

③ ケニア側提示のプロポーザル（抜粋）

**TENTATIVE MASTER PLAN**

**OF THE**

**RESEARCH AND CONTROL OF INFECTIOUS**

**DISEASES PROJECT IN KENYA (II)**

**KEMRI/JICA PROJECT -4TH PHASE  
(1 MAY, 1996 to 30 APRIL, 2001)**

## **AIMS AND OBJECTIVES OF THE PROJECT**

### **HIV/AIDS Programme**

#### **General Objective:**

To develop and install basic technical capabilities and capacity for the prevention, control and management of HIV/AIDS through multidisciplinary scientific investigations.

#### **Specific Objectives:**

- a) To develop sustainable cost-effective diagnostic kits and sensitive techniques for the diagnosis of HIV
- b) To isolate and characterize the virus for molecular epidemiology
- c) To screen African plant substances for antiviral activity and in vitro drug sensitivity testing
- d) To study the natural history, aetiology, clinical management and control of HIV/AIDS and related STDs infections in the selected cohorts

### **ARI Programme**

#### **General Objective:**

To develop and install basic technical capabilities and capacity for the prevention, control and management of acute respiratory infections through multidisciplinary scientific investigations.

#### **Specific Objectives:**

- a) To study the aetiology, epidemiology and risk factors of ARI in selected cohorts
- b) To develop appropriate preventive and management strategies for the control of ARI
- c) To develop improved diagnostic methodologies that distinguish between ARI and other infections
- d) To establish biotechnological techniques for the diagnosis, management and control of ARI
- e) To relate antibacterial drug sensitivity to therapeutic responses in ARI

### **Viral Hepatitis Programme**

#### **General Objective:**

To prevent viral hepatitis and to study related hepatocellular carcinoma

#### **Specific Objectives:**

- a) To promote sustainable blood screening and to reduce the prevalence of viral hepatitis
- b) To promote widespread utilization of the KEMRI Hep Cell diagnostic kit in the region
- c) To introduce sensitive molecular diagnostic techniques such as PCR for viral hepatitis
- d) To conduct basic studies on hepatocellular carcinoma

### TENTATIVE SCHEDULE OF IMPLEMENTATION

PROJECT MANAGEMENT SHEET (Programme-basis) Date: March 1996

Programme: HIV/AIDS

Coordinator: Dr. P. Tukei

Objective		Verifiable Indicators		Means of Verification
To develop and install technical capability and capacity for the prevention, control and management of HIV/AIDS through multidisciplinary scientific investigations		Quantitative: The capability installed. Number of research scientists trained  ----- Qualitative: Operational HIV/AIDS research activities		Number of publications
SSC No.	Sub-programme	From	To	Officer in-charge
001	Development of sustainable diagnostic kits for HIV	Jan 97	Dec 1999	Dr. B. Khan Mr. E. Songok
002	Isolation and characterization of the virus	Dec 1998	Dec 2000	Mr. E. Songok
003	Screening of plant compounds for antiviral activity	Jan 1997	Dec 2000	Dr. W. Kofi-Tsekpo
004	Studies on aetiology, epidemiology, diagnosis, clinical management, natural history, prevention and control of opportunistic infections in HIV/AIDS	Jan 1997	Jul 1999	Dr. Waiyaki Dr. Chakaya Dr. Orege Dr. Oloo
005	Vertical transmission of HIV and prophylaxis	Jan 1997	Dec 1998	Prof. J. Mati Dr. L. Kirumbi
006	Nutrition and HIV infection	Jan 1997	Dec 2000	Mr. J. Muttunga
007	Immunology of HIV and co-infection	Jan 1997	Mar 2001	Mr. J. Mwatha Dr. J. Ochofa
008	Community based health education and sociological studies	Jan 1997	Mar 2001	Mr. Karama Mr. Kisingu

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 001a

General Objective: To develop sensitive and sustainable diagnostic kit for HIV

Output	Verifiable Indicators	Means of Verification
A very sensitive diagnostic kit	Quantitative: Number of kits producible  Qualitative: Sensitivity and specificity of HIV genomes	Production of scientific papers and evaluation

## Duration

Activities	From	To	Weeks	In-charge
Blood, semen, saliva and urine sample collection	Jul 1996	Dec 1996	26	Dr. Khan Mr. Songok
Testing of HIV in these samples using ELISA and Western Blot	Jul 1996	Dec 1996	26	"
Primer synthesis locally at ILRI and/or acquired from Japan	Jul 1996	Dec 1996	26	"
Optimizing nucleic acid extraction technique for PCR	Oct 1996	Dec 1996	12	"
Optimizing PCR reactions by varying parameters eg. primers, MgCl <sub>2</sub> concentration, cycling parameters etc	Jan 1997	Mar 1997	12	"
Evaluation of methods (ethidium bromide stained agarose gel electrophoresis, isotopic and colorimetric) for PCR product detection	Apr 1997	Jun 1997	8	"
Simplifying procedure for nucleic acid extraction, PCR and product detection	Jul 1997	Dec 1998	26	"
Testing of PCR kit in laboratory setting	Jan 1988	Jul 1999	78	"
Comparison of NASBA and PCR	Jan 1999	Dec 1999	52	"
Testing of PCR kit in a hospital setting	Aug 1999	Dec 1999	16	"
Final evaluation, review and dissemination of results through workshops, seminars and publications	Jul 2000	Mar 2001	40	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 001a**

	ITEM	1996/97
1	<b>LABORATORY:</b>  1.1 Reagents: - Chemicals .30,000x2=60,000..... - Biologicals .50,000 x 4= 20,000.... 1.2 Supplies: - Glassware and plasticware .20,000x4=80,000..... - Others 10,000x4=40,000 1.3 Animals - Purchase and Maintance .....	
	Sub-total	
2	<b>FIELD:</b>	380,000
	2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>  3.1 Patient cost and Drugs ..... 3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software .5,000x2= 10,000..... 5.2 Stationery .....5,000x2= 10,000..... 5.3 Communications .....	
	Sub-total	20,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>400,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

SSC No. 001b

Co-ordinator: Dr. P. Tukei

General Objective: To develop HIV diagnostic kit(s)

Output	Verifiable Indicators	Means of Verification
A simple and rapid diagnostic kit	Quantitative: Number of kits produced  Qualitative: Sensitivity, specificity, reproducibility	Sustainability, simplicity and reproducibility

## Duration

Activities	From	To	Weeks	In-charge
Training at Fujirebio Serodia Company in Japan	Jan 1997	Mar 1997	12	Mr. Songok
Acquisition and raising of sheep for erythrocytes	Jan 1997	Mar 1997	12	Mr. Ogutu
Acquisition of viral lysates from Fujirebio Company	Jun 1997	Jul 1997	4	JICA expert
Establish a clean water system	Apr 1997	May 1997	8	Director
Preparation of sheep erythrocytes and adsorption of viral lysates	Jul 1997	Aug 1997	4	Mr. Songok
Lyophilization and laboratory evaluation of the products	Jul 1997	Sep 1997	12	"
Training of laboratory technologists in field operations	Nov 1998	Jan 1999	8	Team
Quality control and assurance procedures	Oct 1997	Dec 1997	8	"
Optimizing antigen extraction for particle agglutination test (PA)	Oct 1996	Dec 1996	12	Mr. Songok
Piloting antigen coating of particles	Jan 1997	Mar 1997	12	"
Laboratory testing of PA kit	Apr 1997	Jun 1997	8	"
Field testing of PA kit	Aug 1997	Dec 1997	12	"
Testing of PA in a hospital set up	Jan 1998	Jul 1998	26	"
Final evaluation of the kit	Dec 1998	Dec 1999	52	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 001b**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals ..30,000..... - Biologicals 15,000..... 1.2 Supplies: - Glassware and plasticware .40,000..... - Others (water filtration) 100,000 1.3 Animals - Purchase and Maintainance .25,000.....	
	Sub-total	210,000
2	<b>FIELD:</b>  2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....5,000.....	
	Sub-total	5,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software .....3,000..... 5.2 Stationery .....2,000..... 5.3 Communications .....5,000.....	
	Sub-total	10,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>225,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 002a

General Objective: To isolate and characterize HIV by PCR

Output	Verifiable Indicators	Means of Verification
- Characterize HIV circulating in Kenya - Sequence HIV polgene	Quantitative: Number of HIV isolates characterized and sequenced  Qualitative: Reproducibility of results	Laboratory records  External quality control of results

## Duration

Activities	From	to	Weeks	In-charge
Acquisition of reagents and nucleic acid extractions	Jul 1996	Dec 1996	26	J. Kanyara
Proviral DNA and HIV RNA PCR	Jan 1997	Apr 1997	12	"
Evaluation of HIV by PCR	May 1997	Jun 1997	4	"
Training in quantitative PCR, usage of molecular biology software and techniques	Aug 1997	Dec 1997	16	"
Multiplex PCR and evaluation of diagnostic multiplex PCR	Jan 1998	Dec 1998	52	"
Primer design, synthesis and mutation specific PCR	Jul 1998	Dec 1998	26	"
Primer design, synthesis and PCR amplification of HIV polgene	Jun 1999	Dec 1999	26	"
Direct sequencing of PCR amplified fragments of polgene	Jan 2000	Dec 2000	52	"
Sequence analysis and correlation with in vivo and in vitro activities	Jan 2001	Mar 2001	12	"

**OPERATIONAL COSTS :**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 002a**

	<b>ITEM</b>	<b>1996/97</b>
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	550,000
	- Biologicals .....	850,000
	1.2 Supplies:	
	- Glassware and plasticware .....	275,000
	- Others	110,000
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	<b>1,785,000</b>
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	
<b>5</b>	<b>DATA MANAGEMENT:</b>	<b>220,000</b>
	5.1 Computer software .....	110,000
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	<b>330,000</b>
<b>6</b>	<b>CONFERENCE-SEMINARS-MBETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS (Training)</b>	<b>165,000</b>
	<b>TOTAL</b>	<b>2,280,000</b>

