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Evelia, Humphres, Monica Wanjiru, Francis Obare, and Harriet Birungi. 2011. "Ten years of the Kenya Adolescent Reproductive Health Project: What has happened?" APHIA II OR Project in Kenya report. Nairobi: Population Council.

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Ten years of the Kenya Adolescent Reproductive Health Project: What has happened?





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APHIA II Operations Research Project/ Population Council Humphres Evelia, Monica Wanjiru, Francis Obare, Harriet Birungi

May 2011

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Acknowledgements

The authors would like to thank the people who facilitated this evaluation, and who participated in the study in one way or another. Specifically, we would like to acknowledge the contribution of staff from the Ministry of Education, Ministry of Public Health and Sanitation, Ministry of Medical Services, Ministry of Gender Children and Social Development, Ministry of Youth Affairs and the APHIA II partners in the seven provinces where the study took place. Their support was critical in guiding the study and the fieldwork.

We would also like to thank the staff who carried out the fieldwork - the research assistants for their dedication during data collection; Denis Khamati for coordinating all data collection activities; and Cornelius Mutangili for supporting the desk review of documents. We would also like to thank staff from the Population Council who supported this study: Ian Askew, for his invaluable guidance and advice throughout the study process; Winnie Osulah for coordinating fieldwork logistics; Eric Oweya for overseeing data entry and analysis; and Janet Munyasya for supporting preparation of the final edition of report.

Finally, we thank the respondents who took part in the study - ministry officials, teachers and young people who participated in the survey for their willingness and cooperation and to USAID through APHIA II OR/ Population Council for funding this study.



This publication has been made possible with the generous support of the American people through USAID/Kenya, under the APHIA II Operations Research Project, a cooperative agreement No. 623-A-00-09-00001-00 between the Kenya Mission and the Population Council. The opinions expressed herein are those of the authors and do not necessarily reflect the views of USAID.

Suggested Citation: Evelia H., Wanjiru M., Obare F., Birungi H., (2011) Ten years of the Kenya Adolescent Reproductive Health Project: What has happened? APHIA II OR Project in Kenya/ Population Council: Nairobi, Kenya

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Acronyms

AEO	Area Education Officer
APHIA	AIDS, Population and Health Integrated Assistance Program
ASRH	Adolescent Sexual and Reproductive Health
AOP	Annual Operations Plan
BOG	Board of Governors
CBOs	Community Based Organizations
CDF	Constituency Development Fund
DEO	District Education Officer
DHS	Demographic and Health Survey
DO	District Officer
DPHN	District Public Health Nurse
DSDO	District Social Development Officer
FGD	Focus Group Discussion
FGM	Female Genital Mutilation
G&C	Guidance and Counseling
GoK	Government of Kenya
GTZ	German Technical Co-operation
HIV/AIDS	Human Immunodeficiency Virus/Acquired Immunodeficiency
	Syndrome
IEC	Information, Education and Communication
KARHP	Kenya Adolescent Reproductive Health Program
KNBS	Kenya National Bureau of Statistics
MoE	Ministry of Education
MOEST	Ministry of Education, Science and Technology
MGSCSS	Ministry of Gender, Sports, Culture and Social Services
MoH	Ministry of Health
MOYAS	Ministry of State for Youth Affairs and Sports
MDGs	Millennium Development Goals
MYWO	Maendeleo Ya Wanawake Organization
NACC	National AIDS Control Council
NASCOP	National AIDS and Sexually Transmitted Disease Control Programme
NCAPD	National Coordinating Agency for Population and Development
NGO	Non Governmental Organization
OR	Operations Research
PATH	Programme for Appropriate Technology in Health
PHTs	Public Health Technicians
SDAs	Social Development Assistants
SMC	School Management Committees
STI	Sexually Transmitted Infections
TAC	Teacher Advisory Centre
UNDP	United Nations Development Programme
UNFPA	United Nations Population Fund
UNICEF	United Nations Children's Fund
USAID	United States Agency for International Development

Executive summary

In 1999, the Kenya Adolescent Reproductive Health Project (KARHP) was introduced as a pilot research project in two districts in Western Province. KARHP was designed in collaboration with three government ministries and comprised activities implemented in schools, communities and health facilities. When the project was evaluated in 2004, it was found to be effective in achieving positive reproductive health outcomes for young people. Over the next ten years, the project was replicated and scaled up to cover seven provinces in the country. This evaluation study sought to find out whether the ASRH/HIV/AIDS activities and desired reproductive health outcomes have been sustained. The evaluation had three main objectives: i) determine the extent to which activities of KARHP have continued at national, provincial, district levels; ii) determine whether desired sexual and reproductive health outcomes (knowledge, behavior and practices) have been sustained among in and out of school adolescents over time; iii) identify challenges experienced by various partners in sustaining the model.

A range of research methods were used, including review of policies, guidelines and annual operations plans drawn by various ministries; a knowledge, attitude and practices survey among 10-19 year olds; a school assessment to establish the status of KARHP activities; and qualitative assessment to establish the status of KARHP activities implemented by the three ministries (Education, Health and Gender and Social Services).

The findings show that policy documents and guidelines developed during this period have increasingly given priority to ASRH/HIV/AIDS issues. For instance, the Ministry of Youth Affairs and Sports (MOYAS) has included implementation of ASRH/HIV/AIDS activities in its staff performance contracts. The government has also allocated funding to support the rollout of ASRH activities. However, the study found weaknesses in the monitoring and evaluation of all ASRH activities implemented by the three ministries.

The school assessment found that life-skills education was widely offered in schools -92% of schools in the sample said they taught life skills supported by peer education, or had integrated ASRH themes into extracurricular activities. Most schools also had health clubs and offered referrals for health services to local health facilities. The study also found that in most schools, guidance and counseling teachers conducted the life-skills sessions, although other teachers had integrated the topic into other subjects as appropriate. It was established that the three ministries had included ASRH activities in their work-plans and strategies, although they faced challenges, including inadequate funding, limited staff and weak monitoring of activities.

