

The Directorate throughout the year continued to coordinate the curriculum revision and change into competency based curricula. The coordination exercise was finalized in May 2011 followed by quality check of the revised programs until June 2011. The target is to introduce the revised curriculum to all first years in the coming academic years after approval by appropriate organs.

(ii) Faculty Development

Health Professional Educators (HPE) have been conducting weekly faculty development workshop on various topics to improve teaching skills. The Health Professional Educators will conduct a feasibility study and comparative study from June 2011 by reviewing various literatures so that they can create a MUHAS Health Professional Educators Academy.

4.14.4 Grants and Collaboration Activities

- (i) Dar - Oxford Link for Health: Translating Knowledge into practice project: This grant was approved in the first half of 2008 by the Development Partnership in high Education (DePHE) through British Council and DFID, and money disbursed from September 2008. The grant amounts to British pounds 28,400 every year for a three years period. Activities implemented as planned in year two and three included CPD courses for Haematologists and Technicians, audit training for nursing Haematological care and audits in Haematology services for doctors.

In addition the focus for year three has been scaling up of the courses initiated in year two. A total of four courses for sickle cell disease and Haematological audit have been conducted. The project funding will end in October this year.

- (ii) MUHAS – UCSF Academic Learning Project: This two years' learning project was granted in late October 2008 by Bill and Melinda Gates Foundation (BMGF) in order to address the Human Resources for Health (HRH) crisis in Tanzania. During year three of the project the central focus has been strengthening partnerships among key stake holders in the Health sector: Faculty Development, revision of curriculum and building a platform to coordinate training, research and service activities in Bagamoyo District.

All activities have now been finalized. The curriculum is in the process of approval for implementation and the Faculty Development activities are now permanent agenda of the institution. The Project is now documenting its findings ready for dissemination meeting in October 2011.

4.14.5 Infrastructure development

- (i) Construction of CHPE to house various Educational units: The development and build out of the Centre for Health Professionals Education (CHPE) is ongoing. MUHAS started construction of the Centre in July 2010. The foundation stone laying ceremony was officiated by the President of The United Republic of Tanzania, His Excellency Dr. Jakaya Mrisho Kikwete in December 2010.



**Group Picture during stone laying Activity at the Haile Debas CHPE – MUHAS
by His Excellence President of United Republic of Tanzania
Dr. Jakaya Mrisho Kikwete**



CHPE Construction as at August 2011

4.14.6 Income Generation Activities

The Directorate continued to generate income to the University through fees charged on CPD activities and operating of the Kalenga House.

4.15 Directorate of Undergraduate Education



4.15.1 Director's Statement

The Directorate of Undergraduate Education processed both direct and equivalent undergraduate application for 2010/2011 academic year for various programmes as follows:

Prof. A. D. Kiwara

Programme	Number of selected Applicants	Number of students registered/On studies
Doctor of Medicine		
205	195	
Bachelor of Medical Laboratory Sciences	22	14
BSc. Radiotherapy Technology	3	3
Doctor of Dental Surgery	22	20
Bachelor of Environmental Health Sciences	38	33
Bachelor of Pharmacy	42	39
Bachelor of Science Nursing	23	23
Bachelor of Science Nursing (Management)	14	9
Bachelor of Science Nursing (Midwifery)	6	6
Total	375	
342		

During the 2010/2011 academic year, the Directorate of Undergraduate Education oversaw registration of a total number of 1417 students into various programmes in the School of Medicine, Dentistry, Pharmacy, Nursing, SPHSS and ITM. The registered students include 1055 males and 361 female. The proportion of females is 34.2%.

Note:

- A total of six BScN & BScN. (Management) students had registered for 2010/2011 academic year but they postponed studies due to lack of employers permission.
- One first year BPharm student postponed studies.
- Two BEHS student postponed studies

4.15.2 Undergraduate Student Admission

The Directorate, also through the Senate Undergraduate Education Committee meeting recommended the Schools recommendations for 2011/2012 undergraduate admissions. The applicant recommended for the same are as follows;

Programme	Number of recommended Equivalent qualification applicants (MUHAS)	Number of recommended Direct entrants (TCU)	Total Number of recommended applicants
MD	14	190	204
BMLS (Different specialty)	16	2	18
BSc. RTT	6	1	7
DDS	23	9	32
BSc.EHS	3	35	38
BPharm	5	55	60
BSc N	23	19	42
BScN (Midwifery)	11	6	17
BScN (Mgt)	5	0	5
Total	106		
317			
423			

Installation of SARIS

The Directorate of Undergraduate Education initiated a process of installing Students Academic Record Information System (SARIS) software that will be used for various academic matters including information on examination results, timetabling etc. The installation of the SARIS is at concluding stages and will be ready for use in the coming month.

Establishment of Undergraduate Admission Office

The Directorate of Undergraduate Education is in the process of partitioning of the undergraduate Admission Office. The intention is to have two offices for Timetabling and Examination. After accomplishment of the partitioning of the offices, the recruitment of Examination and Timetabling Officers will follow. Initial steps have been undertaken in recruiting the respective officers for examinations and Timetabling.

New Identity Cards with bar Code

New identity cards with bar codes were provided to all students in order to have access of their examination results and other uses at the University.

4.16 Office of the Dean of Students

Deans's Statement



Dr A.F. Haule

4.16.1 Introduction

Generally, at the time of this reporting student social services, including medical cafeteria, accommodation and counselling services, continued to be provided satisfactorily.

Student Services Bureau

Student services Bureau (SSB) is a semi autonomous and strong unit that oversees the effective management of student Welfare services particularly accommodation services. This unit is functioning through a Student Services Bureau committee housed in the Directorate of Planning and Development with dual reporting link to the office of the Dean of students and is managed by an SSB Manager who is the secretary to the committee.

All Health Attendants have been transferred to different departments except two staffs because general cleanness has been offered to a private Company.

Student Social Services and Activities

Generally during this period of reporting basic student social Services that include medical services continued to be provided satisfactorily, It was directed and emphasized that every student should register with National Health Insurance Fund so as to access health services easily, at any place and to save time.

MUHASSO and Students Association Activities

This academic year MUHASSO did not hold its General election for the reason that Students Organization had been burned due to the reason that they failed to comply with the Government directives amending MUHASSO constitution following the GN 178 guidelines. Recently management had formed a committee of four people Chaired by the former Dean of Students . The Chairperson of this committee convened one successful meeting with the Schools Patrons and Patronesses to find out modalities on how they can link with student and see how they can coordinate academic issues. During that meeting they agreed that Patrons and Patronesses should organize meeting with each Schools Associations leaders, Initiations was done without success for the reason that students associations leaders were afraid to meet due to the threat from their fellow students.

The Win and Learn Academic Event, 2011

For the seventh year this annual academic event has beenrunning, the different students' Organizations team up to carry out a unique academic competition of its own kind known as "The Win and learn Academic Event 2011" The event took place on 11th June, 2011.The event featured students' presentation on the findings from their elective studies, clinical rotations and personal study findings.

Students Accommodation

The University was able to accommodate 826 students at Chole and Muhimbili hostels, among these students 432 are accommodated at Chole Hostels and 394 at Muhimbili campus.

There were 108 rooms at Chole hostels which have not been occupied.

Oriention Program for New Students

The new academic year for fresh MUHAS students opened with an orientation program that started from 7th November 2010 to 13th November 2010. The program was smoothly conducted with most of the scheduled events taking place. Among the colorful events were the sports Bonanza that was organized by the students' government. This event took place on Saturday 13th November 2010 and was entertaining to all participants.

Students' Loan Forms

Continuing students were provided with loan forms (SLF2&3) in April, 2011 from the Higher Education Students Loan Board (HESLB). Students were required to submit the filled forms to the office of the Dean of Students by 31st May, 2011. Filled forms were soon submitted to Higher Education Students' Loan Board after 31st May 2011. For the first time next academic year 2011/2012 the University will not be responsible directly with the students' loan forms, each student who applied at any university including MUHAS will be responsible to download the forms from the web, process the bank payment then forward the form individually to the loan board.

Health Services

Health services to the students were and are still provided by Muhimbili National Hospital. During this reporting period students used the NHIF cards straight to MNH except for emergence cases, e.g. those who fall sick at night and severe cases like psychiatric cases are reported to Dean of students through wardens so as to get close support. One psychiatric case during the reporting period was referred to Psychiatry unit for treatment and medical report was sent requesting him to postpone his final examination until September 2011 so as to allow him revise and sit for special examination.

On the other hand the University Management still encourages those who had not yet registered to register with National Health Insurance Funds. The statistics of the students who renewed NHIF membership cards was 384 by June 2011.

Cafeteria Services

Cafeteria services have been provided to students for the whole period of the year at considerable level both at Chole and Muhimbili campus. Minor problems of the caterer at Chole Cafeteria were handled and efforts are underway to make sure that this will not happen again.

Counseling Services

Counseling services continued to be offered during this period. More than 192 cases reported at the counseling unit; generally most of the problems were social and Psychological, Psychiatric and spiritual. Students were encouraged to report and advised to report any abnormal situation as soon as they experience symptoms like depression, suicidal feelings so that they can be supported. Their problems were solved through counseling and few cases 2 were referred to Psychiatry Department for treatment. Further more they were advised to try to balance things like reading, attending church/Mosque and during break time they must socialize, in doing this will at least control/reduce psychiatry cases which is now increasing. In connection to this currently the office of the Dean of students under its counseling unit in collaborations with SSB manager are writing a proposal on how to do interventions to students through out the year and not only during the academic year. Generally awareness and demand for counseling services are increasing now. There is a need to have one more counselor preferably male students' counselor.

5.0 International Exchange Program Unit

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 195 elective and 24 exchange study students at MUHAS during the reporting year. Further, the unit also registered 107 occasional students who took their elective study in 20 different hospitals in Tanzania. The number of elective and/or exchange student has been increasing progressively in recent years. This is attributable partly to a working agreement with the WORK THE WORLD elective study student placement at MUHAS. Work The World has been able to bring a large number of students for elective study in the schools of medicine, nursing and even dentistry, with a record high of 12 students in the April/June period. Overall, the number of occasional students has remained stable during the reporting period. Specific details and elaborations appear in the subsequent sections of this report.

5.1 Elective Study Activities

Elective study students from Europe especially Britain and Germany, 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 university elective study placements in Tanzania. Another similar organization known as WORLD UNITE! arrange elective placements for applicants from Germany and other parts.

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

5.1.1 Institutionally Arranged/Coordinated Elective Study

- Elective study students for the Institute of Traditional Medicine come under the ongoing UDSM-USA (MHIRT) Summer School Student Exchange Programme.
- 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 a 3 or 4 to 5 months elective study in other hospitals within Tanzania. Under this arrangement a total of 6 such students were registered as occasional students at MUHAS after one week elective study in the School of Nursing, MUHAS. They went in groups of two in the following hospitals, Rubya and Ndolage in Kagera Region; and Mwambani in Mbeya region.
- The School of Nursing and the Department of Radiology have an elective study placement arrangement with the Bergen University, Norway. Five radiology and six nursing students were received under this arrangement.
- Another arrangement from the HINT-NAMSOS, Norway brought in two groups of four students each to the School of Nursing.
- The University of Umea, Sweden sends students to MUHAS regularly. They do a clinical rotation in nursing and also get some community exposure at the Buguruni Health centre for five weeks. Four students were involved in this arrangement.
- This year MUHAS did not receive elective study students from the Dalhousie University, Nova Scotia, Canada for their usual 1 week elective study period at MUHAS; whereby they rotate in the Schools of Medicine and Nursing; and sometimes Pharmacy.
- The Dartmouth University, USA has an elective arrangement with some departments of the School of Medicine. In the reporting period 1 medical student did a one month clinical research elective at MUHAS in the Paediatrics & Child Health department.
- The university has also received resident doctors for clinical rotation or research placements in the School of Medicine departments like Internal Medicine, Paediatrics & Child Health and Surgery. Two resident doctors from the National University of Rwanda had a two months cardiothoracic surgery rotation.

5.1.2 Student Elective Study Placements

For the first, second, third and fourth quarter; 56, 26, 70 and 43 elective study period students were registered at MUHAS respectively. There is an element of seasonal variation, with very low numbers in the October/December period. Months like November some time do not have elective study placements.

- 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 (# 61), Surgery (# 20), Internal Medicine (# 24), Paediatrics & Child Health (# 31) Obstetrics & Gynecology department (# 13) and the School of Dentistry (# 16).
- In total 219 elective/exchange students were registered for the reporting year at MUHAS. The School of Nursing on average registers over 10 elective students each quarter; with an overall total of 62 for the reporting year.

- The Department of Paediatrics & Child Health had the highest number of Exchange students (in total 11). The majority were from Mie University in Japan (9 students in total)
- However, the School of Pharmacy and the Institute of Traditional Medicine did not register a single elective or exchange student in this reporting year.

6.0 Research projects and Publications

6.1 Research Projects

During the reporting period the number of research programs increased to 79 compared to 66 research projects in previous year. This is 19.7% increase, reflecting an increase in research capacity. During 2010/2011 MUHAS established the following 10 new projects:

S/No.	Research Project	Name of Principal Investigator
1	Health Promotion Dignity and Human Rights	Dr. DCV Kakoko
2	Understanding and interpretations of communication campaign messages about concurrent partnerships, acute HIV infection and sexual networks	Dr. J. Mbwambo
3	Morogoro Evaluation Project; The goal of the evaluation is to improve maternal, newborn and child health outcomes in Tanzania	Prof. Killewo
4	Aporet: The project aim at building research and epidemiological capacity of graduates of masters in Applied Epidemiology and Applied Epidemiology and Laboratory Management	Dr. E. Mbaga
5	Formulation and standization of herbal medicines from Garcinia and Cambretum plant species growing in Tanzania for managing HIV/AIDS and related symptoms	Dr. Z.H. Mbwambo
6	EAR health study: Aimed at strengthening capacity of health workers working towards achieving MDGS in the EA Region by increasing their knowledge and skills in managing decentralised health services and improving public health services practices	Prof. M.T. Leshabari
7	Dar Cohort Study: Aimed at establishing and maintain a health and demographic surveillance system for the study of environmental exposures among residents of all ages in DSM region	Prof. J. Killewo
8	ART project: Aimed at determining the magnitude of individual and programme factors associated with retention and adherence to ART in PEPFAR supported programmes in Tanzania	Dr. G. Kwesigabo
9	Outreach programme to provide quality practical training to Ophthalmology students	Dr. M. Sanyiwa
10	Air pollution and health Effects in Dar es salaam, Arusha and Mwanza	Dr. M. Njelekela

During 2010/2011 four research projects were completed as follows:

S.No	Name of Reaserch Project	Name of Principal Investigator
1	A trial of vitamins and HAART in HIV disease progression (TOV 3)	Prof. F. Mugusi
	MUHAS-HARVAD public Health Informatics Training Program	Prof. J. Killewo
3	Leadership Initiative for Public Health In Africa	Prof. J. Killewo
4	Laboratory renovation in the ITM Building	Prof. M. Moshi

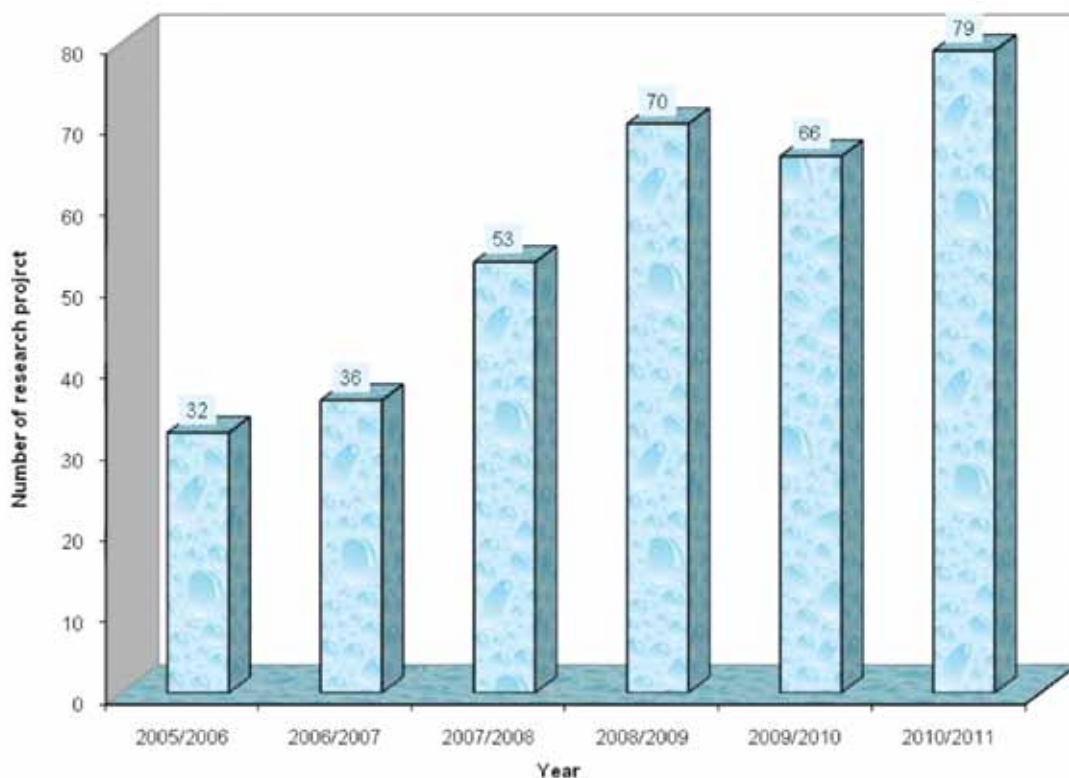


Figure 15: Trend of Research projects from 2005/2006 to 2010/2011

6.2 Research Funding 2000/2001 to 2010/2011

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 (2006/07 – 2010/2011) research funding increased from **Tsh 4,455,680,931.00** to **Tsh 12, 205,518,862.00** which is a 173.93% 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 16 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.

