

POPULATION
COUNCIL

 *Population Council*
Annual report 2003

COUNCIL

Population Council	3
Center for Biomedical Research	4
International Programs Division	5
Policy Research Division	6
Corporate Affairs Division	7
Office of the Secretary-Treasurer	7
Office of Development	7
Distinguished Colleagues	7
Board of Trustees	8
Officers	9
President's Message	10
Selected 2003 activities	13
Moving a contraceptive vaginal ring closer to market	14
Making contraceptives widely available	15
Enhancing clients' knowledge and use of contraceptives through better quality of care	16
Investigating childbirth practices in an Egyptian hospital	17
Improving breastfeeding practices among HIV-positive women in Zambia	18
Documenting a gender gap in opportunities among Pakistani youth	19
Researching the challenges posed by urban growth	20
Examining trends in the health of older adults	21
Producing a new population encyclopedia	22
Nurturing scholarship through the Middle East Research Awards	23
Publications	25
Staff and Consultants	31
Advisory and Collaborative Bodies	34
Fellows	35
Awards and Contracts	38
Financial Report	41
Population Council Offices	47

Population Council

The Population Council, an international, nonprofit, nongovernmental organization established in 1952, seeks to improve the well-being and reproductive health of current and future generations around the world and to help achieve a humane, equitable, and sustainable balance between people and resources.

Research, technical assistance, and capacity building are carried out by the Center for Biomedical Research, the International Programs Division, and the Policy Research Division.

Council headquarters and the Center for Biomedical Research are located in New York City; the Council also maintains an office in Washington, DC, and an international presence through its four regional offices and 14 additional offices.

The Council staff consists of over 560 women and men from 38 countries, half of whom hold advanced degrees. Roughly 50 percent are based outside the United States. Council staff members conduct research and programs in 70 countries.

The Population Council is governed by a board of trustees composed of men and women from nine countries. This group includes leaders in biomedicine, business, economic development, government, health, international finance, the media, philanthropy, and social science.

The organization's funds come from governments, multilateral organizations, foundations and other nongovernmental organizations, corporations, individuals, and internal sources. The Council's expenditures for 2003 were US\$73.3 million.

THE COUNCIL'S ACTIVITIES INCLUDE:

- conducting fundamental biomedical research in reproduction;
- developing contraceptives and products such as microbicides to prevent the sexual transmission of HIV;
- doing studies to improve the quality and cost-effectiveness of services related to family planning and HIV/AIDS;
- conducting research on health and behavior, family dynamics and gender, and causes and consequences of population growth;
- strengthening professional resources in developing countries through collaborative research, awards, fellowships, and training;
- publishing innovative research in multiple peer-reviewed outlets, maintaining a comprehensive Web site, and communicating research results to key audiences around the world.

CENTER FOR BIOMEDICAL RESEARCH

The Center for Biomedical Research undertakes basic research in the reproductive sciences and immunology and develops technologies that enable individuals to enhance their health and have safe, planned pregnancies. The center is one of the world's leading laboratories in the fields of contraceptive development and research in reproductive biology.

Staff members in the Product Research and Development program conduct applied research and develop new technologies for the contraceptive and other health needs of women and men. Research and development areas include microbicides, which are preparations that may protect against sexually transmitted infections including HIV and chlamydia; woman-controlled contraceptives; products for hormone therapy for women and men; and contraceptives for men. Clinical trials of drug formulations in a variety of delivery systems developed at the center are carried out by the Council's International Committee for Contraception Research, a group of clinicians who evaluate the Council's experimental products, and other investigators in developing countries.

Carraguard®, the Council's candidate microbicide, has been shown to be safe and highly acceptable to women in early clinical studies. Final preparations are underway for efficacy trials in South Africa.

The Reproductive Biology and Immunology program includes studies of the effects of reproductive hormones on gene activation, male germ cell development, cell-to-cell communication, the consequences of environmental endocrine disruptors on male reproductive function, and sperm maturation. Determination of the role of dendritic cells in the transmission and spread of immunodeficiency viruses and investigation of ways to block these processes are emerging areas of research. Results from these laboratory studies contribute to the identification of new leads for contraceptives and hormone therapies, for treatment of a variety of cancers, such as in the breast, prostate, and testis, and for prevention of sexually transmitted infections.

Through its postdoctoral training program in reproductive biomedicine, the center enlarges the community of scientists, particularly those from developing countries, whose research may lead to advances in health care and contraception.

Elof Johansson, vice president, heads the Center for Biomedical Research. Régine Sitruk-Ware is executive director of product research and development. James Catterall is director of reproductive biology and immunology. The center's staff of 82 includes 21 scientists, three senior administrators, and other professional and support staff; in addition, 14 postdoctoral fellows work at the center, which is located on the campus of the Rockefeller University.

AREAS OF RESEARCH AND TRAINING IN 2003

Contraceptive and reproductive health product development

Vaginal rings for contraceptive
and therapeutic use

Subdermal implants for
women and men

Transdermal products for
women and men

Intrauterine delivery systems

Microbicides

Probing studies in female and male
contraception

Probing studies in female and male
hormonal therapy

Reproductive biology and immunology

Genetic mechanisms of androgen
action

Physiology of Sertoli cells

Development and physiology of
Leydig cells

Testicular proteins

Germ cell dynamics

Regulation of gonadal-pituitary
interaction

Transmission of immunodeficiency
viruses

Strengthening professional resources

Biomedical fellowship program

Christopher Tietze Fellowship

INTERNATIONAL PROGRAMS DIVISION

The International Programs Division undertakes collaborative research with governments, nongovernmental organizations, universities, and scientific institutions in developing countries to improve delivery of family planning, reproductive health, and HIV/AIDS prevention and care services; to enhance understanding of the determinants of reproductive and sexual health; and to focus greater attention on gender issues and male–female partnerships. The division also provides training and technical assistance and disseminates the results of its research to inform population and health policy. Strengthening professional resources in developing countries is an objective of all of the division’s programs.

Staff members in the Horizons program carry out research on promising, cost-effective strategies for preventing the transmission of HIV/AIDS, ensuring high-quality care and support, providing treatment, and mitigating the effects of the epidemic. Frontiers in Reproductive Health staff members develop and test innovative, cost-effective solutions to reproductive health service-delivery problems. Frontiers staff members provide this research-based evidence to key policymakers and program managers and increase the capacity of institutions to implement and sustain client-centered programs.

The Reproductive Health program explores such issues as preventing sexually transmitted infections (STIs), improving childbirth and postpartum care, and reducing unsafe abortion and its consequences. The Gender, Family, and Development program examines the ways that social, economic, and cultural factors affect individuals’, especially adolescents’, productive and reproductive lives.

The division’s work is developed, implemented, and evaluated by Council staff in its New York and Washington, DC, offices, four regional offices, and 14 additional country offices in partnership with service and research organizations around the world.

Purnima Mane, vice president, headed the International Programs Division until February 2003. Peter Donaldson succeeded her as vice president in May. Anrudh Jain is senior director of policy and regional programs. The division’s staff of 362 includes 230 health and social scientists and other professionals.

AREAS OF RESEARCH AND TRAINING IN 2003

Reproductive health

- Elimination of female genital cutting
- Expanding contraceptive choice
- New approaches to postpartum care
- Quality and cost-effectiveness of reproductive health and obstetric care
- Reproductive health needs of adolescents
- Safe motherhood
- Unwanted pregnancy and the consequences of unsafe abortion

HIV/AIDS/STIs

- Acceptability of vaginal microbicides
- Adherence to antiretroviral therapy
- Cost-effective ways to prevent HIV transmission and to provide care and support to persons infected with or affected by HIV/AIDS
- Integration of HIV/AIDS/STI services with reproductive health programs
- Reduction of mother-to-child transmission of HIV/AIDS

Gender, family, and development

- Adolescent livelihood studies
- Gender-sensitive policy for adolescents
- Male–female partnerships and social support for women’s reproductive health

Strengthening professional resources

- Capacity-building and professional support in Pakistan
- Middle East Research Awards program
- Use of operations research results in developing countries
- Vietnam fellowship programs

POLICY RESEARCH DIVISION

The Policy Research Division marshals social science expertise toward a better understanding of population issues and promotes application of that knowledge to the design and implementation of policies and programs responsive to individual and societal needs. The division undertakes analyses of population policy, demographic behavior, and interrelationships between population and socioeconomic change, often in collaboration with colleagues in developing countries.

Fertility and reproductive behavior is a central focus of the division's work. Research examines global fertility trends and their causes and consequences, the determinants of family size, and the factors underlying the unmet need for contraception. Experimental research seeks to improve program design and performance for both family planning and child survival.

The division's work on the transition to adulthood documents and explores trends related to key events of adolescence, including sexual initiation, school leaving, formal employment, marriage, and first birth. Particular emphasis is given to understanding the effects of availability of schooling, work opportunities, and reproductive health services on adolescent lives.

Population policy is defined broadly as the full range of government actions with a potential population effect. In addition to analyzing policy, division staff members study critical issues related to policy formation, such as consequences of population change at the individual and societal level. Particular attention is given to the socioeconomic and health effects of urban growth. Rapid population aging is creating new challenges for societies seeking to secure the well-being of the elderly. A principal goal of the division's expanding program in this area is to identify and assess new policies and programs that ensure the sustainability of public and private support systems for the elderly.

The division administers the Population Council fellowships in the social sciences, a program that plays a significant role in strengthening developing countries' professional resources in the population field.

John Bongaarts, vice president, heads the Policy Research Division. Cynthia B. Lloyd is director of social science research. The division's staff of 22 includes demographers, economists, and sociologists with expertise in the population issues of developing countries. In addition, two social science fellows work in the New York office.