The results show that reproductive health knowledge and behavior had improved among the adolescents. A significant increase was found in the proportions of adolescents who have delayed sexual debut. The study also found significant improvement in the proportion of adolescents who reported safer sexual practices at first sex in comparison with an earlier survey of the same project in 2004. Condoms remain the method of choice for the sexually active adolescents interviewed. However, it was found that most of the adolescents had poor knowledge of correct condom use - a significant proportion of adolescents could not state the correct steps in using a condom, perhaps due to less emphasis of these steps in condom messaging and promotions.

Although the survey suggests that the efforts to sustain KARHP/ ASRH activities may have desirable behavioral outcomes among adolescents, there is need to strengthen these activities to increase their effect. It is also necessary to streamline coordination of ASRH activities by the different partners in order to consolidate efforts, strengthen funding, and monitoring and evaluation and activities.

Background and problem statement

The Kenya Adolescent Reproductive Health Programme (KARHP)¹ was initiated in 1999 by Population Council and PATH as an operations research study to test the feasibility of implementing an adolescent reproductive health program within the public sector in two districts of Western Province, Kenya (see Box 1). An evaluation of the intervention in 2003 showed that it was indeed feasible and effective to implement RH programs within the public sector. Between 2003 and 2005, selected activities were expanded and scaled up by the three ministries that implemented the pilot project (Ministry of Health, Ministry of Education, Science and Technology, and the Ministry of Gender, Sports, Culture and Social Sciences²). The ministries were assisted in integrating the selected activities within their work plans, monitoring and supervision systems and budgets. Tools and materials that had been used in the Operations Research study were revised and adapted for use in the expanded programme, and inter-ministry coordination committees were set up.

Box 1: KARHP	model as introduced in the Operations Research phase (1999 - 2003)
Implementing ministries	 Gender, Sports, Culture & Social Services (MGSCSS)-community activities Health (MOH)- health facility activities Education, Science and Technology (MOEST) in-school activities
Community intervention	 Promotion and distribution of condoms by out-of-school peer educators Outreach by religious/community leaders and peer educators Sensitization for parents, out-of-school young people and provincial administrators
School intervention	 34-part <i>Tuko Pamoja</i> [We Are One] curriculum for in-school youth (teachers, peer educators, and guidance counselors) Extracurricular youth clubs Life skills curriculum for out-of-school youth Sensitization for parent-teacher associations
Clinic intervention	 Youth-friendly services offered in designated spaces by providers and peer educators Informational material on youth RH provided

From June 2005 to June 2006, the three ministries scaled up specific KARHP activities to all eight districts of Western Province. This was followed by a staged nationwide replication of the model from 2006 to 2008 covering two provinces each year. With assistance from Population Council and with materials used in the pilot phase, the ministries rolled out KARHP activities in six provinces; Nyanza and Eastern between June 2006 to May 2007; Nairobi and Central in June 2007 to May 2008; Coast in 2008 and in Rift Valley in 2008. APHIA II Rift Valley introduced activities in Rift Valley

¹ Askew Ian, Jane Chege, Carolyne Njue, and Samson Radeny. 2004 "A multisectoral approach to providing reproductive health information and services to young people in Western Kenya: The Kenya Adolescent Reproductive Health Project," FRONTIERS FINAL REPORT Washington DC: Population Council

² Since the initiation of KARHP the Ministry of Gender, Culture and Social Services has been split into two ministries- Ministry of Gender, Children and Social Development and Ministry of Youth Affairs and Sports.

Province in 2008³. In each province, the program was first introduced in two pilot districts in the first year, followed by expansion to the rest of the districts in the second year with assistance from APHIA II⁴ partners in the respective provinces.

In February 2010, when the Ministry of Health published the first-ever compendium of best practices in reproductive health in Kenya⁵, the institutionalization of KARHP was identified as one of the eight best practices in the country. A program was considered a best practice if it was evidence-based and had demonstrated impact; if it could be replicated; was cost-effective and sustainable (i.e., integrated within Kenya's Ministry of Health systems); and had led to increased service utilization.

Feedback from ministries involved in the implementation of the programme over the last ten years suggests that KARHP activities have been adopted in work plans, budgets and policies. However, no systematic study had been undertaken to assess whether KARHP activities have indeed been sustained at national, provincial and district levels.

Systematic assessment of the sustainability of KARHP is therefore critical to demonstrate that activities have continued over time and space. Such evidence can improve decision making on institutionalization of a pilot project, and provide an opportunity to identify what works. This study examines the status and sustainability of KARHP over time in order to draw critical lessons in scaling up this pilot intervention. Specifically, the study aimed to:

- 1) Determine the extent to which KARHP activities have continued at national, provincial, district levels;
- 2) Determine whether desired sexual and reproductive health outcomes (knowledge, behavior and practices) have been sustained among in- and outof school adolescents over time; and
- 3) Identify challenges experienced by various partners in sustaining the model.

The evaluation contributes to the USAID/ Kenya Five-Year Implementation Plan for the Health Sector (2010-2015) IR 4.3 and the APHIA*plus* strategy. It further contributes to the planned review of the Kenya Adolescent Reproductive Health Policy by the National Coordinating Agency for Population and Development (NCAPD) and DRH.

³ Askew Ian and Evelia Humphres. 2007. Mainstreaming and Scaling Up the Kenya Adolescent Reproductive Health Project. Population Council Frontiers in Reproductive Health Program.

⁴ APHIA II refers to AIDS, Population and Health Integrated Assistance program, Phase II. This is a program funded by the United States Agency for International Development (USAID) with the aim of improving health outcomes in Kenya.

⁵ Division of Reproductive Health, Government of Kenya 2009: Best Practices in Reproductive Health in Kenya. Nairobi

Study methodology

This was an exploratory study carried out between December 2009 and March 2010. The study was approved by the National Council for Science and Technology and used a range of methods, including desk review, a survey among adolescents, school and national assessments.