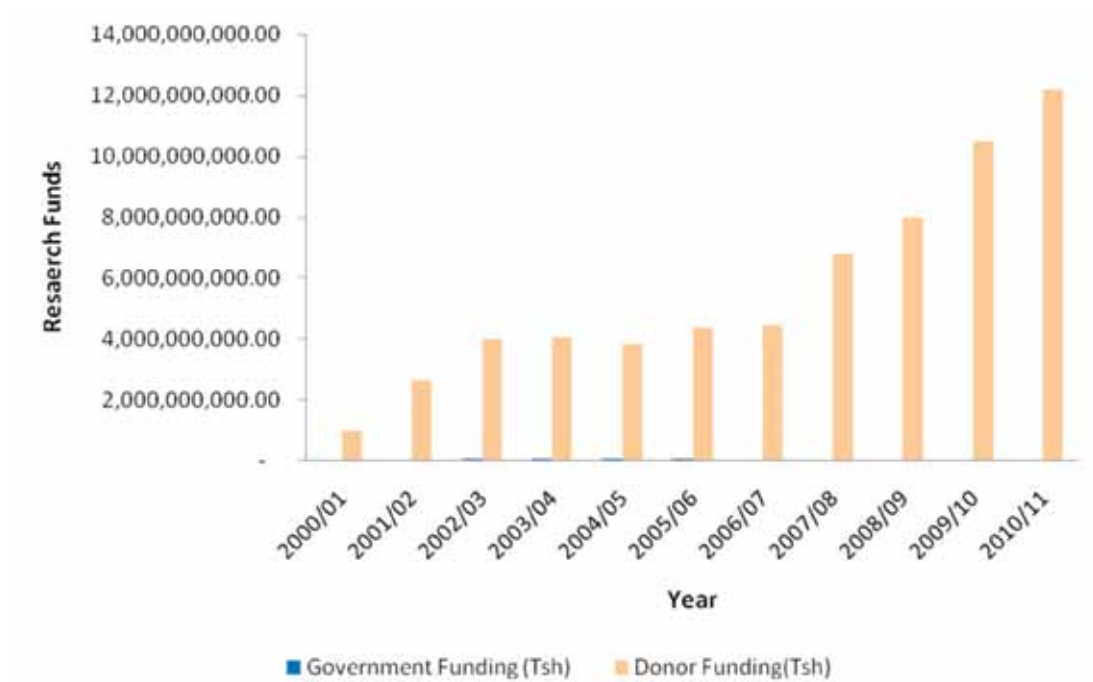


Figure 16: Government and Donor Agencies Allocations of Research Funds to MUHAS 2000/01 to 2010/11

The table below shows the progress of the various research projects during the reporting period 2010/2011

Table 9: Progress Report on MUHAS Projects during 2010/2011

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
1	NUFU: Norwegian Centre for International Cooperation in Higher Education	Dr. K. Mnyika	AFYA KWA VIJANA: A comprehensive school based and health system approach to adolescent health promotion in South Africa and Tanzania	The overall objective of this project is to improve the evidence base for effective health promotion among school aged adolescents in Tanzania and South Africa	
		Dr S. Mamuya	Occupational respiratory diseases among male and female workers in dusty industries in Tanzania	The overall objective of this project is to improve the evidence base for effective health promotion among school aged adolescents in Tanzania and South Africa Build human resources capacity through training at Master and PhD levels	
		Dr. T.W Kohi	Gender, Generation and Social Mobilization: Challenges of Reproductive Health and Rights among Vulnerable Groups in Ethiopia, Sudan and Tanzania	Build technical capacity through developing a field laboratory in Tanzania To produce new knowledge on how societal challenges of poverty, war and HIV and AIDS influence processes of marginalization and exclusion from health systems and care services in Sudan, Tanzania and Ethiopia. To produce historically and culturally appropriate knowledge that can assist grass-roots movements and health systems in their attempts to effectively address the following challenging gendered health issues: mother to child transmission of HIV (MTCT), obstetric fistula(OE/TF), female genital cutting (FGC) and unsafe abortion among vulnerable women and children in Sudan, Tanzania and Ethiopia	

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
2	DANIDA	Prof. A.D.Kiwara	Health Insurance in Ghana and Tanzania: Addressing Equity and Accessibility.	To obtain an overview of the different types of health insurance schemes available and characterize them within the following dimensions: management, organization, technical design, and package offered.	During the past year the project identified two sandwich PhD candidates and sent them to the University of Aarhus Denmark for a course work The project identified field work regions in Tanzania where students will collect data. One PhD. Proposal preparation workshop was held in Aarhus Denmark. Two co-supervisors from the institute of International Health University of Aarhus visited Tanzania and jointly reviewed field work plan with Tanzanian researchers Draft field tools have been prepared and will be one of the items to be discussed in October workshop.
3	Bill and Melinda Gates Foundation	Prof. E. Kaaya	MUHAS- UCSF, Academic Learning Project	To address health workforce crisis in Tanzania through training and education	Good progress. The activities which included staff training, curriculum revision, CPD situational analysis and policy document, and development of ICAD tool were completed and documentation is in progress. CHPE construction of the shell reaching final storey.
4	Dar Dar Health studies- Receiving funds from NIH	Prof M. Matee	Phase III clinical trial evaluating the efficacy of M. vaccae vaccine in preventing disseminated TB in HIV infected adult patients, Tanzania.	The main outcome measures were disseminated (primary endpoint), definite, and probable tuberculosis (secondary endpoints).	This study which aimed at determining whether a multiple-dose series of an inactivated whole cell

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
					mycobacterial vaccine, Mycobacterium vaccae, can prevent HIV-associated tuberculosis has been completed and published (AIDS. 2010 Mar 13;24(5):675-85). The DarDar trial was a randomized, placebo-controlled, doubleblind trial. The study was carried out in outpatient facility in Dar es Salaam, Tanzania. HIV-infected patients with CD4 cell counts of at least 200 cells/ml and a Bacille Calmette-Guérin scar were chosen for the study. The intervention was carried out by random 1:1 assignment to five intradermal doses of M. vaccae or placebo. Results shows that: Immunization was well tolerated, with no adverse effect on CD4 cell count or HIV viral load, and no increase in the rate of serious adverse events. The results further provides evidence that immunization with a whole cell mycobacterial vaccine is a viable strategy for the prevention of HIV-associated tuberculosis
		Prof. N. Mushi	Prevalence of hearing deficits and its association with HIV seroprevalence: A cross sectional study in HIV+ adults with frequency matching to HIV- controls	The objective is to determine how common hearing deficits are in the HIV positive population	

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
		Prof. M. Matee	Effects of Protein Calorie Supplementation on HIV disease in Breastfeeding women and women with TB	To define the dietary intake patterns of the target populations, culturally acceptable PCS and logistics for distribution of the PCS	This study is being done to learn if a nutritional supplement will improve health outcomes in breastfeeding women and their infants. Half the women in the study are given a protein-calorie supplement or PCS (this is a porridge that is mixed with hot water in a thermos we provide) plus a micronutrient supplement or MNS (a vitamin tablet). The other half of the women in the study is given only the MNS. Participation in this study last up to 21 months and involve multiple visits to the study clinic. The study is in its second of a five year period and is still recruiting participants
		Prof. M. Matee	Evaluation of the use of T-cell Xtend reagent with the T-spot.TB test- Dartmouth College/ Tanzania	To evaluate the T- Spot TB test in detecting latent TB and disease among HIV infected children at the DAR- DAR pediatric HIV care and treatment program	This study which involved evaluation of the T-SPOT®.TB is an interferon gamma release assay for detecting Mycobacterium tuberculosis infection has been completed. The investigation involved Addition of T-Cell Xtend™ reagent intended to preserve specimens beyond the usual 8 hours. The study recruited AFB smear positive adult tuberculosis patients in Dar Es Salaam, Tanzania. The results of the study indicate that when T-Cell Xtend™ reagent is added to specimens held overnight at recommended temperatures, T-SPOT.TB is as sensitive as the standard assay in patients with tuberculosis. A manuscript has been prepared and submitted to Int J Tuber Lung Dis

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
5	Sida Support	Prof. E. Lyamuya	Research Capacity Strengthening	Training for Msc. and PhD level Supporting research activities at the University	<ul style="list-style-type: none"> Two ongoing PhD candidates R. Mallya and L. Mashili finalizing their PhD programs. Two candidates Jane Mlimbila and Mboni Rugazia PhD work on progress Two candidates Ramadhani Nondo and Abel Makubi recently received permanent registration One MSc candidate Ignance Alphonse on progress. 3 PhD candidates still on temporary registration Announced more PhD slots and selection procedures underway Office equipment purchased (laptops and storage facilities) Development of Policy and guidelines documents (Research agenda, Research Policy, IRB SOP, IPRP) supported 10 research projects awarded funding from the small research grants initiative Sida semiannual and annual review meetings conducted Inter university Sida research workshop supported Students research activities supported School Research seminars for SOP, SOD, SOM, ITM supported Requisition for purchasing Firewall Network/Centralized, Reference Manager – Endnote and server made

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		Prof. Z. Premji	Malaria Project	To monitor antimalarials drug efficacy and to monitor drug utilization in patients and in the community	Work is ongoing-one MSc PE has defended based on this project work.
		Prof. M. Bakari	HIV/ TB Programme	HIV/ AIDS and TB intervention research projects	Of the 10 PhD students in the sub-programme; <ul style="list-style-type: none"> • 1 has defended (Edith Tarimo) her PhD thesis at KI in May 2011 • 2 (Said Aboud and Gasto Frumence) will defend their theses in Sweden in late 2011 • 4 (Theodora Mbunda, Tumaini Ngu, Agricola Joachim and Helga Naburi) expect to be formally registered at KI in late 2011 • 1 (Emmelia Mushi) had been registered at MUHAS, part 1. • 2 (Patricia Munseri, Matilda Ngarina) are continuing with their research and training
		Prof. A. D. Kiwara	Health Systems Research	The overall project objectives is to investigate and produce evidence (knowledge and insight) on factors influencing the performance of the health system in Tanzania	Two PhD students names: Gladys Mahiti, title of dissertations – Primary Health care Implementmtn: Human Resource Challenge and Dickson Mkoka, title of dissertations: Provision of emergency obstetric care within Tanzania Health System: The role of Health System Governance

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		Prof. S. Massawe	Reproductive Health Projects	Addressing various maternal health problems in Dar es Salaam and Rufiji district and explores various aspects of gender based violence and child sexual abuse in DSM	Fields work in Dar es Salaam has been completed three PhDs completed, and two are scheduled for defense in December 2011. We have recruited three new PhD candidates and one MSC candidate. Initial field visits have been conducted in Rufiji and Kilombero
		Prof. M. Moshi & Dr. E. T. Lwoga	ICT and Library Support	Strengthening of health information and library services in Tanzania	<ul style="list-style-type: none"> • Training was conducted for Academic staff [Senior Lecturers 17 staff] on 19th - 20th May 2011 and librarians on curriculum of books using ADLIB • Conducted a training on Online Reference Management and Advanced Multilingual online 23rd-24th June 2011 • Procured one (1) heavy duty scanner and other 2 normal scanners [HP Scanjet G 4050], 2 LCD TV, 2 10 personal Computer, 50 copies of books of Epidemiology and Demography in Public Health • Acquired 26 book titles with 91 copies • Entered 24,400 book titles into the ADLIB software
6	EDCTP	Dr. M. Janabi	Optimization of tuberculosis and HIV co-treatment in Tanzania and Ethiopia: Pharmacokinetic and pharmacogenetics aspects on drug-drug interactions between Rifampicin and Efavirenz	A multicentre research project between MNH, MUHAS, Karolinska Institute, University of Heidelberg and Black Lion Medical School and St. Peters TB Hospital in Ethiopia	The project received approval of no cost extension till March 2012. Elliford Ngaimisi one of the PhD fellow successful defended his half time dissertation in Karolinska. Second PhD. Fellow Sabina Mugusi half time defence was made in September, 2011

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		Prof. M. Bakari	HIV Vaccine Trial Capacity building in Tanzania and Mozambique by continued exploration of optimal DNA priming and MVA boosting strategies, TaMoVac-01	The overall aim is to build capacity in conducting HIV Vaccine in Tanzania and Mozambique	<p>WP1. HIVIS-03 project has been completed. Final reports have been submitted, and the manuscript is in press</p> <p>WP2. Recruitment of the needed 120 volunteers in MUHAS and MMRP for the TMV-01 trial is complete, follow up continues</p> <p>WP3. The phase I HIV vaccine trial in Maputo has received ethical clearance and screening has started</p> <p>WP4. The feasibility of neonatal HIV vaccination in Maputo has received ethical clearance</p>
		Prof. E. Lyamuya	TaMoVac- 02	The overall aim is to build capacity in conducting HIV Vaccine in Tanzania and Mozambique	<p>1. Protocol for Baseline epidemiological Survey has been developed and undergone ethical review; PhD student finalizing responses to the reviewers</p> <p>2. Protocol for the Vaccine Trial is being finalized ready for submission for ethical review in the second week of October</p> <p>3. Two PhD students recruited; one has recently successfully made her pre-registration presentation and is awaiting registration at Karolinska Institutet in few days to come. The other is due to visit Stockholm in December 2011 for the same but has started training for essential laboratory techniques already</p>

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
7	Muhimbili Research Program- Wellcome Trust- UK	Dr. J. Makani	Defining the spectrum of Sickle Cell Disease in East Africa, A Clinical epidemiological study Sub-study Newborn screening – S Rwezaula Blood Transfusion – E meda	To define the major causes of morbidity and mortality among patients with Sickle Cell disease attending Muhimbili National Hospital.	Data analysis and manuscript development. This funding ended in August 2011. The next phase is referred to as the Muhimbili Wellcome Programme. Fellowship for 12 months secured from KEMRI-Wellcome Programme in Kilifi for S Rwezaula and E Meda
		Profs C Newton, E Kaaya, Drs J Makani, S Cox	Muhimbili-Wellcome Programme (MWP)	To support research in Sickle Cell Disease at MUHAS, with 3 main research areas: Haematology, neurology and Nutrition/physiology.	Funding started 1st August 2011. Continue clinical surveillance of a cohort of 2,500 SCD patients at MNH.
		Professor Charles Newton & Dr. J. Makani	Neurology and neonatal conditions	Neurocognitive disease in Sickle Cell Disease, Epilepsy And Cerebral Malaria	Application for funding developed and submitted. Supporting Dr. Edward Kija to conduct his MMed project in this area. On going project in Ifakara, West Africa. Supporting Dr P Njenje for MMed thesis project.
		Professors C Newton & W Matuja	Epilepsy in Ifakara region	Prevalence, risk factors and mortality associated with epilepsy in Ifakara region.	