AREAS OF RESEARCH AND TRAINING IN 2003

Fertility and family planning

- Diffusion of fertility-control behavior
- Large-scale experimental programs
- Transitions in reproductive behavior
- Unintended fertility

Transitions to adulthood

- Adolescent reproductive behavior
- Schooling and livelihoods

Population and development policy

- Urban poverty and health
- Policy development
- Population aging

Strengthening professional resources

- Social science fellowships
- Ghana fellowships

CORPORATE AFFAIRS DIVISION

The Corporate Affairs Division encompasses Legal, Human Resources, Office Services, Information Technology, Public Information, and Publications. The division provides supporting services to the Council, initiates and manages its business relationships, and licenses products developed in its biomedical laboratories. The Publications and Public Information offices communicate the results of work by Council staff, consultants, and colleagues to an international community of policymakers, scientists, teachers, media professionals, and the general public through the Council's publications and its Web site. Publications include two scholarly, peer-reviewed journals, *Population and Development Review* and *Studies in Family Planning*, as well as books, newsletters, working papers, and pamphlets. Sandra Arnold, vice president, heads the division, which has a staff of 60.

OFFICE OF THE SECRETARY-TREASURER

The Office of the Secretary-Treasurer includes Finance, Accounting, and Grants and Contracts. Finance oversees the Council's budget, investments, real estate, and insurance, and Accounting maintains the Council's financial records. Grants and Contracts administers grants, agreements, and contracts and ensures that the Council is in compliance with donor regulations. James Tuite, chief financial officer and secretary-treasurer, heads a staff of 26.

OFFICE OF DEVELOPMENT

The Office of Development identifies and carries out strategies for expanded and more diversified financial support, particularly from individual donors, foundations, and corporations. Its goals are to increase unrestricted and endowment funds and to complement the successful grantsmanship of the Council's researchers. The director of development, Ruth Kalla Ungerer, works with the Council's trustees, president, other officers, and staff to achieve these goals.

DISTINGUISHED COLLEAGUES

Two Distinguished Colleagues provide an additional source of expertise in areas of relevance to the Council and represent the organization in their fields internationally.

Paul Demeny, Distinguished Scholar, serves as editor of *Population and Development Review*. He also investigates the consequences of population change and contributes to public policy debates on population issues.

Sheldon J. Segal, Distinguished Scientist, serves as chair of the Council's Institutional Review Board, which oversees protection of human subjects in research. His biomedical research focuses on fertility regulation and reproductive health.

2003 BOARD OF TRUSTEES

Rodney B. Wagner¹
Chairman of the Board
 Retired Vice Chairman
 of the Board
 J.P. Morgan & Co.
 New York, New York

Elizabeth J. McCormack¹
Vice Chairman of the Board
 Associate
 Rockefeller Associates
 New York, New York

Linda G. Martin¹
 President
 Population Council
 New York, New York

Alaka M. Basu²
 Associate Professor of
 Demography
 Director, South Asia Program
 Cornell University
 Ithaca, New York

**H.R.H. Princess
 Basma Bint Talal**
 Founder and Chairperson
 The Jordanian
 Hashemite Fund for
 Human Development
 Amman, Jordan

Nancy Birdsall
 President
 The Center for Global
 Development
 Washington, DC

Marc A. Bygdeman
 Professor Emeritus
 Obstetrics and Gynecology
 Karolinska Hospital
 Stockholm, Sweden

Lynn A. Foster³
 New York, New York

Angel Gurria²
 Former Minister of Foreign
 Affairs and former
 Secretary of the Treasury
 Mexico City, Mexico

Demissie Habte¹
 Consulting Health Specialist
 The World Bank
 Washington, DC

Ambassador Yoshio Hatano
 President
 Gakushuin Women's
 College
 Tokyo, Japan

Werner Holzer¹
 Bad Homburg, Germany

Charles D. Klein¹
 Managing Director
 American Securities, L.P.
 New York, New York

Florence W. Manguyu
 Consultant Pediatrician
 Aga Khan Hospital
 Nairobi, Kenya

Robert B. Millard²
 Managing Director
 Lehman Brothers, Inc.
 New York, New York

Samuel H. Preston
 Dean
 School of Arts and Sciences
 University of Pennsylvania
 Philadelphia, Pennsylvania

Mark A. Walker
 Partner
 Cleary, Gottlieb, Steen &
 Hamilton
 New York, New York

Torsten N. Wiesel
 President Emeritus
 The Rockefeller University
 New York, New York

¹ Executive Committee member.

² Executive Committee member
 starting December 3, 2003.

³ Board member starting
 December 3, 2003.



Top, left to right: Elizabeth J. McCormack, Charles D. Klein; Rodney B. Wagner, Torsten N. Wiesel; Linda G. Martin, Alaka M. Basu; Demissie Habte, Yoshio Hatano.

Bottom, left to right: Basma Bint Talal; Nancy Birdsall, Florence W. Manguyu; Angel Gurria, Lynn A. Foster, Marc A. Bygdeman; Werner Holzer, Robert B. Millard; Samuel H. Preston.

Not pictured: Mark A. Walker.

2003 OFFICERS



Rodney B. Wagner
Chairman of the Board



Elizabeth J. McCormack
Vice Chairman of the Board



Linda G. Martin
President



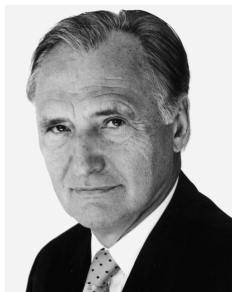
Sandra P. Arnold
Vice President
Corporate Affairs
Division



John Bongaarts
Vice President
Policy Research Division



Peter J. Donaldson¹
Vice President
International Programs
Division



Elof D.B. Johansson
Vice President
Center for
Biomedical Research



James M. Tuite
Chief Financial Officer
and Secretary-Treasurer

¹ Succeeded Purnima Mane
on May 12, 2003.

PRESIDENT'S MESSAGE

The Population Council is committed to doing first-rate research that makes a positive difference in people's lives, especially in the poorest countries around the world. But if the results of our laboratory investigations, our data analyses, and our program evaluations simply sit on library shelves, we are not achieving our mission. We have to get our findings into the hands of those with the power and resources to act on a large scale.

The essays in this report provide examples of how Population Council research, technical assistance, and capacity building are improving the well-being of men, women, and children around the world. In Pakistan, where 61 percent of the population, or 87 million people, are under the age of 25 years, the release of our results from the first-ever national survey of young people was lauded by the Minister of Finance Shaukat Aziz and other government leaders. In Egypt, lessons from our study of routine births in hospitals are being used to improve the training of physicians who will care for millions of women and their babies in the Middle East. The Council's success in developing contraceptives—taking the most promising ideas from our biomedical laboratories,

conducting clinical trials, and entering into licensing agreements for manufacture and worldwide distribution—is unparalleled.

My travels in 2003 gave me the opportunity to see firsthand the connection between our scientific endeavors and the development of policies and programs. In Ghana, Population Council chairman Rodney Wagner and I visited a remote district that is successfully replicating a child survival and family planning service model that was developed by Population Council staff in collaboration with the Navrongo Health Research Centre. This model is now being scaled up in many parts of Ghana, and we had the honor of discussing the initiative with His Excellency John A. Kufuor, President of Ghana. In Kenya, Population Council staff and I had the privilege of meeting with the Honorable Charity K. Ngilu, the Minister of Health, and the conversation turned to the possibility of expanding a successful intervention to improve maternal health that Council staff have been evaluating.

During a trip to South Africa, I visited two of the clinics at which we soon will begin the final phase of clinical testing of the Population Council's candidate microbicide, Carraguard®, a gel that we hope

will prevent the transmission of HIV and other sexually transmitted pathogens. In recent years, research on the prevention, treatment, and mitigation of HIV/AIDS has accounted for roughly a third of all activities at the Population Council. This work spans the globe—from India, where we recently tested a model of providing care and support in a resource-poor environment, to Brazil, where we are evaluating prevention services for high-risk populations who live and work on the borders of the country. We were pleased that in late 2003, a delegation from the U.S. Senate chose to visit one of our research sites there.

In the United States, the Population Council is reaching out to policymakers in Washington, especially members of the U.S. Congress, to help them better understand the nature and value of our research. Throughout 2003, I met individually with over 20 members of Congress or their senior staff from both major political parties. In October, I presented to approximately 50 House and Senate staff members an overview of the Council's findings on what works in the fight against HIV/AIDS in Africa—a topic of great interest given the magnitude of the epidemic and the new U.S. AIDS initiative.

It is not possible to list here all the other interactions that I—let alone the entire staff of the Population Council—have had with governmental and nongovernmental leaders in rich and poor countries around the world. As always, I am inspired by our staff's commitment to excellence and to making a difference. I am also very grateful for the vision and generosity of our many partners and donors who make our work possible. Their appreciation of the value of bringing the best evidence to bear in policy and program development is priceless.

Finally, I want to recognize the talented trustees and officers of the Population Council, who contribute so much to our success. All of us were delighted to have Peter Donaldson return to the Council in 2003 as vice president and director of our largest division. It was also a pleasure to welcome Robert Millard back to the board and to begin working with our newest trustees, Lynn Foster and Mark Walker. The challenges are many, but with this strong team I am confident that we will continue to achieve our mission of improving well-being around the world through our research.

