From one targeted research study on oral manifestations of HIV/AIDS in Constanta, Romania in 1997, BIPAI now operates in 10 countries, helping children with HIV/AIDS, malaria, tuberculosis, malnutrition, sickle cell disease, cancer and hepatitis.

Our Vision
A healthy and fulfilled life for every HIV infected or affected child and his family.

Our Mission
To provide high-quality, high-impact, highly ethical pediatric and family-centered health care, health professional training and clinical research, focused on HIV/AIDS, tuberculosis, malaria, malnutrition and other conditions impacting the health and well-being of children and families worldwide.

Table of Contents
Letter from the President ........................................... 1
About Our Program .................................................. 2-3
International Programs ............................................. 4
Testing & Prevention .................................................. 5
PMTCT ....................................................................... 6
Adolescent Care ............................................................. 7-8
Satellite Services & Outreach ........................................ 9
Expansion & Task-shifting .......................................... 10-11
Education ..................................................................... 12
Research & Publications ............................................. 14
Glossary ....................................................................... 15
Board of Directors & Key Staff ..................................... 16

Letter from the President
Dear Friends,
Like pioneers of all kinds, the first children to receive antiretroviral medicines in their country experience outstanding highs and tragic lows. Luckily for those of us involved in pediatric HIV care, life-saving medicines have truly been a miracle drug, either restoring health so a child may play and go to school like his peers, or prevent her from ever experiencing the devastating effects of full blown AIDS.

We are thankful to have taken part in this quiet revolution. But now our work is changing. As the children in our care grow into teens, they struggle through the same growing pains as their peers to reach adulthood. The life-saving drugs that protected them from AIDS in childhood do not protect them from the everyday tragedies that affect teens everywhere: accidents, despair, pregnancy, dropping out of school, drug use and other risky behaviors.

Recognizing that prescriptions for pills aren’t enough, we opened the first teen clinic on the African continent dedicated exclusively to the unique needs of HIV+ teens. The Phatsimong clinic is just one example of our network’s dedication to continuing to deliver comprehensive care as children’s needs change to adolescent needs.

We deeply hope each of our children arrives at the doors of adulthood safe and whole. Regrettably, one of our child pioneers, Janie Queen, did not make it. At age 3, Janie became one of the first children in the world to test the efficacy of adult ARV formulations. A delightful and energetic girl, Janie grew into a lovely and accomplished young teen. This past fall we received news that Janie, age 20, died in a car accident. She was driving to her job to earn money for college, where she was about halfway to earning her nursing degree.

We mourn the loss of Janie and recognize her pioneering contributions to the work BIPAI accomplished in its early years. Janie paved the way for children the world over to follow her into health and a bright future.

Very best wishes,

Mark W. Kline, M.D.
President, Baylor College of Medicine International Pediatric AIDS Initiative
Physician-in-Chief, Texas Children’s Hospital
J.S. Abercrombie Professor and Chairman Department of Pediatrics,
Baylor College of Medicine

More than 4,000 teens participate in clubs in Botswana, Lesotho, Malawi, Swaziland, Tanzania and Uganda.
When BIPAI launched its first effort in Romania in 1996, it was to answer the desperate need for medical treatment for children with HIV/AIDS.

BIPAI’s success lies in a belief that parents everywhere want the best for their children and that even the poorest communities have the capacity to improve the lives of children. BIPAI offers these communities medical care and treatment, education for medical professionals and research that leads to continuing improvement and deeper understanding.

Today, BIPAI is a recognized leader in providing world-class medical care and treatment in resource limited settings around the world.

Accomplishments for 2012-2013 include:

• Marked 15 years in Romania and 10 years on the African continent
• Opened first adolescent center for HIV positive teens in Botswana
• Opened two more satellite clinics in Lesotho
• 11 teens from Swaziland were invited to attend the AIDS 2012: XIX International AIDS Conference – the only African youth to attend the conference
• Decreased mortality in women giving birth by 50%+ in a pilot program in northern Uganda
• Screened 40,000 newborns for sickle cell trait and disease in Angola over two years
• Established facilities maintenance program to keep centers and clinics in top operating condition

BIPAI at a glance
BIPAI is the largest university-based care and treatment program for HIV-infected and -affected children in the world.

