Utility of visual inspection of the cervix in diagnosing early forms of cervical CANcer in HIV positive women

Submission date 08/12/2012	Recruitment status No longer recruiting	 Prospect Protocol
Registration date 17/01/2013	Overall study status Completed	 Statistica Results
Last Edited 13/07/2015	Condition category Cancer	[_] Individua [_] Record u

- Prospectively registered
- Statistical analysis plan
-] Individual participant data
-] Record updated in last year

Plain English summary of protocol

Background and study aims

Cervical cancer is one of the leading causes of cancer-related deaths for middle-aged women in low income countries. It is estimated that annually, 80,000 new cases and 60,000 deaths occur as a result of cervical cancer in sub Saharan Africa. However, it is a preventable and curable disease; preventable by vaccination and screening and curable if identified at an early stage. The mainstay of cervical cancer screening, cervical cytology, is not feasible in many low income countries at high risk for cervical cancer in view of the considerable financial, technical and manpower resources required for organizing such a program. Hence the adoption of Direct Visual Inspection (DVI) with Acetic acid (DVIA) and/or Lugols Iodine (DVILI) methods for cervical screening in low income countries with high cervical cancer burden because of its comparable ability to detect early precancerous lesions of the cervix, its low technology requirement and cost-effectiveness. In these same settings of high cervical cancer burden, the HIV/AIDS pandemic has overwhelmed the health care systems and had an enormous impact on women, particularly those of reproductive age. Several studies have shown that HIV-infected women have an increased risk for the precursors to cervical cancer, known as human papillomavirus (HPV)associated cervical intraepithelial lesions. With the introduction of more effective antiretroviral (ARV) therapy to treat HIV, the spectrum of disease in the AIDS epidemic has been shifting. It is projected that 20 - 40% of HIV infected individuals will be diagnosed with cancer, including cervical cancer. As a result of the ARV drug scale up, increasing numbers of women are linked to antiretroviral therapy treatment programs that have the potential to improve their lifespan. At present, DVIA is being used to diagnose early forms of cervical cancer in HIV positive women. However considering the poor detection rate of other diseases like tuberculosis using proven tools in HIV positive people, perhaps DVIA will be less effective in women infected with HIV. Until now, no randomised controlled studies (a type of study design) have evaluated how sensitive DVIA will be in diagnosing early forms of cervical cancer in women living with HIV. The objective of this study is to determine how accurate DVIA is in diagnosing early forms of cervical cancer using cytology as the gold standard.

Who can participate?

HIV positive women aged 18 years and above. Women who refuse to give consent or are allergic to Lugol's iodine cannot participate.

What does the study involve?

1000 participants will be recruited and will be randomly allocated to be screened with either acetic acid (500 participants) or Lugol's iodine (500 participants). All the participants will also be screened with a Pap smear.

What are the possible benefits and risks of participating?

Participants will know their HIV status as well as be screened for early forms of cancer of the cervix. HIV positive women will also be offered free comprehensive HIV services at our treatment centre. Women who test positive for early forms of cervical cancer will be sent to a service at a nearby teaching hospital where we have an arrangement with the consultant in charge. There is no known side effect of the diagnosis. However we are aware that some women may react to Lugol's iodine and we will exclude women with history of this.

Where is the study run from? Clinical Research Centre, Nigerian Institute of Medical Research Lagos.

When is the study starting and how long is it expected to run for? Recruitment for the study started in December 2011 and will last for 6 months. The study is expected to end in June 2012.

Who is funding the study? Nigerian Institute of Medical Research Lagos

Who is the main contact? Dr Oliver Ezechi oezechi@nimr.gov.ng

Contact information

Type(s) Scientific

Contact name Dr Oliver Ezechi

Contact details Clinical Sciences Division Nigerian Institute of Medical Research Lagos Nigeria 101212 +234 (0)803 3065683 oezechi@nimr.gov.ng

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers NM/MRCH/12/001

Study information

Scientific Title

Effect of HIV infection on Human Papilloma Virus (HPV) distribution pattern, cervical cancer burden and diagnostic accuracy of direct visual inspection in Nigeria

Acronym

CANHIV

Study objectives

The sensitivity and specificity of Direct Visual Inspection will significantly be altered by Human Immunodeficiency Virus (HIV) infection and immunosuppression.

On 30/01/2014 the following changes were made to the trial record:

- 1. The overall trial start date was changed from 01/12/2012 to 01/12/2011
- 2. The target number of participants was changed from '500' to 'Two groups of 500'

Ethics approval required

Old ethics approval format

Ethics approval(s)

Institutional Review Board, Nigerian Institute of Medical Research Lagos, February 2011, ref: IRB-10-126A

Study design

Randomised controlled open-label trial

Primary study design Interventional

Secondary study design Randomised controlled trial

Study setting(s) Hospital

Study type(s) Screening

Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

Health condition(s) or problem(s) studied

HIV, premalignant lesion of the cervix

Interventions

Screening of premalignant conditions of the cervix using visual inspection with Direct Visual Inspection (DVI) with Acetic acid (DVIA) and/or Lugol's Iodine (DVILI).

Intervention Type Other

Phase Not Applicable

Primary outcome measure Premalignant lesion of the cervix

Secondary outcome measures High-risk HPV types

Overall study start date 01/12/2011

Completion date 30/06/2013

Eligibility

Key inclusion criteria

Nigerian
 Female
 Aged 18 years or over

4. Known HIV status

Participant type(s) Patient

Age group Adult

Lower age limit 18 Years

Sex Female

Target number of participants Two groups of 500

Key exclusion criteria

1. Known reaction to Lugol's iodine

2. Refusal to do HIV test

3. Overt cancer of the cervix

Date of first enrolment 01/12/2011

Date of final enrolment 30/06/2012

Locations

Countries of recruitment Nigeria

Study participating centre Nigerian Institute of Medical Research Lagos Nigeria 101212

Sponsor information

Organisation Nigerian Institute of Medical Research (Nigeria)

Sponsor details 6 Edmund Crescent Yaba Lagos Nigeria 101212

admin@nimr.gov.ng

Sponsor type

Government

Website http://www.nimr.gov.ng/

ROR https://ror.org/03kk9k137

Funder(s)

Funder type Government

Funder Name Nigerian Institute of Medical Research, Lagos (Nigeria)

Results and Publications

Publication and dissemination plan Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary Not provided at time of registration