The STAMINA Program: Implementation and Emerging Outcomes

Atiene S. SAGAY
Acknowledgements

• Government and People of the United States of America
• Office of The Director, National Institutes of Health, National Institute of Nursing Research, National Institute of Neurological Disorders and Stroke, and Fogarty International Center for STAMINA Award Number D43TW010130.
• Vice Chancellor Unijos: Prof S. S. Maimako
• Leadership of all our collaborating institutions
• All our TAC Members (Chaired by Prof Benjamin Ugwu)
• Phyllis Kanki, Rob Murphy, Haruna Muktar MON our Co-PIs
• All STAMINA Key Personnel
• Unijos Office of Research Development
• All STAMINA Admin and Finance Staff
• All human subjects participating in research supported by STAMINA
STAMINA
(Support of Training and Mentoring in Nigeria for Academics)
D43TW010130

Professor Atiene Solomon Sagay
Principal Investigator

University of Jos, Jos Nigeria
Ahmadu Bello University, Zaria Nigeria
Harvard University, Boston USA
Northwestern University, Chicago USA
FUNDED BY FIC/NIH USA
Network Meeting Objectives

• To Enhance Understanding of the STAMINA Program Strategy
• To share accomplishments in the first 3 years
• To highlight successes, challenges and way forward
Support of Training and Mentoring in Nigeria for Academics (STAMINA)

Sagay
Principal Investigator

Training Advisory Committee (TAC)
Uwgu
Chair

Curriculum/Training
Admin Officer

Egah, Musa
Barr Towobola

Training Advisory Committee (TAC)

University of Jos

HIV Outcomes
Reproductive Health
Genomics
Non-Communicable Diseases (NCDs)

Agbaji Akanbi
Mutihir
Imade
Okeahialam

Ahmadu Bello University Zaria

Muktar
Principal Investigator

HIV Outcomes/Genomics
Reproductive Health / NCD

Olayinka
Shittu

HSPH, Boston

Kanki
Principal Investigator

HIV Outcomes
Genomics
Administrative

Meloni, Eisen
Hamel
Smith

Northwestern University, Chicago

Murphy
Principal Investigator

HIV
Outcomes/NCD
NCD/Prostate Cancer
NCD/Breast Cancer
NCD/Reprod. Health

Achenbach
Adam
Gradishar
Simon
Prof Benjamin Ugwu: Chair

- Prof Folasade Ogunsola MBChB PhD FMCPath FWACP
- Prof Christian Happi MSc PhD
- Prof Isaac Adewole MBBS FMCOG FWACS FAS DSc (Hons)
- Prof Saudi Kapiga MD DSc
- Dr. Prosper Okonkwo MBBS FMCPH FWACPH
- Prof Richard Longnecker PhD
- Prof Till Bårnighausen MD MSc PhD
Support and energize research training and mentoring programs for junior faculty (JF) at the University of Jos and Ahmadu Bello University

1. To increase JF capacity to participate in and carry out locally relevant research
2. To contribute to improved human health outcomes
3. To foster the next generation of faculty researchers in Nigeria
4. To build trans-Atlantic research partnerships
Eligibility

Junior faculty (Senior Lecturers and below) at:
University of Jos, Jos
Ahmadu Bello University, Zaria

- Junior Faculty from all health related professional units are eligible (i.e. Medicine, Nursing, Pharmacy, Medical Lab., Vet Medicine, Public Health, Psychology, etc)
STAMINA CORE ACTIVITIES

- Research Trainings
- Mentored Research Support
- Master Degree Scholarship and Support
1. HIV Treatment Outcomes and Co-Infections
2. Reproductive Health
3. Genomics & Bioinformatics
4. Non-communicable Diseases
   • Breast Cancer
   • Prostate Cancer
   • Cardiovascular Disease
   • Neurological Disorders and Stroke
   • Other NCDs of Significant Local Interest
## Titles of Trainings

<table>
<thead>
<tr>
<th>Training Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Responsible Conduct of Research</td>
</tr>
<tr>
<td>Research Ethics (including on-line CITI certification)</td>
</tr>
<tr>
<td>Grant Proposal Writing</td>
</tr>
<tr>
<td>Public Health Research</td>
</tr>
<tr>
<td>Data Analysis and Manuscript Writing</td>
</tr>
<tr>
<td>Mentorship</td>
</tr>
<tr>
<td>Case-Based Teaching Method</td>
</tr>
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</table>
## Basic Biomedical Research Trainings
### STAMINA Program Yearly Targets and Achievements

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
<th>Achievement</th>
</tr>
</thead>
<tbody>
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<td>5</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
<td><strong>401 (401%)</strong></td>
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5 August 2018  
MEPI NETWORK MEETING_Durban August 2018
## STAMINA Mentored Research Program
### Yearly Targets and Achievements

<table>
<thead>
<tr>
<th>Year</th>
<th>UNIJOS</th>
<th></th>
<th>ABU</th>
<th></th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Target</td>
<td>Actual</td>
<td>Target</td>
<td>Actual</td>
<td>Target</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>7</td>
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<tr>
<td>4</td>
<td>5</td>
<td></td>
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<td></td>
<td>6</td>
</tr>
<tr>
<td>5</td>
<td>2*</td>
<td>1</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>22</td>
<td>29</td>
<td>5</td>
<td>6</td>
<td>27</td>
</tr>
</tbody>
</table>