Desk review

A total of 29 documents (Annex 1), including ministry policy guidelines, Annual Operations Plans (AOPs) and work plans for APHIA II partners were reviewed retrospectively to the time KARHP was initiated in 1999, to identify if ASRH/ HIV/AIDS activities had been integrated into policy and program frameworks. The review was conducted using a checklist (Annex 2) to examine, among other indicators, resource allocation as well as monitoring and evaluation mechanisms.

Knowledge attitude and practice survey among adolescents

A knowledge, attitude and practice (KAP) household survey was conducted in the original KARHP pilot divisions of Sabatia and Nambale in Western Kenya to determine whether desired sexual and reproductive health outcomes had been sustained over the last ten years. The KAP survey examined adolescents' knowledge about contraceptive methods and sexually transmitted infections (STIs); attitudes towards premarital sex and childbearing; and sexual practices including sexual debut.

The survey followed a sampling strategy and design similar to that used in the 2003 study. The study targeted in- and out-of-school adolescents aged 10-14 years using a revised version of the 2003 questionnaire. A total of 2,406 adolescents aged 10-19 years (1,307 females and 1,099 males) were interviewed in the Sabatia and Nambale divisions. Survey results were then compared to those from the 2003 study to decipher health behaviors over time. Only differences that were statistically significant between the OR studies and the 2010 assessment at the level of 0.05 and 0.01 were considered indicative of a probable change. Table 1 describes the general characteristics of study respondents in the ten year evaluation study.

Characteristics		Males		F	Females	
		Ν	%	N	%	
C:+-	Nambale	549	50	652	50	
Site	Sabatia	550	50	655	50	
A	10-14	598	54	678	52	
Age	15-19	501	46	629	48	
Ever attended school		1094	100	1302	100	
Current/ highest level of	Primary	859	79	1008	77	
schooling completed	Secondary	133	21	289	22	
Ever worked for pay		308	28	173	13	
Marital status	Single	1097	100	1271	97	
IVIdI Ital Status	Married	1	0	34	3	

Table 1: Distribution of survey respondents by background characteristics

Assessment of KARHP activities in schools

The purpose of the school assessment was to examine the status and coverage of in-school KARHP activities. A total of 420 primary and secondary schools were randomly selected from a list of 17,800 schools obtained from the Ministry of Education, from the seven provinces where the KARHP model has been implemented. Of the sampled schools, data was only collected from 340 schools⁶. The schools comprised public primary schools (39%), public secondary schools (42%), private primary schools (12%) and private secondary schools (7%). At the schools, the Guidance and Counselling (G&C) teachers (91%) or school heads/ principals (9%) were interviewed using a simple questionnaire that focused on the following issues:

- a. Existence of and support for KARHP activities;
- b. Integration of KARHP activities into regular schooling schedules; and
- c. Availability of KARHP and other ASRH materials in schools.

Assessment of KARHP activities implemented nationally

The assessment involved in-depth interviews and group discussions with officials from national, provincial and district levels to determine the extent to which KARHP activities have continued and to identify the factors that may have facilitated or inhibited sustainability of the model. Table 2 summarizes the number of in-depth interviews and group discussions conducted.

Target	Location
Contact officials from four ministry head offices	4 in-depth interviews with national officials from the four ministries
 Ministry officials at provincial level Director of Education Youth Officer Medical Officer Director of Social Services and Children Affairs Public health Technician 	 32 in-depth interviews with ministry Nairobi Province Central Province Eastern Province* Nyanza Province Coast Province Western Province Western Province* *APHIA II Partners were also interviewed in Eastern and Rift Valley
 Members of District Inter-Ministry Committees (DIMCs) from two pilot districts per province District Education Officer District Social Development Officers/ Youth Officers District Public Health Officer District Medical Officer for Health 	A total of 7 group discussions with DIMCs members in the following provinces: • Nairobi Province • Central Province • Eastern Province • Nyanza Province • Western Province

Table 2: National assessment, in-depth interviews and group discussions conducted

⁶ Not all schools included in the sample were visited, because in some cases the head teacher was not available to give permission for interviews with teachers; in others, the G&C teachers were not available. In addition, some schools did not honor appointments when research assistants visited.

Key findings

Evidence of continuation of KARHP activities

At the inception of KARHP in 1999, there was little recognition and support for ASRH including HIV/AIDS in government policies, work plans and activities. There were no systematic education programmes on life-skills for in- and out-of-school adolescents and provision of adolescent reproductive health services was shrouded in controversy, with fears that it would lead to promiscuity⁷. Our results show that this has changed. ASRH issues have achieved visibility in national plans and policies.

This assessment found that at least 16 documents on adolescent reproductive health and HIV have been developed by the government over the last ten years (Annex 1). This includes policy documents and sector/ service strategy plans. In general, the documents review showed that ASRH issues have been well articulated in relevant policy documents and ministry work-plans. Specific activities have been identified, implementation approaches suggested and in some cases, monitoring and budgetary components included.

Continuation of activities by the Ministry of Education

The first policy on HIV in the Education Sector was developed in 2004 at a time when KARHP OR activities were being adapted and scaled up by the government and its partners. Since then, four other policy documents have been formulated that further institutionalize SRH life-skills training and HIV prevention education within the Ministry activities:

- i. (2005) Sessional Paper No 1 Education
- ii. (2007) Gender Policy in Education
- iii. (2008) Draft Guidance and Counseling policy
- iv. (2009) MOE HIV/AIDS Life-skills Training Manual

The Education Sector Policy on HIV stipulated that pre-service teacher training should equip teachers with skills to "build skills and positive attitudes" for HIV prevention among pupils. It also stipulates that life-skills training should be included in all school activities. In 2005, the Ministry launched the five-year Kenya Education Sector Support Program Strategic Plan (2005-2010), which outlines several activities that should be put in place to implement the policy on HIV/AIDS within schools. These include training teachers to teach life-skills education, using peer education, setting up school health clubs and strengthening guidance and counseling. The document also includes financial commitments by the Ministry to support these activities.