**PROJECT MANAGEMENT SHEET (Sub-Programme-basis)**

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 002b

General Objective: To determine serological and biological characteristics of HIV

Output	Verifiable Indicators	Means of Verification
Serotypes, genotypes and biotypes of HIV determined	Quantitative: Number of HIV strains typed  Qualitative:	Records and publications

**Duration**

Activities	From	To	Weeks	In-charge
Field collection of HIV positive samples (all provincial laboratories)	July 96	Dec 1997	78	Dr. Nyamongo Mr. Songok
Testing by ELISA and Western blot	July 96	Sep 1996	12	Ms. Oogo
Acquisition of subtype specific peptides, coating and running peptide ELISA	July 97	Dec 1997	26	Mr. Songok Ms. Mutura
Confirmation by PCR and Hetero-Duplex Mobility Assays (HDMA)	July 97	Sep 97	12	Ms. Mutura
Field collection of samples from cohorts	July 97	Dec 98	78	Mr. Songok
Lymphocyte and plasma separation	July 97	Aug 97	4	Ms. Oogo
Peptide ELISA, PCR and HDMA	Jan 98	Mar 98	12	Ms. Mutura
Viral cultures	Jan 98	Mar 98	12	Ms. Oogo
Project evaluation	Jan 2001	Mar 2001	12	Dr. Tukei

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 002b**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals .....110,000..... - Biologicals ....315,000..... 1.2 Supplies: - Glassware and plasticware .165,000..... - Others 110,000 1.3 Animals - Purchase and Maintenance .....	
	Sub-total	700,000
2	<b>FIELD</b> 2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diem ..210,000.....	
	Sub-total	210,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....175,000-.....	
	Sub-total	175,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ...5,000..... 5.2 Stationery .....5,000..... 5.3 Communications .....5,000.....	
	Sub-total	15,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	20,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,120,000</b>

PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Busia

Coordinator: Dr. P. Tukei

SSC No. 002c

General Objective: To determine serological characteristics of HIV in Busia

Output	Verifiable Indicators			Means of Verification
Serotypes determined	Quantitative: No. of serotypes identified Qualitative:			Reports and publications
Activities	From	To	Weeks	In-charge
Training on virological techniques by PCR, ELISA and Western Blot	Jan 97	Jun 97	26	Mr. Songok
Acquisition of required equipment and supplies	Mar 97	Jun 97	12	Director
Collection and processing of samples for HIV	Jul 97	Dec 97	24	Mr. Were Mr. Manyasa
Shipment of samples to VRC for genotype analysis	Jan 98	Mar 98	12	Mr. Were
Data analysis and report writing	Jun 99	Dec 99	24	Dr. Orege Mr. Komollo

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 002c**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	300,000
	- Chemicals .....	
	- Biologicals .....	
	1.2 Supplies:	30,000
	- Glassware and plasticware .....	
	- Others	
	1.3 Animals	
	- Purchase and Maintance .....	
	Sub-total	330,000
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	43,000
	2.1 Follow up and Operations.....	34,000
	2.3 Field help and per-diems .....	
	Sub-total	77,000
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	48,000
	4.2 Operation .....	148,000
	Sub-total	196,000
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	20,000
	5.3 Communications .....	20,000
	Sub-total	50,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS (Equipment repair)</b>	36,000
	<b>TOTAL</b>	<b>689,000</b>

## PROJECT MANAGEMENT SHEET (Sub-programme basis)

Date MARCH, 1996

Programme: HIV/AIDS in Busia

Coordinator: Dr. P. Tukey

SSC No. 002d

General Objective: To set up viable cohort for HIV/AIDS studies in Busia District

Output	Verifiable Indicators	Means of Verification
Establishment of cohort	Quantitative:	Frequent evaluation and monitoring
	Qualitative	

## Duration

Activity	From	To	Weeks	In-charge
Identify and survey study area for suitable infrastructure.	Jul 1996	Aug 1996	4	Dr Orege
Organize meetings with administration	"	"	4	Mr. Okelo
Develop forms to be used in study	"	Jul 1996	2	Mr. Okuku
Recruit field assistants from the study area, and identify health problems	Sep 1996	Oct 1996	4	Mrs. Oloo
Organize seminars for health workers and other field assistants	Sep 1996	Oct 1996	4	"
Pretesting of forms to be used in study	Nov 1996	Nov 1996	2	"
Screen patients attending sexually transmitted infections, dermatological, antenatal clinics and/or general clinics.	Dec 1996	Jun 1997	26	"
Counselling to inform patients of study objectives and seek consent	"	"	26	"
Take blood from patients aged between 14-60 years	"	"	26	"
Registration of study cases using predesigned forms.	"	"	26	"
Conduct monthly follow up of HIV/AIDS cases by field assistants and field officers	Jan 1997	Dec 2000	208	"
Defaulter tracing and active case follows ups using field assistants	"	Jan 1998	156	"
Data analysis and report writing	Dec 2000	May 2001	24	"

**OPERATIONAL COSTS**

PROGRAMME: HIV/AIDS  
Sub-Programme SSC No. 002d

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals ...60,000..... - Biologicals .....	
	1.2 Supplies: - Glassware and plasticware .....	
	1.3 Animals - Purchase and Maintenance .....	
	Sub-total	60,000
2	<b>FIELD:</b> 2.1 Recruitment.....76,000..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems ..180,000.....	
	Sub-total	256,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..50,000..... 3.2 Supplies	
	Sub-total	50,000
4	<b>TRANSPORT:</b> 4.1 Maintenance .....50,000..... 4.2 Operation .....207,000.....	
	Sub-total	257,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software .....10,000..... 5.2 Stationery .....10,000..... 5.3 Communications .....20,000.....	
	Sub-total	40,000
6	CONFERENCE-SEMINARS-MEETINGS ETC	10,000
7	EVALUATION AND CONSULTANTS	10,000
8	OTHERS (Gum boots, field bags, etc)	6,000
	<b>TOTAL</b>	<b>699,000</b>

PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Kisumu

SSC No. 002e

General Objective: Molecular epidemiology of HIV strains.

Coordinator: Dr. P. Tukei

Output	Verifiable Indicators	Means of Verification
HIV strains characterized	Quantitative: Number and frequency of strains  Qualitative:	Confirm by reference strains

Duration

Activities	From	To	Weeks	In-charge
Renovation of laboratory and ward facilities	Jul 96	Aug 96	12	Director VBCRC
Recruitment of cohort, registration, census and demographic	July '96	Dec 96	26	Dr. Oloo, Dr. Adungo Mr. Seroney Mr. Agwanda,
Set up PCR technique, validate performance and isolate the virus	Nov. '96	Oct'96	28	Drs. Adungo, Orege, Oloo,
Collection of serological specimens	Nov. '96	Dec.'97	48	Dr. Adungo
Perform serotyping of HIV strains and train technical staff	Nov. 96	Dec.'97	48	"
Data analysis	Jan. '98	Mar '98	12	Mr. Agwanda

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 002e**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals .....100,000..... - Biologicals .....100,000..... 1.2 Supplies: - Glassware and plasticware .75,000..... - Others 1.3 Animals - Purchase and Maintance .....	
	Sub-total	275,000
2	<b>FIELD:</b> 2.1 Recruitment.....84,000..... 2.1 Follow up and Operations.....50,000..... 2.3 Field help and per-diems ....36,000.....	
	Sub-total	170,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ...50,000..... 3.2 Supplies                   15,000	
	Sub-total	65,000
4	<b>TRANSPORT:</b> 4.1 Maintenance .....25,000..... 4.2 Operation .....50,000.....	
	Sub-total	75,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software .....1,000..... 5.2 Stationery .....5,000..... 5.3 Communications .....1,000.....	
	Sub-total	7,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	1,000
7	<b>EVALUATION AND CONSULTANTS</b>	5,000
8	<b>OTHERS</b>	-
	<b>TOTAL</b>	<b>598,000</b>

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 003a

General Objective: To set up anti-HIV replication assays at a molecular level and to determine anti-viral activity in compounds from plants extracts

Output	Verifiable Indicators	Means of Verification
Plant extracts and/or compounds	Quantitative: Number extracts and/or compounds	Biological Assays 1. Anti-syncytial formation 2. Anti-Reverse transcriptase 3. Anti-protease
Replication assay and intergrate assay	Qualitative: Anti-viral inhibitory titres of the extracts and/or compounds	Scores of inhibitory titres 1-3 low 4-6 medium 7-10 high  Records and publications

## Duration

Activities	From	To	Weeks	In-charge
Establishment and standardization of biological Assays 1. syncytial formation in T.C for HIV 2. Reverse transcriptase assays with avian myeloblastosis virus 3. Protease and intergrase assays for HIV 4. HIV-antigen assays Other viral assays in T.C.	Jul 1996	Dec 1996	24	Tukei Songok Muli Kanyara
2. Anti-viral assays using plant extracts and/or compounds	Jan 1997	Dec 1998	104	Songok Mutura Kofi-Tsekpo
3. Specific anti-viral assays for selected purer compounds	Jan 1999	Dec 2000	104	Kanyara
4. Evaluation and future plan	Jan 2001	Mar 2001	12	Kofi-Tsekpo Tukei

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 003a**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	825,000
	- Chemicals .....	1,100,000
	- Biologicals .....	
	1.2 Supplies:	165,000
	- Glassware and plasticware .....	55,000
	- Others	
	1.3 Animals	
	- Purchase and Maintance .....	
	Sub-total	2,145,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b>	55,000
	5.1 Computer software .....	55,000
	5.2 Stationery .....	55,000
	5.3 Communications .....	
	Sub-total	165,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	275,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>2,585,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS

Co-ordinator: Dr. P. Tukei

SSC NO. 003b

General Objective: To evaluate compounds from Kenyan medicinal plants for the management of HIV/AIDS infections: Phytochemical evaluation of six families found in Kenya.