Linda G. Martin

March 2004

Selected 2003 activities

Moving a contraceptive vaginal ring closer to market

Making contraceptives widely available

Enhancing clients' knowledge and use of contraceptives through better quality of care

Investigating childbirth practices in an Egyptian hospital

Improving breastfeeding practices among HIV-positive women in Zambia

Documenting a gender gap in opportunities among Pakistani youth

Researching the challenges posed by urban growth

Examining trends in the health of older adults

Producing a new population encyclopedia

Nurturing scholarship through the Middle East Research Awards

Moving a contraceptive vaginal ring closer to market

In 2003, scientists at the Population Council's Center for Biomedical Research made significant progress on a new contraceptive vaginal ring. The ring is a sustained-release drug-delivery system made of flexible silicone rubber. It inhibits ovulation by

lead to submission to the United States Food and Drug Administration and other health authorities. If formally approved, the Council's ring would be the only long-acting ring system available; Organon's contraceptive ring, NuvaRing®, which recently gained FDA approval, works for only one month.

The Council's contraceptive ring is intended to be worn for three weeks for each of 12 months and removed for a week, during which time a menstrual period is induced. It is inserted and removed by the user as in the case of a diaphragm and does not require attention before each act of sexual intercourse. Further, the ring does not produce certain side effects, such as acne, that are experienced with the androgenic progestins used in most oral contraceptives.

According to reproductive endocrinologist Régine Sitruk-Ware, the ring was well liked and accepted by women in all countries in which it was tested—Brazil, Chile, the Dominican Republic, and the United States. Women who used the ring, she reports, came back to the clinic to request it again.

Summing up the method's appeal, Sitruk-Ware says, "The system works without daily attention, which favors better compliance and hence fewer failures. Other systems such as implants, injections, and IUDs have this advantage as well, but they require greater involvement of a health provider. Once she has it, the woman controls the ring herself." ■

Women who tested the vaginal ring in Brazil, Chile, the Dominican Republic, and the United States liked and accepted the contraceptive. Large-scale safety and efficacy studies are about to begin.



continuously releasing a low dose of hormones—synthetic progestin and synthetic estrogen—into vaginal tissue and then the bloodstream. Results from initial studies indicate that the ring is as effective as oral contraceptives or intrauterine devices in preventing pregnancy.

Council scientists designed the ring to provide contraception for a full year, making it a particularly useful product for women in developing countries, whose birth planning options are often limited. Researchers manufactured a ring prototype in the mid-1990s and have been testing it for safety and efficacy in clinical trials. They now plan to proceed to a large-scale study that, if successful, could



Régine Sitruk-Ware is executive director of product research and development at the Council's Center for Biomedical Research.

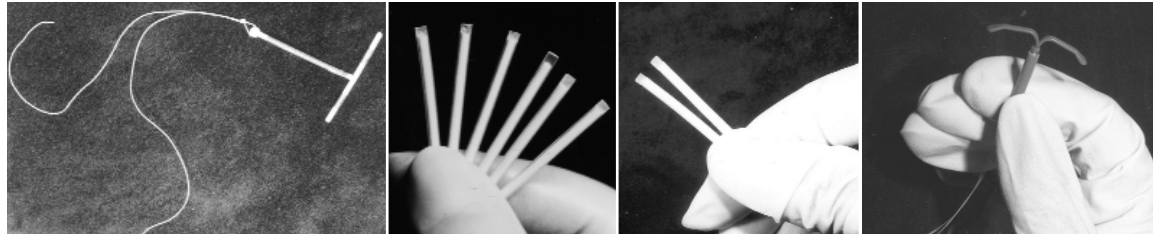
Making contraceptives widely available

For more than half a century, the Population Council has pursued the objective of giving people the means to choose whether and when to have children by

meeting their needs for contraception. One of the approaches to this goal that the Council has been uniquely successful in pursuing is developing long-acting, reversible contraceptives and making them available to people throughout the world who want and need them.

At its Center for Biomedical Research, the Council has developed three of the four long-acting, reversible contraceptives for women available today: the Copper T intrauterine device; the Norplant® subdermal implant system and its successor, Jadelle®; and Mirena®, the levonorgestrel hormone-releasing intrauterine system. More than 50 million women worldwide have relied on these products for family planning. The Council is now in the vanguard of research that may lead to new contraceptive options for men.

The Council aims to provide access to these contraceptives to all—rich and poor, in developed and developing countries. In licensing each new biomedical product to pharmaceutical companies for manufacturing and marketing, the Council always includes provisions for access to the products at reduced prices by public-sector organizations that make them available to the poor. A special public-sector price may be established,



(Left to right) Copper T intrauterine device, Norplant®, Jadelle®, Mirena®

below the market price but above cost, or a charitable foundation may be created to donate the product.

In the United States, the pharmaceutical company Wyeth established the Contraception Foundation under the terms of its agreement to market Norplant, and Berlex, Inc. created the ARCH Foundation under its Mirena contract. These foundations help make the products available to women who could not otherwise afford them.

The manufacturer and marketer of Mirena outside the United States, Schering AG, has taken a novel approach to meeting its public-sector responsibilities by creating the International Contraceptive Access (ICA) Foundation. Under Schering's agreement with the Council, the ICA Foundation will provide the product at reduced prices to public-sector agencies throughout the world, which will in turn provide them to women in the developing world. This foundation is the first established for the specific purpose of supplying products at reduced prices internationally. According to Population Council general counsel Patricia Vaughan, who helps negotiate these agreements, "It is hoped that this foundation will greatly enhance availability of this excellent method to women in the developing world." ■



Sandra Arnold is a Council vice president and director of the Corporate Affairs Division. She leads the Council's product licensing.



Patricia Vaughan is the Council's general counsel.

Enhancing clients' knowledge and use of contraceptives through better quality of care

The idea that quality of care in family planning services makes a difference was put forth in the early 1990s by Judith Bruce, now Population Council program director of gender, family, and

In Senegal, if a woman receives high-quality care, she is more likely to continue using contraception than if she does not.



development, and Anrudh Jain, now the Council's senior director of policy and regional programs. Quality is commonly measured by observing care and the nature of the interaction between providers and clients, and by interviewing clients about their experiences. In 2003, Council researchers showed that programs designed to improve quality of care can improve clients' clinic experiences and increase their knowledge. Further, new research shows that if a woman receives high-quality care, she is more likely to use contraception than if she does not.

In Latin America, researchers from the Frontiers in Reproductive Health program found that a new counseling strategy led to significant improvements in clients' interactions with clinic providers. In more than 300 family planning clinics in Peru, program staff trained counselors to ask clients about their reproductive goals, presented

choices of contraceptive methods, and provided full information on the methods women chose. In Guatemala and Peru, where the strategy was replicated, clients' knowledge of their chosen methods increased. John Townsend, director of Frontiers, explains, "Quality of care is both a right for clients and a good investment for program managers and policymakers concerned about clients' reproductive health."

In Asia, women who received good care during clinic visits were significantly more likely to use contraceptives for a longer time than those who did not. A research team in the Philippines, led by economic demographer Saumya RamaRao with investigators from Ateneo de Davao University, interviewed more than 1,700 new contraceptive users. After assessing the quality of care women received when they selected a method, researchers reinterviewed them 16 months later and found that 75 percent were still using contraception. Use of a modern method was greatest at the highest level of care.

In Senegal, a study of more than 1,000 new family planning users showed that these findings are replicable. "Clients who received good care were 1.3 times more likely to continue using contraceptives more than a year later than those who did not," notes RamaRao, who led both studies. "A well-rounded information exchange between the client and the provider that includes clear explanations of all options and risks goes a long way." ■



Saumya RamaRao is a program associate in the International Programs Division.

The USAID-funded Frontiers in Reproductive Health program applies systematic research techniques to improve delivery of family planning and reproductive health services and influence related policies. Frontiers is implemented by the Population Council with Family Health International and Tulane University.

Investigating childbirth practices in an Egyptian hospital

Every year approximately 500,000 women die from childbirth-related causes, most of them in developing countries. While Egypt's maternal mortality rate has fallen significantly over the past decade, from 174 deaths per 100,000 live births in 1992 to 84 in 2000, the primary avoidable factor contributing to these deaths remains substandard medical care. The Egyptian government has markedly improved emergency obstetric care, but until recently little was known about hospital practices for normal delivery. To address this gap, public health physician Karima Khalil led a team that documented normal labor and delivery practices in Egypt for the first time. The study took place at Cairo's El-Galaa Teaching Hospital, a prestigious obstetrics facility that trains more than 200 doctors annually.

The team observed 176 women throughout labor and delivery. Many hospital practices deviated from the standards of evidence-based medicine. For example, research shows that the drug oxytocin is required in 15 percent of labors in the United States to augment poorly progressing labor. However, inappropriate use can cause fetal distress, uterine rupture, and postpartum hemorrhage. In the Egyptian study, oxytocin was used in 91 percent of observed labors. The team found "nearly routine, inadequately monitored, and largely inappropriate" oxytocin use. Contrary to guidelines, the drug was given before labor could be assessed, in spite of good progress, or before a woman's water had broken.

Oxytocin also is appropriately administered immediately after a baby's birth and before the placenta is delivered to prevent postpartum hemorrhage (the leading cause of maternal



Population Council research at an Egyptian hospital may result in the adoption of safer labor and delivery practices for normal deliveries in Egypt and other developing countries.

death in Egypt). In the Egyptian study, the drug was used for this purpose in only 15 percent of the deliveries.

Regarding labor augmentation, providers reported that bed shortages made oxytocin use necessary. With 100 obstetrical cases daily, including emergencies, hospital staff found it difficult to monitor women experiencing normal labor. Such challenges are common in other developing countries as well.