*Only projects that can be completed in 12 months shall be eligible for funding in year 5*
### STAMINA Supported Master Degrees Scholarships Awarded (Cumulative)

<table>
<thead>
<tr>
<th>Unijos and ABU, Zaria</th>
<th>Males</th>
<th>Females</th>
<th>Actual</th>
<th>Target</th>
</tr>
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<tbody>
<tr>
<td>MSc Medical Microbiology/Path</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td></td>
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<tr>
<td>MSc Reproductive Science</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Master in Public Health (MPH)</td>
<td>11</td>
<td>5</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>MSc Clinical Epidemiology</td>
<td>5</td>
<td>2</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MSc Field Epidemiology</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MSc Clinical Epidemiology</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MSc Genomic and Bioinformatics</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MSc Health Policy and Research</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MSc Pharmacology</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>22</strong></td>
<td><strong>9</strong></td>
<td><strong>36</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>
RCR and Mentorship Training
Trainee Mentorship

- There are 2 mentors for each funded mentored research [one from Nigeria and one from USA] selected by respective program leads.
- This strategy may have the following advantages:
  1. Foster deeper collaboration between USA and Nigerian faculty
  2. Enhance the quality of the research and improve the likelihood of more impactful publications
  3. Improve local capacity for mentorship
  4. Provide opportunity for further collaborative grants applications.
  5. Increase the likelihood of completing the respective research projects on schedule
Emerging Outcomes
ALL NEW UNIJOS FACULTY are now required to undergo a compulsory orientation which includes among others:

- Responsible Conduct of Research
- Grants Writing
- Research Ethics
- Mentorship and
- Case-based Teaching

[Currently provided by STAMINA]
THREE (3) MSc degree programs were established in the Department of Community Medicine through STAMINA support:
- Master in Public Health (MPH)
- MSc Clinical Epidemiology
- MSc Field Epidemiology

MSc Reproductive Science: This program was updated and resuscitated by STAMINA in collaboration with the O&G Department and PG School.
## Enrolments in the New MSc Programs

<table>
<thead>
<tr>
<th>MSc Programs</th>
<th>2016/17</th>
<th>2017/18</th>
<th>Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc Reproductive Science</td>
<td>3</td>
<td>18</td>
<td>21</td>
</tr>
<tr>
<td>Master of Public Health (MPH)</td>
<td>12</td>
<td>33</td>
<td>45</td>
</tr>
<tr>
<td>MSc Clinical Epidemiology</td>
<td>6</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>MSc Field Epidemiology</td>
<td>3</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24</strong></td>
<td><strong>63</strong></td>
<td><strong>87</strong></td>
</tr>
</tbody>
</table>
Outcomes 3: Increased Research Sponsorships by University of Jos

- University of Jos Co-sponsoring with STAMINA
  - 2 proposals funded in 2018

- University working with STAMINA to select proposals from non-medical faculties for funding through the ORD.
  - 4 proposals being selected for funding by the ORD in 2018/2019
Outcomes 4: Grant Proposal Writing and Revision Competences

• Increasing numbers of proposals from faculty annually.
  • 2016 29 Proposals Received 8 Funded
  • 2017 35 Proposals Received 15 Funded
  • 2018 60 Proposals Received 18 Funded

[Note: STAMINA also reviews proposals for sister grants]

• Growing competence in proposal revision by the STAMINA Team.
Outcomes 5: Trainees receiving other Research/Training Awards

• Two of the Trainees received the Fogarty Global Health Fellowship Awards ($10,000 award to support proposed research for one year)

• One Trainee received an NIH Grant on Lassa Fever and Deafness, with the University of Texas Medical Branch (UTMB) at Galveston

• One Mentee obtained scholarship to attend the 2018 NCI Summer Curriculum in Principles and Practice of Cancer Prevention / Molecular Epidemiology
Outcomes 6: Enhanced Research Capacity and Infrastructure

- Preventive Medicine Laboratory
- Genomics laboratory
- Immunohistochemistry laboratory
- Tissue/Sample repository
- Cancer Registry with survival tracking
- Some Dedicated research equipment:
  - Echo Machine for children and adults
  - Real-time PCR machine for genomic studies
1. Background weakness in the overall capacity of Senior Faculty for research mentorship

2. Industrial actions in the government hospitals

3. Power challenges
1. Address Research and Mentorship training needs of both Junior and Senior Faculty
2. Consolidate training of current mentees to expedite completion of research projects and publications
3. Promote the generation of credible data sets in the various thematic areas
4. Work with relevant departments to strengthen the new MSc programs and ensure timely completion.
• We are utilizing “CareerTrac”, an online database hosted by the NIH, to gather and report information on all individual trainees funded by the grant.

• For each trainee, the STAMINA Administrator logs:
  • training status, in-country research projects, publications, awards, leadership positions, post-training competitive funding, presentations at scientific meetings, and any other metrics to document how the trainee’s STAMINA-funded training contributed to their overall research development
Prof. Solomon Sagey

*The Principal Investigator (PI) STAMINA*

**LETTER OF COMMENDATION**

The Office Of Research And Development (ORD) Board at its inaugural meeting held on 1st August, 2017 received with satisfaction the report of your Support of Training and Mentoring in Nigeria for Academics (STAMINA) grant activities and exemplary performance especially in the area of increased research capacity building and in establishing an effective system of sustainability for the programme.
Thank You