Output	Verifi-able Indicators	Means of Verification
Isolation and characterization of compounds with potential anti-HIV activity from selected Kenyan plants.	Quantative: Number of biologically active compounds isolated.	Identification and characterization of compounds. In vitro antiviral (including antiretroviral, anti HIV), antibacterial and antifungal bioassays.
Evaluation of antiviral, antifungal and antibacterial activities of the compounds isolated.	Qualitative: Degree of purity of the biologically active compounds.	Chromatographic evaluation

## Duration

Activities	From	To	Weeks	In-charge
Identification of areas for plant collection, acquisition of solvents and reagents	July	July	4	Kioy/Karekezi
Collection and extraction of plant materials (location 1)	August	August	2	Kioy/Karekezi
a) Field trip collection of plant materials and authentication of plant identity.	August	Sept.	4	Kioy/Karekezi
b) Drying and preparation of plant materials.	Sept.	Nov.	8	Kioy/Karekezi
c) Extraction of plant material.	Nov.	November	2	Kioy/Karekezi
d) Preparation of extracts for preliminary antiviral, antibacterial and antifungal bioassays.	December	December	4	Kioy/Karekezi
e) Evaluation and Report writing				
Repeat (2). in location II	January '97	June '97	24	Kioy/Karekezi
Carry out preliminary phytochemical screening of materials collected in (2). e.g. TLC.	Jan. '97	June '97	24	Kioy/Karekezi
Separation of fractions from location 1 and preparation of samples for bioassay.	Jan. '97	June '97	24	Kioy/Karekezi

**OPERATIONAL COSTS**

PROGRAMME: HIV/AIDS  
 Sub-Programme SSC No. 003b

	ITEM	1996/97
1	<b>LABORATORY:</b>	174,000
	1.1 Reagents:	
	- Chemicals .....	
	- Biologicals .....	
	1.2 Supplies:	145,000
	- Glassware and plasticware .....	
	- Others	26,100
	1.3 Animals	
	- Purchase and Maintance .....	
	Sub-total	345,100
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	100,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	45,000
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	45,000
5	<b>DATA MANAGEMENT:</b>	20,300
	5.1 Computer software .....	
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	20,300
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	345,000
7	<b>EVALUATION AND CONSULTANTS</b>	30,000
8	<b>OTHERS</b>	60,000
	<b>TOTAL</b>	<b>945,400</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS

Co-ordinator: Dr. P. Tukei

SSC No. 003c

General Objective: To evaluate compounds from Kenyan medicinal plants for the management of HIV/AIDS infections.

Output	Verifi-able Indicators	Means of Verification
Identification of Bioactive compounds against HIV/AIDS and related conditions	Quantitative: Number of compounds identified  Qualitative: Specificity and degree of activity	Tests for effects on RT, HIV-cell fusion, apoptosis; other virus, bacteria, fungi Scoring of activity according to low, medium, high

Activity	From	To	Weeks	Officer-in-charge
Collection of plant materials	Jul 96	Dec 96	24	Dr. Kofi-Tsekpo Dr. Rukunga
Preliminary photochemical screening	"	"	"	"
Animal experiments	"	"	"	"
Preparation of extracts/compounds for in vitro anti-HIV immunological and anti-microbial studies	"	"	"	"
In vitro anti-HIV, immunological anti-microbial tests	"	"	"	Dr. Kibaya
Data analysis, evaluation and report preparation	Nov 96	Dec 96	4	Mr. Muttunga Dr. Kofi-Tsekpo
Fractionation of extracts and isolation of compounds	Jan 97	Jun 97	24	Dr. Kofi-Tsekpo
In vitro anti-HIV, immunological and antimicrobial tests	"	"	"	"
Animal experiments	"	"	"	"
Data analysis, evaluation, report writing tests	May 97	Jun 97	4	Dr. Kofi-Tsekpo Mr. Muttunga

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 003c**

	<b>ITEM</b>	<b>1996/97</b>
<b>1</b>	<b>LABORATORY:</b>	<b>1,500,000</b>
	1.1 Reagents:	
	- Chemicals .....	70,280
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	115,070
	- Others	
	1.3 Animals	12,000
	- Purchase and Maintenance .....	
	Sub-total	<b>1,697,350</b>
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	228,000
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	<b>228,000</b>
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	<b>48,000</b>
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	<b>48,000</b>
<b>5</b>	<b>DATA MANAGEMENT:</b>	<b>40,000</b>
	5.1 Computer software .....	15,000
	5.2 Stationery .....	20,000
	5.3 Communications .....	
	Sub-total	<b>75,000</b>
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	<b>120,000</b>
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	<b>30,000</b>
<b>8</b>	<b>OTHERS</b>	<b>60,000</b>
	<b>TOTAL</b>	<b>2,258,350</b>

Programme: HIV/AIDS

Co-ordinator: Dr. P. Tukei

SSC No. 003d

General Objective: To assess toxicity of plant compounds

Output	Verifiable Indicators		Means of Verification	
Assesment of toxicity of plant compunds on mammalian cell culture system	Quantitative: Number of compounds used in cell lines	Qualitative: Specific activity of compounds on specific cell lines e.g type of toxicity	Titration of drug concentration especially the lowest that exhibits toxicity Scoring system of 1 to 10 to describe results	
Activity	From	To	Weeks	In-charge
Acquisition of laboratory reagents and consumables	Jul 96	Dec 96	24	Mr. Magana
Acquisition of cell cultures and media	Jan 97	Jul 97	24	*
Toxicity tests on plant compounds on mammalian cells	*	June 98	50	*
Report preparation	Jul 98	Oct 98	24	*

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 003d**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	165,000
	- Biologicals .....	385,000
	1.2 Supplies:	
	- Glassware and plasticware .....	275,000
	- Others	
	1.3 Animals	
	- Purchase and Maintance .....	165,000
	Sub-total	990,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b>	55,000
	5.1 Computer software .....	55,000
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	110,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	10,000
	<b>TOTAL</b>	<b>1,110,000</b>

PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS

Co-ordinator: Dr. P. Tukei

SSC No. 003e

General Objective: To determine minimum inhibition concentration of plant compounds

Output	Verifiable Indicators	Means of Verification			
To carry out in vitro anti fungal, and antibacterial of crude fractions of compounds from plants To determine the MIC	Quantitative: Number of compounds with antifungal and antibacterial activities Qualitative: Use of standard strains and human isolates	Culture, serial dilutions, disc diffusion methods  Scoring by less active, active, and very active			
Activities	From	To	Weeks	In-charge	
Standardization of methods and equipment	Jul 96	Sep 96	12	Ms. C. Bii	
In vitro antifungal/antibacterial activity of crude extracts to test efficacy, purity of compounds and MIC	Jul 97	Mar 2001	196	Mr. B. Obanda	

**OPERATIONAL COSTS**

PROGRAMME: HIV/AIDS  
Sub-Programme SSC No. 003e

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	275,000
	- Chemicals .....	300,000
	- Biologicals .....	
	1.2 Supplies:	210,000
	- Glassware and plasticware .....	
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	240,000
	Sub-total	1,025,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	5,000
	5.3 Communications .....	
	Sub-total	15,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	5,000
	<b>TOTAL</b>	<b>1,045,000</b>

PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 004a

General Objective: To isolate, characterize and conduct drug sensitivity studies of opportunistic bacterial pathogens

Output	Verifiable Indicators	Means of Verification
Bacterial isolates identified and characterized	Quantitative: Number of bacterial isolates identified  Qualitative: Species characterized	Records and publications

Duration

Activities	From	To	weeks	In-charge
- Isolation & identification studies of the bacterial pathogens	Oct 96	Jun 97	36	Mr. Obanda
- isolation & identification of the pathogens - molecular biology techniques and use of PCR plasmid, conjugation and transformation studies - MIC - Antibacterial efficacy of traditional medicines	Jun 97	Jun 98	50	"
- Compiling of data, follow up of studies	Jun 2000	Mar 2001	38	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 004a**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	<b>1.1 Reagents:</b>	<b>445,000</b>
	- Chemicals .....	545,000
	- Biologicals .....	
	<b>1.2 Supplies:</b>	<b>120,000</b>
	- Glassware and plasticware .....	200,000
	- Others	
	<b>1.3 Animals</b>	
	- Purchase and Maintance .....	
	Sub-total	<b>1,310,000</b>
<b>2</b>	<b>FIELD:</b>	
	<b>2.1 Recruitment.....</b>	
	<b>2.1 Follow up and Operations.....</b>	
	<b>2.3 Field help and per-diems .....</b>	
	Sub-total	
<b>3</b>	<b>CLINICAL:</b>	
	<b>3.1 Patient cost and Drugs .....</b>	
	<b>3.2 Supplies</b>	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	<b>4.1 Maintenance .....</b>	
	<b>4.2 Operation .....</b>	
	Sub-total	
<b>5</b>	<b>DATA MANAGEMENT:</b>	<b>110,000</b>
	<b>5.1 Computer software .....</b>	<b>10,000</b>
	<b>5.2 Stationery .....</b>	
	<b>5.3 Communications .....</b>	
	Sub-total	<b>120,000</b>
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	<b>60,000</b>
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	<b>20,000</b>
<b>8</b>	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,510,000</b>

PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 004b

General Objective: To isolate, characterize and conduct drug sensitivity studies of opportunistic fungal pathogens