According to Barbara L. Ibrahim, Council regional director in West Asia and North Africa, "The research team worked closely with hospital management from the outset, and the hospital is eager to institute needed improvements." In consultation with hospital staff, the research team is developing a provider training package, writing a protocol for normal labor, and exploring ways to increase bed availability. Reports Khalil, "Policymakers and medical care providers in Egypt and the region are interested in our methods and findings, which have implications for physician training in many other developing countries as well." ■



Karima Khalil
is reproductive health coordinator in West Asia and North Africa.

Improving breastfeeding practices among HIV-positive women in Zambia

Each year more than 700,000 infants worldwide are infected with HIV through transmission from their mothers during pregnancy, labor and delivery, or while breastfeeding. As much as 90 percent of the world's mother-to-child HIV transmission occurs in sub-Saharan Africa, where

Counseling helps women make better-informed decisions about infant feeding and HIV.



access to antiretroviral drugs, which can reduce the transmission of HIV from mother to child when taken surrounding childbirth, remains limited. In 2003, encouraging results from a study conducted by the Horizons program in Ndola, Zambia, suggest that even when such drugs are not available, mothers who receive counseling about infant feeding are far more likely to take steps, such as adopting safer feeding practices, to prevent their babies from contracting HIV.

In developing countries such as Zambia, infant formula—recommended in place of breastfeeding for HIV-positive mothers in wealthier countries—is often unaffordable, and local water supplies for mixing it may be unsanitary, exposing infants to life-threatening diarrheal diseases. Some women may also be reluctant to formula feed for fear of indicating to their neighbors and others that they

are HIV-positive. Research has shown that the widespread practice of “mixed feeding”—combining formula or other foods and breast milk—can result in an even higher rate of HIV transmission than breastfeeding alone.

Thus, infant-feeding guidelines developed by health managers in Ndola recommend exclusive breastfeeding for the first six months, even for mothers who are HIV-positive. In the study, six health clinics added voluntary HIV testing and infant-feeding counseling to their services. Counselors advised HIV-negative women to breastfeed exclusively for six months and to continue breastfeeding while introducing other foods until their babies reach age two. HIV-positive mothers were taught about the risks of formula feeding and those of mixed feeding. They, too, were advised to breastfeed exclusively for six months, then stop and switch to local infant foods to reduce their children's risk of exposure to HIV.

Researchers used surveys to assess feeding practices before and after counseling. The proportion of mothers who reported breastfeeding exclusively rose from 57 percent to 79 percent, with fewer mothers reporting mixed feeding.

“The research shows that infant-feeding counseling is a crucial part of preventing mother-to-child transmission,” affirms public health specialist Naomi Rutenberg, a lead author of the study. ■



Naomi Rutenberg is research director of the Horizons program.

The USAID-funded Horizons program of operations research is implemented by the Population Council in collaboration with the International Center for Research on Women, the International HIV/AIDS Alliance, the Program for Appropriate Technology in Health, Tulane University, Family Health International, and the Johns Hopkins University.

Documenting a gender gap in opportunities among Pakistani youth

Major differences in school, work, and recreation opportunities between young men and women in Pakistan were detailed in a Population Council survey released in 2003. These findings resulted from an unprecedented national survey of adolescents that was conducted with the assistance of the Pakistan Federal Bureau of Statistics. Researchers surveyed some 8,000 young people ages 15 to 24—an age group that accounts for 20 percent of the population, or more than 27 million.

Young people in Pakistan spend their time very differently depending on gender. Males are much freer to leave the home unaccompanied on a daily basis, and most eventually enter the paid labor force. By comparison, less than 40 percent of young women are doing paid work by age 24. Females are most likely to work at home on domestic chores. And while their work at home is largely hidden and unpaid, “at every age between 15 and 24 women work more hours than men,” notes Zeba A. Sathar, Population Council country director in Pakistan. Furthermore, the vast majority of young girls say they would do paid work if opportunities were available.

Parents in Pakistan prefer to send their children to single-sex schools. However, the number available to females at each level falls far short of the number of schools accessible to males, particularly in rural areas. Fewer than half of all girls and young women in Pakistan have ever enrolled in school, and those who



A Population Council field researcher discusses roles and status of youth in Pakistan with a young farmer.

attend are likely to drop out earlier than boys. “The gender gap remains huge,” reports social scientist Minhaj ul Haque, one of the survey’s principal investigators. Cynthia B. Lloyd, the Council’s director of social science research, explains that while most young people aspire to higher education, “attainment levels are much lower. Poverty, lack of access, and poor school quality are all to blame.”

In response to insights gleaned from the investigation, the Population Council plans to continue in-depth research into opportunities for primary schooling in the country’s rural communities. According to Finance Minister Shaukat Aziz, the study’s findings will inform Pakistan’s national youth policy. “Economic growth and prosperity are not automatic,” he says. “They will depend on whether Pakistan succeeds in providing better education, minimizing the gender gap, and creating job opportunities.” ■

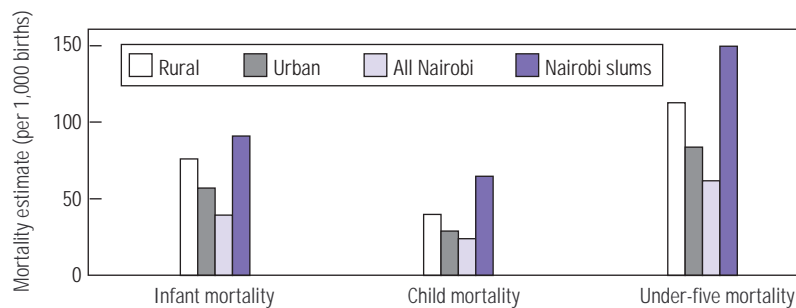


Minhaj ul Haque is a deputy program manager in Islamabad.

Researching the challenges posed by urban growth

For decades, demographers have thought of developing countries as mostly rural, but in the next 30 years that picture will change. The world's population is projected to increase by 2.2 billion by 2035, and almost all of the growth will occur in the cities of Africa, Asia, and Latin America.

Levels of infant and child mortality in Nairobi slums as compared with other parts of Kenya



The urban poor face health risks comparable to or greater than risks in rural villages. In the urban slums of Nairobi, infant and child mortality rates are more than twice the rate for Nairobi as a whole.

Source: National Research Council et al. 2003. *Cities Transformed: Demographic Change and Its Implications in the Developing World*. Washington, DC: National Academies Press.

Demographers know little about how particular urban settings affect people's marriages, fertility, health, and schooling. What data there are come mostly from large cities, and few studies have examined the differences within and among large urban areas or have focused on smaller cities. To narrow that research gap and to help governments manage urbanization, the U.S. National Research Council formed the Panel on Urban Population Dynamics, chaired by Population Council economist Mark R. Montgomery and Richard Stren of the University of Toronto. The panel's report, *Cities Transformed: Demographic Change and Its Implications in the Developing World*,



Mark Montgomery is a senior associate in the Policy Research Division.

was published by the National Academies Press in 2003.

Among the panel's findings:

- Nearly half the world's urban population lives in the smaller cities of developing countries (cities of one million people or fewer). The bulk of future population growth will take place in such cities.
- The expansion of squatter settlements and shantytowns hinders the provision of basic infrastructure and amenities, especially when growth occurs on the peripheries of cities, where government responsibilities are ill-defined.
- As a group, people living in smaller cities have less access to health-related public services—running water, flush toilets, and electricity—than people in large cities. Studying small cities is a critical precursor to improving these conditions.
- Research is needed on measuring poverty, identifying vulnerable groups, and creating links to assistance.

"The urban advantage in health is not a myth—but it is only a partial truth," explains Montgomery. Comparing the health of urban and rural residents, the panel found that urban dwellers do not always enjoy an advantage. In fact, city residents who are poor can face health risks comparable to risks in rural villages, and for slum dwellers risks can be even greater.

As national governments decentralize, city officials are being asked to meet increasing demands for services, yet few are equipped to do so. If demographers are to help them, they must learn much more about cities and the needs of the people who live in them. ■

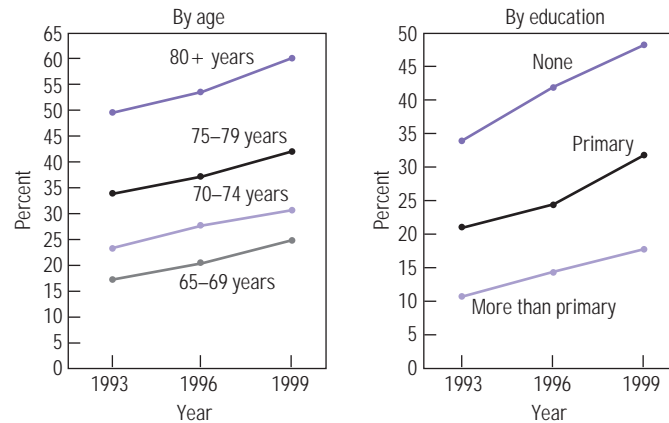
Examining trends in the health of older adults

Population aging—the increase in the proportion of a population that is older—is occurring in rich and poor countries alike as fertility and mortality rates fall. A major question surrounding the increase in survival to older ages is whether the extra years of life are spent in good or bad health. The answer has important implications for policies that might encourage people to work longer and for programs to support older people who cannot care for themselves.

Two recent studies examined this issue. Population Council president Linda G. Martin, Vicki A. Freedman of the Polisher Research Institute, and Robert F. Schoeni of the University of Michigan published a review of the evidence on older Americans in the *Journal of the American Medical Association*. In a *Population Studies* article, Council sociologist Zachary Zimmer, Martin, and the former director-general of Taiwan’s Bureau of Health Promotion, Ming-Cheng Chang, investigated the question for Taiwan, whose population is aging even more rapidly than those of Western countries.