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		Siana Nkya	HbF genetics and sickle cell disease	Detailed analysis of genetic factors influencing fetal hemoglobin levels in Sickle cell disease patients in Tanzania	PhD registered at MUHAS. Data collection started. Published one paper as 2nd author.
		Dr S Cox (LSHTM/ MUHAS)/J Makani	Nutrition and nutrient gene interactions in sickle cell disease	To determine the effects of micronutrient status and genes affecting their metabolism on clinical outcomes in SCD	Data collection completed. Publications are still being generated – 3 in 2011 so far.
		Dr S Cox (LSHTM/ MUHAS)/J Makani	V-FIT Vascular Function Intervention Trial in SCA	Double blind randomized controlled trial of a ready to use supplementary nutraceutical food to children with SCA to improve growth and NO-mediated vascular function	Ethical approval and trial registration application to TFDA about to be submitted
		Dr S Cox/J Makani	The relationship between autonomic function, nocturnal hypoxaemia and cerebral blood flow velocity in SCA	To determine the relationship between nocturnal haemoglobin oxygen desaturation, cerebral blood flow velocities and autonomic function in children with SCA.	Data collection completed. Publications are still being generated. 1 published, 2 submitted

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		J Makani, C Newton, E Kaaya, SL Thein, K Marsh	The role of anaemia and foetal haemoglobin in SCD: Clinical epidemiology to establish the evidence base for interventional trials of blood transfusion and Hydroxyurea.	1. What is the spectrum of HbF and how does it relate to severe anaemia and other outcomes in SCA? 2. What is the effect of hydroxyurea on HbF and severe anaemia in SCA?	Received funding from wellcome trust. Protocol being developed for ethical clearance. Optimizing best standard of care.
		Dr. J. Makani & Prof. Kwiatkowski of Oxford University	Malaria genetic epidemiology network (Malaria-GEN)	To characterize the genetic variation in malaria-endemic populations to determine the presence of malaria candidate genes in Dar-es-Salaam, Tanzania.	Data analysis and manuscript development.
8	MUHAS-Harvard, Funds from NIH	Prof. K. Manji, DAIDS	HPTN 046 (HIV Prevention Trial Networks): A phase III trial to determine the efficacy and safety of an extended regimen of Nevirapine in infants born to HIV positive women to prevent HIV transmission during breastfeeding	To assess if Nevirapine administered to children of HIV-positive women throughout breastfeeding for six months (or until cessation of breastfeeding) reduces mother-to-child transmission of HIV via breastfeeding compared to placebo	The trial completed a 6 month follow-up in December 2010 and the primary end point of HIV transmission was analyzed. The PI attended the Unblinding meeting in Washington Dc in December, 2010 and participated in the manuscript and CROI abstract. The findings indicate a significant reduction of MTCT and beneficial effect of Oral NVP and Breast feeding overall. The findings were disseminated to all stakeholders after the March CROI, including the NACP, MoHSW, DMOs, MUHAS Academia and in MUHAS Newsletter . The 18 month follow-up is expected to end in November, 2011, and manuscript for 18 month outcome is in preparation.

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
					After the 18 month study follow-up, filed activities will cease and all activities will focus on data cleaning , while the study will still continue at a lower pace.
		Prof. K. Manji- National Institute of child Health and Human Development, NHH	A trial of Zinc and micronutrients in children, child 2 Sub study: diarrhea etiology	To determine whether the oral administration of zinc and/or a micronutrient supplement (including vitamins C, E, B1, B2, niacin, B6, folate, and B12) to Tanzanian infants and children.	This study randomized 2600 infants and completed the filed activities in May 2011. The Lab data, Case report forms, food frequency questionnaires and other important clinical data are being entered and cleaned. It is about 40% done, and it is our hope that by end of 2011, data entry and cleaning will be over, so unblinding and manuscripts be published.
		Dr. M. Fataki	Effect of Zinc Supplementation on Pneumonia in Children.	To determine effect of zinc as adjuvant in the treatment of pneumonia	Data Collection has been stopped and the study is closing out. There is no cost extension to analyse the serum zinc samples, complete data analysis and write the final report as well as manuscripts for publication.

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
9	PEPFAR	Prof. S. Kaaya	MDH HIV/AIDS Care and Treatment Program	To provide high quality treatment and care to patients with HIV/AIDS, and to undertake operations research on various aspects of HIV/AIDS management; and to provide tuberculosis care and treatment and broader pediatric health services to HIV-infected and HIV-uninfected populations at facilities in Dar es Salaam, Tanzania	Good progress, with more than 100,000 patients registered in care, treatment, and a yearly loss to follow-up rate of about 20%. Four publications during this reporting period addressing mortality and treatment failure, sex differences in treatment outcomes, nutrition and mortality and formative data IEC intervention evaluation. In-service training, clinical monitoring, quality improvement and operations research activities scale-out to district units is completed and limited technical assistance from MUHAS sub-grant focused on laboratory support anticipated for the future.
		Prof. S. Kaaya	Patient Satisfaction and health care workers survey within MDH sites	To identify patients and site factors associated with quality care and improved outcomes in the context of PEPFAR supported MDH HIV and AIDS care and treatment programme in DSM, Tanzania	No cost extension and extension of research activities to private clinics successfully completed and study close out is anticipated in the next few months. Two publications on health care workers engagement in quality improvement; health care workers stress and motivation to provide ART services.
		Prof. S. Kaaya	Patient retention study	This is a comparative, qualitative feasibility study that will explore tracking as a retention intervention by examining two ongoing tracking initiatives. Results will be used to design an "improved" tracking intervention for testing in an experimental trial.	Data collection completed in data analysis and manuscript development phase.

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
10	CDC	Prof. J. Killewo, Pangaea Global AIDS Foundation (PGAF)	Pathways to adolescent health and livelihoods in Tanzania (Youth Health Corp project – YHC)	To recruit young adults aged 18- 26 years with a minimum form IV education to be trained nationally, certified and employed as paramedical healthcare workers to provide prevention, care and treatment services for the integrated management of adult and child illnesses	Research component was not funded and therefore during 2010/11 the project was commissioned by CDC PEPFAR to do a survey of all USG funded partners who are training CHWs in Tanzania to harmonize their training curricula into a nationally recognized, accredited program and ultimately allowing multiple partners to leverage, train and deploy CHWs so that they have a clear career path and proper remuneration. Report will be submitted in August 2011
		Dr. S. Kaaya in collaboration with HSPH	Agents of change protocol	The objective of this multisite study (Tanzania and Uganda) is to enable People Living with HIV/AIDS (PLHA) to serve as change agents within their social networks and communities and to evaluate changes in their perceptions and behavior.	Formative phase in year 1 of implementation is completed and data analysis is ongoing. Good progress and no cost extension has been requested for a third year of implementation.
		Dr. G. Kwesigabo	Violence against Children with a Focus on Sexual Violence: Retrospective Self Reports from 13 – 24 Year Old Males and Females in Tanzania	The study aims at determining the magnitude, risk and protective factors of violence against children (male and female) in both mainland Tanzania and Zanzibar in order to inform efforts by stakeholders to plan targeted interventions and build capacity among local and national agencies to identify, treat and prevent violence against children.	A national probability sample of 3739 study participants (males and females) aged 13–24 years were recruited into the study, data entry, verification and analysis completed. Study findings were disseminated and adopted by stakeholders in August 2011. Stakeholders included several Ministers, and the UN Deputy Secretary General, who was the Chief guest at the launch.

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		Prof Gad Kilonzo – Centre for Disease Control (CDC)	Tanzania AIDS Prevention programme (TAPP)	The Tanzanian AIDS Prevention Project aims to reduce HIV/AIDS transmission in injecting drug users and their networks in Dar es Salaam	Progress made involves acquisition of materials and equipments for the implementation of the project such as vehicles for mobile clinics, kits for safe injecting, identification of storefront and hiring of personnel for prevention work.
		Dr. Candida Moshiri	Postgraduate programme MSc Applied Epidemiology and MSc Epidemiology and Laboratory Management	Training	The third cohort of 12 trainees (6 Applied Epidemiology, 4 Lab Management) enrolled in 2010. Fourth cohort of 13 trainees to enroll in 2011
11	Amsterdam Medical Center (AMC)	Dr. S. Kaaya	An examination of the candidate gene and susceptibility loci for schizophrenia in Dar es Salaam and Kilimanjaro regions in Tanzania	The primary objective is to identify SNPs associated with schizophrenia in a population of Bantu persons of Chagga and Pare parentage living with Schizophrenia and in ethnicity and sex matched controls without schizophrenia in the Kilimanjaro region.	Closed out. In manuscript development phase

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
12	National Institutes of Mental Health (NIMH) in collaboration with medical University of South Carolina (MUSC)	Dr. J.K.K. Mbwambo	Project Accept: Community based voluntary counseling and testing (CBVCT) In collaboration with the University of South Carolina	To determine the impact of mobile VCT, post-test support services (PTSS) and community mobilization activities on HIV incidence rates in communities.	<ul style="list-style-type: none"> Baseline Survey Conducted; data analysis and manuscript development in progress Four waves of Ethnographic data collection for same over 100 persons conducted, data translated, data being coded, data analysis and manuscript development in progress 36 months of CBVCT and SVCT in 5 pairs of Kisarawe communities Pilot of Post Intervention Assessment (PIA) in progress PIA staff currently in training for the end line slated to start in mid January 2010
13	DfID/ESRC small grants budget through London School of Hygiene and Tropical Medicine	Dr. J.K.K. Mbwambo/ Dr S L Likindikoki	Intimate partner violence in urban and rural Tanzania	To improve the understanding of the relationships between women's empowerment and risk of physical and sexual partner violence and examining the policy and concept implications in Dar es Salaam and Mbeya	<ul style="list-style-type: none"> Data collected: 12 FGD and 35 in-depth interviews among women and 7 FGD and 18 in-depth interviews among men in Dar es salaam and Mbeya Data transcribed and translated into English Coding using NVIVO in progress Data analysis plan in progress
14.	Family Health International	Dr. S. Kaaya	Adolescent women and Microbicide trials: Assessing the challenges and opportunities to their participation	To determine whether and how HIV risk characteristics of young women differ by younger (15-17) versus older age groups (18-21)	Study is in third and final year of implementation. Phase 3 data collection is ongoing. Recruitment challenges but generally there is good progress. Data analysis and manuscript development of phase 1 is in progress

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
15	National Institutes of Health (NIH) in collaboration with University of North Carolina (UNC)	Dr. J.K.K. Mbwambo /MS K Maonga	Identifying venues to prevent HIV and violence for youth in Tandale district, Dar es Salaam.	To examine the feasibility and acceptability of a venue based community popular opinion (CPOL) intervention in identifying and characterizing venues where men at high risk for HIV acquisition socialize	<ul style="list-style-type: none"> • Mapping of venues that young men congregate concluded • Young men in venues interviewed using both qualitative and quantitative methods using the PLACE methodology • Pilot intervention to start January 2010.
16	DFID and British Council through DelpHE	Prof. E. Kaaya	Dar-Oxford Link: Translating Knowledge into Practice	To improve Human Resource for Health by improving CPD which will allow provision of sustainable quality health services and reduce infant and maternal mortality	On schedule. Several audits and scale up workshops conducted for Hematology and Blood Transfusion staff. DCEPD web site updated. Project Final report in preparation for closure on September 30, 2011.
17	University of Michigan-Forgarty International Center	Mr. Yahya Kishashu	Collaboration/ Environmental and Occupational Health capacity building Project - MUHAS- BARRICK	The aim of this project is to establish collaboration between Muhimbili University of Health and Allied Sciences (MUHAS) and Barrick Tanzania Gold, with mutual interest in areas of research, development, education, and training.	<ul style="list-style-type: none"> • 5 PhD Scholarships to enable doctoral studies in South African universities. • Basic industrial hygiene monitoring equipment (sound level meter, light meter, indoor air quality meter) procured. • One scholarship from ABG (\$ 80,000.00) to enable postgraduate studies in occupational medicine in South Africa. • 24 students from MUHAS have benefited from practical training in the mines owned by African Barrick Gold.

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
18	NOMA Training Support	Prof. W. Matuja	Post graduate Programme MSc Internal Medicine (MSc Cardiology and MSc Nephrology) MMED Radiology	Scholarships for training students in MSc in Cardiology, Nephrology & Radiology	<ul style="list-style-type: none"> • 2 candidates completed MSc Cardiology • 1 candidate completed MSc Nephrology • 2 candidates second cohort final year MSc cardiology • 1 candidate commenced this year 2009/10 MSc Nephrology • 4 candidates first cohort are due to finish 2009/10, second and third cohort has a total of 8 candidates due to finish 2010/2011 and 2012.
		Dr. M. Mwangu	MA in Health Policy and Management	Scholarship for training students in MAHPM and staff capacity development	The fourth and last NOMA supported group of 10 students was enrolled for the program. Meanwhile two cohorts have graduated in 2009 and 210 respectively and all graduands have been absorbed in the labour market. The entire program is now taught at MUHAS.
19	German Research Foundation	Prof William Matuja	Neurocystercosis and Epilepsy in urban and rural Tanzania	To determine the prevalence of Epilepsy in Kinondoni district	<p>To determine the contribution of Neurocystercosis as preventable and treatable cause of epilepsy</p> <p>To determine the relationship of epilepsy due neurocystercosis and HIV infection in Mbulu district</p> <p>To Evaluate the KAP in secondary school children towards cysticercosis in Mbulu district Screening for seizures in each member of households commenced in April 2010 and has just ended On 31/072010</p>

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
20	WHO, University of Dublin, LSHTM.	Dr. I. Semali	Effects of global Health Initiatives on HIV/AIDS to the use of the health system. The case of HRH in Tanzania.	To determine the effect of increased global funding for HIV/AIDS on the use of health system.	Final wave finished data analysis and report writing progressing well.
21	ABBOTT	Mrs. R. C. Mallya	Library Support	<ul style="list-style-type: none"> • Exchange program for library staff • Training of e-resources • Strengthening of current awareness services • Purchase of medical books 	The Project ends in 2007
22	NIH/ NCHID	Prof. Z. Premji	Malaria I: Prenatal Iron supplements: Safety and Efficacy in Tanzania	To determine the safety of iron supplementation among pregnant Tanzania women as measured by the incidence of placental malaria, maternal hemoglobin concentrations and infant birth weight.	Patient enrollment is ongoing. Yet to reach the estimated sample. Placenta collection has now started.
23	MUHAS- Stanford University Collaboration	Dr. Larama Rongo	Child health status in relation to quality of water and sanitation in peri urban Dar es Salaam	The research will help to identify the cost effective approaches to reducing childhood mortality from water- sanitation related disease	Completed

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
24	NIH/ Forgarty International Center	Prof. F. Mugusi	International Clinical, operational and Health system Research Training on AIDS and TB (ICOHRTA)	Training of researchers in Tanzania	Commenced in October, 2009. Implementation in progress
		Prof. M Aboud	IEARDA	Building Research Administration at MUHAS	<ol style="list-style-type: none"> 1) IEARDA institutionalized and acknowledged by MUHAS management 2) Vice Chancellor appointed five member advisory board and steering committee 3) Institution research management and administration reviewed. 4) Roles, responsibilities, functions and standard operating procedures (SOP) for each of the three units drafted 5) One senior research administrator hired to head the IRB, two to be recruited in near future. 6) Research administrative policies, procedures, regulations and SOPs have been reviewed and updated. New ones drafted. 7) Creation of centralised institution research database (repository) for reporting, tracking, disseminating research information and showcasing research portfolio has started and is progressing well (see table 6) 8) Three oral presentations by IEARDA Principal Investigator were made at conferences/workshops and two manuscripts for journal publications are in preparation

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
25	DELPHE-BC	Dr. P. Kazyoba (ITM)	Adding value to purification and Anti-TB screening of natural products derived from Tanzanian Medicinal plants	The overall objective of this project is to establish antimycobacterial screening assays at ITM	<p>9) Several teleconferences with partners; Dartmouth, UCSF, Harvard and NICHHD staff. Aiming at reporting progresses, challenges and future plans.</p> <p>10) Principal Investigator travelled to several sites for the purpose of training, networking, meetings and conference. This includes Washington DC, Kampala, J'Burg and in June will attend seminar on 'Ethical issues in global health research' to be held at Harvard school of public health in Boston, USA.</p> <p>11) Senior legal officer MUHAS appointed as focal person for all matters regarding Intellectual Property Rights (IPR).</p> <p>The project is progressing well. Analytical equipments to support the thio-enzyme assays and other experiments at ITM have been procured and working properly.</p>
26	PREPARE Project, In-collaboration with University of Bergen: Funds from the EU	Prof. S. Kaaya	Promoting sexual and Reproductive Health amongst Adolescents in Southern and Eastern Africa	The purpose for this grant is to develop research based culture and gender sensitive sustainable community based interventions In second year of implementation with good progress.	Intervention phase is due to start in 2012 as scheduled. Data analysis and manuscript development of phase 1 is in progress