- Budget: $46.7 million
- Patients in care: 175,000+
- Health professionals trained: 74,000
- Active research projects: 62
- Local employees: 720
- Centers & clinics: 15
- Offices: 3

List of centers and satellite clinics

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COE = Center of Excellence
Testing & Prevention

Preventing mother to child transmission (PMTCT) is the hallmark of all worldwide efforts to stop AIDS. However, PMTCT requires a constellation of complex services:

- Testing so that a woman knows her status
- Education that emphasizes how prevention takes place
- Family planning to prevent unwanted pregnancies and to make safe sex possible
- Specific prenatal, labor and delivery, and postpartum care that encourages adherence to drug regimens during pregnancy and appropriate medication for the baby after birth

BIPAI further stops HIV from moving into the next generation through know-your-status and testing events, public education, expert mother and community health worker programs and circumcision efforts.

In Malawi and Lesotho, HIV-positive mothers are now given ARVs for life in order to stop the virus as recommended by the World Health Organization (WHO). BIPAI-Malawi contributed to this effort by researching what worked and what didn’t and making an alternative recommendation that simplified ARV administration and adoption for these mothers. Called Plan B+, the program immediately resulted in fewer deaths of pregnant women and a rapid uptake of ARV treatment in rural settings.

BIPAI further stops HIV from moving into the next generation through know-your-status and testing events, public education, expert mother and community health worker programs and circumcision efforts.

In Swaziland, BIPAI clinicians noticed that women taking the ARV efavirenz experienced a troubling number of unwanted pregnancies when using Jadelle, an implant contraceptive popular there. A retrospective study resulted in international recommendations to help prevent unwanted pregnancies.

Trained healthcare workers offer educational sessions for young mothers, helping to encourage HIV testing and reducing stigma and misinformation.

Saving Mothers, Giving Life

Uganda reports 438 deaths out of every 100,000 live births. To reduce that number to 130 per 100,000 by 2015, BIPAI Uganda, in a public-private partnership piloted a program in three rural districts. The goal: To reduce maternal and infant mortality by 50% in 12 months.

BIPAI Uganda needed to increase access to and use of high-quality obstetric care and care for well and sick newborns in the first 24 hours after birth.

The first step in improving access required identifying pregnant women even if they did not come into a health care facility for prenatal care. Village health facilities were provided with basic obstetrical equipment and 250 workers were trained in mother-friendly childbirth techniques and to recognize childbirth emergencies sooner. A robust measurement and evaluation system was developed to accurately track improvements and opportunities for change.

Next, transportation vouchers were given to high-risk pregnant mothers so they could go to a hospital during labor and delivery.

Introduction of high-quality obstetric care helped reduce maternal mortality 22% in one year in Uganda.

Many of these mothers live a 3-hour walk to the nearest health facility with obstetrical services, so transportation was critical.

Overall, maternal mortality declined 22% across all 4 districts, even though the number of deliveries increased at health facilities from 42% to 76% in one year. Plus, 30% more mothers and babies received prophylaxis ARVs.

The pilot phase of Saving Mothers, Giving Life ended and will be refined and expanded in the coming year.

If we are doing our job of identifying pregnant women who are HIV positive, treating them and managing their infant accordingly, we should be preventing close to 100% of cases of pediatric HIV.

Dr. Mark Kline
Care & Treatment

Helping teens transition into adults

As BIPAI’s children were saved from early death and grew into adolescents, new challenges and needs became apparent. The first Teen Club was established in Botswana with 5 members, and delivered critical support to adolescents transitioning into adulthood.

BIPAI’s 10 year anniversary in Botswana dovetailed with another celebration; the opening of the Baylor- Bristol-Myers Squibb Phatsimong Adolescent Center. Phatsimong means “place to shine” in Setswana, the primary local language of Botswana. The facility is thought to be the only one of its kind on the continent.