The researchers found that over the last two decades older Americans’ functioning has generally improved, but older Taiwanese have not fared as well. In the United States, “the greatest improvements occurred in the ability to carry out such routine activities as household chores and shopping, while there was little change for such personal care activities as bathing,” notes Martin. Overall, the proportion of the population aged 70 and older in the United States who needed help with any activity declined between 1982 and 1996 from about 23 percent to 19 percent.

Percent of older adults in Taiwan with at least one functional limitation, by age and education



In Taiwan, there has been an increase in the proportion of older adults with difficulty either walking 200–300 meters or climbing stairs. The youngest and best-educated older adults tend to have the fewest limitations.

The Taiwan study looked at the ability of people 65 and older to walk 200 to 300 meters and climb stairs. Between 1993 and 1999, the proportion who had difficulty with these activities grew—from 26 to 36 percent. The researchers were not able to explain this change, but speculated that one factor may have been the 1995 introduction of universal health insurance, which increased access to care and may have especially benefited those in poorest health. “Previously people with severe limitations may have been more likely to die,” Zimmer explains.

In both populations, tomorrow’s elderly generally will have received more education and experienced greater prosperity throughout their lives than today’s elderly. So while the recent decline in functioning among Taiwan’s elderly is not positive, Zimmer notes, “Young people in Taiwan are likely to enter their senior years much healthier than did their elders.” ■



Zachary Zimmer is a research associate in the Policy Research Division.

Producing a new population encyclopedia

The newly published *Encyclopedia of Population*, edited by two longtime associates of the Population Council, provides a

POPULATION In modern usage the word population means “the total number of persons inhabiting a country, town, or other area,” or “the body of inhabitants” (*Oxford English Dictionary* [1933]). The two meanings seem much the same and are often conflated, but conceptually they are distinct—the first, the number of persons, is the demographer’s stock in trade; the second, the body of inhabitants, is the stuff of social science generally. . . . The word’s first recorded use in a modern sense, according to demographer Adolphe Landry, is in an essay by the philosopher Francis Bacon from 1597. . . . Well before Bacon there was of course a need to talk about numbers of inhabitants in a particular territory. In English, for example, the word “souls” in the sense of enumerated individuals was used from the fourteenth century or even earlier. But for most purposes the egalitarianism implied by weighting individuals equally would have been seen as distorting reality. . . . Nobles and commoners, or citizens and noncitizens, could not be simply added together. Women and children might count for little; slaves for nothing. . . .

—Excerpted from *Encyclopedia of Population*



Paul Demeny
is the Council’s
Distinguished Scholar.



Geoffrey McNicoll
is a senior associate in the
Policy Research Division.

contemporary appraisal of the population sciences. The only other encyclopedia of population was published more than 20 years ago, at a time when the field looked very different. “In the 1980s, population issues seemed to many people to connote little more than rapid population growth and measures to curtail it,” write the editors, Paul Demeny and Geoffrey McNicoll, in their preface. “Today, population growth is one concern among many.” Demeny is founder and editor of the Council’s journal *Population and Development Review*. Both he and McNicoll have written extensively on population and development issues.

The *Encyclopedia of Population* is directed to professionals in the population sciences as well as to other social scientists, college students, and educated lay readers. The editors sought to produce articles that are informative yet jargon-free. The two-volume set includes more than 300 entries written by experts from a wide range of disciplines. A sampling of topics gives a sense of the encyclopedia’s scope: population aging, AIDS, animal ecology, emerging infectious diseases, environmental ethics, forced migration, human extinction, and population in literature. “If this encyclopedia has an ambition beyond the utilitarian, it is to push out the boundaries of the subject,” the editors write. The basics of demography are of course covered as well.

The editors believe that a reference work on population must tackle controversial subjects. Entries explore the ethical concerns raised by genetic testing, new reproductive technologies, and euthanasia, for example. “Not a few topics in population studies are contentious, either in terms of research findings or, more basically, in terms of their political and ethical premises or implications,” state the editors. “Unsurprisingly, the various authors may often take differing positions. We have sought to ensure an overall balance among the articles.” The encyclopedia is published by Macmillan Reference USA; an electronic version will be available through Gale eBooks and netLibrary. ■

Nurturing scholarship through the Middle East Research Awards

Marking its 25th year in 2003, the Middle East Research Awards Program in Population and the Social Sciences (MEAwards) helps scholars conduct important research on population issues in Middle Eastern countries. It is one of several Population Council programs designed to advance scholarship in the biomedical, public health, and social sciences. According to Barbara L. Ibrahim, director of the Council's West Asia and North Africa regional office, which administers the program, "MEAwards has thrived because it provides two things that are rare in the region: peer support for emerging scholars of excellence and funds to pursue topics that are locally defined."

Abdel Ghaffar Ahmed, MEAwards program director, says it fills a void: "Lack of opportunities and lack of access to the necessary resources to undertake research in this region make the program extremely important." Over the years, Ahmed notes, MEAwards has advanced scholarship on critical regional issues such as population displacement, rural transformation, and the social context of poverty, and has supported 311 researchers with 215 awards.

Grants are made to carry out projects that meet the program's high standards, and freedom to address sensitive topics and critical ideas is guaranteed by the program. Hoda Rashad, who now heads the Social Research Center at the American University in Cairo, recalls that MEAwards allowed her to do innovative work that she might not have



The Poverty Working Group, one of four long-term research working groups coordinated by the Council's MEAwards program, held a workshop in Rabat, Morocco, on May 14–16, 2003.

been able to carry out otherwise: studying the under-registration of mortality statistics in Egypt. Furthermore, Rashad notes, "MEAwards fostered interaction and networking among researchers. We were able to draw on and benefit from one another's experiences."

The program has made training scholars in research methods a priority. To promote a sense of academic community that facilitates collaboration, some recent awards have included Internet subscriptions—e-mail is still a luxury in some locations.

The goal of the MEAwards program is to cultivate creative thinkers and leaders who are engaged in solving the challenges of their societies, and by this measure the program has been highly successful. Several award recipients have become influential policymakers and academicians. For example, the sociologist Aisha Belarbi served as minister of state for foreign affairs in Morocco, economist Bassam Saket was appointed minister of transport and communications in Jordan, and Rahma Bourqia, an anthropologist, recently became the first woman to serve as president of a university in Morocco, at Mohammadia University near Rabat. ■



Abdel Ghaffar Ahmed is MEAwards program director in West Asia and North Africa.

PUBLICATIONS

The Population Council is committed to communicating the results of its work and that of others in the field to those concerned with population and health issues, including the public at large. To this end, it publishes and disseminates a wide range of materials to varied audiences. The Council provides publications at no cost to professionals in developing countries who have limited funds or who face considerable currency exchange barriers.

The Council publishes two scholarly, peer-reviewed journals, *Population and Development Review* and *Studies in Family Planning*, both of which have a dedicated readership worldwide. Supplements to the *Review*, each examining a major subject of policy relevance in depth, are issued every other year. Paul Demeny is editor of *Population and Development Review*; Ethel Churchill is managing editor. Julie Reich is managing editor of *Studies in Family Planning*. Views expressed in the journals are those of the authors and do not necessarily reflect those of the Population Council or its sponsors.

The Council also publishes *Population Briefs*, a newsletter that highlights findings from its own research in the biomedical, social science, and public health fields. Books, statistical compendiums, conference proceedings, newsletters, working papers, and pamphlets are among the other publications issued by the Council. Staff members also publish their work in a wide range of external outlets, including peer-reviewed journals.

The Council's Web site—www.popcouncil.org—contains selected publications in HTML and PDF formats and lists hundreds of publications and articles by staff members.

The first part of this section is organized by research area and lists 2003 publications by staff and consultants. Authors whose names appear in boldface are Council staff members. The second part of this section lists the articles published in 2003 in *Population and Development Review*, in a supplement to the journal, and in *Studies in Family Planning*.

Biomedical Research

Akingbemi, Benson T., Renshan Ge, Cheryl S. Rosenfeld, Leslie G. Newton, Dianne O. Hardy, James F. Catterall, Dennis B. Lubahn, Kenneth S. Korach, and Matthew P. Hardy. "Estrogen receptor- α gene deficiency enhances androgen biosynthesis in the mouse Leydig cell," *Endocrinology* 144(1): 84–93.

Anderson, Richard A., A. Michael Wallace, Naveed Sattar, **Narender Kumar, and Kalyan Sundaram.** "Evidence for tissue selectivity of the synthetic androgen 7 α -methyl-19-nortestosterone in hypogonadal men," *Journal of Clinical Endocrinology and Metabolism* 88(6): 2784–2793.

Bernard, Daniel J. "Inhibin receptor signaling," in Helen L. Henry and Anthony W. Norman (eds.), *Encyclopedia of Hormones*, vol. 2. New York: Academic Press, pp. 297–303.

———. "SMAD expression in the testis predicts age- and cell-specific responses to activin and TGF β ," *Journal of Andrology* 24(2): 201–203.

Bernard, Daniel J., Kathleen H. Burns, Bisong Haupt, Martin M. Matzuk, and Teresa K. Woodruff. "Normal reproductive function in InhBP/p120-deficient mice," *Molecular and Cellular Biology* 23(14): 4882–4891.

Chen, Yong-Mei, Nikki P.Y. Lee, Dolores D. Mruk, William M. Lee, and C. Yan Cheng. "Fer kinase/FerT and adherens junction dynamics in the testis: An *in vitro* and *in vivo* study," *Biology of Reproduction* 69(2): 656–672.