⁷ Askew Ian, Chege Jane, Njue Carolyne, Radeny Samson. 2004. A multi-sectoral approach to providing reproductive health information and services to young people in Western Kenya. The Kenya adolescent reproductive health project. *FRONTIERS Final Report*

During this period, the Guidance and Counseling Unit within the Ministry had started to gain visibility and was allocated a budget by the Ministry to strengthen it and support implementation of ASRH activities within schools. In 2006, with substantive input from PATH, Population Council and other stakeholders, the Ministry of Education began developing a National Guidance and Counseling policy to strengthen guidance and counseling and teaching life skills education in schools.

To further support the integration of life-skills in schools, a ministerial circular was issued in 2007, which required all primary and secondary schools in the country to provide life skills education as a non-examinable subject and to include it in the school timetable once a week:

"After consultation with stakeholders, it has been agreed that life skills be introduced as a standalone subject in primary and secondary education. In view of this, all schools are hereby advised to timetable and teach Life Skills as a non-examinable subject once a week..." [Ministry of Education, Directorate of Quality Assurance and Standard Ref N0. QAS/A/2/1A/75 circular on teaching life skills in primary and secondary schools, dated December 18th 2007]

In 2009, the Kenya Institute of Education (KIE) launched a life-skills training manual for in-school teaching, which covered a wide range of adolescent sexual and reproductive health issues. The manual's content is very similar to the KARHP curriculum, and indeed, the Guidance and Counseling Unit has recommended the comprehensive *"Tuko Pamoja"* curriculum as a reference guide for teachers implementing the KIE curriculum.

During the KARHP expansion phase (2006-2008), the Ministry of Education also directly supported the expansion of activities within schools in four provinces (Coast, Eastern, Western and Nyanza). For instance, in 2006 in Western Province, the Provincial Education Board approved funding to expand KARHP to two thirds⁸ of schools in the province that had not been covered by KARHP.⁹ Similar support was given by district educational boards in Eastern province (Meru Central District) and Nyanza provinces (Kisumu District) for schools not covered by KARHP funding.

In April 2007, the MOE allocated Kshs 2.1 million to roll-out the program to 600 schools in Nyanza and Eastern provinces. In total, 12 districts benefited from this expansion including Nyamira, Homa Bay, Kuria, Suba, Siaya and Bondo in Nyanza Province and Tharaka, Meru South, Meru North, Kitui, Mwingi and Makueni in Eastern Province. 264 Ministry staff (teachers and MOE officials) were trained

⁸ Experience by Centre for British Teachers (CfBT) and KARHP in Western Province demonstrated that training staff and parent representatives from one third of the primary and secondary schools in a district could effectively ensure that sufficient capacity to provide school-based HIV and RH information is built within the Ministry at the district level. The Ministry of Education, Science and Technology (MOEST) can then take responsibility to ensure that this capacity is used to introduce KARHP into the remaining two-thirds of schools.

⁹ Askew Ian and Evelia Humphres. 2007. Mainstreaming and scaling up the Kenya Adolescent Reproductive Health Project. Population Council. Frontiers in Reproductive Health Program.

in Nyanza Province and 238 in Eastern Province. Population Council and PATH provided materials (*Tuko Pamoja* manual) and technical assistance in planning and facilitating expansion. In April 2008, the MOE approved a further KShs 1.5 million to expand KARHP to four districts in Coast Province and two districts in Eastern Province. A total of 1200 schools were covered during this expansion and Population Council provided technical support.¹⁰

KARHP continuation in schools

Results of the field assessments support the findings of the document review, and show that indeed, the activities introduced under KARHP have been adapted by the MOE. The assessment found that 92% of schools visited offer teaching of life-skills, peer education, integration of ASRH in extracurricular activities, health clubs and debat clubs, and referrals for SRH and other health services at health facilities.

Schools in the study were asked if they were implementing any adolescent life-skills, sexual and reproductive health and HIV/AIDS education. Over 92% of all schools surveyed reported implementing life-skills training. The study found that although the activities were mainly run by the G&C teachers (84%) in schools, other teachers (52%) had also taken up the responsibility and were integrating it in other subjects appropriately. About 16% of schools reported that head teachers participated in running these activities.

Findings show that 96% of the schools surveyed had a guidance and counseling department/ unit, with at least two teachers (93%), indicating that the Ministry's efforts to strengthen guidance and counseling have been successful. Over 61% of schools reported that they had a question box into which students can drop in questions to issues raised during life-skills sessions. The study found that slightly over half (56%) of the schools had a life-skills curriculum. Over twenty different types of curricula/ educational manuals from different stakeholders were found to be in use in schools, including KIE's Life skills syllabus "*Tuko Pamoja*" by KARHP and texts from the Centre for British Teachers' (CfBT) Action for Better Health programme. Most of the schools (80%) used the curricula as reference material while only 14% used it as a teaching aid.

Over two thirds of all schools (70%) had life-skills sessions slotted into the school timetable, and about 93% of these schools had at least one lesson per week. In the primary schools, life-skills were taught mostly to the upper classes from Class Four. Seventy-eight percent of the schools reported that they integrated life-skills/SRH/HIV/AIDS messages into extra-curricular activities including sports, music and drama, art, club activities, school open days and exhibition days.

¹⁰ Evelia et. al. 2008 From pilot to program: Scaling up the Kenya Adolescent Reproductive Health Project Frontiers in Reproductive Health, Population Council.

Over two thirds of schools (72%) reported that they had peer educators. About 77% of the schools with peer educators had trained them with support from different agencies working in the regions including APHIA II partners. In 25% of schools, the peer educators used manuals and other materials supplied by partners. The following table summarizes the range of ASRH activities implemented in schools.