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
27	WHO	Dr. M. Fataki	An operational study on the management of acutediarrhea in Tanzania	The study will compare the adoption and use of the new recommendations for the management of diarrhoea	Upgrade of the lab and procurement and installation of priority equipment completed. Onsite training of internal staff was completed
28	Action Medeor International Health- GTZ	Dr. Eliangiringa Kaale/ Dr Chambuso	To upgrade the analytical lab at the MUHAS School of Pharmacy and strengthen drug dvt and pharmaceutical education at MUHAS	Development and validation of stability indicating assay method for new generic triple ARV combination	Pre-formulation study for Tenofovir was completed and for Efavirenz 600 mg is on going Maters student completed her thesis " Development and Validation of Assay and Dissolution Method for Fixed Dose Combination of Lamivudine, Tenofovir and Efavirenz Tablet"
29	Medico Mundi/ Action medeor	Dr. Eliangiringa Kaale/ Dr Chambuso	Pediatric ARV formulation development study	Objective of the project is the preparation of a liquid oral form of acceptable taste, of an adequate homogeneous distribution of the three components during administration and of adequate stability under tropical conditions for approximately 4 weeks. The targeted dosage form will be a suspension containing all respective NRTIs in dissolved	Preparatory phase

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
30	University of Bergen collaboration-Funds from the Research Council of Norway	Dr. DCV Kakoko	Health Promotion Dignity and Human Rights	To analyse International, National and local legal framework to discover whether they operate within a human right framework and whether the application of human rights promotes maternal health in Tanzania	Developed the proposal and tools for data collection. We submitted the proposal for ethical review and received comments from two reviewers. We are currently working on the comments from reviewers.
31	Johns Hopkins Collaboration-Funds from United States Agency for International Development (USAID)	Dr. J. Mbwambo	Understanding and Interpretations of communication campaign messages about concurrent partnerships, acute HIV infection and sexual networks	Explore how individuals in Botswana and Tanzania understand and interpret communication campaign messages on concurrent partnerships	
32	Johns Hopkins collaboration	Prof. J. Killewo	Morogoro Evaluation	The goal of the evaluation is to improve maternal, newborn and child health outcomes in Tanzania	Ethical approval from MUHAS and letter of support from the MOH&SW were obtained in May 2011 and training of field workers was conducted in June ready to start work in Morogoro in July

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
33	European Union	Dr. E. Mbagi	APARET	The project aim at building research and epidemiological capacity of graduates of masters in applied epidemiology and laboratory management	This is the first year of the project a call for recruitment of fellows has been released. Three prospective fellows have applied from our MUHAS graduates in MSc. Applied epidemiology. Review of all applications from MUHAS and partners planned in October.
		Dr. E. Mmbaga	ARCADE	The project aim at building capacity of African institutions in health system research	This is the first year of the project and review of health system research capacity of participating institutions has been completed. Data analysis of the situation assessment is ongoing.
34	Wellcome Trust Capacity Strengthening in African Institutions	Dr. C. Moshiri	MUHAS/ AFRIQUE ONE PROJECT	To enhance potential researchers and institutions with a focus on zoonotic diseases to attract grant funding independently and to develop their own research agenda	Postdoc fellow working on review paper. MSc student finalizing research proposal. Data collection to begin in October 2011.

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
35	COSTECH	Dr. Z. H. Mbwambo	Formulation and standardization of herbal medicines from Garcinia and Combretum plant species growing in Tanzania for managing HIV/AIDS and related symptoms	The aim of the study is the use of herbal medicines in managing HIV and AIDS	<ul style="list-style-type: none"> Funds for the 1st quarter received Purchased 1 PC and a laptop and 1 complete Rotor evaporator was ordered Two field exploration for collection of plant materials for formulation of HIV/AIDS herbal products accomplished
36	DELPHE-BC	Project Ms Rehema Chande-Mniallya	DELPHE Support	Strengthening of health corner in library services of Tanzania	<ul style="list-style-type: none"> Workshop Training for Librarians, clinicians and academic staff on Evidence Based Practice held on 27th March-6th April 2011 Exchange programme for UK-Tanzania visits April 2011 3 staff from UK, RCOG and PHI visits Tanzania for exchange programme Paper presentation on Strengthening of health Information and Library Systems in Africa through Capacity Building and partnership working: A case study in Tanzania.

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
					<p>Health Libraries Group Conference in Manchester , UK July 2010</p> <ul style="list-style-type: none"> • Poster presentation on IFLA(International Federation of Library Associations and Institutions) Conference and Assembly, 10-15th August 2011, Gothenburg, Sweden • Construction and updated Library website, Delphe website and health Corner website • Collecting health information materials for Health Corners for ; TLSB -Central Library, Dodoma library , Morogoro library and MUHAS library • Exchange programme for Tanzanian –UK visits 1st October -9th October 2011

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
37	European Union	Prof. MT Leshabari	EAR-HEALRTH (Postgraduate Short Course Training)	To Strengthen capacity of health workers in working towards achieving MDGs in the EA Region by increasing their knowledge and skills in managing decentralized health services and improving public health practices	Three courses were covered under this project. Health of Displaced populations, leadership and quality management and reproductive health and HIV/AIDS. Training trainers was also covered and the courses were run in Makerere University (Uganda), Moi University (Kenya) and MUHAS in collaboration with Heidelberg University in Germany. The last course under this project was conducted in May 2011.
38	European Union	Prof. M.T.Leshabari	Quality of prenatal and maternal care: Bridging the know-do-gap	This is a collaborative intervention study involving researchers from Tanzania, Ghana and Burkina Faso. The major objective of this project is to improve maternal and neonatal health by raising the level of motivation of health care workers who provide maternal and neonatal care in health centers. The project site in Tanzania is in Lindi and Mtwara Regions	Collection of baseline data was completed and CDSS prototype was developed. Analysis of baseline data is on going and interventions are scheduled to start from October, 2011.

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
39	PEPFAR-PHE	PEPFAR-PHE	Evaluation of MDH patient retention quality improvement intervention	To describe patients perception and how it impact on communication between patients and health care worker providers and its association between communications related to adherence to clinic visits	In study start up phase. Awaiting ethical clearance
40	MUHAS-Harvard Collaborative research project	Prof. J. Killewo	DAR COHORT STUDY	To establish and maintain a health and demograohic surveillance system for the study of environmental exposures among residents of all ages in DSM region	The DSS is being established in the Ukonga ward of Ilala district. Ethical clearance from NIMR and letters of permission from Dar es salaam region and Ilala district council were received in August and November 2011 respectively. Despite delays caused by the bomb explosion in Ukonga in February 2011 we managed to train field workers and initiate baseline data collection in May 2011. By end of June we had collected data from over 3000 households.

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
41	FHI/CDC	Dr Gideon Kwesigabo	Adult Retention and Adherence to ART therapy	<p>The main objective of this research study is to assess adherence characteristics across a sample of ART programs in Tanzania, Uganda and Zambia.</p> <p>The specific study aims are to:</p> <p>Characterize the current level of adherence of patients on ART across multiple program settings; Identify individual modifiable risk factors for poor ART adherence; Identify programs with greater or lesser success in promoting ART adherence; and to assess the validity of the following adherence measures against the referent measure of home based pill counts: patients self-reports, provider reports, and pharmacy dispensing data.</p>	<p>Data abstraction, entry and verification for the retention piece has been completed total sample 1500. Data analysis for this component has started.</p> <p>Data collection, entry and verification and viral load testing for the adherence piece are ongoing.</p>
42	CDC/ PEPFAR Boston University School of Public Health, Dartmouth Institute for Health Policy and Clinical Practice	Dr Gideon Kwesigabo	Building capacity for HIV/AIDS human resources at the Muhimbili School of Public Health and Social Sciences	<p>The focus of this cooperative agreement is to enhance MUHAS School of Public Health and Social Sciences (SPHSS) ability to contribute to the development of Tanzania healthcare systems through its training in Public Health. Through the support of this grant, the SPHSS pre-service training programmes</p>	<p>Public Health Core curriculum development for 7 Master Programmes is ongoing, staff are being trained in the implementation of skills and competence based curricula including student centred training approaches, case studies to be used in training have been developed, continuing education for faculty has included: effective student dissertation and thesis supervision, data management, use of e-learning platforms and social computing.</p>

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
				will be able to admit and train an increased number of students in terms of quality, quantity and diversity to meet the demands of health sector. In addition, the SPHSS's ability to play a leadership role with regard to national curriculum development, implementation of state of the art training methodologies, capacity building of government health officials to successfully manage regional and district programmes, as well as translating operational research into policy will also be strengthened. A small component will also address infrastructural development towards improving the learning environment	Two class-rooms and two offices have been renovated at MUHAS. Four student accommodation houses have been renovated at the Bagamoyo outreach teaching Unit. Over 50 computers, 9 LCDs, 70 tables and 140 chairs have been purchased to enhance the learning environment and approximately 600 books (45 titles) have been ordered.
43	MUHAS-Fred Hollows Foundation	Dr. A. Sanyiwa	Outreach Programme to provide quality practical training to Ophthalmology students	The goal is to contribute to the quality and effectiveness of surgical eye care in sub Saharan Africa through enhanced training of ophthalmologists	

S/N	Project donor/Link	Name of PI	Main Project title & Sub-Projects	Brief Project Summary/Objectives	Progress in 2010/2011
44	AIRES SUD Supported Project	Dr. M. Njelekela	Air Pollution and Health Effects in Dar es Salaam, Arusha and Mwanza	To explore the extent of air pollution in the major cities of Tanzania	Two DustTrak model 8520 monitors (TSI inc, Shoreview, Mn) for continuous, parallel measurement of PM2.5 and PM10 were bought. Data collection on particulate matter and respiratory health effects was done in Arusha and Dar es Salaam. Traffic density of Dar es Salaam city has been collected while waiting for gases instruments Currently purchasing two ambient air monitors for Phase two of study Two manuscripts in final stage of preparation
45	Public Health Evaluation PEPFAR funding in Collaboration with HSPH	Dr. S. Aboud	Resistance sub study for TOV 3	To evaluate patterns of antiretroviral drug resistance and predictors of treatment failure and resistance among a cohort of HIV 1 infected patients with first line ART failure in a resource limited setting	Genotype testing on 92 samples from patients with antiretroviral failure has been done. We expect to complete all genotype testing on the patient samples by December 2011. Collection of all patient data is also expected to be completed by this date. We expect to complete all data analyses by January 2012

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
46	MUHAS-HARVARD	Prof. E. Mugusi	A trial of Vitamins and HAART in HIV disease progression(TOV 3)	To examine the effects of multivitamins (including B, C, and E) on HIV disease progression among HIV-positive Tanzanian adult men and women taking highly active antiretroviral therapy (HAART)	Completed
47	MUHAS-HARVARD	Prof. J. Killewo	MUHAS-Harvard Public Health Informatics Training Program	The main aim is to train Tanzanian professionals in Monitoring and Evaluation.	Due to limited funding the project was able to conduct training in quantitative methods only. This was a short course and mainly attended by postgraduate students. Other trainings were conducted by other MUHAS Harvard projects such as ICOHRTA and GID and Informatics provided technical support

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
48	LIPHEA School of Public Health in Uganda, Kenya, Tanzania, Ethiopia, Rwanda and DRC.	Prof. J. Killewo	Leadership Initiative for Public Health in Africa	Initiate activities focusing on leadership training in the health system; teaching public health leadership to both undergraduates and postgraduates; facilitating inter-institutional collaboration to optimize resources; disseminating research findings to a wider audience and to implement a Health Emergency Management (HEMP) Project	HEMP conducted two short courses in health emergencies with participants from districts prone to disasters. Over 60 participants attended. LIPHEA final evaluation was conducted and report submitted. One Health initiative was launched in the East, Central and Eastern Africa region in six countries including Uganda, Kenya, Tanzania, Rwanda, Ethiopia and Rwanda. Country Coordinating Committees were formed by members from relevant government ministries to take the initiative forward. Schools of Public health and Veterinary schools are collaborating to address emerging pandemic threats in the region.
49	Swiss Development Cooperation Renovation of Herbal Laboratory (SDC)	Prof. M. Mushi (Institute of Traditional medicine)	ITM Laboratory renovation	Capacity building/Lab renovation	Project is closed since July, 2010

S/N	Project donor/Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
50	WHO	Dr. E. Mbaga	Pediatrics drug formulation survey	The project seeks to determine the current administration practices and preferred formulations of childrens medicines in Tanzania	Project ended in October 2010. data analysis complete and 3 manuscripts are in the final review before submission to peer review journal.
51	Bill and Melinda Gates Funds	Prof. Z. Premji	Gates Grand Challenge 13: Population Health Metrics Research Consortium	To improve strategies for population health measurement	Project is now closed-end report has been submitted. The first publication is out.
52	MUHAS-Harvard	Prof. F. Mugusi	Effect of Vitamin A and Zinc on Placental Malaria among pregnant women attending Antenatal Clinic	Four years project. Intend to see the effect of Vitamin A and Zinc on Placental Malaria among pregnant women attending Antenatal Clinic	Completed
		Dr. S. Aboud	A trial of micronutrients and adverse pregnancy outcomes	To determine whether oral administration of multivitamin supplements taken during pregnancy reduce fatal loss, low birth weight and pre- term birth	Study procedures for the trial have ended. One paper was published. Analysis of data and specimens is ongoing.

S/N	Project donor/ Link	Name of PI	Main Project title & Sub- Projects	Brief Project Summary/ Objectives	Progress in 2010/2011
		Dr. S. Aboud	Vitamins, Breast milk and HIV shedding	1. To determine whether oral administration of vitamin supplements to HIV infected women during pregnancy and lactation decreases the amount of HIV shed in breast milk at 0, 3 and 6 months postpartum 2. To examine the impact of supplementation on the concentration of nutrients in breast milk and the risk of mastitis	Data analyses have been completed, 3 papers were published and the study closed out in 2010.
53	Family Health International	Dr. E. Mndeme/ Dr. J. K. K. Mbwambo	Social and contextual predictors of male heterosexual risk behavior in Africa, MAN study	Describe social networks of heterosexual men at high risk for HIV acquisition and transmission in Ghana and Tanzania	Completed
54	National Institute of Drug Abuse (NIIDA) in collaboration with the University of Texas at Houston and MUHAS, Tanzania.	Prof. G. Kilonzo	Tanzania Injection Use Prevention Programme (TIPP) – Reliability and Validity Study.	The purpose of this study, the Tanzanian Drug Treatment as HIV/AIDS Prevention Project (D-TAPP) - Reliability and Validity Study, is to conduct formative research necessary to the implement of drug treatment as an HIV prevention intervention in Dar es Salaam, Tanzania by testing the reliability and validity of the instruments.	Completed
		Prof. G. P. Kilonzo	Young Injectors Study Progress	Progress made involves completion of data collection.	Completed

6.3 Publications

During the reporting periods MUHAS academic community continued to carry out research and to publish. The histogram below shows the trend of publications at MUHAS from 2001 to 2010. The number of publications increased to 277 in 2010/2011 compared to 204 in 2009/2010. There is a notable increase of 35.8 % in publications compared to the previous year.