BIPAI offers comprehensive care to children with HIV and TB at its facilities. Treating both infections at one location improves medication adherence and increases the likelihood that the TB will be cured.

The center encourages young people with HIV to pursue productive careers, start families, contribute to their communities, and realize their dreams by offering extra support in managing their chronic illness, career counseling, job skills training, family planning, education, and one-on-one and group counseling.

BIPAI’s holistic approach to helping adolescents has garnered international attention. In fact, a group of 6 teens from Swaziland attended the AIDS 2012- XIX International AIDS Conference in Washington, D.C., the only teens to be invited to that event.

Combating tuberculosis

Where there are systems weakened by HIV there is tuberculosis. To improve TB diagnosis rates, BIPAI implemented a new program in 2012 to expand screening and identification of households with TB and set up sputum induction facilities.

Village health workers and other trained individuals visit homes of those diagnosed with TB to identify and refer children who are symptomatic.

Sputum induction improves disease identification and encourages a more rapid launch of treatment. Children with TB are receiving treatment at all BIPAI Lesotho sites. Those with HIV-infection receive comprehensive care for both infections. Those without HIV infection are referred back to local clinics once they complete TB treatment.

Better diagnosis and treatment of TB supports an entire family’s health.

Former patient Teodora Narcis marries her childhood sweetheart in Constanta, Romania. After graduating from college, Narcis went to work in the same clinic where she received services as a child.
Moving services into the countryside

Once BIPAI established centers of excellence in major urban areas, the need to take care into less populated areas became apparent. Depending on each country’s terrain and population distribution, such outreach may take the form of satellite clinics run by BIPAI, home visits or flying or driving doctors out to clinics run by that country’s Ministry of Health.

BIPAI-Lesotho, which has a 23.3% HIV prevalence rate, officially opened four new satellite clinics in 2012-2013, in order to bring its services closer to people living in its difficult-to-traverse mountainous counties.

Regardless of the type of outreach, BIPAI’s mission remains the same. To bring world-class care and treatment and training for medical professionals to the people who need it most.

Lamberto Andreotti, CEO, Bristol Myers Squibb, officially opens a new satellite clinic in Mokhotlong, Lesotho, bringing HIV care to the remote countryside.

Expansion

BIPAI, Texas Children’s Center for Vaccine Development and the School of Tropical Medicine at Baylor College of Medicine have partnered to create new medical training and patient care programs in Mexico and Colombia in Latin America, Papua New Guinea in Asia and Liberia in Africa. Efforts include:

- Continued site development and program development in Papua New Guinea for a program focused on mothers and children’s health.
- Established maternal health services and pediatric training for medical professionals in Freetown, Liberia. Liberia currently has no surgical specialists, no anesthesiologists and no psychologists. BIPAI hopes to place 1 OB/GYN and 1 pediatrician to train local doctors at the new University of Liberia School of Medicine pediatrics residency program.
- Early development for vaccine research programs in Mexico City and Colombia. Research will focus on neglected tropical diseases such as Chagas’ disease and hookworm.
Education

The shortage of medical professionals who know how to treat and manage the complex health care needs is a recurring problem in the countries where BIPAI operates. To counter this issue, BIPAI devotes considerable resources to the professional development of each country’s health workforce. To date, BIPAI has trained 74,000 physicians, nurses, pharmacists, dietitians and social workers across its network countries.

BIPAI also manages the Global Health Corps, a team of 41 physicians with specialties in pediatrics, immunology, obstetrics, gynecology and tropical medicine. These doctors work as teachers and mentors, as well as healers, in countries where few subspecialists are available. The Corps help build each country’s capacity to better care for its women and children with life-saving expertise.

Parental and community education also figures prominently into BIPAI’s education efforts. Such efforts help combat poor access to public transportation in rural areas with sparsely distributed health facilities. In Tanzania, such education improves the uptake of child HIV interventions and child health in general by empowering women to be valuable sources of information in their communities.

In Angola, a BIPAI program to educate local health professionals is improving the basics of sickle cell diagnosis and care. Such education directly improves the lives of the 10,000 Angolan children born each year with sickle cell anemia.