Output	Verifiable Indicators	Means of Verification
-Fungal pathogens isolated, identified and characterized	Quantitative: -Number of typed fungal pathogens  Qualitative: Species characterized	Records and publications

Duration

Activities	from	to	Weeks	In-charge
Isolation, identification and drug sensitivity studies of fungal agents	Oct 96	Jun 97	42	Ms. C. Bii
Application of molecular techniques eg. PCR, DNA and plasmid analysis for further studies eg. serotypes	Jun 97	Jun 98	50	"
Follow up studies, data analysis and report compiling	Jun 2000	Mar 2001	38	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 004b**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	220,000
	- Chemicals .....	
	- Biologicals .....	300,000
	1.2 Supplies:	60,000
	- Glassware and plasticware .....	100,000
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	680,000
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	30,000
	5.2 Stationery .....	10,000
	5.3 Communications .....	
	Sub-total	40,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	60,000
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	20,000
<b>8</b>	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>800,000</b>

## PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 004c

General Objective: To study the prevalence and severity of viral diarrhoea in HIV infected children

Output	Verifiable Indicators	Means of Verification
Understanding the role of rotavirus in HIV positive children with diarrhoea	Quantitative: Prevalence rates  Qualitative: Clinical assessment	Records

Duration

Activities	From	To	Weeks	In-charge
Recruitment of newborns in collaboration with vertical transmission team	Jul 1996	Jun 1998	104	Dr. Gatheru Dr. Kirumbi
Monitor the cohorts clinically for diarrhoea and HIV status	Jan 1997	Jun 1998	72	Dr. Gatheru Mr. Kiplagat Mr. Kanyara
Laboratory analysis of stool specimens for rotavirus and tissue culture and characterization of isolates by ELISA, EM, PAGE and PCR	Apr 1997	Jun 1998	60	Mr. Kiplagat, Mr. Ogaja, Mr. Nyangao, Mr. Muli
Data analysis and evaluation	Jul 1998	Dec 1998	24	Dr. Gatheru Dr. Tukei

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 004c**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	110,000
	- Biologicals .....	275,000
	1.2 Supplies:	
	- Glassware and plasticware .....	165,000
	- Others	165,000
	1.3 Animals	
	- Purchase and Maintance .....	
	Sub-total	715,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	110,000
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	110,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	55,000
	Sub-total	55,000
4	<b>TRANSPORT:</b>	110,000
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	110,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	55,000
	5.2 Stationery .....	10,000
	5.3 Communications .....	
	Sub-total	65,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	10,000
	<b>TOTAL</b>	<b>1,065,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Coordinator: Dr. P. Tukei

SSC No. 004d

General Objective: To assess clinical manifestations, clinical progression of HIV/AIDS patient and to correlate clinical status with immunological parameters and opportunistic infections in order to develop management strategies

Output	Verifiable Indicators	Means of Verification
Description of Clinical presentations, clinical progression, clinical, immunological correlates and management strategies evolved	Quantitative: Range of manifestations described ----- Qualitative:	Records and reports

Duration

Activities	From	to	Weeks	In-charge
Organization of clinical management teams and development management protocols, case record forms(CRF), activity flow charts (AFC) and duty registers	June 96	Jul 96	4	Dr. Rashid, Dr. Tukei Dr. Odhiambo
Training on the protocols	Aug 96	Sept 96	4	"
Acquisition of supplies and establishment of management protocols	"	Oct 96	8	Director CRC
Recruitment of patients from cohorts	Oct 96	Sept 99	156	Dr. Rashid Dr. Tukei Dr. Odhiambo
Report writing	Jan 2001	Mar 2001	12	Director CRC

OPERATIONAL COSTS

PROGRAMME: HIV/AIDS  
Sub-Programme SSC No. 004d

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	55,000
	- Biologicals .....	55,000
	1.2 Supplies:	
	- Glassware and plasticware .....	55,000
	- Others	165,000
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	330,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	150,000
	2.1 Follow up and Operations.....	200,000
	2.3 Field help and per-diems .....	120,000
	Sub-total	470,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	550,000
	3.2 Supplies	275,000
	Sub-total	825,000
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	120,000
	Sub-total	120,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	40,000
	5.2 Stationery .....	50,000
	5.3 Communications .....	60,000
	Sub-total	150,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	60,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	20,000
	<b>TOTAL</b>	<b>1,975,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Kisumu

Co-ordinator: Dr. P. Tukey

SSC No. 004c

General Objective: To investigate whether HIV modulates opportunistic microbes in AIDS cases

Output	Verifiable Indicators	Means of Verification
Understanding whether HIV interacts with opportunistic microbes in AIDS patients	Quantitative: Genetic and biological characteristics of the microbes investigated	Confirmation of characteristics by reference strains
	Qualitative:	Acceptable publications

## Duration

Activities	From	To	Weeks	Officer In-charge
Setting up HIV/AIDS patients recruitment centre(s) for selection of diarrhoea and respiratory opportunistic infections (OI)	July 96	Oct 96	16	Dr. Abok
Setting up bacterial culture facility and microbe storage facility	Nov 96	Jan 97	12	Dr. Abok Mr. Obanda
Recruitment of patients and primary culture of OI microbes from gastrointestinal tract (GIT) and respiratory tract (RT) and treatment	Feb 97	Jan 98	52	Dr. Abok Mr. Agwanda
Culture, identification and sensitivity of microorganisms	Mar 1997	Dec 1997	40	Dr. Abok
Characterisation of isolates in VRC Nairobi (genotype, biotype etc) using PCR	Jul 1997	Jun 1998	52	Mr Songok

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 004e**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	100,000
	- Biologicals .....	180,000
	1.2 Supplies:	
	- Glassware and plasticware .....	120,000
	- Others .....	80,000
	1.3 Animals	
	- Purchase and Maintance .....	
	Sub-total	480,000
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	50,000
	2.1 Follow up and Operations.....	30,000
	2.3 Field help and per-diems .....	135,000
	Sub-total	215,000
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies .....	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	80,000
	Sub-total	80,000
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	10,000
	5.3 Communications .....	5,000
	Sub-total	25,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS</b>	10,000
	<b>TOTAL</b>	<b>810,000</b>

PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Busia

Co-ordinator: Dr. P. Tukei

SSC No. 004f

General Objective: To determine and characterize opportunistic bacterial infections occurring in HIV/AIDS patients from established cohorts using microscopy and biochemical tests

Output	Verifiable Indicators		Means of Verification	
Bacterial isolates identified and characterised	Quantitative: No. isolated		Monitoring and evaluation	
	Qualitative: Species characterised.			
Activities	From	To	Weeks	In-charge
Re-training in bacteriology and molecular techniques	Jan 1997	Dec 1999	130	Ms.F.Odhiambo
Acquisition of the required equipments and supplies	Jul 97	Sep 97	12	*
Collection of specimens of stool, swabs from throat, urine and sputum from cohort for analysis	Apr 97	Dec 97	26	*
Processing of specimens for the determination and characterization of bacterial pathogens using, bronchoscopy and microscopy.	*	*	*	*
Setting up drug sensitivity tests on the isolated bacterial pathogens to facilitate further management of the patients in the cohort.	*	*	*	*
Data analysis and report writing	Jan 2001	Mar 2001	12	*

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 004f**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals ..... - Biologicals ..... 1.2 Supplies: - Glassware and plasticware ..... - Others ..... 1.3 Animals - Purchase and Maintance .....	
	Sub-total	204,000
2	<b>FIELD:</b> 2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	
	Sub-total	92,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies .....	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	60,000 192,000
	Sub-total	252,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ..... 5.2 Stationery ..... 5.3 Communications .....	10,000 10,000 10,000
	Sub-total	30,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS (Equipment repair)</b>	30,000
	<b>TOTAL</b>	<b>608,000</b>

## PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Busia

Co-ordinator: Dr. P. Tukei

SSC No. 004g

General Objective: To determine and characterize opportunistic fungal infections occurring in HIV/AIDS patients from cohorts in Busia District using microscopy and biochemical tests

Output	Verifiable Indicators	Means of Verification
Fungal isolates identified and characterised	Quantitative: No. of fungal pathogens isolated  Qualitative: Types identified	Monitoring and evaluation

Activities	From	To	Weeks	In-charge
Re-training mycological techniques	Jan 1997	Dec 1997	52	Dr. Orege Mr. Bwire Mrs. Odhiambo
Acquisition of the required equipment and supplies	Jan 97	Mar 97	12	"
Collection of specimens from skin, throat, and stool for determination of fungal infections from established cohort	Apr 97	Dec 2000	192	"
Processing of specimens for the determination and characterization of opportunistic fungal pathogens using KOH microscopy and culture using standard techniques.	Aug 97	Dec 98	176	"
Identification of etiological agents using standard techniques.	"	Dec 2000	164	"
Data analysis and report writing	Jan 2001	Mar 2001	12	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC NO. 004g**

	<b>ITEM</b>	<b>1996/97</b>
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	70,000
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	30,000
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	100,000
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	92,000
	2.3 Field help and per-diems .....	
	Sub-total	92,000
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	60,000
	4.2 Operation .....	204,000
	Sub-total	264,000
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	10,000
	5.3 Communications .....	10,000
	Sub-total	30,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>486,000</b>

## PROJECT MANAGEMENT SHEET ( Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Kisumu

Co-ordinator: Dr. P. Tukei

SSC NO. 004h

General Objective: Association of malaria with HIV/AIDS

Output	Verifiable Indicators	Means of Verification
Frequency of malaria infection in HIV Severe malaria in HIV Response to malaria treatment in HIV	Quantitative: Prevalence of HIV and severe disease  Qualitative: Clinical responses	Records and publications