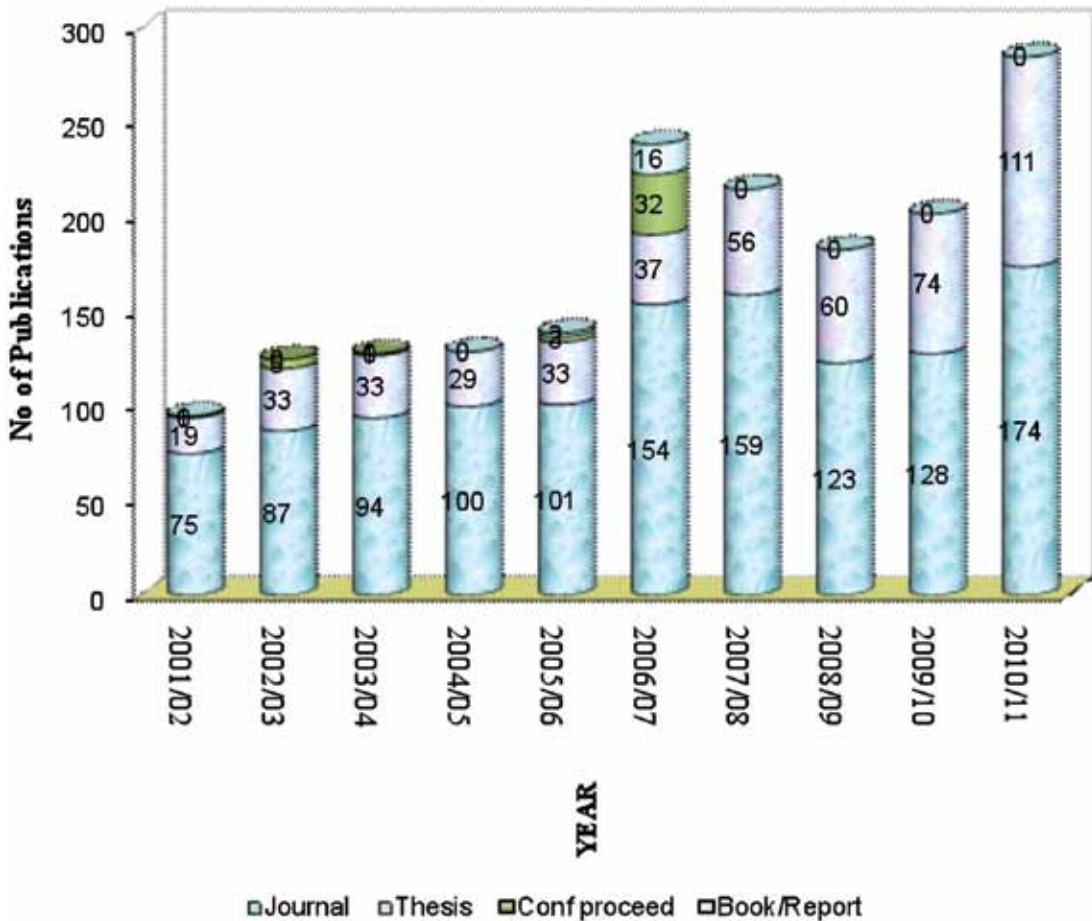


Figure 17: Trend of Publication at MUHAS from 2001 - 2010

6.4 Journal Articles in 2010/2011

During the reporting period the University produced 167 publications and 111 dissertations, 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.

6.3.1 List of Publication of Journal and Articles During 2010/2011

S/ No	Author	Title & Journal
1	Moyo,S J; Aboud S ;Kasubi M; Maselle.	Bacterial isolates and drug susceptibility patterns of urinary tract infection among pregnant women at Muhimbili National Hospital in Tanzania SY. <i>Tanzania. Journal of Health Re;.</i> 12(4): Oct. 2010
2	Mbwambo Z.H., Erasto P, Nondo R.S.O., Innocent E and Kidukuli A.W.	Antibacterial and Cytotoxicity Activities of Terminalia stenostachya and Terminalia spinosa. Tanzania Journal for Health research 13(2): 1- 8; 2011
3	Said S.A., Moshi M.J., Nondo R.S.O, Masimba P.J., Innocent E and Guantai A.	Evaluation of the Potential of the Marine Sponges of the Zanzibar Island to yield Antimalarial and Antimicrobial Active Compounds. Tanzania Journal for Health research; 12:195-202; 2010.
4	Nondo R.S.O., Mbwambo Z.H., Kidukuli A.W, Innocent E.M., Mihale M.J., Erasto P and Moshi M.J	Antimicrobial and Brine shrimp Activities of Extracts from Cissampelos mucronata and Tephrosia villosa from Cost region, Larvicidal, Tanzania. BMC Compl. Alter Med; 11:33; 2011
5	Moshi M.J., Innocent E., Magadula J.J., Otieno D.F., Weisheit A., Mbabazi P.K and Nondo R.S.O	Brine Shrimp Toxicity of Some Tanzanian Plants used as Traditional Medicines in Kagera region, North Western Tanzania. Tanzania Journal for Health research 12(1): 63-67. 2010;
6	Moshi M.J., Innocent E., J., Otieno D.F, Weisheit A., Magadula J. J., Nondo R.S.O., Otieno D.F, Weisheit A and Mbabazi P.	Antimicrobial and Brine Shrimp of Acanthus pubescences Root Extracts. Short Communication: Tanzania Journal for Health research; 12(2). 2010
7	Magadula, J.J., Suleiman H.O.	Cytotoxic and anti HIV activities of some Tanzanian Garcinia species. Tanzania Journal of Health Research, 12, 144-149. (2010),

Publications in Regional Journals

8	Mayige M., Urassa D., Ezekiel, MJ., & Ramaiya K.	Quality of diabetes care in Mwanza municipality Tanzania. East African Medical Journal. (2011)
9	Mgomella GS, Venkatesh PA, Mwakagile D, Bosch RJ, Urassa W, McIntosh K, Hertzmark E, Msamanga G, Fawzi WW	The use of total lymphocyte count as a surrogate for low CD4+ T lymphocyte cell counts among HIV-1-INFECTED WOMEN IN Tanzania.. East Afr J Public Health. June, 2010.
10	Makuwani AM, Massawe SN, Mpembeni R, Shekimweri A.	Setting an emergency obstetric care unit local initiatives, availability of resources and good will are the main ingredients of success: a lesson from Mkuranga District Hospital, Tanzania. East Afr J Public Health.;7(2):109-13. PubMed PMID: 21413586. Jun, 2010.

Publications in International Journals

11	Prof Temu, K.D. Mwambete and S. Peter.J.	Prevalence and Management of Intestinal Helminthiasis Among HIV- Infected Patients at Muhimbili National Hospital- Int Assoc Physicians AIDS Care (Chic). May-Jun, 2010
12	A.B. Kagashe, Omary Minzi and Lloyd Matowe.	An assessment of dispensing practices in private pharmacies in Dar-es-Salaam, Tanzania-Godeliver Int J Pharm Pract.;19(1):30-5. Feb, 2011
13	Julie, Stephan Menzel, Siana Nkya, Sharon E. Cox and et al.	Genetics of fetal hemoglobin in Tanzanian and British patients with sickle cell anemia. Med - indexed for MEDLINE]. 117(4):1390-2. Epub PMID:21068433[Pub Jan, 2011
14	Sabrina J Moyo, Said Aboud, Mabula Kasubi, Eligius F Lyamuya and Samuel Y Maselle.	Antimicrobial resistance among producers and non-producers of extended spectrum beta-lactamases in urinary isolates at a tertiary Hospital in Tanzania. BMC Res Notes Dec, 2010
15	Sabrina J Moyo, Mecky I Matee, Jesse Kitundu et al	Age specific aetiological agents of diarrhoea in hospitalized children aged less than five years in Dar es Salaam, Tanzania. BMC Pediatr. 23;11-19 2011 Feb
16	Angelo S Nyamtema, David P Urassa et al.	Factors for change in maternal and perinatal audit systems in Dar es Salaam hospitals, Tanzania.-, BMC Pregnancy June 2010 and Childbirth
17	Jennifer Davis, Simon Mamuya et al	The Effects of Informational Interventions on Household Water Management, Hygiene Behaviors, Stored Drinking Water Quality, and Hand Contamination in Peri-Urban Tanzania. [PubMed - PMID: 1292883 (Pub Med – Indexed for MEDLINE] PMID Nov, 2011.

18	Bergmark Regan, Fataki Maulidi Janabi Mohamed et al.	Burden of Disease and Barriers To the Diagnosis and Treatment of Group A Beta-Hemolytic Streptococcal Pharyngitis for the Prevention of Rheumatic Heart Disease in Dar Es Salaam, Tanzania., Pediatric Infectious Disease Journal Dec 2010
19	Rebekka König, William Matuja Et Al.	The role of Onchocerca volvulus in the development of epilepsy in a rural area of Tanzania.. PMID: 20388236 [PubMed – indexed for MEDLINE] April, 2010
20	Joanne E. Arsenault,Said Aboud,Karim P. Manji, Wafaie W. Fawzi and Eduardo Villamor.	Vitamin Supplementation Increases Risk of Subclinical Mastitis in HIV-Infected Women. -, J Nutr. Epub 25.PMID: 20739447 140(10):1788-92August 2010.
21	SE Cox, J Makani, et al	Nocturnal haemoglobin oxygen saturation variability is associated with vitamin C deficiency in Tanzanian children with sickle cell anaemia. Acta Paediatr 100 (4):594-7. doi: 10.1111/j.1651-2227.2010.02078.x. Epub. PMID: 21091961 [PubMed - indexed for MEDLINE] 23 Nov, 2010
22	Andrea B Pembe.	Quality of antenatal care in rural Tanzania: counseling pregnancy danger signs. BMC Pregnancy and Childbirth, July, 2010.
23	Said Aboud, Karim P Manji et al,	Effect of vitamin supplements on HIV shedding in breast milk. - Eduardo Villamor, 92(4):881-6. Epub 25 Aug, 2010
24	Karen MI Moland, Sebalda C Leshabari et al,	Breastfeeding and HIV: experiences from a decade of prevention of postnatal HIV transmission in sub-Saharan Africa. BMC Pregnancy Childbirth. 10:35. 1 October, 2010.
25	Eliangiringa Kaale, Peter Risha and Thomas Layloff.	TLC for pharmaceutical analysis in resource limited countries. - Dec 2010. Am J Clin Nutr. 92(4):881-6. Oct; 2010
26	Kosuke Kawai, Gernard Msamanga et al.	Sex differences in the effects of maternal vitamin supplements on mortality and morbidity among children born to HIV-infected women in Tanzania. British Journal of Nutrition 103: 1784–1791; (2010),
27	Mbugi, Erasto Vitus PhD1; Chilongola, Jaffu Othniel PhD2.	Allergic Disorders in Africa and Africans: Is It Primarily a Priority? - May 2010.World Allergy Organization Journal: - 175-181 May, 2010
28	Roland Kupka, Gernard I. Msamanga, Et al,	Predictors of stillbirth among HIV- infected Tanzanian women. Public Health Nutr. 13(2):289-96. Epub 4Aug, 2009.
29	Astrid Blystad, Sebalda C Leshabari et al.	Reflections on global policy documents and the WHO's infant feeding guidelines: lessons learnt. Int Breastfeed J. 26; 5:18. Oct, 2010
30	Daudi O Simba, Deodatus C Kakoko et al.	Understanding caretakers' dilemma in deciding whether or not to adhere with referral advice after pre-referral treatment with rectal artesunate., Malaria Journal, 9:12 2010

31	Atsumi Hamada, Marina Njelekela et al.	Deterioration of traditional dietary custom increases the risk of lifestyle-related diseases in young male Africans. -, J Biomed Sci. 24; 17 Suppl 1:S34. Aug, 2010
32	Mosha F, Urassa W, Aboud S, Lyamuya E, Sandstrom E, Bredell H, Williamson C.	Prevalence of Genotypic Resistance to Antiretroviral Drugs in Treatment-Naive Youths Infected with Diverse HIV Type 1 Subtypes and Recombinant Forms in Dar es Salaam, Tanzania. AIDS Res Hum Retroviruses. AIDS Res Hum Retroviruses. 27(4):377-82. doi: 10.1089/aid.2010.0113 Apr, 2011
33	Nsojo A, Aboud S, Lyamuya EF.	Comparative evaluation of Amplicor HIV-DNA test, version 1.5 by manual and automated DNA extraction methods using venous blood and dried blood spots for HIV-DNA PCR testing. Tanzania Journal of Health Research, 12(4):1-5; 2010.
34	Eligius F. Lyamuya, Sabrina J. Moyo, Martin Haule and Ewald V. Komba.	Prevalence, Antimicrobial resistance pattern and associated Risk factors for Bacteriuria in Diabetic women in Dar es Salaam, Tanzania.. African Journal of Microbiology Research. 5(6): 683-689; 2011
35	Mshana SE, Imirzalioglu C, Hain T, Domann E, Lyamuya EF Chakraborty T.	Multiple ST clonal complexes, with a predominance of ST131, of Escherichia coli harbouring bla(CTX-M-15) in a tertiary hospital in Tanzania., Clin Microbiol Infect. doi: 10.1111/j.1469-0691. 2011.
36	Stephen E. Mshana, Lisa Gerwing, Mercy Minde, Torsten Hain, Eugen Domann, Eligius Lyamuya,	Trinad Chakraborty, and Can Imirzalioglu. Outbreak of a novel Enterobacter sp. carrying blaCTX-M-15 in a neonatal unit of a tertiary care hospital in Tanzania. Int J Antimicrob Agents. Jul, 2011.
37	David N. Ngassapa.	Essentials of Oral Biology, Dar es Salaam University Press 2010
38	Holmes MD, Dalal S, Volmink J, Adebamowo CA, Njelekela M, Fawzi WW, Willett WC, Adami HO	.PLoS Med. Non-Communicable Diseases in Sub-Saharan Africa: The Case for Cohort Studies. journal.pmed; 7(5): e1000244. doi: 10.1371/. May, 2010
39	Ko WY, Kaercher KA, Giombini E, Marcatili P, Froment A, Ibrahim M, Lema G, Nyambo TB, Omar SA, Wambebe C, Ranciaro A, Hirbo JB, Tishkoff SA.	Effects of natural selection and gene conversion on the evolution of human glycophorins coding for MNS blood polymorphisms in malaria-endemic African populations.. 10: 88(6):741-54. Jun, 2011
40	Veenemans J, Mank T, Ottenhof M, Baidjoe A, Mbugi EV, Demir AY, Wielders JP, Savelkoul HF, Verhoef H. PLoS Negl Trop Dis.	Protection against diarrhea associated with Giardia intestinalis lost with multi-nutrient supplementation: a study in Tanzanian children.5(6):e1158. Epub Jun, 2011
41	Mbugi EV, Meijerink M, Veenemans J, Jeurink PV, McCall M, Olomi RM, Shao JF, Chilongola JO, Verhoef H, Savelkoul HF. Malar J.	Effect of nutrient deficiencies on in vitro Th1 and Th2 cytokine response of peripheral blood mononuclear cells to Plasmodium falciparum infection. PMID: 20546583 14;9:162. Jun, 2010