Activity	N=340	%
Implementing any life skills/ ASRH activities	314	92%
With G&C department/ teacher	325	96%
With any life skills curriculum	188	56%
With a question box	206	61%
With peer educators	243	72%
With KARHP/ Health clubs	131	39%
With life skill on timetable	236	70%
Integrating ASRH/HIV in extracurricular activities	265	78%
With RH/HIV/AIDS IEC materials	216	64%
Offering referral for health services	249	74%
With KARHP " <i>Tuko Pamoja</i> " curriculum (out of 188 schools with any life skills curriculum)	65	37%

 Table 3: Proportions of schools implementing ASRH activities

The school assessment findings were supported by feedback received in interviews with Ministry of Education officials at the provincial level, which show that strategies have been put in place to ensure ASRH activities continue even when teachers leave:

"We have structures and strategies [for continuity of ASRH activities] that is why for example if you as the head of guidance and counseling are promoted, to maybe, the head teacher, somebody else is promoted to take up that position. So in any school that we have HOD [Head of Department] guidance and counseling, there is no one day that office is done away with. Once established it just stays. (In-depth interview, Provincial Officer, Ministry of Education Western Province)

Those interviewed expressed confidence that teaching life skills and having ASRH activities in schools had contributed to improve confidence levels in students, reduced incidences of pregnancy, increased goal setting and improved academic performance:

"Among the members, I called the teachers and they told me the performance has gone up and there are fewer pregnancies and there is behavior change" (FGD participant Rift Valley Province)

"...in one of our districts in Butere during our meeting they were able to tell us that before they initiated [KARHP] they had high school drop outs because of early pregnancies. When these activities took root, it cut down to even less than five.... It helps have higher school retention and pupils pursue their education fully" (In-depth interview, Provincial Officer, Ministry of Education Western Province)

Continuation of activities by MGCSD and MOYAS

Among the roles of the Ministry of Gender, Children and Social Development (MGCSD) is providing leadership and policy direction in addressing the needs of young people out of school, and in vocational training institutes. The Ministry of Youth Affairs and Sports (MOYAS) was created in 2005, to further advance government efforts to meet the unique needs of a large youthful population. During the 10-year period of KARHP implementation, the two ministries developed several policy and strategic documents on ASRH/HIVAIDS, four of which were reviewed under this assessment. These include:

- i. (2006) National Youth Policy
- ii. (2007) National Plan of Action for the Health Component of the National Youth Policy
- iii. (2008) Ministry of Youth Affairs National policy for youth training
- iv. (2009) MOYAS Training Manual Trainees Handbook

The development of the National Youth Policy borrowed heavily from the Ministry's experience in the implementation of KARHP. The health component of the policy identifies priority areas to be addressed by the Ministry including:

- i. Establishing guidance and counseling units managed by the youth in all schools and other learning institutions under the Ministry;
- ii. Promoting and enhancing affordable or free counseling programmes on health-related issues, especially peer-to-peer counseling in faith-based institutions;
- iii. Encouraging parents to take an active role in teaching and counseling their children on responsible sexual behavior;
- iv. Improving access to voluntary counseling and testing (VCT) services for all youth.

To ensure that the activities were implemented accordingly, staff performance contracts included youth health and social development priorities. In 2009, the Ministry of Youth Affairs and Sports developed a training manual and a trainees handbook for life-skills training, and both cite KARHP's '*Tuko Pamoja*' as a key resource. The national assessments found that that Ministry staff in the provinces have continued to use the community-centered approach to address issues affecting youth including SRH and HIV/AIDS:

"In our Ministry [MGCSD], what we usually do once we go to the baraza [or] youth meeting, we talk about drugs, we talk on something about KARHP, on issues affecting the community directly we touch on drugs, HIV and related issues" (FGD participant, Eastern Province)

"For us, we have an action plan under the ministry that basically targets groups within the youth [including] youth with special needs ... we also have youth with teenage pregnancies, those vulnerable by the fact that they are from the street or from the slums or informal sectors and then the action plan is structured in a way that what we are doing as a Ministry now forms part of the larger health intervention". (MOYAS-FGD participant, Nairobi Province)

Activities by the Ministry of Health

The Ministry of Health recognizes youth as a priority group for health interventions in its policy documents and expressly recommends specific strategies to reach young people with information and services. In 2003, the Ministry of Health and the then National Council for Population and Development (NCPD) developed the Kenya Adolescent Reproductive Health and Development (KARHD) policy and the accompanying Action Plan (2005), which outline strategies to reach adolescents with information and services. The two documents were heavily informed by the KARHP experience and recommend strategies that had been introduced under the project. These include: provision of youth friendly services (YFS) through static and outreach services including, workplaces, community/ outreach events and school programs; training service providers and peer educators to offer lifeskills training for youth and integration of ASRH with other programs including livelihood programs. The Plan of Action also identifies ASRH indicators for use in the monitoring and evaluation plan.

Since 2006, the Ministry has consistently prioritized health needs of young people in successive annual operational plans (AOPs). In addition, the 2007 National Reproductive Health Policy recognizes health needs of adolescents and identifies strategies for responding to them. The policy clearly recommends a multi-sectoral approach to increase access to information and services for adolescents. The national RH curriculum for service providers has included a lot of content similar to that in the KARHP curriculum for service providers and cites *"Tuko Pamoja"* curriculum as a key resource. The creation of the Division of Child and Adolescent Health is also seen as an effort to create more visibility for ASRH issues within the Ministry.

In-depth interviews with Ministry officials in the provinces found that the Ministry of Health has continued to promote youth friendly RH services, including the provision of contraception for sexually active adolescents, HIV prevention information and VCT services, and PMTCT services for pregnant adolescents. Through the community-based Public Health Technicians, the Ministry encourages referrals for services for young people in the community:

In the Public Health Ministry, the Public Health Officers when they meet with youth groups, they discuss topics on teenage pregnancies, abortion, HIV/AIDS and also in our health facilities. We encourage the young people to come here even if they don't have a formal youth clinic, community health workers also have report centers where give advice to the youths. (FGD participant, Eastern Province)

However, the assessment found that monitoring of activities needs to be strengthened. For instance, there was no indication found that measurement of gains made in successive AOPs had taken place. In addition, since the development of the Adolescent Sexual and Reproductive Health and Development policy (2003), no measurement of impact has been undertaken.