Gao, Hui-Bao, Ming-Han Tong, Yan-Qin Hu, Hai-Yan You, Qiang-Su Guo, **Renshan Ge, and Matthew P. Hardy.** "Mechanisms of glucocorticoid-induced Leydig cell apoptosis," *Molecular and Cellular Endocrinology* 199(1–2): 153–163.

Hamada, Anna L., Takeshi Maruo, Takashi Samoto, Shigeki Yoshida, Harold A. Nash, **Irving M. Spitz, and Elof Johansson.** "Estradiol/progesterone-releasing vaginal rings for hormone replacement therapy in postmenopausal women," *Gynecological Endocrinology* 17(3): 247–254.

Heikinheimo, Oskari, Raimo Kekkonen, and **Pekka Lähteenmäki.** "The pharmacokinetics of mifepristone in humans reveal insights into differential mechanisms of antiprogesterin action," *Contraception* 68(6): 421–426.

Laoag-Fernandez, Jovelle B., Takeshi Maruo, Paivi Pakarinen, **Irving M. Spitz, and Elof Johansson.** "Effects of levonorgestrel-releasing intra-uterine system on the expression of vascular endothelial growth factor and adrenomedullin in the endometrium in adenomyosis," *Human Reproduction* 18(4): 694–699.

Lau, Ann S.N. and Dolores D. Mruk. "Rab8B GTPase and junction dynamics in the testis," *Endocrinology* 144(4): 1549–1563.

Lee, Nikki P.Y. and C. Yan Cheng. "Regulation of Sertoli cell tight junction dynamics in the rat testis via the nitric oxide synthase/soluble guanylate cyclase/3',5'-cyclic guanosine monophosphate/protein kinase G signaling pathway: An *in vitro* study," *Endocrinology* 144(7): 3114–3129.

Lee, Nikki P.Y., Dolores D. Mruk, William M. Lee, and C. Yan Cheng. "Is the cadherin/catenin complex a functional unit of cell–cell actin-based adherens junctions in the rat testis?" *Biology of Reproduction* 68(2): 489–508.

Lui, Wing-Yee, William M. Lee, and C. Yan Cheng. "Rho GTPases and spermatogenesis," *Biochimica et Biophysica Acta* 1593(2–3): 121–129.

———. "Sertoli–germ cell adherens junction dynamics in the testis are regulated by RhoB GTPase via the ROCK/LIMK signaling pathway," *Biology of Reproduction* 68(6): 2189–2206.

———. "TGF- β s: Their role in testicular function and Sertoli cell tight junction dynamics," *International Journal of Andrology* 26(3): 147–160.

———. "Transforming growth factor β 3 regulates the dynamics of Sertoli cell tight junctions via the p38 mitogen-activated protein kinase pathway," *Biology of Reproduction* 68(5): 1597–1612.

Lui, Wing-Yee, Dolores D. Mruk, William M. Lee, and C. Yan Cheng. "Adherens junction dynamics in the testis and spermatogenesis," *Journal of Andrology* 24(1): 1–14.

———. "Sertoli cell tight junction dynamics: Their regulation during spermatogenesis," *Biology of Reproduction* 68(4): 1087–1097.

Lui, Wing-Yee, Daria C.H. Wong, Dolores D. Mruk, and C. Yan Cheng. "TGF- β 3 regulates the blood–testis barrier dynamics via the p38 mitogen activated protein (MAP) kinase pathway: An *in vivo* study," *Endocrinology* 144(4): 1139–1142.

Morris, David J., Andrew S. Brem, **Renshan Ge**, P. Harry Jellinck, Randall R. Sakai, and **Matthew P. Hardy**. "The functional roles of 11 β -HSD1: Vascular tissue, testis and brain." *Molecular and Cellular Endocrinology* 203(1–2): 1–12.

Mruk, Dolores D., Michelle K.Y. Siu, Anne M. Conway, Nikki P.Y. Lee, Ann S.N. Lau, and C. Yan Cheng. "Role of tissue inhibitor of metalloproteinases-1 in junction dynamics in the testis." *Journal of Andrology* 24(4): 510–523.

Rothschild, Gerson, **Chantal M. Sottas**, Holger Kissel, Valter Agosti, Katia Manova, **Matthew P. Hardy**, and Peter Besmer. "A role for kit receptor signaling in Leydig cell steroidogenesis." *Biology of Reproduction* 69(3): 925–932.

Saleh, Saleh I., Sayed H. Khidr, Sayed M. Ahmed, Theodore M. Jackanicz, and Harold A. Nash. "Estradiol–progesterone interaction during the preparation of vaginal rings." *Journal of Pharmaceutical Sciences* 92(2): 258–265.

Segal, Sheldon J. "Contraception, modern methods of," in **Paul Demeny and Geoffrey McNicoll** (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 170–174.

Sitruk-Ware, Régine. "Alternatives for optimal hormone replacement therapy." *Climacteric* 6(suppl 2): 11–16.

———. "Hormone therapy and the cardiovascular system: The critical role of progestins." *Climacteric* 6(suppl 3): 21–28.

———. "Progestins in hormonal replacement therapy (HRT): New molecules, risks and benefits." *Annales d'Endocrinologie* 64(2): 178.

———. "Progestins in hormonal therapy (HT) today, tomorrow and the next day: A roundtable discussion." *Steroids* 68(10–13): 973–979.

Sitruk-Ware, Régine, Margaret Small, Narender Kumar, Yun-yen Tsong, Kalyan Sundaram, and Theodore Jackanicz. "Nestorone®: Clinical applications for contraception and HRT." *Steroids* 68(10–13): 907–913.

Sitruk-Ware, Régine and Irving M. Spitz. "Pharmacological properties of mifepristone: Toxicology and safety in animal and human studies." *Contraception* 68(6): 409–420.

Siu, Michelle K.Y., William M. Lee, and C. Yan Cheng. "The interplay of collagen IV, tumor necrosis factor- α , gelatinase B (matrix metalloproteinase-9), and tissue inhibitor of metalloproteinases-1 in the basal lamina regulates Sertoli cell–tight junction dynamics in the rat testis." *Endocrinology* 144(1): 371–387.

Siu, Michelle K.Y., Dolores D. Mruk, William M. Lee, and C. Yan Cheng. "Adhering junction dynamics in the testis are regulated by an interplay of β 1-integrin and focal adhesion complex-associated proteins." *Endocrinology* 144(5): 2141–2163.

von Eckardstein, Sigrid, Gabriela Noe, Vivian Brache, Eberhard Nieschlag, Horacio Croxatto, Francisco Alvarez, Alfred J. Moo-Young, **Irving Sivin, Narender Kumar, Margaret Small, and Kalyan Sundaram**, Population Council International Committee for Contraception Research. "A clinical trial of 7- α -methyl-19-nortestosterone implants for possible use as a long-acting contraceptive for men." *Journal of Clinical Endocrinology and Metabolism* 88(11): 5232–5239.

Walch, Laurence, Emanuela Clavarino, and Patricia L. Morris. "Prostaglandin (PG) FP and EP₁ receptors mediate PGF_{2 α} and PGE₂ regulation of interleukin-1 β expression in Leydig cell progenitors." *Endocrinology* 144(4): 1284–1291.

Wang, Gui-Min, Peter J. O'Shaughnessy, Curtis Chubb, Bernard Robaire, and **Matthew P. Hardy**. "Effects of insulin-like growth factor I on steroidogenic enzyme expression levels in mouse Leydig cells." *Endocrinology* 144(11): 5058–5064.

Ylänen, Kajja, Timo Laatikainen, **Pekka Lähteenmäki**, and Alfred J. Moo-Young. "Subdermal progestin implant (Nestorone®) in the treatment of endometriosis: Clinical response to various doses." *Acta Obstetrica et Gynecologica Scandinavica* 82(2): 167–172.

Building Research Capability

Health, Development, Information and Policy Institute. "Creation of a unified management information system for three NGOs in the West Bank and Gaza." *Frontiers Final Report*. Washington, DC: Population Council.

Hewett, Paul C., Annabel S. Erulkar, and Barbara S. Mensch. "The feasibility of computer-assisted survey interviewing in Africa: Experience from two rural districts in Kenya." *Policy Research Division Working Paper* no. 168. New York: Population Council.

Phillips, James F. "Demographic surveillance systems," in **Paul Demeny and Geoffrey McNicoll** (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 204–206.

World Health Organization and Frontiers Program. "Expanding capacity for operations research in reproductive health: Summary report of a consultative meeting." Geneva: World Health Organization.

Gender and Family Dynamics

Amin, Sajeda and Nagah H. Al-Bassusi. "Wage work and marriage: Perspectives of Egyptian working women." *Policy Research Division Working Paper* no. 171. New York: Population Council.

Boonmongkon, Pimpawum, **Philip Guest**, Amporn Marddint, and Steve Sanders. "From trafficking to sex worker: Burmese migrants in Thailand." in Muhadjir Darwin, Anna Marie Wattie, and Susi Eja Yuarsi (eds.), *Living on the Edges: Cross-Border Mobility and Sexual Exploitation in the Greater Southeast Asia Sub-Region*. Yogyakarta: University of Gadjah Mada, pp. 163–232.

Hallman, Kelly, Agnes R. Quisumbing, Marie T. Ruel, and Bénédicte de la Brière. "Childcare and work: Joint decisions among women in poor neighborhoods of Guatemala City." *Food Consumption and Nutrition Division Discussion Paper* no. 151. Washington, DC: International Food Policy Research Institute.

