XV International AIDS Conference, Bangkok, July 2004

Scale-up Strategy for the Prevention of Mother-to-Child Transmission of HIV/AIDS in Resource-Limited Settings in Eurasia

According to WHO/Europe, the former Soviet Union is facing one of the most rapidly increasing HIV epidemics in the world. More women are becoming infected and vertical transmission of HIV is steadily rising.1 To combat this transmission of HIV is steadily rising. To combat this, countries in this region are scaling up their response to the epidemic through various strategies, including the prevention of mother-to-child transmission (PMTCT) of HIV. Countries invest in PMTCT first and foremost on humanitarian grounds because it may protect infants born to HIV+woman from undue suffering and death. But, there are also exceeding the strategies of the properties PMTCT programs. economic reasons for implementing PMTCT programs economic reasons for implementing PMTC.1 programs, namely keeping infants virus free prevents long-term drains on health service resources. Ultimately, preventing pediatric HIV infection is less costly than caring for children who develop HIV/AIDS, especially if highly-active antiretroviral therapy (HAART) is used.³

rding to recommendations made by WHO in 2003, PMTCT programs will help to reduce HIV infections by 50% by 2010 if these programs are based on four key

- omponents:
 primary prevention of HIV infection;
- prevention of unintended pregnancies am HIV+ women;
- prevention of mother-to-child transmission; and
- provision of care for HIV+ mothers and their infants.4

The Odessa +PMTCT+ Model is one that limited-re countries can look to for guidance as they work toward this goal. It has been successfully shown to decrease vertical transmission by 75% from 2001-2003 and is currently being replicated in seven cities throughout Eurasia.

THE ODESSA MODEL

In 2001, the American International Health Alliance (AIHA), with support from the US Agency for International Development's (USAID) Bureau for Europe and Eurasia (E&E), initiated a pilot PMTCT project in Odessa, Ukraine, to establish a ated a pilot PMTCT project in Odessa, Ukraine, to establish a comprehensive and replicable PMTCT program. In 2003, that project was expanded to include the pre- and post-pregnancy provision of care (see poster #ThPeB7020). Defined as a +PMTCT+ approach because it includes these two compo- nents in addition to providing interventions to decrease the likelihood of vertical transmission, the project is an integral part of a larger, coordinated effort being undertaken by the international donor compunity (including UNAIDS international donor community (including UNAIDS UNICEF, and Médecins Sans Frontières) to addres HIV/AIDS prevention, care, and treatment in the region

ents of the Odessa +PMTCT+ Model Outreach and family planning Services for HIV+ pregnant women Protection of healthcare workers Networking

- On-going support and follow-up services
 Training and developing health professionals

The Odessa +PMTCT+ Project focuses primarily on introducing systemic and institutional capacity-building related to HIV/AIDS prevention and treatment. Among its

- the reorganization and strengthening of the service delivery
- the reorganization and strengthening of the service delivery system to ensure that PMTCT is well integrated into both maternal/child health and new family-focused primary care; the adaptation of evidence-based treatment protocols to ensure that treatment is effective and possible within the changing social and economic context of a resourcelimited setting; and
- the development of training materials and curricula for the development of training inactians and curricula for health professionals in important areas such as voluntary counseling and testing (VCT), obstetrics, occupational safety, pediatric care, women's health, and family planning.

CREATING A FOUNDATION FOR REPLICATION

The Odessa +PMTCT+ Project is based at the Odessa Oblast The Odessa +FM1C1+ Project is oased at the Odessa Oblast Hospital (OOH) and draws upon the resources of the AIHA-established Women's Wellness Center (WWC), 6 as well as other AIHA partnership activities in the city. 7 In June 2003, with the support of AIHA and partners from Boulder, Colorado,

OOH established the Southern Ukraine AIDS Education OOH established the Southern Ukraine AIDS Education Center (SUAEC), a PMTCT training center located within the OOH Maternity Hospital, to provide practical, skills-based training to healthcare professionals throughout the region. Center trainers were educated at Boulder Community Hospital in all aspects of PMTCT care and treatment, as well Hospital in all aspects of PMTCT care and treatment, as well as in adult learning methodologies. Together, AIHA and the Odessa/Boulder partners developed training materials for the courses SUAEC offers in all facets of the Odessa +PMTCT+ Model, including integrated case management; infection control procedures and occupational safety; VCT; effective drug therapy; safe delivery practices; prenatal, follow-up, and modistric care patient development of the procedure services. pediatric care; patient education; and social support services. SUAEC is an affiliated training center of the Region Knowledge Hub for the Care and Treatment of HIV/AIDS in Eurasia, a project supported by WHO and GTZ.8

- Key Factors in the Success of the Odessa Model

 Integration of PMICT services into the existing FMCs and WWCs.