Side-by-side mentoring and small group sessions remain a staple of BIPAI’s professional education. Such hands-on training in the high-volume setting of its centers and clinics helps build a professional’s confidence and comfort in providing HIV care, especially with difficult tasks such as disclosing status to the newly diagnosed.

Other countries and organizations seek out BIPAI for its intensive, well-rounded education for health care professionals working in pediatrics in resource limited settings.

Helping Babies Breathe

It is known that babies born to HIV-positive mothers experience higher rates of asphyxia at birth. To combat that problem, in 2011 BIPAI-Lesotho piloted the program Helping Babies Breathe developed by the American Academy of Pediatrics for resource-limited settings.

The program prepares local health professionals for neonatal resuscitation in a 2-day train-the-trainer course. BIPAI then assessed the trainees’ knowledge and skills of basic neonatal resuscitation before the course and immediately after, 3 months and 9 months after.

Trainees knowledge of and confidence in resuscitation techniques improved dramatically following the course and 3 months later. However, 77% of trainees reported difficulty in scheduling a training session back home.

Helping Babies Breathe was extended to Botswana, Malawi and Swaziland in 2012-2013. Study results from those countries will be presented at the American Academy of Pediatrics in the fall of 2013.

25% to 78% of trainees reported needing to resuscitate a neonate at least weekly at their workplace, depending on the country.
Sustainability

From the beginning, BIPAI built its programs to be sustainable for the long term.

Education plays the biggest role in program sustainability, with BIPAI expanding local medical professionals’ knowledge of pediatric medical conditions, particularly HIV/AIDS and the conditions that often accompany it, such as malnutrition, malaria, tuberculosis and more. Read more about our education programs on p. XX.

BIPAI also addresses sustainability by recruiting, training and retaining high-caliber local health professionals, finance and administrative staff, and monitoring and evaluation staff.

Creation of facilities maintenance program

In 2012-2013, BIPAI established a facilities maintenance program to keep its centers of excellence and satellite clinics operating according to original specifications. Creation of this program was found to be necessary given that BIPAI operates in countries where facilities maintenance requires acquisition of parts, and sometimes skilled labor, from other countries. By consolidating requisition and installation activities, the Houston office can buy in bulk when possible, maintain buildings in top condition and continue providing the buildings and machines that make its possible for BIPAI to perform its work.

Indigenization of local boards

When BIPAI first enters a country, it creates a local legal entity that operates according to that country’s laws and international accounting and ethical standards. Upon opening a center of excellence the board is made up of BIPAI administrators, but gradually, local medical and business professionals move into positions of board responsibility. This has happened in Lesotho, Malawi, Romania, Swaziland and Uganda.

Research

Studying what works

BIPAI’s research efforts have grown to be as rich and varied as the cultures in which it operates. From a single study on oral manifestations of children with HIV/AIDS in Constanta, Romania in 1997, BIPAI today has 62 active investigations across its network.

Research provides ongoing data to use for program management and quality improvement as well as data for reports required by funders and stakeholders. This research focuses primarily on:

- Provision of care and treatment for children and families infected or affected by HIV/AIDS
- Training of health care professionals about HIV/AIDS and the often concurrent infections of tuberculosis, malaria, malnutrition and other diseases
- Operational research in the field of HIV/AIDS
- The links between PMTCT and care and treatment
- Effects of access to early counseling, testing and treatment of children, especially in hospital settings
- Effectiveness outreach programs, satellite clinics, maternal health programs

Its findings lead to many evidence-based advances in our knowledge of how best to prevent and treat pediatric HIV/AIDS and related health conditions.
Research

Published research from 2012-2013 includes:

Network


Botswana


Lesotho


Malawi


Uganda


Glossary

AIDS Acquired immunodeficiency syndrome
ARV Antiretroviral
BIPAI Baylor College of Medicine International Pediatric AIDS Initiative
HIV Human immunodeficiency virus
PMTCT Prevention of mother-to-child transmission
TB Tuberculosis
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