42	Mwanziva C, Mpina M, Balthazary S, Mkali H, Mbugi E, Mosha F, Chilongola J. <i>Acta Trop.</i>	Child hospitalization due to severe malaria is associated with the ICAM-1 Kilifi allele but not adherence patterns of <i>Plasmodium falciparum</i> infected red blood cells to ICAM-1 PMID: 20510872 116(1):45-50 Epub 27 May, 2010
43	Ngaimisi E, Mugusi S, Minzi O, Sasi P, Riedel KD, Suda A, Ueda N, Janabi M, Mugusi F, Haefeli WE, Bertilsson L, Burhenne J, Aklillu E.	Effect of Rifampicin and CYP2B6 Genotype on Long-Term Efavirenz Autoinduction and Plasma Exposure in HIV Patients With or Without Tuberculosis. <i>Clin Pharmacol Ther.</i> 3. doi: 10.1038/clpt.2011.129. Aug, 2011
44	Klein Klouwenberg P, Sasi P, Bashraheil M, Awuondo K, Bonten M, Berkley J, Marsh K, Borrmann S. <i>PLoS One</i>	Temporal Association of Acute Hepatitis A and <i>Plasmodium falciparum</i> Malaria in Children. 6(7):e21013. Epub 6 Jul, 2011
45	Olotu A, Fegan G, Williams TN, Sasi P, Ogada E, Bauni E, Wambua J, Marsh K, Borrmann S, Bejon P. <i>PLoS One</i>	Defining clinical malaria: the specificity and incidence of endpoints from active and passive surveillance of children in rural Kenya. Dec, 2010
46	Ngaimisi E, Mugusi S, Minzi OM, Sasi P, Riedel KD, Suda A, Ueda N, Janabi M, Mugusi F, Haefeli WE, Burhenne J, Aklillu E.	Long-term efavirenz autoinduction and its effect on plasma exposure in HIV patients. <i>Clin Pharmacol Ther.</i> 88(5):676- 84. Epub 29 Sep, 2010
47	Eriksen J, Mujinja P, Warsame M, Nsimba S, Kouyaté B, Gustafsson LL, Jahn A, Müller O, Sauerborn R, Tomson G.	Effectiveness of a community intervention on malaria in rural Tanzania - a randomised controlled trial. <i>Afr Health Sci.</i> 10(4):332-40. Dec, 2010
48	Makani J, Cox SE, Soka D, Komba AN, Oruo J, Mwamtemi H, Magesa P, Rwezaula S, Meda E, Mgaya J, Lowe B, Muturi D, Roberts DJ, Williams TN, Pallangyo K, Kitundu J, Fegan G, Kirkham FJ, Marsh K, Newton CR.	<i>PLoS One</i> Methadone maintenance therapy as evidence based Mortality in sickle cell anemia in Africa: a prospective cohort study in Tanzania.16: 6(2) Feb, 2011
49	Cox SE, Makani J, Komba AN, Soka D, Newton CR, Kirkham FJ, Prentice AM. <i>Br J Haematol.</i>	Global arginine bioavailability in Tanzanian sickle cell anaemia patients at steady-state: a nested case control study of deaths versus survivors. May, 2011
50	Cox SE, Makani J, Fulford AJ, Komba AN, Soka D, Williams TN, Newton CR, Marsh K, Prentice AM	Nutritional status, hospitalization and mortality among patients with sickle cell anemia in Tanzania. <i>Haematologica.</i> ; 96(7):948-53. Jul, 2011
51	Makani J, Cox SE, Soka D, Komba AN, Oruo J, Mwamtemi H, Magesa P, Rwezaula S, Meda E, Mgaya J, Lowe B, Muturi D, Roberts DJ, Williams TN, Pallangyo K, Kitundu J, Fegan G, Kirkham FJ, Marsh K, Newton CR.	Mortality in sickle cell anemia in Africa: a prospective cohort study in Tanzania. <i>PLoS One.</i> 16: 6(2):e14699. Feb, 2011
52	Cox SE, L'Esperance V, Makani J, Soka D, Hill CM, Kirkham FJ.	Nocturnal haemoglobin oxygen saturation variability is associated with vitamin C deficiency in Tanzanian children with sickle cell anaemia. <i>Acta Paediatr.</i> 100(4):594-7 Apr, 2011
53	Makani J, Menzel S, Nkya S, Cox SE, Drasar E, Soka D, Komba AN, Mgaya J, Rooks H, Vasavda N, Fegan G, Newton CR, Farrall M.	Genetics of fetal hemoglobin in Tanzanian and British patients with sickle cell anemia. <i>Thein SL.Blood.</i> 27:117(4):1390-2. Epub 10 Nov, 2010

54	McAuley CF, Webb C, Makani J, Macharia A, Uyoga S, Opi DH, Ndila C, Ngatia A, Scott JA, Marsh K, Williams TN.	High mortality from Plasmodium falciparum malaria in children living with sickle cell anemia on the coast of Kenya.. 9:116 (10):1663-8. Sep, 2010
55	Field AS, Geddie W, Zarka M, Sayed S, Kalebi A, Wright CA, Banjo A, Desai M, Kaaya E.	Assisting cytopathology training in medically under-resourced countries: Defining the problems and establishing solutions. Diagn Cytopathol. 2011 Feb 9.
56	Mwakigonja AR, Kaaya EE, Heiden T, Wannhoff G, Castro J, Pak F, Porwit A, Biberfeld P	Tanzanian malignant lymphomas: WHO classification, presentation, ploidy, proliferation and HIV/EBV association.. BMC Cancer. 1(10):344. 2010 Jul
57	Naresh KN, Ibrahim HA, Lazzi S, Rince P, Onorati M, Ambrosio MR, Bilhou-Nabera C, Amen F, Reid A, Mawanda M, Calbi V, Ogwang M, Rogena E, Byakika B, Sayed S, Moshi E, Mwakigonja A, Raphael M, Magrath I, Leoncini L.	Diagnosis of Burkitt lymphoma using an algorithmic approach - applicable in both resource-poor and resource-rich countries. Br J Haematol; 1 Jul, 2011
58	Harrington WE, Mutabingwa TK, Kabyemela E, Fried M,	Duffy PE Intermittent treatment to prevent pregnancy malaria does not confer benefit in an area of widespread drug resistance.. Clin Infect Dis.53(3):224-30. Aug, 2011
59	Lahey T, Mitchell BK, Arbeit RD, Sheth S, Matee M, Horsburgh CR, Mackenzie T, Mtei L, Bakari M, Vuola JM, Pallangyo K, von Reyn CF.	Polyantigenic Interferon-Responses Are Associated with Protection from TB among HIV-Infected Adults with Childhood BCG Immunization. PLoS One 6 (7) 2011
60	Von Reyn CF, Kimambo S, Mtei L, Arbeit RD, Maro I, Bakari M, Matee M, Lahey T, Adams LV, Black W, Mackenzie T, Lyimo J, Tvaroha S, Waddell R, Kreiswirth B, Horsburgh CR, Pallangyo K.	Disseminated tuberculosis in human immunodeficiency virus infection: ineffective immunity, polyclonal disease and high mortality. Int J Tuberc Lung Dis.;15(8):1087-92. Aug, 2011
61	Makani J, Cox SE, Soka D, Komba AN, Oruo J, Mwamtemi H, Magesa P, Rwezaula S, Meda E, Mgaya J, Lowe B, Muturi D, Roberts DJ, Williams TN, Pallangyo K, Kitundu J, Fegan G, Kirkham FJ, Marsh K, Newton CR.	Mortality in sickle cell anemia in Africa: a prospective cohort study in Tanzania. PLoS One. 16:6(2) 16 Feb, 2011
62	Maro I, Lahey T, MacKenzie T, Mtei L, Bakari M, Matee M, Pallangyo K, Von Reyn CF. Int J Tuberc Lung Dis.	Low BMI and falling BMI predict HIV associated tuberculosis: a prospective study in Tanzania.14(11): 1447-53; Nov 2010
63	Maro I, Lahey T, MacKenzie T, Mtei L, Bakari M, Matee M, Pallangyo K, von Reyn CF.	Low BMI and falling BMI predict HIV-associated tuberculosis: a prospective study in Tanzania. Int J Tuberc Lung Dis.14(11):1447-53. Nov, 2010
64	Lahey T, Arbeit RD, Bakari M, Horsburgh CR, Matee M, Waddell R, Mtei L, Vuola JM, Pallangyo K, von Reyn CF.	Immunogenicity of a protective whole cell mycobacterial vaccine in HIV-infected adults: a phase III study in Tanzania. Vaccine. 28(48):7652-8. 10 Nov, 2010
65	Lahey T, Sheth S, Matee M, Arbeit R, Horsburgh CR, Mtei L, Mackenzie T, Bakari M, Vuola JM, Pallangyo K, von Reyn CF.	Interferon responses to mycobacterial antigens protect against subsequent HIV-associated tuberculosis. J Infect Dis. 202(8):1265-72. 15 Oct, 2010
66	Munseri PJ, Bakari M, Pallangyo K, Sandstrom E.	Tuberculosis in HIV voluntary counselling and testing centres in Dar es Salaam, Tanzania. Scand J Infect Dis.;42(10):767-74. Oct, 2010

67	Mugusi SF, Mwita JC, Francis JM, Aboud S, Bakari M, Aris EA, Swai AB, Mugusi FM, Pallangyo K, Sandstrom	Effect of improved access to antiretroviral therapy on clinical characteristics of patients enrolled in the HIV care and treatment clinic, at Muhimbili National Hospital (MNH), Dar es Salaam, Tanzania. 28: 10(291). May, 2010
68	Blocher J, Schmutzhard E, Wilkins PP, Gupton PN, Schaffert M, Auer H, Gotwald T, Matuja W, Winkler AS.	A cross-sectional study of people with epilepsy and neurocysticercosis in Tanzania: clinical characteristics and diagnostic approaches. PLoS Negl Trop Dis. 5(6):e1185. Epub 7 Jun, 2011.
69	Winkler AS, Friedrich K, Meindl M, Kidunda A, Nassri A, Jilek-Aall L, Matuja W, Schmutzhard E	Clinical characteristics of people with head nodding in southern Tanzania.. Trop Doct.; 40(3):173-5. Jul, 2010
70	König R, Nassri A, Meindl M, Matuja W, Kidunda AR, Siegmund V, Bretzel G, Löscher T, Jilek-Aall L, Schmutzhard E, Winkler AS.	The role of Onchocerca volvulus in the development of epilepsy in a rural area of Tanzania. Parasitology. 137. Sep, 2010
71	Ngaimisi E, Mugusi S, Minzi O, Sasi P, Riedel KD, Suda A, Ueda N, Janabi M, Mugusi F, Haefeli WE, Bertilsson L, Burhenne J, Aklillu E.	Effect of Rifampicin and CYP2B6 Genotype on Long-Term Efavirenz Autoinduction and Plasma Exposure in HIV Patients With or Without Tuberculosis. Clin Pharmacol Ther. 3. doi: 10.1038/clpt.2011.129. Aug, 2011
72	Moon S, Gurkan UA, Blander J, Fawzi WW, Aboud S, Mugusi F, Kuritzkes DR, Demirci U.	Enumeration of CD4 T-Cells Using a Portable Microchip Count Platform in Tanzanian HIV-Infected Patients. PLoS One. 6(7):e21409. Epub 6 Jul, 2011
73	Saathoff E, Villamor E, Mugusi F, Bosch RJ, Urassa W, Fawzi WW	Anemia in adults with tuberculosis is associated with HIV and anthropometric status in Dar es Salaam, Tanzania.. Int J Tuberc Lung Dis. 15(7):925-32. Jul, 2011
74	Shayo GA, Mugusi FM.	Prevalence of obesity and associated risk factors among adults in Kinondoni municipal district, Dar es Salaam Tanzania. BMC Public Health 23. 11:365. May, 2011
75	Hawkins C, Chalamilla G, Okuma J, Spiegelman D, Hertzmark E, Aris E, Ewald T, Mugusi F, Mtasiwa D, Fawzi W.	Sex differences in antiretroviral treatment outcomes among HIV- infected adults in an urban Tanzanian setting. AIDS. 25(9):1189-97, 1Jun, 2011
76	Walker RW, Jusabani A, Aris E, Gray WK, Whiting D, Kabadi G, Mugusi F, Swai M, Alberti G, Unwin N.	Post-stroke case fatality within an incident population in rural Tanzania. J Neurol Neurosurg Psychiatry. 82(9):1001-5. Epub 8. Mar, 2011
77	Howitt SC, Jones MP, Jusabani A, Gray WK, Aris E, Mugusi F, Swai M, Walker RW.	A cross-sectional study of quality of life in incident stroke survivors in rural northern Tanzania. J Neurol. 258(8):1422-30. Epub 19 Feb, 2011
78	Ngaimisi E, Mugusi S, Minzi OM, Sasi P, Riedel KD, Suda A, Ueda N, Janabi M, Mugusi F, Haefeli WE, Burhenne J, Aklillu E.	Long-term efavirenz autoinduction and its effect on plasma exposure in HIV patients. Clin Pharmacol Ther.88(5) Nov, 2010
79	Walker R, Whiting D, Unwin N, Mugusi F, Swai M, Aris E, Jusabani A, Kabadi G, Gray WK, Lewanga M, Alberti G.	Stroke incidence in rural and urban Tanzania: a prospective, community-based study. Lancet Neurol. 9(8):786-92. Epub 6 Jul, 2010
80	Mehta S, Spiegelman D, Aboud S, Giovannucci EL, Msamanga GI, Hertzmark E, Mugusi FM, Hunter DJ, Fawzi WW	Lipid-soluble vitamins A, D, and E in HIV-infected pregnant women in Tanzania.. Eur J Clin Nutr. 64(8):808-17. Epub 2010

81	Abbas ZG, Lutale JK, Bakker K, Baker N, Archibald LK	The 'Step by Step' Diabetic Foot Project in Tanzania: a model for improving patient outcomes in less-developed countries. <i>Int Wound J</i> 8(2):169-75. Apr, 2011
82	Viswanathan V, Wadud JR, Madhavan S, Rajasekar S, Kumpatla S, Lutale JK, Abbas ZG.	Comparison of post amputation outcome in patients with type 2 diabetes from specialized foot care centres in three developing countries. <i>Diabetes Res Clin Pract.</i> 88(2):146-50. Epub 17 Mar, 2010.
83	Mgonda YM, Chale PN.	The burden of co-existing dermatological disorders and their tendency of being overlooked among patients admitted to Muhimbili National Hospital in Dar es Salaam, Tanzania. <i>BMC Dermatol.</i> 11-8. 14 Apr, 2011
84	Lahey T, Mitchell BK, Arbeit RD, Sheth S, Matee M, Horsburgh CR, Mackenzie T, Mtei L, Bakari M, Vuola JM, Pallangyo K, von Reyn CF.	Polyantigenic Interferon- Responses Are Associated with Protection from TB among HIV-Infected Adults with Childhood BCG Immunization. <i>PLoS One.</i> ;6(70), 2011.
85	Metodi J, Aboud S, Mpembeni R, Munubhi E.	Immunity to hepatitis B vaccine in Tanzanian under-5 children. <i>Ann Trop Paediatr.</i> 30(2):129-36, 2010
86	Munseri PJ, Talbot EA, Bakari M, Matee M, Teixeira JP, von Reyn CF.	Scand J Infect Dis. The bacteraemia of disseminated tuberculosis among HIV-infected patients with prolonged fever in Tanzania. 12 May, 2011
87	Mwiru RS, Spiegelman D, Duggan C, Peterson K, Liu E, Msamanga G, Aboud S, Fawzi WW.	Relationship of exclusive breast-feeding to infections and growth of Tanzanian children born to HIV-infected women. <i>Public Health Nutr.</i> 16:1-8. Feb, 2011
88	Billy E Ngasala, Maja Malmberg, Anja M Carlsson, Pedro E Ferreira, Max G Petzold, Daniel Blessborn, Yngve Bergqvist, J.Pedro Gil, Zul Premji, Andreas Mårtensson.	Effectiveness of artemether-lumefantrine provided by community health workers in underfive children with uncomplicated malaria in rural Tanzania: an open label prospective study: <i>Malar J.</i> 10: 64. Published online 16 March, 2011
89	Mugusi SF, Mwita JC, Francis JM, Aboud S, Bakari M, Aris EA	Effect of improved access to antiretroviral therapy on clinical characteristics of patients enrolled in the HIV care and treatment clinic, at Muhimbili National Hospital (MNH), Dar es Salaam, Tanzania.. <i>BMC Public Health</i> 10:291 2010.
90	Monjane AL, Harkins GW, Martin DP, Lemey P, Lefevre P, Shepherd DN, Oluwafemi S, Simuyandi M, Zinga I, Komba EK, Lakoutene DP, Mandakombo N, Mboukoulida J, Semballa S, Tagne A, Tiendrébéogo F, Erdmann JB, van Antwerpen T, Owor BE, Flett B, Ramusi M, Windram OP, Syed R, Lett JM, Briddon RW, Markham PG, Rybicki EP, Varsani	A Reconstructing the history of Maize streak virus strain-A dispersal to reveal diversification hotspots and its origin in southern Africa. <i>J Virol.</i> 29 Jun, 2011
91	Komba EV, Mgonda YM	The spectrum of dermatological disorders among primary school children in Dar es Salaam.. <i>BMC Public Health.</i> ; 16(10):765. Dec, 2010