 *Collaboration between OOH, Odessa Oblast Health Administration (OCHA), and local NGOs, ensuring outreach to the most vulnerable groups of presents HIV4 women.

- and local NGOs, ensuring outneech to the most valuenable groups of pregnant HIV4 women.

 Coordination with other organizations (guch as UNAIDS, UNICEF, and MSF) working to prevent vertical transmission in Odessa.

 Commitment of Utrainion Ministry of Health and OOHA afficials to develop PMICT regulations for the Odessa Oblast.

 Implementation of a case-management maniloring system that allows provider to manilor HIV4 women who have received antenatal care and given birth (see poster #URP-GLY18).

The Odessa +PMTCT+ Project is becoming widely recog-Ine Odessa +PMIC1+ Project is becoming widery recog-nized as an important model for other Eurasian cities and oblasts, in no small part thanks to its successes and the establishment of SUAEC. The first trainings at SUAEC brought together healthcare providers and policymakers from Kazakhstan, Moldova, Russia, and Ukraine; this sum-mer trainings will also be held for multidisciplinary groups from Mazakhstan, in Moldova, Sursa is incorting the mer trainings will also be held for multidisciplinary groups from Azerbaijan and Georgia. Since its inception, the Center has trained more than 200 professionals through seminars that include lectures and site visits, as well as meetings with clinicians, representatives of local NGOs, and actual patients—all designed to provide an overview of Odessa's comprehensive model of care. In addition, ININCEE recently supposed a site visit to Odessa for representatives. UNICEF recently sponsored a site visit to Odessa for repre sentatives from the Central Asian ministries of health that included an extensive orientation to the +PMTCT+ Project.

- as well as site visits:

 to the WWC where VCT and prenatal care is provided;
 to OOH where all HIV+ pregnant women receive obstet
- care; and
- to two Family Medicine Centers (FMCs) where follow-up care is provided for HIV+ mothers and their children.

SITE REPLICATIONS

A key aspect of the Odessa +PMTCT+ Project is the furth development of the model through **replication in selected beta sites.** These sites were selected by USAID and AIHA beta sites. I hese sites were selected by USAID and AHIA based on HIV-infection rates and previous AHIA programmatic experience in the region. Replication began in Almaty, Kazakhstan; Chisinau, Moldova; and Samara, Russia in 2003—all communities that have been involved in AHIA partnerships during the past decade. Each of these cities has a WWC, in addition to established capacity in areas related to infection control and primary care, built through their relationships with American counterparts. Four additional relationships with American counterparts. Four adminishing sites were selected for replication later that same year— Togliatti in Russia and Karaganda, Pavlodar, and Temirtau in Kazakhstan—with the understanding that the beta sites in



mara and Almaty will assist the additional sites in their

The main elements of the scale-up strategy incl

- relying on the proven effectiveness of the basic model;
 building political commitment with national, regional, and
- local health authorities and NGOs:

- local health authorities and NGOs;
 selecting suitable replication sites;
 conducting needs assessments;
 training providers from replication sites at SUAEC;
 establishing an on-going monitoring system using the
 PMTCT case-management database and regular
 assessments by SUAEC staff; and
- · introducing continuous quality improv and developing regional PMTCT Centers of Exceller

- To facilitate the rapid scale-up of quality PMTCT and related services available to HIV+ women at each site.
- To improve and expand collaboration between the healthcare system and local and national NGOs providing non-medical and psychosocial services to high-risk groups.

REPLICATION ACTIVITIES

SUAPC, which takes advantage of its close proximity to the associated WWC and FMCs to ensure that trainees can observe and participate in high-quality prevention, care, and treatment programs as part of their educational experience. Replication site staff and key stakeholders are trained in four

- specific areas:

 decision-making related to developing PMTCT progra
 in resource-limited settings;

 PMTCT obstetrics and gynecology;

 neonatal, pediatric, and follow-up care; and

- VCT.