Cross-cutting issues supporting the continuity of ASRH activities in the provinces

Findings from the desk review of ministry work plans showed that the government has made efforts to provide funding for ASRH/HIV/AIDS activities, through allocations to specific ministries. In the provinces and districts, the national assessments found that Constituency Development Funds have been used to support ASRH/HIV/AIDS activities, especially setting up infrastructure, including health facilities and youth centers. The ministries also leverage for resources from partners (example USAID, PEPFAR, CDC, UN agencies, DFID, GTZ, European Union, and local banks) to support activities, including training staff and the implementation of programs.

The assessment found that inter-ministry collaboration, a key feature under KARHP, had weakened and the coordination committees that led the implementation of ASRH activities no longer met. Discussions with local staff from the three ministries found that the committees may have been undermined by inadequate funding and lack of coordination:

I have heard of the Inter-ministerial Committee which consists of the Ministry of Health, Education, Gender and Culture and Social Services. There was a meeting held last year-2008 where departments were been informed that APHIA II will take over operations from the Population Council, a Chairperson was selected and meetings were to be held. I am not sure if there has been any meeting. (FGD participant, Eastern Province)

In some cases, the inter-ministry coordination was integrated into existing interdepartmental committees coordinated by the District Commissioner or the District Development Officers (DDO):

"...the DDO district development officer is the one in charge of organizing the committee. Different ministries meet and look through those issues together and what we are implementing we talk and somehow we come up with a strategy. (FGD participant, Rift Valley Province)

Evidence of sustained effect on adolescents' knowledge and behaviors

According to the 2008-2009 KDHS, sexual initiation is early in Kenya - 11% of the women and 22% of the men aged 15-19 years surveyed nationally had sex by 15 years of age. In Western Province, 8.7% of the women had sex by 15 years and 48% by 18 years; among males, 27.3% had sex by 15 and 69.2% by age of 18 years. The goal of the KARHP interventions had been to provide adolescents with information on sexual and reproductive health in order to delay sexual initiation and increase safer sex practices among those already sexually active. This evaluation sought to establish whether ASRH knowledge and behaviors had changed over time. In general, this study found that the activities implemented in the ten-year period of KARHP have had a positive effect on knowledge and sexual behavior of young people in the study sites. The following section summarizes these findings.

Effect on adolescents' knowledge and awareness of RH issues

Knowledge of RH issues: The findings show that awareness of common RH issues, such as menstruation, dating, sexual intercourse and pregnancy, has been sustained over time. Knowledge was higher among older (15-19 year olds) adolescents as compared to younger adolescents, and an improvement was observed, compared to the 2004 endline evaluation. This may be attributed to continued provision of reproductive health information through schools.

	1999 Baseline	2004 End line	2010 Assessment	1999 vs 2010	2004 vs 2010
Boys 10-14	N=369	N=387	N=598	N=387	N=598
How body works	41%	43%	47%	ns	ns
Menstruation	37%	45%	39%	ns	ns
Dating	38%	52%	62%	**	**
Sexual intercourse	63%	75%	84%	**	**
Boys 15-19	N=275	N=317	N=501	N=317	N=501
How body works	76%	74%	88%	**	**
Menstruation	86%	85%	95%	**	**
Dating	72%	80%	94%	**	**
Sexual intercourse	91%	97%	98%	**	ns
Girls 10-14 yrs	N=939	N=940	N=678	N=940	N=678
How body works	39%	49%	49%	**	Ns
Menstruation	50%	68%	60%	**	**
Dating	31%	47%	67%	**	**
Sexual intercourse	54%	75	83%	**	**
Girls 15-19 yrs	N=815	N=874	N=629	N=874	N=629
How body works	72%	75%	87%	**	**
Menstruation	94%	96%	99%	**	**
Dating	73%	78%	93%	**	**
Sexual intercourse	91%	95%	99%	**	**

Table 4: Proportion of adolescents who have ever heard of reproductive health functions

*P<0.05; ** p<0.01; ns- Not statistically significant

Knowledge of contraception: The ten-year evaluation study found that nearly half of the boys (48%) and 42% of girls in the study had ever heard about contraception/family planning (Table 5). In addition, knowledge of specific methods is higher among older boys and girls; condoms, pills and injections were the most commonly known methods. Teachers were cited most frequently as the source of information on contraception (27% of boys and 30% of girls). However, there appears to be a drop in knowledge of the pill and injection in the 2010 survey compared to the 2004 survey, although it was still higher than the 1999 levels. The drop could be attributed to low promotion of contraceptive pills and the injection to adolescents.

	1999	2004	2010	1999 vs	2004 vs
	Baseline	Endline	assessment	2010	2010
Boys 10-14	N=345	N=193	N=154		
Condom	62%	87%	96%	**	**
Pill	33%	74%	54%	**	**
Injection	29%	71%	43%	**	**
Boys 15-19	N=265	N=248	N=376		
Condom	91%	98%	100%	**	**
Pill	67%	88%	85%	**	ns
Injection	65%	87%	73%	**	**
Girls 10-14	N=807	N=468	N=122		
Condom	47%	86%	97%	**	**
Pill	26%	83%	69%	**	**
Injection	28%	80%	58%	**	**
Girls 15-19	N=755	N=716	N=429		
Condom	85%	94%	100%	**	**
Pill	75%	93%	87%	**	**
Injection	75%	92%	84%	**	**

Table 5: Proportions reporting ever heard of specific methods

*P<0.05; ** p<0.01; * ns- Not statistically significant

Approval for contraceptive use by married adolescents was found to be high (over 66% from both boys and girls) and much higher for other married couples (over 70%). Although most adolescents in the 2010 survey (70% females and 80% males) approved condom use for dual protection (against STIs and pregnancy) by sexually-active peers, only 31% approved use of other contraceptive methods by unmarried adolescents.

Knowledge of correct condom use: Respondents in the ten-year evaluation survey were asked to list, the key steps in correctly using a condom, and the results compared to those of the 2004 survey. In both surveys, adolescents' knowledge of correct condom use was low, perhaps due to the weak promotion of condom use in ASRH activities. About 41% of males and 64% of females in the study could not identify any step in correct condom use, levels similar to the 2004 survey. These findings seem to suggest that there has been no change in condom use promotion efforts for adolescents aged 10-19 in the study sites over time.