## Duration

Activities	From	To	Weeks	In-charge
Recruitment of cohort i) Dialogue with local administration ii) Registration/demography of households	Jul. '96	Oct. '96	16	Dr. Adungo Dr. Oloo Mr. Seroney Mr. Agwanda
Collection of blood smears from HIV positive and HIV negative persons in community	Nov. '96	Nov. '97	48	Dr. Adungo
Determine prevalence of severe malaria in HIV positive and HIV negative	Jan '97	Dec. 97	48	Dr. Oloo
Determine response to treatment of malaria in HIV positive and HIV negative persons	Jan. '97	Dec. '97	48	"
Data analysis and report writing	Jul '97	Dec. '97	24	"

OPERATIONAL COSTS

PROGRAMME: HIV/AIDS  
Sub-Programme SSC No. 004h

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	24,000
	- Chemicals .....	
	- Biologicals .....	
	1.2 Supplies:	12,000
	- Glassware and plasticware .....	
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	
2	<b>FIELD:</b>	
	2.1 Recruitment.....	84,000
	2.1 Follow up and Operations.....	100,000
	2.3 Field help and per-diems .....	36,000
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	1000,000
	3.2 Supplies	15,000
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	25,000
	4.2 Operation .....	100,000
	Sub-total	
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	1,000
	5.2 Stationery .....	15,000
	5.3 Communications .....	2,000
	Sub-total	
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	5,000
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>519,000</b>

## PROJECT MANAGEMENT SHEET (Sub-programme basis)

Date: March 1996

Programme: HIV/AIDS in Kisumu

Co-ordinator: Dr. P. Tukei

SSC No. 004i

General Objective: To study gastro-intestinal tract (GIT) opportunistic infections in HIV.

Output	Verifiable Indicators	Means of Verification
The prevalence of these opportunistic infections in the community determined	Quantitative: Prevalence and incidence  Qualitative:	Publications

Duration

Activities	From	To	Weeks	In-charge
Recruitment of cohort, registration, demography of households	July '96	Oct. '96	16	Dr. Adungo Dr. Seroney Mr. Agwanda Dr. Oloo
Collection of stool and blood specimens	Nov. '96	Nov. 97	52	Dr. Adungo Mr. Seroney Mr. Agwanda Dr. Oloo
Determine prevalence of GIT opportunistic infections associated with HIV in the area	Nov. '96	Nov. '97	48	Dr. Adungo Dr. Oloo Mr. Seroney
Culture of microorganisms ( <i>Shigella</i> , <i>Salmonella</i> , <i>Campylobacter</i> and <i>Vibrio</i> )	Apr 97	Dec 97	30	Mr. Seroney
Determine animal and human reservoirs of <i>C. parvum</i> in the community	Apr '97	Dec '97	36	Mr. Seroney
Data analysis and report writing	Jan. '98	Mar '98	12	Dr. Adungo Mr. Agwanda Mr. Seroney

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 004i**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	48,000
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	24,000
	- Others	
	1.3 Animals	
	- Purchase and Maintance .....	
	Sub-total	
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	84,000
	2.1 Follow up and Operations.....	100,000
	2.3 Field help and per-diems .....	72,000
	Sub-total	
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	150,000
	3.2 Supplies	30,000
	Sub-total	
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	30,000
	4.2 Operation .....	150,000
	Sub-total	
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	2,000
	5.2 Stationery .....	20,000
	5.3 Communications .....	5,000
	Sub-total	
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	1,000
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	10,000
<b>8</b>	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>626,000</b>

PROJECT MANAGEMENT SHEET (Sub-programme basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Coordinator: Dr. P. Tukei

SSC No. 005a

General Objective: To study mother to child HIV transmission

Output	Verifiable Indicators	Means of Verification
Understand mechanism and risk factors Develop preventive strategies	Quantitative: Reduction of mother to child transmission rate  Qualitative: Effectiveness of preventive strategies	Concurrence with findings elsewhere

Duration

Activities	From	To	weeks	In-charge
Monitor course of pregnancy outcomes in HIV-positive mothers	Jul 96	Jun 98	104	Prof. Mati, Dr. Kirumbi
Document frequency of genital tract infections during pregnancy and correlate with umbilical cord pathology	Aug 96	July 98	104	"
Study incidence of chorioamnionitis in HIV positive mothers	Apr 97	Mar 99	104	"
Monitor the growth and development of babies born to HIV positive mothers	Apr 97	Sep 98	72	"
Study HIV negative babies breastfed by HIV positive mothers using PCR technology	Jun 97	July 99	104	Mr. Kanyara
Examine breast milk for HIV	Jun 97	July 98	52	Mr. Kanyara
Study the effect and impact of the use of antiseptics on newborns during delivery of HIV positive mothers	Jul 97	Jun 98	52	Dr. Kirumbi

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 005a**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	440,000
	2.1 Follow up and Operations.....	526,000
	2.3 Field help and per-diems .....	1,294,000
	Sub-total	2,260,000
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	720,000
	3.2 Supplies	600,000
	Sub-total	1,320,000
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	40,000
	4.2 Operation .....	63,000
	Sub-total	103,000
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	105,000
	5.2 Stationery .....	90,000
	5.3 Communications .....	30,000
	Sub-total	225,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS</b>	40,000
	<b>TOTAL</b>	<b>3,948,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 005b

General Objective: To prevent mother to child transmission of HIV by using anti-HIV drug therapy

Output	Verifiable Indicators	Means of Verification
Generate scientific data on impact of anti-HIV therapy on mother to child perinatal HIV transmission	Quantitative: Size of case control cohort ----- Qualitative: Compliance of the cohort	Records and reports

## Duration

Activities	From	To	Weeks	Officer in-charge
Enroll HIV positive mothers in antenatal clinics	Jan 97	Dec 97	52	Prof. Mati, Dr. Tukei, Dr. Otsyula
Recruit a cohort for drug trial	Mar 97	Feb 99	104	*
Monitor treated cohort and control group till delivery	Apr 97	Mar 2000	156	*
Study the status of HIV in new borns by PCR	Jan 98	May 2000	104	Mr. Kanyara
Evaluate results and propose enlargement of trial if favourable	Jun 2000	Sept 2000	12	Prof. Mati, Dr. Tukei Dr. Otsyula

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 005b**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	165,000
	- Chemicals .....	385,000
	- Biologicals .....	
	1.2 Supplies:	110,000
	- Glassware and plasticware .....	
	- Others	55,000
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	715,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	104,000
	2.1 Follow up and Operations.....	104,000
	2.3 Field help and per-diems .....	104,000
	Sub-total	312,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	115,000
	3.2 Supplies	75,000
	Sub-total	190,000
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	70,000
	Sub-total	70,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	5,000
	5.3 Communications .....	10,000
	Sub-total	25,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	5,000
	<b>TOTAL</b>	<b>1,317,000</b>

**PROJECT MANAGEMENT SHEET (Sub-Programme basis)**

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No 006a

General Objective: To study impact of nutrition including micronutrients in HIV infections

Output	Verifi-able Indicators	Means of verification
Understanding the role of various nutrients on HIV infections	Quantitative: -----	
Development of intervention strategies	Qualitative:	

**Duration**

Activities	From	To	Weeks	In-charge
Study the level of various nutrients including micronutrients especially vitamin A and zinc	Jan 97	Dec 97	52	Mr. Mbakaya Dr. Kirumbi
Correlate findings with disease progression	Jan 97	Dec 99	104	Mr. Mbakaya Mr. Muttunga
Propose testable intervention strategy based on findings	Jan 2000	Mar 2001	12	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 006a**

	ITEM	1996/97
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	150,000
	- Biologicals .....	385,000
	1.2 Supplies:	
	- Glassware and plasticware .....	160,000
	- Others	
	1.3 Animals	140,000
	- Purchase and Maintenance .....	
	Sub-total	835,000
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	330,000
	2.3 Field help and per-diems .....	104,000
	Sub-total	434,000
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	150,000
	Sub-total	150,000
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	90,000
	Sub-total	90,000
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	5,000
	5.3 Communications .....	5,000
	Sub-total	20,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS</b>	5,000
	<b>TOTAL</b>	<b>1,534,000</b>

PROJECT MANAGEMENT SHEET (Sub-programme basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Co-ordinator: Dr. P. Tukei

SSC No. 007a

General Objective: To determine the role of major histocompatibility complex in susceptibility to HIV infection

Output	Verifiable Indicators	Means of Verification
Relationship between HLA and susceptibility to HIV understood	Quantitative: Number of concordant and discordant couples  Qualitative: Serostatus of HLA typed couples	Reports and publications

Duration

Activities	From	To	Weeks	In-charge
Selection of study subjects from the cohorts	Jul 1996	Dec 1999	26	Mrs. Kinyanjui Dr. P. Mbat
Collection of blood samples	Jul 1996	Dec 1999	2	Mrs. Kinyanjui Dr. P. Mbat
Cell separation and storage	Jul 1996	Dec 1999	26	Mrs. Kinyanjui
Establishing of HLA molecular typing procedures	Jan 1997	Mar 1997	12	Mrs. Kinyanjui
Optimization of PCR product detection	Apr 1997	Jun 1997	8	Mrs. Kinyanjui
Data analysis and report writing	Dec 1997	Mar 1998	12	*

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 007a**

	<b>ITEM</b>	<b>1996/97</b>
<b>1</b>	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	330,000
	- Biologicals .....	550,000
	1.2 Supplies:	
	- Glassware and plasticware .....	165,000
	- Others	
	1.3 Animals	110,000
	- Purchase and Maintenance .....	50,000
	Sub-total	1,205,000
<b>2</b>	<b>FIELD:</b>	
	2.1 Recruitment.....	104,000
	2.1 Follow up and Operations.....	55,000
	2.3 Field help and per-diems .....	
	Sub-total	159,000
<b>3</b>	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	220,000
	Sub-total	220,000
<b>4</b>	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	50,000
	4.2 Operation .....	120,000
	Sub-total	170,000
<b>5</b>	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	25,000
	5.2 Stationery .....	10,000
	5.3 Communications .....	25,000
	Sub-total	60,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS</b>	5,000
	<b>TOTAL</b>	<b>1,819,000</b>

PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Busia

Coordinator: Dr. P. Tukei

SSC No. 007b

General Objective: To determine the frequency of discordant couples in Busia cohort

Output	Verifiable Indicators	Means of Verification
Relationship between HLA and HIV susceptibility determined	Quantitative: Number of concordant and discordant couples  Qualitative:	Evaluation and publication

Duration

Activity	From	To	Weeks	In-charge
Identify spouses who have lost their partners due to HIV/AIDS in the study area, and/or within the study cohort	Jan 97	Dec 97	52	Dr. Orege
Couselling the partners	"	"	"	"
Clinical examination using appropriately designed and pretested forms	"	"	"	"
Collect blood samples for immunological tests using ELISA	"	Jan 2001	200	"
Clinical assessment will be done every 2 months for sigas and symptoms of HIV/AIDS	"	"	"	"
Immunological screening to be done every 6 months on those study cases	"	"	"	"
Data entry and report writing	Jan 2001	Mar 2001	"	"

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 007b**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	62,000
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	30,000
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	92,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	103,000
	2.3 Field help and per-diems .....	180,000
	Sub-total	283,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	50,000
	3.2 Supplies	
	Sub-total	50,000
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	40,000
	4.2 Operation .....	60,000
	Sub-total	100,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	10,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>535,000</b>

## PROJECT MANAGEMENT SHEET (Sub-programme-basis)

Date: March 1996

Programme: HIV/AIDS in Nairobi

Coordinator: Dr. P. Tukei

SSC No. 007c

General Objective: To document the effect of the 6 KEPI vaccines on children who are HIV positive

Output	Verifiable Indicators	Means of Verification
Determination of HIV/AIDS on child immunisation	Quantitative: Seroconversion rates and adverse reactions observed  Qualitative: Antibody titres of seroconverters and specificity of adverse reactions	Titres and clinical evaluation

## Duration

Activity	From	To	Weeks	In-charge
Climate setting	Jun 96	Aug 96	8	Dr. Ochola
Creating awareness	Jun 96	Aug 96	8	Dr. Ochola
Baseline survey	Sept 96	Nov 96	12	Dr. Ochola
Recruiting subjects	Jan 97	Dec 99	156	Dr. Ochola
Cohort study, HIV testing	Jan 97	Dec 99	156	Dr. Ochola
Immunological and clinical monitoring Monitoring evaluation, documentation	Jan 2000	Dec 2000	52	Dr. Ochola

**OPERATIONAL COSTS**

**PROGRAMME: HIV/AIDS**  
**Sub-Programme SSC No. 007c**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	40,000
	- Biologicals .....	120,000
	1.2 Supplies:	
	- Glassware and plasticware .....	30,000
	- Others .....	40,000
	1.3 Animals	
	- Purchase and Maintance .....	45,000
	Sub-total	275,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	55,000
	2.1 Follow up and Operations.....	110,000
	2.3 Field help and per-diems .....	220,000
	Sub-total	385,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	60,000
	3.2 Supplies .....	20,000
	Sub-total	80,000
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	70,000
	4.2 Operation .....	135,000
	Sub-total	205,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	10,000
	5.2 Stationery .....	5,000
	5.3 Communications .....	5,000
	Sub-total	20,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	30,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	5,000
	<b>TOTAL</b>	<b>1,000,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: HIV/AIDS

Co-ordinator: Dr. P. Tukei

SSC No. 008a

General Objective: To design a feasible and sustainable health education intervention in the prevention of transmission and control of HIV/AIDS.

Output	Verifiable Indicators	Means of Verification			
Behaviour change towards prevention of HIV/AIDS infection and transmission	Quantitative: ii) Formation of community health education committees ii) Organise Youth health education clubs ----- Qualitative: Identification of predisposing factors to HIV infection	Regular lesson by youth to youth issues related to HIV/AIDS prevention ----- Data collection through F.G. D. and Semi-structured interviews			
Activities	From	to	Weeks	In-charge	
Recruitment and training of field data collectors, and educators.	July 1996	Sept. 1996	8	Kisingu Karama	
Evaluation of existing strategies, conduct F.G.D, Implementation of semi-structural interview and collection of morbidity and mortality data.	Oct. 1996	Feb 1997	20	Kisingu Karama	
Development and piloting of health education materials and revision	March 1997	Aug. 1997	24	Kisingu Karama	
Implementation and continuous evaluation of activities	Sept. 1997	July 2000	156	Kisingu Karama	
Final data analysis and dissemination	July 2000	Mar 2001	40	Muniu, Kisingu	

## OPERATIONAL COSTS

PROGRAMME: HIV/AIDS  
Sub-Programme SSC No. 008a

	ITEM	1996/97
1	<b>LABORATORY:</b>  1.1 Reagents: - Chemicals ..... - Biologicals ..... 1.2 Supplies: - Glassware and plasticware ..... - Others ..... 1.3 Animals - Purchase and Maintenance .....	
	Sub-total	
2	<b>FIELD:</b> 2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	385,000 330,000 385,000
	Sub-total	1,100,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	110,000 165,000
	Sub-total	275,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ..... 5.2 Stationery ..... 5.3 Communications .....	30,000 60,000
	Sub-total	90,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	55,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,520,000</b>

## PROJECT MANAGEMENT SHEET (Programme-basis)

Date: March 1996

Programme: ARI

Co-ordinator: Dr. J. Odhiambo

Objectives		Verifiable Indicators		Means of Verification
To develop basic capabilities and capacities for the prevention, control and management of acute respiratory infections through multidisciplinary scientific investigations		Quantitative: ----- Qualitative:		
SSC No.	Sub-programmes	From	To	In-charge
009	Studies on aetiology of ARI due to bacterial, viral and fungal infections	Jan 1997	Dec 2000	Dr. J. Odhiambo Dr. W. Ochieng Ms C. Bii
010	Clinical studies of ARI	Jan 1997	Dec 2000	Dr. M. Chakaya Dr. A. Oloo
011	Epidemiology of ARI	Jan 1997	Dec 2000	Dr. Y. Kombe
012	Drug sensitivity studies	Jul 1996	Dec 1998	Dr. Kofi-Tsekpo
013	Differential diagnosis of malaria and ARI	Jun 1997	Dec 1998	Dr. A. Oloo
014	Immunocorrelates in ARI	Jan 1997	Dec 2000	Mr. K. Gachuhi
015	Community based health education	Jul 1996	Mar 2001	Dr. M. Amuyunzu

**PROJECT MANAGEMENT SHEET (Sub-Programme-basis)**

Date: March 1996

Programme: ARI

Co-ordinator: Dr. J. Odhiambo

SSC No. 009a

General Objective: To study the aetiology of ARI in Kenya

Output	Verifiable Indicators	Means of Verification
Identity of bacterial pathogens Identity of viral pathogens Identity of fungal pathogens	Quantitative ----- Qualitative	

**Duration**

Activities	From	to	Weeks	In-charge
Identify, establish and supervise specimen collection, transport and processing to KEMRI laboratories in Kisumu and Nairobi	Mar 1997	Jun 1997	12	Dr. Ochieng Dr. Mwachari Ms. Bii
Storage of culture isolates	Jun 1997	Sep 1997	"	"
Detailed study of RSV isolates including production of monoclonal antibodies	Dec 1998	Dec 1999	52	Dr. Ochieng

OPERATIONAL COSTS

PROGRAMME: ARI  
Sub-Programme SSC No. 009a

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	500,000
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	490,000
	- Others	
	1.3 Animals - Purchase and Maintenance .....	
	Sub-total	990,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	300,000
	Sub-total	300,000
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	200,000
	Sub-total	200,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	30,000
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	30,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,220,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: ARI

Co-ordinator: Dr. J. Odhiambo

SSC No. 010a

General Objective: To develop appropriate preventive and management strategies for the control of ARI

Output	Verifiable Indicators	Means of Verification
Better clinical management of ARI cases	Quantitative: Decreased morbidity and mortality due to ARI	Publications
Community awareness in ARI	Qualitative: Community participations in ARI	Community awareness Evaluation

## Duration

Activities	From	To	Weeks	In-charge
Identify, inspect and install basic and specialised clinics and equipment in the field (Kibera and Kisumu) and hospitals (Kisumu District Hospital, KEMRI CRC Model clinic)	Sep 1998	Dec 1997	12	Dr. Chakaya, Dr. Nyakundi
Establish ARI management strategies in the field and referral centres including clinical evaluation, treatment, follow-up and referral criteria.	*	*	*	*
Documentation of ARI morbidity and mortality. Selected post mortem studies will be undertaken	*	*	*	*
Patient follow-up to determine patterns of recurrences and long term sequence of ARI	*	*	*	*
Study the role of micronutrients in the control of ARI in children	Mar 1997	Dec 1997	38	Mr. Mutunga
Establish knowledge, attitude and practice (KAP) on ARI	Dec 97	Jul 98	26	Dr. Amuyunzu
Identify socio-cultural practices that predispose to ARI	*	*	*	*
Establish the need for and impact of health education in the control of ARI	*	*	*	*