Kadir, Muhammad Masood, **Fariyal F. Fikree, Amanullah Khan, and Fatima Sajan**. "Do mothers-in-law matter? Family dynamics and fertility decision-making in urban squatter settlements of Karachi, Pakistan." *Journal of Biosocial Science* 35(4): 545–558.

Langer, Ana and Blanca Rico. "An integral initiative to respond to complex needs," in Paz López, Blanca Rico, **Ana Langer**, and Guadalupe Espinosa (eds.), *Género y Política en Salud* [Gender and health policy]. Mexico City: UNIFEM, Salud.

López, Paz, Blanca Rico, **Ana Langer**, and Guadalupe Espinosa (eds.). *Género y Política en Salud* [Gender and health policy]. Mexico City: UNIFEM, Salud.

Mensch, Barbara S., Barbara L. Ibrahim, Susan Lee, and Oaima El-Gibaly. "Gender role attitudes among Egyptian adolescents." *Studies in Family Planning* 34(1): 8–18.

Quisumbing, Agnes R., **Kelly Hallman**, and Marie T. Ruel. "Maquilladoras and market mamas: Women's work and childcare in Guatemala City and Accra." *Food Consumption and Nutrition Division Discussion Paper* no. 153. Washington, DC: International Food Policy Research Institute.

Verma, Ravi K. and Martine Collumbien. "Wife beating and the link with poor sexual health and risk behavior among men in urban slums in India." *Journal of Comparative Family Studies* 34(1): 61–74.

HIV/AIDS

Askew, Ian and Marge Berer. "The contribution of sexual and reproductive health services to the fight against HIV/AIDS: A review." *Reproductive Health Matters* 11(22): 51–73.

Braunstein, Sarah and Janneke van de Wijgert. "Cultural norms and behavior regarding vaginal lubrication during sex: Implications for the acceptability of vaginal microbicides for the prevention of HIV/STIs." *Robert H. Ebert Program on Critical Issues in Reproductive Health Publication Series*. New York: Population Council.

Castle, Chris. "YRG CARE base model report: Integrated prevention, care, and support services." *Horizons Project Report*. Washington, DC: Population Council.

Dadian, Margaret (ed.). *Horizons Report: PMTCT: From Research to Practice*. Washington, DC: Population Council.

———. *Horizons Report: Workplace Studies in Africa and Asia*. Washington, DC: Population Council.

Frank, Ines, John J. Santos, Erin Mehlhop, Loreley Villamide-Herrera, Christine Santisteban, Agegnehu Gettie, Ralf Ignatius, Jeffrey D. Lifson, and Melissa J. Pope. "Presentation of exogenous whole inactivated simian immunodeficiency virus by mature dendritic cells induces CD4+ and CD8+ T-cell responses." *Journal of Acquired Immune Deficiency Syndromes* 34(1): 7–19.

Hope Humana, LINKAGES, National Food and Nutrition Commission, Ndola District Health Management Team, Horizons Program, and Zambia Integrated Health Project. "Empowering communities to respond to HIV/AIDS: Ndola Demonstration Project on Maternal and Child Health: Operations research final report." *Horizons Project Report*. Washington, DC: Population Council.

Jones, Heidi, Janneke van de Wijgert, and Elizabeth Kelvin. "The need for a 'condoms-only' control group in microbicide trials." *Epidemiology* 14(4): 505.

Ketas, Thomas J., **Ines Frank**, Per Johan Klasse, Brian M. Sullivan, Jason P. Gardener, Catherine Spenlehauer, Mirjana Nesin, William C. Olson, John P. Moore, and **Melissa J. Pope**. "Human immunodeficiency virus type 1 attachment, coreceptor, and fusion inhibitors are active against both direct and trans infection of primary cells." *Journal of Virology* 77(4): 2762–2767.

- Ketas, Thomas J., Per Johan Klasse, Catherine Spenlehauer, Mirjana Nesin, **Ines Frank, Melissa J. Pope**, Julie M. Strizki, Gregory R. Reyes, Bahige M. Baroudy, and John P. Moore. "Entry inhibitors SCH-C, RANTES, and T-20 block HIV type 1 replication in multiple cell types," *AIDS Research and Human Retroviruses* 19(3): 177–186.
- Maman, Suzanne, Jessie K. Mbwambo, Nora M. Hogan, **Ellen Weiss**, Gad P. Kilonzo, and Michael D. Sweat. "High rates and positive outcomes of HIV-serostatus disclosure to sexual partners: Reasons for cautious optimism from a voluntary counseling and testing clinic in Dar es Salaam, Tanzania," *AIDS and Behavior* 7(4): 373–382.
- Ndhlovu, Lewis, Catherine Searle, Robert Miller, Andrew Fisher, Ester Snyman, and Nancy Sloan.** "Reproductive health services in KwaZulu Natal, South Africa: A situation analysis study focusing on HIV/AIDS services," *Horizons Project Report*. Washington, DC: Population Council.
- Pope, Melissa J.** "Dendritic cells as a conduit to improve HIV vaccines," *Current Molecular Medicine* 3(3): 229–242.
- . "Nefarious abuse," *Nature Immunology* 4(8): 729–730.
- Pope, Melissa J.** and Ashley T. Haase. "Transmission, acute HIV-1 infection and the quest for strategies to prevent infection," *Nature Medicine* 9(7): 847–852.
- Pulerwitz, Julie, Johannes van Dam, and Natalie Phillips-Hamblitt.** "The ABCs and beyond: Developing an operations research agenda on comprehensive behavior change approaches for HIV/AIDS prevention: Report from a technical meeting," *Horizons Project Report*. Washington, DC: Population Council.
- Rutenberg, Naomi, Carolyn Baek, Sam Kalibala, and James Rosen.** "Evaluation of United Nations–supported pilot projects for the prevention of mother-to-child transmission of HIV: Overview of findings," *HIV/AIDS Working Paper*. New York: United Nations Children's Fund.
- Rutenberg, Naomi, Sam Kalibala, Carolyn Baek, and James Rosen.** "Programme recommendations for the prevention of mother-to-child transmission of HIV: A practical guide for managers," *HIV/AIDS Working Paper*. New York: United Nations Children's Fund.
- Steinman, Ralph M., Angela Granelli-Piperno, **Melissa J. Pope**, Christine Trumpfheller, Ralf Ignatius, Géraldine Arrode, Paul Racz, and Klara Tenner-Racz. "The interaction of immunodeficiency viruses with dendritic cells," in Alexander Steinkasserer (ed.), *Dendritic Cells and Virus Infection*, vol. 276. New York: Springer-Verlag, pp. 1–30.
- Teleshova, Natalia, Ines Frank, and Melissa J. Pope.** "Immunodeficiency virus exploitation of dendritic cells in the early steps of infection," *Journal of Leukocyte Biology* 74(5): 683–690.
- Veazey, Ronald S., Per Johan Klasse, Robin J. Shattock, **Melissa J. Pope**, J. Christian Kirijan, **Jennifer Jones**, Qinxue Hu, Thomas J. Ketas, Preston A. Marx, Per Johan Klasse, Dennis R. Burton, and John P. Moore. "Prevention of virus transmission to macaque monkeys by a vaginally applied monoclonal antibody to HIV-1 gp120," *Nature Medicine* 9(3): 343–346.
- Vu Ngoc Bao, **Philip Guest, Julie Pulerwitz**, Le Thuy Lan Thao, Duong Xuan Dinh, Tran Thi Kim Xuyen, and **Ann Levin.** "Expanding workplace HIV/AIDS prevention activities for a highly mobile population: Construction workers in Ho Chi Minh City," *Horizons Project Report*. Washington, DC: Population Council.
- YRG CARE, Horizons, and International HIV/AIDS Alliance. "Expanding care and support in South India: Scaling up YRG CARE's patient-centered approach," *Horizons Project Report*. Washington, DC: Population Council.
- ### Population and Social Science Research
- Agyei-Mensah, Samuel and **John B. Casterline** (eds.). *Reproduction and Social Context in Sub-Saharan Africa: A Collection of Micro-Demographic Studies*. Westport, CT: Greenwood Press.
- . "Reproduction and social context in sub-Saharan Africa: An introduction," in Samuel Agyei-Mensah and **John B. Casterline** (eds.), *Reproduction and Social Context in Sub-Saharan Africa: A Collection of Micro-Demographic Studies*. Westport, CT: Greenwood Press, pp. 1–5.
- Agyeman, Dominic K. and **John B. Casterline.** "Social organization and reproductive behavior in southern Ghana," in Samuel Agyei-Mensah and **John B. Casterline** (eds.), *Reproduction and Social Context in Sub-Saharan Africa: A Collection of Micro-Demographic Studies*. Westport, CT: Greenwood Press, pp. 7–35.
- Bachrach, Christine and **Geoffrey McNicoll.** "Causal analysis in the population sciences: A symposium—Introduction," *Population and Development Review* 29(3): 443–447.
- Bhargava, Alok, Howarth E. Bouis, **Kelly K. Hallman**, and Bilqis A. Hoque. "Coliforms in the water and hemoglobin concentration are predictors of gastrointestinal morbidity of Bangladeshi children ages 1–10 years," *American Journal of Human Biology* 15(2): 209–219.
- Bongaarts, John.** "Completing the fertility transition in the developing world: The role of educational differences and fertility preferences," *Population Studies* 57(3): 321–336 (also published as *Policy Research Division Working Paper* no. 177. New York: Population Council).
- . "Fertility, proximate determinants of," in **Paul Demeny and Geoffrey McNicoll** (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 412–417.
- . 2002. "Population forecasts," in Lester Breslow (ed.), *Encyclopedia of Public Health*. New York: Macmillan Reference USA, p. 942.
- Bongaarts, John** and Griffith Feeney. "Estimating mean lifetime," in *Proceedings of the National Academy of Sciences of the United States of America* 100(23): 13127–13133 (also published as *Policy Research Division Working Paper* no. 179. New York: Population Council).
- Casterline, John B.** "Demographic transition," in **Paul Demeny and Geoffrey McNicoll** (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 210–216.
- . "Freedman, Ronald," in **Paul Demeny and Geoffrey McNicoll** (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 438–439.
- Casterline, John B., Fatma El-Zanaty, and Laila O. El-Zeini.** "Unmet need and unintended fertility: Longitudinal evidence from Upper Egypt," *International Family Planning Perspectives* 29(4): 158–166.
- Demeny, Paul.** "Population policy: A concise summary," *Policy Research Division Working Paper* no. 173. New York: Population Council.
- . "Population policy dilemmas in Europe at the dawn of the twenty-first century," *Population and Development Review* 29(1): 1–28.
- Demeny, Paul and Geoffrey McNicoll** (eds.). *Encyclopedia of Population*. New York: Macmillan Reference USA.
- Donaldson, Peter J.** "The demographics of Christmas," *Washington Post*, December 23, p. A21.
- Freedman, Vicki A. and **Linda G. Martin.** "Beyond inconsistent results: Finding the truth about trends in late-life cognitive functioning," *Journals of Gerontology Series B: Psychological Sciences and Social Sciences* 58B(6): S347–S348.
- Hallman, Kelly, David Lewis, and Suraiya Begum.** "An integrated economic and social analysis to assess the impact of vegetable and fishpond technologies on poverty in rural Bangladesh," *Food Consumption and Nutrition Division Discussion Paper* no. 163. Washington, DC: International Food Policy Research Institute.
- Islam, Mazharul, **Ubaidur Rob**, and Nitai Chakroborty. "Regional variations in fertility in Bangladesh," *Genus* 59(3–4): 103–145.
- Jackson, Elizabeth F., Patricia Akweongo, Evelyn Sakeah, Abraham Hodgson, Rofina Asuru, and James F. Phillips.** "Inconsistent reporting of female genital cutting status in northern Ghana: Explanatory factors and analytical consequences," *Studies in Family Planning* 34(3): 200–210 (also published as *Policy Research Division Working Paper* no. 178. New York: Population Council).
- Jain, Anrudh.** "Religion, state and population growth," in Daniel C. Maguire (ed.), *Sacred Rights: The Case for Contraception and Abortion in World Religions*. Oxford: Oxford University Press, pp. 237–254.
- Marindo, Ravai, Steve Pearson, and John B. Casterline.** "Condom use and abstinence among unmarried young people in Zimbabwe: Which strategy, whose agenda?" *Policy Research Division Working Paper* no. 170. New York: Population Council.
- McNicoll, Geoffrey.** "Demographic transition," in Joel Mokyr (ed.), *The Oxford Encyclopedia of Economic History*, vol. 2. New York: Oxford University Press, pp. 71–74.
- . "Development, population and," in **Paul Demeny and Geoffrey McNicoll** (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 226–234.
- . "Introduction: Australia's population history and prospects," in Siew-Ean Khoo and Peter McDonald (eds.), *The Transformation of Australia's Population: 1970–2030*. Sydney: University of New South Wales Press, pp. 1–16.
- . "Population and development: An introductory view," *Policy Research Division Working Paper* no. 174. New York: Population Council.