Knowledge of sexually transmitted infections: HIV/AIDS awareness is near universal in 2010 KARHP assessment. Additionally, most adolescents (63% for both boys and girls) in the study have ever heard of sexually transmitted infections. The majority have heard about STIs from teachers (73% for boys and 78% for girls). Nearly half of those who knew any signs of STIs (48% (n=29) of females and 48% (n=37) of males) had experienced symptoms in the last twelve months preceding the survey. Over half of the girls who reported experiencing any signs had sought treatment. Among the boys, 38% (n=15) of those reported experiencing any signs of STIs sought treatment. Most of the males who did not seek treatment thought it was normal (47% n=8). Among the girls, nearly half of those who did not seek treatment feared being stigmatized at health facilities. Treatment for partners was reportedly very low at 13% for males and 14% for females. About 33% of males and 36% of females reported ever thinking of getting an HIV test. Among these, 38% of males and 51% of girls actually had been tested. Generally, girls in the study reported to seek health services more than boys.

Effect on adolescents' sexual and related reproductive health behaviors

Occurrence of sexual activity: The evaluation examined whether occurrence of sexual activity among the adolescents had changed over time. The findings show an increase in the proportions of those reporting delayed initiation of sexual activity of any kind. In the 2004 and 2010 surveys, older adolescents were more likely to have experienced any type of sexual activity than younger adolescents. For instance the 2010 data shows that 7% of females and 26% of males had penetrative sex by 10 years of age, compared to 13% in 2004. There were no significant changes in the median ages at sexual initiation between the two surveys - the median age in 2004 survey was 14.3 years for boys and 15.2 for girls, comparable with 14 years for boys and 15 years for girls in the 2010 survey. Most sexual encounters among young people were with partners known to them, with no change between the 2004 and 2010 surveys.

Use of condoms and contraception: Consistent condom use is important to reduce risk of sexually transmitted infections; condom use at first sex is an indicator of reduced risk of exposure at the beginning of sexual activity. Young adults who use condoms at first sex are more likely to sustain use later in life. In the 2008/2009 KDHS, only one in four young Kenyans (24% of famales and 26% of males) reported that they had used a condom the first time they had sex; 42% of females and 55% of males reported condom use at last sex (KNBS and ICF Macro. 2010). There is no change in type and source of contraceptive methods used by the majority of adolescents at first and last sex over time between the two surveys. The majority of adolescents who reported use of any method at first and last sex, used condoms with the majority obtaining them from a kiosk (local shop).

The KARHP endline survey in 2004 found that girls were more likely to use condoms than boys at the first sexual intercourse, although this was not the same at the last sexual encounter. The 2010 evaluation findings found similar trends: among the sexually-active adolescents, over half of the girls (53%) and 34% of the boys said that they had practiced safe sex the first time they had sexual intercourse. This is an increase from the findings of the 2004 survey where only 19% of boys and 25% of girls reported safe sex the first time. The incidence of safe sex at the last intercourse in the 2010 survey increased to 43% among boys but dropped to 40% among girls, slight improvements from the findings of the 2004 survey.

Adolescents experience with adverse sexual activity outcomes: This study found an increase in the proportion of girls reporting having been pregnant. Among the sexually-active girls in the sample, 40% (n=60) had ever been pregnant, which is similar to the findings of the 2004 study. Among sexually-active 10-19 year olds in the 2010 survey, 30% of girls and 35% of boys had ever had symptoms of sexually transmitted infections; of these, 48% had experienced such symptoms in the 12 months preceding the survey. About 41% of girls and 38% of boys sought treatment at health facilities. Most of the males who did not seek treatment thought the

symptoms were normal while females reportedly lacked money to seek treatment; some cited lack of time and fear of stigma as well. 14% of partners of those who were infected were treated, with female partners being more likely to have gone for treatment.

	1999	2004	2010	1999 vs 2010	2004 vs 2010
Sexual activity					
Boys 10-14	N=352	N=387	N=598		
Penetrative sex	13%	13%	7%	**	**
No sexual activity	80%	81%	88%	**	**
Boys 15-19	N=269	N=317	N=501		
Penetrative sex	52%	51%	38%	**	**
No sexual activity	45%	43%	52%	ns	*
Girls 10-14	N=868	N=939	N=678		
Penetrative sex	3%	3%	2%	ns	ns
No sexual activity	90%	94%	96%	**	ns
Girls 15-19	N=801	N=874	N=629		
Penetrative sex	30%	37%	22%	**	**
No sexual activity	64%	61%	66%	ns	*
Median age at first sexual encounter					
Boys 10-19	13.9yrs	14.3yrs	14yrs		
Girls 10-19	14.8yrs	15.2yrs	15yrs		
Condom use at first and last sexual					
intercourse					
Total boys	N=185	N=226	N=227		
At first intercourse	18%	19%	34%	**	**
At last intercourse	34%	32%	43%	ns	**
Total girls	N=303	N=390	N=152		
At first intercourse	21%	25%	53%	**	**
At last intercourse	24%	32%	40%	**	ns
Ever heard of STIs or HIV/AIDS knowing					
ways of avoiding infection					
Total boys	N=620	N=704	N=1099		
Abstain	37%	54%	70%	**	**
Use condom	35%	45%	39%	ns	*
Be faithful personally	15%	19%	7%	**	* *
Ask partner to be faithful	16%	20%	9%	**	**
Total girls	N=1694	N=1813	N=1306		
Abstain	42%	60%	69%	**	**
Use condom	22%	31%	28%	**	ns
Be faithful personally	12%	18%	9%	**	**
Ask partner to be faithful	17%	17%	8%	**	**

Table 6: Summary of survey findings on selected indicators over the three KARHP evaluation	
studies	

*P<0.05; ** p<0.01; ns- Not statistically significant

Discussion and conclusion

Sarriot¹¹ defines sustainability as a combination of processes and outcomes to which programs contribute. This involves creating an enabling environment to allow individuals, communities and local organizations to express their potential, improve functionality and decrease dependency on insecure resources – finances, human, technical, informational. As a result, stakeholders are able to negotiate their respective roles in the pursuit of health and development beyond a project intervention.