92	Sofia Friberg Hietala, Andreas Mårtensson, Billy Ngasala, Sabina Dahlström, Niklas Lindegårdh, Anna Annerberg, Zul Premji, Anna Färnert, Pedro Gil, Anders Björkman, and Michael Ashton	Population pharmacokinetics and pharmacodynamics of artemether and lumefantrine in combination treatment of children with uncomplicated falciparum malaria in Tanzania- Antimicrob Agents Chemother;54(11):4780-8. Nov, 2010
93	Tarimo EA, Thorson A, Kohi TW, Bakari M, Mhalu F, Kulane A.	Reasons for declining to enroll in a phase I and II HIV vaccine trial after randomization among eligible volunteers in Dar es Salaam, Tanzania. PLoS One. 6(2) 16 Feb, 2011
94	Moyo S, Aboud S, Kasubi M, Maselle SY.	Bacteria isolated from bloodstream infections at a tertiary hospital in Dar es Salaam, Tanzania--antimicrobial resistance of isolates. S Afr Med J. 1;100(12) Dec, 2010
95	Bernhards Ogotu, Alfred B Tiono, Michael Makanga, Zulfiqarali Premji, Adama Dodji Gbadoe, David Ubben, Anne Claire Marrast and Oumar Gaye.	Treatment of asymptomatic carriers with artemether lumefantrine: an opportunity to reduce the burden of malaria? Malaria Journal 9:30 doi:10.1186/1475- 2875-9-30. ISSN 1475-2875, 2010
96	Moyo SJ, Aboud S, Kasubi M, Lyamuya EF, Maselle SY	Antimicrobial resistance among producers and non-producers of extended spectrum beta-lactamases in urinary isolates at a tertiary Hospital in Tanzania.. BMC Res Notes 24(3):348 Dec, 2010
97	Arsenault JE, Webb AL, Koulinska IN, Aboud S, Fawzi WW, Villamor E.	Association between breast milk erythropoietin and reduced risk of mother-to-child transmission of HIV. J Infect Dis. 15:202(3):370-3 Aug, 2010
98	Simba DO, Kakoko DC, Warsame M, Premji Z, Gomes MF, Tomson G, Johansson E	Understanding caretakers' dilemma in deciding whether or not to adhere with referral advice after pre-referral treatment with rectal artesunate. Malar J 9:123 12(9):123. May, 2010
99	Marycelina Mubi, Annika Janson, Marian Warsame, Andreas Mårtensson, Karin Källander, Max G. Petzold, Billy Ngasala, Gloria Maganga, Lars L. Gustafsson, Amos Massele, Göran Tomson, Zul Premji, and Anders Björkman.	Malaria Rapid Testing by Community Health Workers Is Effective and Safe for Targeting Malaria Treatment: Randomised Cross-Over Trial in Tanzania. PLoS One. 6(7): e19753. 2011;
100	Billy E Ngasala, Maja Malmberg, Anja M Carlsson, Pedro E Ferreira, Max G Petzold, Daniel Blessborn, Yngve Bergqvist, José P Gil, Zul Premji, Anders Björkman, Andreas Mårtensson	Efficacy and effectiveness of artemether-lumefantrine after initial and repeated treatment in under five children with acute uncomplicated Plasmodium falciparum malaria in rural Tanzania:: randomised trial, Clin Infect Dis. 52(7):873-82. Apr, 2011
101	Bazira J, Asiimwe BB, Joloba ML, Bwanga F, Matee MI.	Mycobacterium tuberculosis spoligotypes and drug susceptibility pattern of isolates from tuberculosis patients in South-Western Uganda.. BMC Infect Dis 31 (11):81; Mar, 2011
102	Aboud SK, Yunus MR, Gendeh BS	Diabetes insipidus and syndrome of inappropriate antidiuretic hormone complicating pituitary surgery. Otolaryngol Head Neck Surg.;144(6):1005-6 Jun, 2011

103	Johannessen A, Holberg-Petersen M, Lövgården G, Naman E, Ormaasen V, Matee MI, Gundersen SG, Bruun JN.	HIV type-1 drug resistance testing on dried blood spots is feasible and reliable in patients who fail antiretroviral therapy in rural Tanzania. <i>Antivir Ther.</i> 15(7):1003-9. 2010
104	Moon S, Gurkan UA, Blander J, Fawzi WW, Aboud S, Mugusi F, Kuritzkes DR, Demirci U.	Enumeration of CD4 T-Cells Using a Portable Microchip Count Platform in Tanzanian HIV-Infected Patients. <i>PLoS One.</i> ; 6(7):e21409. 2011
105	Njau JC, Aboud S.	Tuberculosis in HIV-infected Tanzanian children below 14 years. <i>East Afr J Public Health.</i> ;7(3):199-205 Sep, 2010
106	Lahey T, Sheth S, Matee M, Arbeit R, Horsburgh CR, Mtei L, Mackenzie T, Bakari M, Vuola JM, Pallangyo K, von Reyn CF	. Interferon responses to mycobacterial antigens protect against subsequent HIV-associated tuberculosis. <i>J Infect Dis.</i> 202(8):1265-72. 15 Oct, 2010
107	Somi G, Matee M, Makene CL, Van Den Hombergh J, Kilama B, Yahya-Malima KI, Masako P, Sando D, Ndayongeje J, Rabel B, Swai RO.	Three years of HIV/AIDS care and treatment services in Tanzania: achievements and challenges. <i>Tanzan J Health Res.</i> 11(3):136-43; Jul, 2009
108	Bazira J, Asiimwe BB, Joloba ML, Bwanga F, Matee MI.	Use of the GenoType(R) MTBDRplus assay to assess drug resistance of Mycobacterium tuberculosis isolates from patients in rural Uganda. <i>BMC Clin Pathol.</i> 10:5; 6Aug, 2010
109	Plantinga TS, Hamza OJ, Willment JA, Ferwerda B, van de Geer NM, Verweij PE, Matee MI, Banahan K, O'neill LA, Kullberg BJ, Brown GD, van der Ven AJ, Netea MG.	Genetic variation of innate immune genes in HIV-infected african patients with or without oropharyngeal candidiasis. <i>J Acquir Immune Defic Syndr.</i> 55(1):87-94. 1Sep, 2010
110	Von Reyn CF, Mtei L, Arbeit RD, Waddell R, Cole B, Mackenzie T, Matee M, Bakari M, Tvaroha S, Adams LV, Horsburgh CR, Pallangyo K;	DarDar Study Group. Prevention of tuberculosis in Bacille Calmette-Guérin-primed, HIV-infected adults boosted with an inactivated whole-cell mycobacterial vaccine. <i>AIDS.</i> 24(5):675-85. 13 Mar, 2010
111	Saathoff E, Villamor E, Mugusi F, Bosch RJ, Urassa W, Fawzi WW.	Anemia in adults with tuberculosis is associated with HIV and anthropometric status in Dar es Salaam, Tanzania. <i>Int J Tuberc Lung Dis.</i> ; 15(7):925-32. Jul, 2011
112	Mgomella GS, Venkatesh PA, Bosch RJ, Mwakagile D, Urassa W, McIntosh K, Hertzmark E, Msamanga G, Fawzi WW	The use of total lymphocyte count as a surrogate for low CD4+ T lymphocyte cell counts among HIV-1-infected women in Tanzania.. <i>East Afr J Public Health.</i> 7(2):160-4. Jun, 2010
113	Mehta S, Spiegelman D, Aboud S, Giovannucci EL, Msamanga GI, Hertzmark E, Mugusi FM, Hunter DJ, Fawzi WW.	Lipid-soluble vitamins A, D, and E in HIV-infected pregnant women in Tanzania. <i>Eur J Clin Nutr.</i> 64(8):808-17. Aug, 2010
114	K. F. Hirji, and Z G Premji.	Pre-referral rectal artesunate in severe malaria: a flawed trial. <i>Trials</i> , 12:188 doi: 10.1186/1745- 6215-12-188. 2011
115	Steven E Kern, Alfred B Tiono, Michael Makanga, Adama Dodji Gbado, Zulfiqarali Premji, Oumar Gaye, Issaka Sagara, David Ubben, Marc Cousin, Fiyinfolu Oladiran,	Oliver Sander, Bernhards Ogutu Community screening and treatment of asymptomatic carriers of Plasmodium falciparum with artemether-lumefantrine to reduce malaria disease burden: a modeling and simulation analysis. <i>Malaria Journal</i> , 10:210 doi:10.1186/1475-2875-10-21. 2011

116	Christopher JL Murray, Alan D Lopez, Robert Black, Ramesh Ahuja, Said Mohd Ali, Abdullah Baqui, Lalit Dandona, Emily Dantzer, Vinita Das, Usha Dhingra, Arup Dutta, Wafaie Fawzi, Abraham D Flaxman, Sara Gomez, Bernardo Hernandez, Rohina Joshi, Henry Kalter, Aarti Kumar, Vishwajeet Kumar, Rafael Lozano, Marilla Lucero, Saurabh Mehta, Bruce Neal, Summer Lockett Ohno, Rajendra Prasad, Devarsetty Praveen, Zul Premji, Dolores Ramirez-Villalobos, Hazel Remolador, Ian Riley, Minerva Romero, Mwanaidi Said, Diozele Sanvictores, Sunil Sazawal and Veronica Tall.	Population Health Metrics Research Consortium gold standard verbal autopsy validation study: design, implementation, and development of analysis datasets. Population Health Metrics, 9:27 doi:10.1186/1478-7954-9-27 Published: 4 August, 2011.
117	Erasto P, Mbwambo Z.H., Nondo R.S.O., Lall N and Lubschagne	Antimycobacterial, Antioxidant Activity and Toxicity of Extracts from the Roots of <i>Rauvolfia vomitoria</i> and <i>R. caffra</i> . A Spatula DD; 1(2): 73-80. 2011
118	Abdul W. Kidukuli, Zakaria H. Mbwambo, Hamisi M. Malebo, Clarence A. Mgina,	MatobolaMihale.J In vivo antiviral activity, protease inhibition and brine shrimp lethality of selected Tanzanian wild edible mushrooms.. Appl. Biosci. 31: 1887-1894, 2010.
119	Daniel P. Kisangau, Thora Martina Herrmann, Herbert V. M. Lyaruu, Ken M Hosea, Cosam C. Joseph, Zakaria. H. Mbwambo and Pax J. Masimba.	Traditional Knowledge, Use Practices and Conservation of Medicinal Plants for HIV/AIDS Care in Rural Tanzania. Ethnobotany Research & Applications 9:43-57, 2011.
120	Ramadhani S O Nondo, Zakaria H Mbwambo, Abdul W Kidukuli , Ester M Innocent, Matobola J Mihale, Paul Erasto, Mainen J Moshi	Larvicidal, Antimicrobial and Brine shrimp Activities of Extracts from <i>Cissampelos mucronata</i> and <i>Tephrosia villosa</i> from Coast region, Tanzania.. BMC Complementary and Alternative Medicine, 11:33. 2011,
121	Mariita, R.M., Okemo, P, Orodho, J.A, Kirimuhuzya, C., Otieno, J.N., Magadula, J.J.	Efficacy of 13 Medicinal Plants used by Indigenous Communities around Lake Victoria, Kenya, against tuberculosis, diarrhoea-causing bacteria and <i>Candida albicans</i> . International Journal of Pharmacy&Technology, 2: 771-791. 2010
122	Orodho, J.A., Kirimuhuzya, C., Otieno, J.N., Magadula, J.J., Okemo, P	. Local Management of Tuberculosis by Traditional Medicine Practitioners in Lake Victoria Region.. The Open Complementary Medicine Journal, 3: 1-9. 2011
123	Magadula, J.J., Tewtrakul, S., Gatto, J., Richomme, P	In vitro antioxidant and anti-HIV-1 protease (PR) activities of two Clusiaceae plants endemic to Tanzania. Int. J. Biol. Chem. Sci., 5 (3), 1096-1104, 2011
124	Said, SA, Moshi, MJ, Nondo, RSO, Masimba, PJ, Innocent, E, Guantai, A.	Evaluation of the potential of the marine sponges of the Zanzibar Island to yield antimalarial and antimicrobial active compounds. TJHR 12: 195-202, 2010
125	Kamazima, SR., Kazaura MR., Ezekiel MJ & Fimbo B.	Reported human traffickers' profiles: A key step in the prevention of trafficking in persons through HIV and AIDS interventions in Tanzania. East African Journal of Public Health , 2011

126	Malipula M & Ezekiel MJ	Perceived impact of local government reforms on primary education delivery in Mkuranga district. Journal of Management and Development Dynamcis, 21(2):49-64. 2010
127	Malipulla M., Kang'ombe F & Ezekiel, MJ	Factors mitigating reduction of perceived high mortality ratio in the health sector reforms era: the case of Kahama District. Rural Planning Journal. 1 (64): 47-56, 2010
128	Ezekiel, MJ., Talle, A., Juma, J.M., & Klepp,	Social geography of risk: The role of time, place and antiretroviral therapy in conceptions about the sexual risk of HIV in Kahe, Kilimanjaro, Tanzania. K-I. Norwegian Journal of Geography, 64: 47-56, 2010
129	Edith A.M. Tarimo, Anna Thorson, Thecla W. Kohi, Muhammad Bakari, Fred Mhalu and Asli Kulane	Reasons for declining to enrol in a phase I and II HIV vaccine trial after randomization among eligible volunteers in Dar es Salaam, Tanzania. PLoS one. 6(2): 2011
130	Edith A.M. Tarimo, Anna Thorson, Thecla W. Kohi, Joachim Mwami, Muhammad Bakari, Eric Sandstrom, and Asili Kulane	. Balancing Collective Responsibility, Individual opportunities and Risks: A Qualitative Study on how Police Officers reason around volunteering in an HIV vaccine trial in Dar es Salaam, Tanzania. BMC Public Health 10: 292; 2010.
131	Saathoff E, Villamor E, Mugusi F, Bosch RJ, Urassa W, Fawzi WW.	Anemia in adults with tuberculosis is associated with HIV and anthropometric status in Dar es Salaam Tanzania. Int J. Tuberc Lung Dis. 15(7): 925-32. July, 2011
132	Field AS, Geddie W, Zarka M, Sayed S, Kalebi A, Wright CA, Banjo A, Desai M, Kaaya E.	Assisting cytopathology training in medically under-resourced countries: Defining the problems and establishing solutions. Diagn Cytopathol.. doi: 10.1002/dc.21620. 9 Feb, 2011
133	Mwakigonja AR, Kaaya EE, Heiden T, Wannhoff G, Castro J, Pak F, Porwit A, Biberfeld P	Tanzanian malignant lymphomas: WHO classification, presentation, ploidy, proliferation and HIV/EBV association. BMC Cancer; 10:344. 1Jul, 2010
134	Villamor E, Koulinska IN, Aboud S, Murrin C, Bosch RJ, Manji KP, Fawzi WW.	Effect of vitamin supplements on HIV shedding in breast milk. Am J Clin Nutr; 92(4):881-6.. PubMed PMID: 20739426; 25 Aug, 2010
135	Makuwani AM, Massawe SN, Mpembeni R, Shekimweri A.	Setting an emergency obstetric care unit local initiatives, availability of resources and good will are the main ingredients of success: a lesson from Mkuranga District Hospital, Tanzania. East Afr J Public Health.; 7(2):109-13. PubMed PMID: 21413586. Jun, 2010

136	BL, Rasch V, Massawe S, Nyakina J, Elsass P, Nielsen BB.	Advanced life support in obstetrics (ALSO) and post-partum hemorrhage: a prospective intervention study in Tanzania. Sorensen Acta Obstet Gynecol Scand. 90(6):609-14. doi: 10.1111/j.1600-0412.2011.01115.x. Epub 15 Apr, 2011
137	Sorensen BL, Rasch V, Massawe S, Nyakina J, Elsass P, Nielsen BB	Impact of ALSO training on the management of prolonged labor and neonatal care at Kagera Regional Hospital, Tanzania. Int J Gynaecol Obstet.;111(1):8-12. Epub, PubMed PMID: 20646704. Oct, 2010
138	Muganyizi PS, Nyström L, Lindmark G, Emmelin M, Massawe S, Axemo P	Effect of supporter characteristics on expression of negative social reactions toward rape survivors in Dar Es Salaam, Tanzania. Health Care Women Int.;31(8):668-85. PubMed PMID: 20623392. Aug, 2010
139	Sorensen BL, Elsass P, Nielsen BB, Massawe S, Nyakina J, Rasch V.	Substandard emergency obstetric care - a confidential enquiry into maternal deaths at a regional hospital in Tanzania. Trop Med Int Health.15(8):894-900.. PubMed PMID: 20545917. Epub 9 Jun, 2010
140	Kupka R, Manji KP, Wroe E, Aboud S, Bosch RJ, Fawzi WW, Kurpad AV, and Duggan C	Comparison of Isotope Dilution with Bioelectrical Impedance Analysis among HIV-Infected and HIV-Uninfected Pregnant Women in Tanzania. International Journal of Body Composition Research 9(1): 1: 1-10. © Smith-Gordon ISSN 1479-456X 9.1_inners. qxd:IJBCR 9.1_inners.qxd, 2011
141	JE, Aboud S, Manji KP, Fawzi WW, Villamor E J.	Vitamin supplementation increases risk of subclinical mastitis in HIV-infected women. Arsenault Nutr.; 140(10):1788-92. Oct, 2010
142	Mugoyela V, Mwambete KD.	Microbial contamination of nonsterile pharmaceuticals in public hospital settings.. Ther Clin Risk Manag.;6:443-8. PubMed PMID: 20957135; PubMed Central PMCID: PMC2952482. 2010 Oct 5
143	Sorensen BL, Rasch V, Massawe S, Nyakina J, Elsass P, Nielsen BB.	Advanced life support in obstetrics (ALSO) and post-partum hemorrhage: a prospective intervention study in Tanzania. Acta Obstet Gynecol Scand.;90(6):609-14. doi:10.1111/j.1600-0412.2011.01115.x ; 2011 Jun
144	Sorensen BL, Rasch V, Massawe S, Nyakina J, Elsass P, Nielsen BB.	Impact of ALSO training on the management of prolonged labor and neonatal care at Kagera Regional Hospital, Tanzania. Int J Gynaecol Obstet. 111(1):8-12.. PubMed PMID: 20646704. Epub 19 Jun, 2010
145	Muganyizi PS, Nyström L, Lindmark G, Emmelin M, Massawe S, Axemo P	Effect of supporter characteristics on expression of negative social reactions toward rape survivors in Dar Es Salaam, Tanzania. Health Care Women Int.;31(8):668-85. PubMed PMID: 20623392. Aug, 2010