**OPERATIONAL COSTS**

**PROGRAMME: ARI**  
**Sub-Programme SSC No. 010a**

	<b>ITEM</b>	<b>1996/97</b>
<b>1</b>	<b>LABORATORY:</b>  <b>1.1 Reagents:</b> - Chemicals ..... - Biologicals ..... <b>1.2 Supplies:</b> - Glassware and plasticware ..... - Others ..... <b>1.3 Animals</b> - Purchase and Maintenance .....	
	Sub-total	
<b>2</b>	<b>FIELD:</b> <b>2.1 Recruitment.....</b> <b>2.1 Follow up and Operations.....</b> <b>2.3 Field help and per-diems .....</b>	 370,000 490,000
	Sub-total	860,000
<b>3</b>	<b>CLINICAL:</b> <b>3.1 Patient cost and Drugs .....</b> <b>3.2 Supplies</b>	 1,260,000 1,000,000
	Sub-total	2,260,000
<b>4</b>	<b>TRANSPORT:</b> <b>4.1 Maintenance .....</b> <b>4.2 Operation .....</b>	 200,000
	Sub-total	200,000
<b>5</b>	<b>DATA MANAGEMENT:</b> <b>5.1 Computer software .....</b> <b>5.2 Stationery .....</b> <b>5.3 Communications .....</b>	 30,000 100,000 25,000
	Sub-total	155,000
<b>6</b>	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
<b>7</b>	<b>EVALUATION AND CONSULTANTS</b>	
<b>8</b>	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>3,475,000</b>

**PROJECT MANAGEMENT SHEET (Sub-Programme-basis)**

Date: March 1996

Programme: ARI

Co-ordinator: Dr. J. Odhiambo

SSC No. 011a

General Objective: To study the epidemiology of ARI in selected cohorts

Output	Verifiable Indicators	Means of Verification
Prevalence and incidence rates of ARI	Quantitative: Prevalence and incidence rates of ARI	Questionnaire reports and publications
Risk factors for ARI	Qualitative: Risk factors in ARI	

**Duration**

Activities	From	To	Weeks	In-charge
Field visits to Kisumu to identify study population and undertake demographic mapping and establish study cohort	Jul 1996	Aug 1996	4	Mr. Agwanda
Field visits to Kibera to identify study population and undertake demographic mapping and creat study cohorts	"	"	"	Dr. Kombe Mr. Agwanda
Data collection relevant to rates and risk factors	Dec 97	Dec 98	52	"

**OPERATIONAL COSTS**

**OPERATIONAL COSTS**

PROGRAMME: ARI  
Sub-Programme SSC No. 011a

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals ..... - Biologicals ..... 1.2 Supplies: - Glassware and plasticware ..... - Others ..... 1.3 Animals - Purchase and Maintenance .....	
	Sub-total	
2	<b>FIELD:</b> 2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	370,000 490,000
	Sub-total	860,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	200,000
	Sub-total	200,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ..... 5.2 Stationery ..... 5.3 Communications .....	250,000
	Sub-total	250,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,310,000</b>

PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: ARI

Co-ordinator: Dr. J. Odhiambo

SSC No. 012a

General Objective: To relate anti-bacterial sensitivity of bacterial isolates to clinical responses in ARI

Output	Verifiable Indicators	Means of Verification
Sensitivity and clinical responses in ARI established	Quantitative: Frequency of drug resistance or sensitivity  Qualitative:	

Duration

Activities	From	to	Weeks	In-charge
Set up and run antimicrobial sensitivity of bacterial isolates to selected antibiotics	Jul 97	Dec 97	26	Dr. Mwachari Mr. Obanda
Identify patients with bacterial ARI, administer appropriate chemotherapy and evaluate clinical response to therapy	*	*	*	Dr. Chakaya Dr. Nyakundi

**OPERATIONAL COSTS**

**PROGRAMME: ARI**  
**Sub-Programme SSC No. 012a**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	300,000
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	140,000
	- Others	
	1.3 Animals - Purchase and Maintenance .....	
	Sub-total	440,000
2	<b>FIELD:</b>	
	2.1 Recruitment .....	
	2.1 Follow up and Operations .....	
	2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	
	5.2 Stationery .....	10,000
	5.3 Communications .....	
	Sub-total	10,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>450,000</b>

PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: ARI in Kisumu

Co-ordinator: Dr. J. Odhiambo

SSC No. 013a

General Objective: To develop improved methodologies that distinguish between ARI and other infections eg. malaria

Output	Verifiable Indicators	Means of Verification
Appropriate management strategies developed for the sick child with fever and difficulty in breathing	Quantitative: Extent of utilization of these strategies and children managed  ----- Qualitative:	Health facilities records  Observation reports

Activities	Duration			In-charge
	From	To	Weeks	
Identify, inspect and install basic and specialised clinics and equipment for field and hospital evaluation of a child presenting with fever and breathlessness	Jul 97	Dec 97	26	Dr. Oloo
Identify clinical markers and evaluate the role of chest X-ray and other investigations in the management of a child presenting with fever and breathlessness	.	.	.	.

**OPERATIONAL COSTS**

**PROGRAMME: ARI**  
**Sub-Programme SSC No. 013a**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: • Chemicals ..... • Biologicals ..... 1.2 Supplies: • Glassware and plasticware ..... • Others 1.3 Animals - Purchase and Maintenance .....	
	Sub-total	
2	<b>FIELD:</b> 2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	490,000
	Sub-total	490,000
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies	500,000
	Sub-total	500,000
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	220,000
	Sub-total	220,000
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ..... 5.2 Stationery ..... 5.3 Communications .....	40,000
	Sub-total	40,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,250,000</b>

PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: ARI

Co-ordinator: Dr. J. Odhiambo

SSC No. 014a

General Objective: To establish biotechnological techniques for diagnosis, management and control of ARI

Output	Verifiable Indicators	Means of Verification
Biotechnology techniques installed for diagnosis, management and control of ARI	Quantitative:	
	Qualitative:	

Duration

Activities	From	To	Weeks	In-charge
Establish criteria for selection of patients for bronchoscopy and documentation of clinical and laboratory findings	Dec 96	Jan 97	4	Dr. Chakaya Dr. Nyakundi
Train clinicians on bronchoscopic techniques (locally)	Mar 97	Jul 97	12	Dr. Chakaya Dr. Nyakundi
Determine levels of specific immunoglobulin classes, serum proteins, surfactors inhibitors, cytokines, T-cell markers	*	Dec 97	38	Mr. Kimani
Process nasopharyngeal aspirates for detailed immunological and molecular viral studies eg RSV	*	*	*	Dr. Ochieng

**OPERATIONAL COSTS**

PROGRAMME: ARI  
Sub-Programme SSC No. 014a

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	350,000
	- Biologicals .....	
	1.2 Supplies:	100,000
	- Glassware and plasticware .....	
	- Others	265,000
	1.3 Animals - Purchase and Maintenance .....	
	Sub-total	715,000
2	<b>FIELD:</b>	
	2.1 Recruitment .....	
	2.1 Follow up and Operations .....	
	2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	5,000
	4.2 Operation .....	10,000
	Sub-total	15,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	20,000
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	20,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>750,000</b>

PROJECT MANAGEMENT SHEET (Programme-basis)

Date: March 1996

Programme: Viral Hepatitis

Co-ordinator: Dr. F. Okoth

Objectives		Verifiable Indicators		Means of Verification
To prevent viral hepatitis and control related hepatocellular carcinoma		Quantitative:  Qualitative: Level of blood safety countrywide		Assessment of national blood screening centres
SSC No.	Sub-programmes	From	to	In-charge
016	Production of lyophilized KEMRI Hep cell and alfafeto protein KITS	July 96	Dec 2000	Mr. Kaiguri Mr. Ragot
017	Promotion of sustainable blood screening to reduce viral hepatitis	Ongoing	May 2001	Mr. Tui
018	Promotion of widespread utilization of KEMRI Hep Cell in Africa	Oct 96	Dec 99	Director VRC
019	Introduction of sensitive molecular diagnostic technique, eg. PCR for HBV HCV, HEV and HGV	Dec 96	Dec 97	Mr. Mathenge
020	Basic studies on hepatocellular carcinoma	Jan 97	Dec 97	Dr. Okoth

Programme: Viral Hepatitis

Co-ordinator: Dr. F. Okoth

SSC NO. 016a

General Objective: To produce lyophilized KEMRI Hep Cell and AFP kits

Output	Verifiable Indicators	Means of Verification
Production of lyophilized KEMRI Hep Cell kit and AFP	Quantitative: Quantities produced	By records
Recruitment of an MD	Qualitative: Reproducibility of production process	Quality control

## Duration

Activities	from	To	Weeks	In-charge
Recruitment of a Medical Doctor	Jul 96	May 96	8	Director VRC
Collection of hepatitis B surface antigen positive blood from the provincial hospitals and the National Public Health Laboratories (NPHL)	Oct 96	Dec 2000	200	Mr. Osidiana
Collection of ascitic fluid from patients at provincial hospitals	Jan 97	Dec 98	104	Mr. Ragot
Acquire equipment and reagents for purification of hepatitis B surface antigen (HBSAg) and alfafeto protein (AFP)	Jul 96	Jun 97	52	Director VRC
Purification of HBSAg and AFP	Jan 97	Dec 2000	208	Mr. Ragot Mr. Osidiana
Immunize guinea pigs with purified HBSAg and goats with purified AFP and then collect antibodies produced	Mar 97	Dec 99	113	Mr. Kaiguri
Process buffers for KEMRI Hep Cell Kit and AFP Kit	Oct 96	Mar 97	24	Mr. Kamau
Collect sheep red blood cells from local sources and sensitize and fix HBSAg to SRBC	Mar 97	Dec	140	Mr. Muchiri
Train personnel in lyophilization methodology	Jan 97	Jun 97	24	Jica Expert
Acquire lyophilizer and lyophilization accessories (bottles, stoppers, crumps and labels)	Jul 96	Dec 96	24	Director VRC
Production of lyophilized KEMRI Hep Cell and AFP	Jul 97	Dec 2000	184	Mr. Kaiguri
Supply and distribution of the kit to NPHL	Jan 97	Dec 2000	208	Dr. Nyamongo