Study findings show that ASRH activities have been sustained within the public sector. In the past ten years, government ministries have ensured the creation of a policy and legislative environment supportive to meet the SRH/HIV/AIDS needs of young people in Kenya. With support from stakeholders, appropriate ASRH policies and strategic documents have been formulated that recognize, prioritize and increase visibility around ASRH activities. The documents also clearly outline sectoral objectives and define principles to guide national programming. They are strong on identifying gaps and needs, diversity among adolescents, activities to be implemented and strategies for implementation. There have also been deliberate efforts by the three ministries to provide leadership ASRH activity roll-out.

It is clear from the findings that the different ministries have made efforts to allocate funds to support ASRH activities and to build their capacities to implement them. Ministries have adopted a multi-sectoral approach, working with partners in the private sector, donors and NGOs to leverage funding for activities. Other efforts have seen the creation of a new ministry (MOYAS) and departments (Division of Child and Adolescent Health), as well as strengthening existing departments (Guidance and Counseling) to improve focus on addressing the need of young people.

The survey shows that knowledge about reproductive health among young people has improved, and has been sustained since the 2004 evaluation. There is significant increase in the proportions of adolescents who are delaying sexual debut. The results also show significant improvement in the proportions of those who reported safer sexual practices at first sex, in comparison with the 2004 evaluation. Although condoms remain the method of choice for sexually active 10-19 year olds, there are concerns over the poor knowledge of how to use them correctly.

Ministry efforts to sustain ASRH activities within the public sector have faced challenges. Funding has been inadequate, perhaps due to the competing national interests, especially in treatment as opposed to preventive campaigns. Monitoring and evaluation components of the various ministries' ASRH activities have also not

¹¹ Sarriot EG, Winch PJ, Ryan LT, Bowie J, et al. 2004 A methodological approach and framework for sustainability assessment in NGO-Implemented primary health care programs. International Journal of Health Planning and Management 19: 23-41

been given much priority. For instance, successive AOPs have not endeavored to build on gaps of previous implementation efforts. There is need to streamline coordination, especially of the materials used in life-skills education in schools and their distribution, to avoid the current situation where different manuals and curricula are in use.

It is clear from this study that ASRH activities have received recognition by the government and efforts have been made by the ministries to institutionalize them and assure their sustainability. The KARHP model has been sustained because government ministries have been involved in its design, pilot-testing and scaling up. Activities were also implemented within existing government structures. It can be concluded therefore that with initial support, government ministries can implement and scale up reproductive health and HIV services within the public sector and have sustained effect on adolescent behaviors. However, the government needs to streamline coordination, strengthen funding, and provide effective monitoring and evaluation of its ASRH activities.

Study findings suggest that the implementation of ASRH activities in schools may have an impact on academic performance. This relationship should be investigated in future research. Studies are also needed to examine sustainability of ASRH activities at facilities and at the community levels.

Annex 1: Policy documents and work plans reviewed

- 1. (2004) Education Sector Policy on HIV
- 2. (2005) Sessional Paper No 1 Education
- 3. (2005) Kenya Education Sector Support Programme 2005- 2010
- 4. (2007) Gender Policy in Education
- 5. (2009) MOE HIV/AIDS Life-skills Training Manual
- 6. (2007) National Plan of Action for the Health Component of the National Youth Policy
- 7. (2008) Ministry of Youth Affairs National policy for youth training
- 8. (2008-2009) MOYA Directors Work-plan
- 9. (2009-2010) MOYA Department of Youth Training Workplan
- 10. Provincial Director of Youth Affairs work-plan, Central
- 11. (2009) MOYA &S Performance Contract
- 12. (2009) MOYA Training Manual Trainees Handbook
- 13. (1999) NASCOP Strategic Plan
- 14. (2003) Kenya Adolescents Reproductive Health and Development policy
- 15. (2004) RH Research Agenda¹²
- 16. (2005) Kenya Adolescents Reproductive Health and Development Policy Plan of Action
- 17. (2006) Community Strategy for delivery of level 1 services
- 18. (2006)¹³ MOH Annual Operational Plan No. 2
- 19. (2006) MoH National RH Curriculum for Service Providers
- 20. (2007) MOH Annual Operational Plan No. 3
- 21. (2007) Reproductive Health Policy (MOH)
- 22. (2008) DRH Annual Operational Plan No. 4
- 23. (2009) Kenya National AIDS Strategic Plan
- 24. (2009) DRH Annual Operational Plan No. 5
- 25. (2009) FP Guidelines
- 26. (2008) APHIA II Nyanza IR2 Work plan
- 27. (2008) APHIA II RV SBC Work-plan
- 28. (2008) APHIA II Coast SBC plan
- 29. (2009) APHIA II Nyanza Implementation Strategy review

¹² Updated 2010

¹³ ASRH is included in the Kenya Essential Health Package under Cohort 4 (Adolescence)

Annex 2: Desk review checklist

From Pilot to Program: Assessing the Status and Sustainability of the Kenya Adolescent Reproductive Health Program 2009

Type of document_____

Year valid (for annual work plans) _____

Level/title of document:

National document _____

Provincial document_____

District document_____

	Question/ observation	Comments
1.	Does the document recognize/ prioritize the need to address adolescent reproductive health and HIV/AIDS issues?	
2.	Which adolescent reproductive health and HIV/AIDS issues/gaps have been prioritized?	
3	To what extend have these issues been prioritized (what groups of adolescents have been targeted, by who, coverage)	
4.	Is the way the issues highlighted show a clear understanding of ASRH concerns to be addressed	
5.	At what levels are the issues being addressed?	
6.	What strategies/ approaches are used in addressing the prioritized needs	
7.	What resources have been made a viable for implementation of the said strategies (human/ financial/ material)? Who is providing?	
8.	Is there a monitoring component to assess the strategies? Who is responsible for monitoring	
9.	What are the identified outcomes?	
10.	What are the achievements	
11.	What are the challenges?	
12.	What are the lessons learnt?	

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