146	BL, Elsass P, Nielsen BB, Massawe S, Nyakina J, Rasch V.	Substandard emergency obstetric care - a confidential enquiry into maternal deaths at a regional hospital in Tanzania. Sorensen Trop Med Int Health. 15(8):894-900. PubMed PMID: 20545917. Epub 9 Jun, 2010
147	Semali IA.	Trends in immunization completion and disparities in the context of health reforms: the case study of Tanzania. BMC Health Serv Res. 10:299. PubMed PMID: 21034497; PMC2984499 30 Oct, 2010
148	Crawford AD, Liekens S, Kamuhabwa AR, Maes J, Munck S, Busson R, Rozenski J, Esguerra CV.	Zebrafish bioassay-guided natural product discovery: isolation of angiogenesis inhibitors from East African medicinal plants. de Witte PA PLoS One.6(2):e14694. PubMed PMID: 21379387. 17 Feb, 2011
149	Hirji KF, Fagerland MW.	Calculating unreported confidence intervals for paired data. BMC Med Res Methodol. 11:66. PubMed PMID: May, 2011
150	Kamuhabwa A, Jalal R.	Drug use in pregnancy: Knowledge of drug dispensers and pregnant women in Dar es Salaam. Tanzania Indian J Pharmacol. 43(3):345-9. PubMed PMID. May, 2011
151	Mbawalla HS, Mtaya M, Masalu JR, Brudvik P, Astrom AN	. Discriminative ability of the generic and condition-specific Child-Oral Impacts on Daily Performances (Child-OIDP) by the Limpopo-Arusha School Health (LASH) project: a cross- sectional study. BMC Pediatr.11:45. PubMed PMID: 21615892 26 May, 2011
152	Mbawalla HS, Masalu JR, Astrøm AN.	Socio-demographic and behavioural correlates of oral hygiene status and oral health related quality of life, the Limpopo-Arusha school health project (LASH): a cross-sectional study. BMC Pediatr.;10:87. PubMed PMID: 21118499; PubMed Central PMCID: 30 Nov, 2010
153	Mashoto KO, Astrøm AN, Skeie MS, Masalu JR.	Changes in the quality of life of Tanzanian school children after treatment interventions using the Child-OIDP. Eur J Oral Sci.;118(6):626-34. doi: 10.1111/j.1600-0722.2010.00776.x. Dec, 2010
154	Anderson W, Dhansay MA, Phillips A, Shurin S, Walport M, Ewart W, Savill SJ, Bordin IA, Costello EJ, Durkin M, Fairburn C, Glass RI, Hall W, Huang Y, Hyman SE, Jamison K, Kaaya S, Kapur S, Kleinman A, Ogunniyi A, Otero-Ojeda A, Poo MM, Ravindranath V, Sahakian BJ, Saxena S, Singer PA, Stein DJ. Grand challenges in global mental health. Collins PY, Patel V, Joestl SS, March D, Insel TR, Daar AS	Scientific Advisory Board and the Executive Committee of the Grand Challenges on Global Mental Health, Nature. 475(7354):27-30. doi:10.1038/475027a. 6 Jul, 2011
155	Chalamilla G, Hawkins C, Okuma J, Spiegelman D, Aveika A, Christian B, Koda H, Kaaya S, Mtasiwa D, Fawzi WJ.	Mortality and Treatment Failure among HIV-Infected Adults in Dar Es Salaam, Tanzania. Int Assoc Physicians AIDS Care 21673195. 14 Jun, 2011

156	Garcia ME, Li MS, Siril H, Hawkins C, Kaaya S, Ismail S, Chalamilla G, Mdingi SG, Hirschhorn LR	.Health-care worker engagement in HIV-related quality improvement in Dar es Salaam, Tanzania..Int J Qual Health Care 23(3):231-8.. PubMed PMID: 21441571: Epub 26 Mar, 2011
157	Aarø LE, Breivik K, Klepp KI, Kaaya S, Onya HE, Wubs A, Helleve A, Flisher AJ.	An HIV/AIDS knowledge scale for adolescents: item response theory analyses based on data from a study in South Africa and Tanzania.. Health Educ Res.26(2):212-24.. PubMed PMID: 21257677. Epub 21 Jan, 2011
158	Traube D, Dukay V, Kaaya S, Reyes H, Mellins C.	Cross-cultural adaptation of the Child Depression Inventory for use in Tanzania with children affected by HIV. Vulnerable Child Youth Stud. PubMed PMID:5(2):174-187 Jun, 2010
159	Sorensen BL, Rasch V, Massawe S, Nyakina J, Elsass P, Nielsen BB.	Advanced life support in obstetrics (ALSO) and post-partum hemorrhage: a prospective intervention study in Tanzania. Acta Obstet Gynecol Scand. 90(6):609-14. doi: 10.1111/j.1600-Epub Apr 15. 2011
160	Sorensen BL, Rasch V, Massawe S, Nyakina J, Elsass P, Nielsen BB	Impact of ALSO training on the management of prolonged labor and neonatal care at Kagera Regional Hospital, Tanzania. Int J Gynaecol Obstet. 111(1):8-12.. PubMed PMID: 20646704. Epub 19 Jun 2010
161	Muganyizi PS, Nyström L, Lindmark G, Emmelin M, Massawe S, Axemo P	Effect of supporter characteristics on expression of negative social reactions toward rape survivors in Dar Es Salaam, Tanzania. Health Care Women Int.;31(8):668-85. PubMed PMID: 20623392. August 2010
162	Sorensen BL, Elsass P, Nielsen BB, Massawe S, Nyakina J, Rasch V.	Emergency obstetric care - a confidential enquiry into maternal deaths at a regional hospital in Tanzania.. Substandard Trop Med Int Health.;15(8):894-900. Epub 2010 Jun 9. PubMed PMID: 20545917. Aug, 2010
163	Falnes, EF; Moland, KM; Tylleskär, T; de Paoli, MM; Leshabari, SC; Engebretsen.	The potential role of mother-in-law in prevention of mother-to-child transmission of HIV: a mixed methods study from the Kilimanjaro region, northern Tanzania. IM. BMC public health 11:55; 2011
164	Astrid Blystad; Sebalda Leshabari; Penny van Esterik; Marina de Paoli; Daniel W. Sellen; Karen Marie Moland.	Reflections on global policy documents and the WHO's infant feeding guidelines: lessons learnt. International Breastfeeding Journal, 5:18. 2010
165	Karen Marie Moland; Penny van Esterik; Daniel W. Sellen; Sebalda C Leshabari; Marina M de Paoli; Astrid Blystad	Ways ahead: protecting, promoting and supporting breastfeeding in the context of HIV. International Breastfeeding Journal, 5:19. 2010
166	Karen Marie Moland; Marina M de Paoli; Sebalda C Leshabari; Daniel W Sellen;	Breastfeeding and HIV: experiences from a decade of prevention of postnatal HIV transmission in sub-Saharan Africa. Astrid Blystad.International, 5:10 2010

167	Ko, WY; Kaercher, KA; Giombini, E; Marcatili, P; Froment, A; Ibrahim, M; Lema, G; Nyambo, TB; Omar, SA; Wambebe, C; Ranciaro, A; Hirbo, JB; Tishkoff.	Effects of natural selection and gene conversion on the evolution of human glycoporphins coding for MNS blood polymorphisms in malaria-endemic African populations. <i>American journal of human genetics</i> 88(6):741-54. 2011
168	Manyanga V, Dhulipalla RL, Hoogmartens J, Adams E.	Improved liquid chromatographic method with pulsed electrochemical detection for the analysis of kanamycin. <i>J Chromatogr A</i> . 1217(24):3748-53, 11 Jun, 2010
169	Manyanga V, Hoogmartens J, Adams E.	Development and validation of an improved reversed-phase liquid chromatographic method combined with pulsed electrochemical detection for the analysis of netilmicin. <i>J Sep Sci</i> . 26 May, 2010
170	Maregesi S, Van Miert S, Pannecouque C, Feiz Haddad MH, Hermans N, Wright CW, Vlietinck AJ, Apers S, Pieters L.	The magnitude of intentional non-adherence to antiretroviral therapy among patients attending HIV care and treatment clinic at Muhimbili National Hospital, Dar es Salaam, Tanzania. <i>Planta Med.</i> ;76(2):195-201. Feb, 2010
171	Dhooghe L, Maregesi S, Mincheva I, Ferreira D, Marais JP, Lemièrre F, Matheeuessen A, Cos P, Maes L, Vlietinck A, Apers S, Pieters L.	Antiplasmodial activity of (I-3,II-3)-biflavonoids and other constituents from <i>Ormocarpum kirkii</i> . <i>Phytochemistry</i> 71(7):785-91. May, 2010
172	Maregesi SM, Hermans N, Dhooghe L, Cimanga K, Ferreira D, Pannecouque C, Vanden Berghe DA, Cos P, Maes L, Vlietinck AJ, Apers S, Pieters L.	Phytochemical and biological investigations of <i>Elaeodendron schlechteranum</i> . <i>J Ethnopharmacol</i> . 129(3):319-26. Jun, 2010
173	Runyoro, D., Ngassapa, O., Vagionas, K., Aliannis, N., Graikou, K., Chinou.	Chemical composition and antimicrobial activity of the essential oils of four <i>Ocimum</i> species growing in Tanzania. <i>Food Chemistry</i> , 119(1) 311-316 1 March, 2010
174	Sangeda RZ, Vandepitte J, Huygens A, Van Cleynenbreugel B, Van Poppel H, de Witte PA	Prevention of tumor cell reimplantation during transurethral resection: the in-vitro antiadhesive and cytotoxic properties of an irrigant containing polyethylene glycol 400. <i>Anticancer Drugs</i> ;21(6):645-50 Jul, 2010

7.0 Obituary

With deep regret and sorrow, the Vice Chancellor and the MUHAS community remembers the Colleagues who past away during the reporting period. The following passed on:

1. Ms. Joyce Nyambelwa, Administrative Officer - Institute of Traditional Medicine
2. Mr. F. Kidenya, Principal Administrative Officer II – School of Pharmacy
3. Mr. Issa Seifu, Health Attendant – Department of Illustration Unit

8.0 Appendix - Audited Financial Statement for year ended 30th June 2009

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF FINANCIAL POSITION AS AT 30TH JUNE, 2010

ASSETS	NOTES	30.06.2010 TZS	30.06.2009 TZS
Non-Current Assets			
Property, Plant and Equipment	5	24,422,794,084	15,097,393,430
Epícor Accounting Software	6	38,463,662	57,666,660
Total		<u>24,461,257,746</u>	<u>15,155,060,090</u>
Current Assets			
Inventories	7	203,549,965	342,444,925
Trade and Other Receivables	8	265,602,123	452,176,316
Cash and Cash Equivalents	9	7,533,157,693	6,547,108,547
		<u>8,002,309,781</u>	<u>7,341,729,788</u>
TOTAL ASSETS		<u>32,463,567,527</u>	<u>22,496,789,878</u>
EQUITY AND LIABILITIES			
Equity			
Capital Fund	10	23,224,024,685	14,435,562,985
Revaluation Reserves	12	2,889,824,852	2,889,824,852
Accumulated Surplus(Deficit)	13	1,269,513,713	1,655,232,050
Total Equity		<u>27,383,363,250</u>	<u>18,980,619,887</u>
LIABILITIES			
Non-Current Liabilities			
Long Term Loans	14	698,507,056	876,459,356
Donor Capital Fund	11	3,218,718,328	1,840,086,850
Current Liabilities			
Trade and Other Payables	15	1,110,417,593	799,623,785
Other Short Term Liabilities	16	52,561,300	0
		<u>5,080,204,277</u>	<u>3,516,169,991</u>
TOTAL EQUITY AND LIABILITIES		<u>32,463,567,527</u>	<u>22,496,789,878</u>

Notes 1 to 30 Form Part of these Financial Statements. Auditors Report on Pages 13 to 14.

Patukamazing
CHAIRMAN

DATE 10/2/2011

Shadali
COUNCIL MEMBER

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30TH JUNE, 2010

CASH FLOWS FROM OPERATING ACTIVITIES	2009/2010 TZS	2008/2009 TZS
Surplus / (Loss) for the Year	(385,718,337)	(1,970,923,017)
Adjustment for Depreciation	<u>1,086,503,878</u>	<u>1,187,021,779</u>
Operating Surplus / (Loss) Before Changes in Working Capital	700,785,541	(783,901,238)
Changes in Working Capital Items		
(Increase) / Decrease in Inventory	138,894,960	(322,322,051)
(Increase) / Decrease in Trade and Other Receivables	186,574,193	145,281,776
Increase / (Decrease) in Loans	(177,952,300)	(160,879,225)
Increase / (Decrease) Trade and Other Payables	310,793,808	58,328,766
Increase / (Decrease) Short Term Liabilities	<u>52,561,300</u>	<u>(68,555,500)</u>
Net Cash Flows From Operations (A)	1,211,657,502	(348,146,234)
CASH FLOWS FROM INVESTING ACTIVITIES		
Acquisition of Property and Equipment (B)	<u>(10,392,701,543)</u>	<u>(2,004,387,115)</u>
CASH FLOWS FROM FINANCING		
Capital Fund	8,788,461,700	4,442,267,225
Donor Grants	<u>1,378,631,487</u>	<u>(528,021,977)</u>
Net Cash Flows From Financing (C)	<u>10,167,093,187</u>	<u>3,914,245,248</u>
NET CASH FLOWS IN DURING THE YEAR (A+B+C)	986,049,146	777,810,661
Cash And Cash Equivalent At The Beginning Of Year	<u>6,547,108,547</u>	<u>5,769,297,886</u>
CASH AND CASH EQUIVALENT AT THE END OF THE YEAR	<u>7,533,157,693</u>	<u>6,547,108,547</u>

Notes 1 to 30 Form Part of these Financial Statements. Auditors Report on Pages 13 to 14.

Patukamuzi
CHAIRMAN

Shadali
COUNCIL MEMBER

DATE 10/2/2011

MUHIMBILI UNIVERSITY OF HEALTH AND ALLIED SCIENCES

STATEMENT OF CHANGES IN EQUITY FOR THE YEAR ENDED 30TH JUNE, 2010

	CAPITAL FUND	REVALUATION RESERVE	ACCUMULATED SURPLUS/ (DEFICIT)	TOTAL
	TZS	TZS	TZS	TZS
Balance As At 1st July, 2008	9,993,295,760	2,889,824,852	3,626,155,067	16,509,275,679
Surplus / (Loss) for the Year	<u>4,442,267,225</u>	<u>-</u>	<u>(1,970,923,017)</u>	<u>2,471,344,208</u>
Balance As At 30 th June, 2009	<u>14,435,562,985</u>	<u>2,889,824,852</u>	<u>1,655,232,050</u>	<u>18,980,619,887</u>
Balance As At 1 st July, 2009	14,435,562,985	2,889,824,852	655,232,050	18,980,619,887
Surplus / (Loss) for the Year	<u>8,788,461,700</u>	<u>-</u>	<u>(385,718,337)</u>	<u>8,402,743,363</u>
Balance As At 30 th June, 2010	<u>23,224,024,685</u>	<u>2,889,824,852</u>	<u>1,269,513,713</u>	<u>27,383,363,250</u>

Notes 1 to 30 Form Part of these Financial Statements. Auditors Report on Pages 13 to 14.


CHAIRMAN


COUNCIL MEMBER

DATE 10/2/2011

[illegible]

NOTES

[illegible]