**OPERATIONAL COSTS**

**PROGRAMME: Viral Hepatitis**  
**Sub-Programme SSC No. 016a**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	250,000
	- Chemicals .....	185,000
	- Biologicals .....	
	1.2 Supplies:	200,000
	- Glassware and plasticware .....	
	- Others	
	1.3 Animals - Purchase and Maintenance.....	21,750
	Sub-total	656,750
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	296,700
	Sub-total	296,700
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	240,000
	Sub-total	240,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,934,450</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: Viral Hepatitis

Co-ordinator: Dr. P. Okoth

SSC No. 017a

General Objective: To ensure a safe blood supply countrywide

Output	Verifiable Indicators	Means of Verification
Operational and sustainable blood screening programme	Quantitative: Number of operating centres	Records and publications
Quality assured screening programme	Qualitative: Operational quality assured programme	Reproducibility of field results
Epidemiological data on hepatitis		

## Duration

Activities	from	To	Weeks	In-charge
Identify provincial technologists through Director NPHL to co-ordinate distribution of KEMRI Hep Cell kit in the provinces	Jul 96	Dec 96	24	Dr. Nyamongo
Co-ordinate training of technologists at district level by the provincial personnel	Apr 97	Dec 99	136	Dr. Nyamongo
Ensure initial availability of equipment necessary for use of kits at the provincial general hospitals (PGH)	Jan 97	Dec 98	104	Dr. Okoth
Supply the kits to the NPHL to be distributed to provincial hospitals with the help of provincial technologists	Ongoing	May 2001	260	Dr. Okoth
Collection of HBSAg and AFP data from PGH	Aug 96	monthly		Dr. Okoth
Annual workshops for clinicians and technologists on the use of kits. Recent advances and continuous feedback, awareness and promotion on KEMRI Hep Cell and AFP kits	Aug 97	monthly		Dr. Okoth

**OPERATIONAL COSTS**

**PROGRAMME: Viral Hepatitis**  
**Sub-Programme SSC No. 017a**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	
	- Chemicals .....	
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	360,000
	- Others	
	1.3 Animals	
	- Purchase and Maintenance .....	
	Sub-total	360,000
2	<b>FIELD:</b>	
	2.1 Recruitment .....	
	2.1 Follow up and Operations .....	
	2.3 Field help and per-diems .....	950,400
	Sub-total	950,400
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	
	4.2 Operation .....	1,440,000
	Sub-total	1,440,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	200,000
	5.2 Stationery .....	20,000
	5.3 Communications .....	100,000
	Sub-total	320,000
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	545,500
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>3615,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: Viral Hepatitis

Co-ordinator: Dr. P. Okoth

SSC No. 018a

General Objective: To promote widespread use of KEMRI Hep Cell kit in the region

Output	Verifiable Indicators	Means of Verification
KEMRI Hep Cell widespread use in the African region	Quantitative: Number of countries using the kit ----- Qualitative: Operational quality analysis programme	Reports from these countries Reproducibility of field results

Activities	From	To	Weeks	In-charge
Ensuring availability of adequate quantities of the kit	Jan 97	Dec 98	104	Mr. Kaiguri
Identify counterparts in the target countries for liaison and training and promotion of activities	Jan 97	Jun 97	24	Director VRC
Assess the needs of the kit in the target countries to enable establishment of production	Jul 97	Dec 97	24	Director VRC
Train personnel from the target countries in the use of the kit	Jul 97	Mar 98	36	Director VRC
Estimate cost and produce enough kit to satisfy the established needs	Jul 97	Ongoing		Mr. Kaiguri
Identify logistics of distribution channels, equipment and storage facilities both locally and in the target countries	Jul 97	Dec 97	24	Director VRC
Establish quality control mechanism in the region	Jul 97	Dec 97	24	Director VRC
Evaluate cost-effectiveness and organize a regional workshop for technical exchange	Jan 2001	Mar 2001	12	Director VRC

**OPERATIONAL COSTS**

**PROGRAMME: Viral Hepatitis**

**Sub-Programme SSC No. 018a**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals ..... - Biologicals ..... 1.2 Supplies: - Glassware and plasticware ..... - Others ..... 1.3 Animals - Purchase and Maintenance .....	
	Sub-total	4,139,250
2	<b>FIELD:</b> 2.1 Recruitment..... 2.1 Follow up and Operations..... 2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..... 3.2 Supplies .....	
	Sub-total	
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ..... 5.2 Stationery ..... 5.3 Communications .....	
	Sub-total	
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	880,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>5,027,250</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: Viral Hepatitis

Co-ordinator: Dr. F. Okoth

SSC No. 019a

General Objective: To study the epidemiology of hepatitis C, E and G and to monitor therapeutic trials for Hepatitis B.

Output	Verifiable Indicators	Means of Verification
Understanding the epidemiology of Hepatitis C, E and G in Kenya	Quantitative: Number of individuals investigated	Records and publications
Successful therapeutic trials of hepatitis B	Qualitative: Specificity and sensitivity of tests in use	External evaluation

## Duration

Activities	From	To	Weeks	In-charge
Acquire PCR equipment	Jul 96	Aug 96	4	Director VRC
Training of personnel in PCR technology	Jan 97	Jun 97	24	JICA expert
Collect blood samples from patients	Jul 97	Jun 98	52	New clinician
Acquire primers and reagents for PCR from Japan	Jan 97	Mar 97	12	JICA expert
Perform PCR and record data obtained for the blood samples to determine prevalence of HCV, HEC, HGV	Jul 97	Dec 98	78	Mr. Matheonge
Compare findings with previously obtained data and information where possible	Jun 98	Jun 2000	104	Dr. Okoth
Plan new management strategy of these viruses based on findings above	Jan 2001	Mar 2001	12	Director VRC Dr. Okoth

**OPERATIONAL COSTS**

**PROGRAMME: Viral Hepatitis**  
**Sub-Programme SSC No. 019a**

	ITEM	1996/97
1	<b>LABORATORY:</b>	
	1.1 Reagents:	500,000
	- Chemicals .....	
	- Biologicals .....	
	1.2 Supplies:	
	- Glassware and plasticware .....	
	- Others .....	
	1.3 Animals - Purchase and Maintenance .....	
	Sub-total	500,000
2	<b>FIELD:</b>	
	2.1 Recruitment.....	
	2.1 Follow up and Operations.....	
	2.3 Field help and per-diems .....	
	Sub-total	
3	<b>CLINICAL:</b>	
	3.1 Patient cost and Drugs .....	
	3.2 Supplies .....	
	Sub-total	
4	<b>TRANSPORT:</b>	
	4.1 Maintenance .....	520,000
	4.2 Operation .....	
	Sub-total	520,000
5	<b>DATA MANAGEMENT:</b>	
	5.1 Computer software .....	
	5.2 Stationery .....	
	5.3 Communications .....	
	Sub-total	
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>552,000</b>

## PROJECT MANAGEMENT SHEET (Sub-Programme-basis)

Date: March 1996

Programme: Viral Hepatitis

Coordinator: Dr. F. Okoth

SSC No. 020a

General Objective: To do basic studies on hepatocellular carcinoma (HCC)

Output	Verifiable Indicators	Means of Verification			
Reduced cases of HCC in Kenya	Quantitative: Number diagnosed and number treated  Qualitative: Number of responders	Clinical records and publications			
Activities	from	to	Weeks	In-charge	
Selection and establishment of 3 or 4 regional centres for in depth studies on hepatocellular carcinoma	Oct 96	Dec 96	12	Director VRC	
Training of provincial technologists and radiographers in ultrasound, HBSAg and AFP screening as well as follow up methods for positive cases	Jan 97	Mar 97	12	Dr. Okoth	
Supply ultrasound machines to the 4 regional centres	Jul 97	Sep 97	12	Director VRC	
Train clinicians in ultrasound guided biopsies injection and angiographic techniques	Jan 97	Jun 98	104	JICA expert	
Improve CRC radiological facilities by supplying ultrasound machine and angiographic machine and commence use of facilities at CRC	Jul 97	Dec 97	26	Director VRC	
Receive referral from established regional centres and transport and admit the patients at CRC for management	Jan 97	Dec 97	52	Dr. Okoth Director VRC	

**OPERATIONAL COSTS**

**PROGRAMME: Viral Hepatitis**  
**Sub-Programme SSC No. 020a**

	ITEM	1996/97
1	<b>LABORATORY:</b> 1.1 Reagents: - Chemicals ..... - Biologicals ..... 1.2 Supplies: - Glassware and plasticware ..... - Others ..... 1.3 Animals - Purchase and Maintenance .....	
	Sub-total	
2	<b>FIELD:</b> 2.1 Recruitment..... 2.1 Follow up and Operations...468,100..... 2.3 Field help and per-diems .....	
	Sub-total	468,100
3	<b>CLINICAL:</b> 3.1 Patient cost and Drugs ..220,000..... 3.2 Supplies	
	Sub-total	220,000
4	<b>TRANSPORT:</b> 4.1 Maintenance ..... 4.2 Operation .....	
	Sub-total	
5	<b>DATA MANAGEMENT:</b> 5.1 Computer software ..... 5.2 Stationery ..... 5.3 Communications .....	
	Sub-total	
6	<b>CONFERENCE-SEMINARS-MEETINGS ETC</b>	430,000
7	<b>EVALUATION AND CONSULTANTS</b>	
8	<b>OTHERS</b>	
	<b>TOTAL</b>	<b>1,098,100</b>