When/Where	Who/What		
June 2003	policy-makers from Almaty, Chisinou, Samara, and Togliatti Discussion of strategies for replicating the PMTCT model in their respective regions		
July-August 2003	19 health professionals from Almaty, Chisinau, Samara, and Tagliatti • VCT		
August 2003	12 pediatricians and pediatric nurses from Almaty, Chisinau, Samara, and Togliatti Pediatric PMTCT		
September- October 2003	15 obstetricions and OB/GYN nurses from Almaty, Chisinau, Samara, and Togliatti PMTCT obstetrics		
January 2004	MCH and AIDS experts from Karaganda, Pavlodar, and Temirtau General principles of PMTCT		
March 2004	15 MCH and AIDS experts from Karaganda, Kiev, Pavlodar, and Temirtau • VCT		
March-April 2004	PMTCT teams from Kazakhstan, and Samara • Twoweek train-the-trainers course on OB/GYN and pediatric PMTCT		

Assessment of Replication Sites

Initial assessments have been conducted at all seven of the replication sites and AIHA has provided technical assistance to decision-makers as they develop a PMTCT strategy. The institutional framework of the site, its relationship to local and national AIDS Centers, as well as to local NGOs, and the and national AIDS Centers, as we as to local NGOS, and the selection of an appropriate hospital for service delivery were all discussed. At several sites, AIHA staff facilitated a meeting of key stakeholders to discuss a regional approach to implement PMTCT and solicited ideas from decision-makers about how to develop strategies that will work in their particular environments (see poster #ThPeB7021).

Assessment of Equipment, Supplies, and Medicati Equipment, supplies, and medication needs have been assessed. In the case of Kazakhstan, AIHA has assisted Republican AIDS Center's application to Axios for Viramune

To document baseline information and project results, a

PMTCT case-management monitoring database is now ope ational in six of the seven replication sites; the seventh will be finalized later this summer. The manager of the database

in Odessa has trained the selected database manager at each

During the policymakers training (June 2003), each part pant received a PMTCT database manual and MS Access on CD-ROM. The manual provides a brief description of on CD-ROM. The limiting privaces a brief description of the database program and an installation guide. It also includes data entry and analysis assistance. The database reflects the main +PMTCT+ Project objectives specific t each replication site.

In addition to the database, an overall PMTCT patient management system has been established for each replication site. To facilitate the creation of this system, participants at the policymakers training received the PMTCT patient-flow algorithm used in Odessa.

Togliatti Case Study⁹

In July 2003, the Central District of the City of Togliatti was nominated as a pilot site for the introduction of the ARM PMICT Project.

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ugustSeptember 2003, two OB/GYNs and two pediatricians from Togliatti City
clinic: #2 received PMTCT training at SUAEC. Upon returning to Togliatti, they
ducted PMTCT educational workshops for colleagues at their polyclinic.

	2002	2003	-April 2004
Terminated pregnancy when learning about HIV+ status	77.8%	16.7%	6%
Abandoned child	9.5%	4%	0

the Odessa Oblast. It has influenced both changes in Ukrainian PMTCT regulations and the standards of treat-Ukrainian PMTC1 regulations and the standards of treat-ment and care, thereby increasing access to PMTCT services for vulnerable women. As is the case in Ukraine, as well as throughout Eurasia, a key factor in the success of any PMTCT program is adequate training of healthcare workers something that is currently lacking in the region.

As the HIV/AIDS epidemic continues to grow in this part of As the HIV/AIDS epidemic continues to grow in this part of the world, the need not only to train providers in medical interventions and strategies, but also to integrate medical and psychosocial care increases. The Odessa +PMTCT+ Model represents an approach that has proven highly-effective at both decreasing the rate of vertical transmission and increas-ing collaboration among local stakeholders, psychosocial and healthcase against a providers and notions. healthcare service providers, and patients. As such, it repre sents a model that can be replicated in other regional settings as international, national, and local governmental and non-governmental organizations look to scale-up their response to this deadly disease.

Results on the success of this replication will be available as the program progresses over the next year. Further information about the Odessa +PMTCT+ Model, USAID, and AIHA can be found

REFERENCES



