

#### **PhD Project Ethiopia: Progress Report**

DR Congo, Kinshasa, Dec 2-4, 2015 Eshetu L Haile

MOLECULAR EPIDEMIOLOGY AND GENETIC VARIABILITY OF HUMAN PAPILLOMAVIRUS (HPV) IN ETHIOPIA: EVALUATION OF CERVICAL CANCER SCREENING PROGRAMME AND SPECIMEN COLLECTION TECHNIQUES

Promoters

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### Outlines

- Project Objective
- Project activities
- Success
- Project expenses
- Challenges
- Way forwards

#### OBJECTIVE

#### **Specific objective**

- To assess the clinical performance of HPV DNA test of self-collected specimen versus doctors-collected specimens of women older than 21 years at St. Aklesia Memorial Hospital in Adama city, Ethiopia.
- To determine the molecular epidemiology of HPV using urine samples of unvaccinated women older than 21 years at St. Aklesia Memorial Hospital in Adama city, Ethiopia.
- To compare the clinical performance of VIA, VILI, Pap and HPV DNA test of women older than 21 years at St. Aklesia Memorial Hospital in Adama city, Ethiopia.
- To investigate the genetic variability of HPV-16 and HPV-18 L1and L2 genes of identified in this study.

#### **Project activities**

- CCS awareness creation at community level has been done and continued.
- The cervical cancer screening centre established & opened officially with help of IPRH, SAMH and AAU.
- VIA/LIVA started , PAP smear, biopsy
- The cervical cancer diagnosis & treatment equipments (copoloscopy, LEEP, cryotherapy) is installed and currently in use.
- The centre is fully functional since October 3 2015.
- Used the Pathfinder international registry standard form.





- Training were giving for nurses, doctors, researcher, lab staffs,
- Both theoretical and practical lessons delivered
- Offices equipment and furniture's were purchased.





- More than 145 cases were registered during **IPRH weeks** and 85 women cases were seen and examined.
- A total of 30 women with 60 (doctors and self) samples taken during IPRH weeks.
- An extra 10 women were seen, and 8 samples were collected (self and doctor).
- In total 68 samples are collected.
- Samples stored at RT (waiting for cytology and mol. analysis)

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	Doer sin/Malam. Mer sin/Malam. Mer Eaken Lemmen Halle is a PhD (ID-SGP/1312/06) candidate working on cervical cancer has saturated to proposal to the Addia Abab University College of Shaural Sciences and was granted approval (IRB014001). He has go support on sample collection devices from IPRH (international Partnership for Reproductive Health) (SA domains from Hologi Company Annual Sciences) and was producted to the support of the sample collection devices from IPRH (international Partnership for Reproductive Health) (SA domains from Hologi Company Annual Sciences) and was have a support of the sample collection devices from IPRH (international Partnership for Reproductive Health) (SA domains from Hologi Company Annual Sciences) and the have a support of the sample collection devices from IPRH (international Partnership for health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and the sample collection devices from IPRH (international Partnership) ( health and thealth and the sample collection devi	
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- In addition to existing hospital staffs, one senior nurse is hired and responsible for mentoring the activities of cervical cancer screening centre
- New offices equipment and furniture's were purchased





 500 Thinpre Preservecyt cervical cancer collection donated by IPRH through Hologic company.



- Store at RT (2-30c).
- Currently coordinated screening program is going on.



#### Success

- Cervical cancer screening centre setup completed .
- Samples collection started according to pre-defined criteria's.
- Started good communication with IPRH USA for further support
- Database is being capture using Epi info software (Developed).
- Collaborative case management with Marrystop international clinic setup.
- CCSC Organgram defined



 Ongoing good communication with WAKA HPV networking has been established, more expectation (*particularly cytology and mol. analysis*, etc).

WAKA HPV Africa

 WAKA HPV network create Symposium for PhD student: update and progress of HPV issues in the region.

#### Project expense

- Thinpre Preservcyt kits & shipment: : \$3258/Support from IPRH & Hologic company.
- Awareness, promotion, media, campaign, questionnaires, leaflet, brouchers, transportation cost; etc: **\$930birr/support from AAU**.
- Kits custom clearance: **\$400/** out of the pocket
- Assign a hospital staff for overall coordination and nurse for data collection since October: \$45/month/ out of the pocket
- **SAMH :** all the rest expense related to CCS programme was covered by hospital.

#### Challenges

• Financial problems!! (for molecular analysis, cytology, samples shipment and others activities).

• Urine collection device not available until now... *need support*?.

#### Way forward

- Continue collecting more samples.
- Plan to make additional CCS campaniles.
- Educate and involve more women to visit CCC.
- Need support for urine collection devices.
- Liquid cytology : cytology and molecular analysis will be done at SA.
- Financial support from WAKA HPV Network.
- Initiate the process of specimen import permits from South Africa.
- Identify the need advance molecular training and courses

# Thank you all!