National Research Council, Committee on Population, Division of Behavioral and Social Sciences and Education, Panel on Urban Population Dynamics, **Mark R. Montgomery**, Richard Stren, Barney Cohen, and Holly E. Reed (eds.). *Cities Transformed: Demographic Change and Its Implications in the Developing World*. Washington, DC: National Academies Press.

Nyonator, Frank K., J. Koku Awoonor-Williams, **James F. Phillips**, **Tanya C. Jones**, and **Robert A. Miller**. "The Ghana Community-based Health Planning and Services initiative: Fostering evidence-based organizational change and development in a resource-constrained setting," *Policy Research Division Working Paper* no. 180. New York: Population Council.

Ofstedal, Mary Beth, **Zachary Zimmer**, Grace Cruz, Angelique Chan, and Yu-Hsuan Lin. "Self-assessed health expectancy among older Asians: A comparison of Sullivan and multistate life table methods," *Comparative Study of the Elderly in Asia Research Report* no. 03-60. Ann Arbor: University of Michigan, Population Studies Center.

Phillips, James F. and Mian Bazle Hossain. "The impact of household delivery of family planning services on women's status in Bangladesh," *International Family Planning Perspectives* 29(3): 138–145.

Segal, Sheldon J. *Under the Banyan Tree: A Population Scientist's Odyssey*. New York: Oxford University Press.

Zimmer, Zachary. "The aging of Asia: Demands of demographic change," *Orgyn* 14(1): 46–51.

———. "A further discussion on revisiting the classification of household composition among elderly people," *Journal of Cross-Cultural Gerontology* 18(3): 247–250.

Zimmer, Zachary, Napaporn Chayovan, Hui-Sheng Lin, and Josefina Natividad. "How indicators of socioeconomic status relate to physical functioning of older adults in three Asian countries," *Policy Research Division Working Paper* no. 172. New York: Population Council.

Zimmer, Zachary and **Julia Dayton**. "The living arrangements of older adults in sub-Saharan Africa in a time of HIV/AIDS," *Policy Research Division Working Paper* no. 169. New York: Population Council.

Zimmer, Zachary and **Julia Kwong**. "Family size and support of older adults in urban and rural China: Current effects and future implications," *Demography* 40(1): 23–44.

Zimmer, Zachary, **Linda G. Martin**, and Hui-Sheng Lin. "Determinants of old-age mortality in Taiwan," *Policy Research Division Working Paper* no. 181. New York: Population Council.

Quality of Care

Koenig, Michael A. "The impact of quality of care on contraceptive use: Evidence from longitudinal data from rural Bangladesh," *Frontiers Final Report*. Washington, DC: Population Council.

León, Federico R., **Carlos Brambila**, Marisela de la Cruz, John H. Bratt, Julio García Colindres, Benedicto Vásquez, and Carlos Morales. "Testing balanced counseling to improve provider–client interaction in Guatemala's MOH clinics," *Frontiers Final Report*. Washington, DC: Population Council.

Okullo, Joel, Quinto Okello, **Harriet Birungi**, **Ian Askew**, Barbara Janowitz, Carmen Cuthbertson, and Florence Ebanyat. "Improving quality of care for family planning services in Uganda," *Frontiers Final Report*. Washington, DC: Population Council.

RamaRao, Saumya, Marlina Lacuesta, Marilou Costello, Blesilda Pangolibay, and **Heidi Jones**. "The link between quality of care and contraceptive use," *International Family Planning Perspectives* 29(2): 76–83.

RamaRao, Saumya and Raji Mohanam. "The quality of family planning programs: Concepts, measurements, interventions, and effects," *Studies in Family Planning* 34(4): 227–248.

Sanogo, Diouratié, **Saumya RamaRao**, **Heidi Jones**, Penda N'Diaye, Bineta M'bow, and Cheikh Bamba Diop. "Improving quality of care and use of contraceptives in Senegal," *African Journal of Reproductive Health* 7(2): 57–73.

Reproductive Health

Amin, Sajeda. "Menstrual regulation in Bangladesh," in Alaka M. Basu (ed.), *The Sociocultural and Political Aspects of Abortion: Global Perspectives*. Westport, CT: Greenwood Press, pp. 153–166.

Blanchard, Kelly, Sharon Fonn, and Mankhosasana Xaba. "Abortion law in South Africa: Passage of a progressive law and challenges for implementation," *Gaceta Médica de México* 139(suppl 1): S109–S114.

Brambila, Carlos and Berta Taracena. "Availability and acceptability of IUDs in Guatemala," *Frontiers Final Report*. Washington, DC: Population Council.

Center for Development in Primary Health Care, Al Quds University. "Improving postpartum care among low-parity mothers in Palestine," *Frontiers Final Report*. Washington, DC: Population Council.

Dabash, Rasha. "Taking postabortion care services where they are needed: An operations research project testing PAC expansion in rural Senegal," *Frontiers Final Report*. Washington, DC: Population Council.

Espinoza, Henry and Lizbeth López-Carrillo. "Aborto inseguro en América Latina y el Caribe: Definición del problema y su prevención" [Unsafe abortion in Latin America and the Caribbean: Definition of the problem and its prevention], *Gaceta Médica de México* 139(suppl 1): S9–S15.

Gainer, Erin, **Jennifer Blum**, Else-Lydia Toverud, Nuno Portugal, Tanja Tyden, Britt-Ingjerd Nesheim, Margareta Larsson, Duarte Vilar, Pernille Nymoén, Gunilla Aneblom, Arielle Lutwick, and **Beverly Winikoff**. "Bringing emergency contraception over the counter: Experiences of nonprescription users in France, Norway, Sweden and Portugal," *Contraception* 68(2): 117–124.

Ganatra, Bela and **Batya Elul**. "Legal but not always safe: Three decades of liberal abortion policy in India," *Gaceta Médica de México* 139(suppl 1): S103–S108.

García, Sandra G., **Diana Lara**, and **Lisa Goldman**. "Conocimientos, actitudes y prácticas de los médicos mexicanos sobre el aborto: Resultados de una encuesta nacional" [Knowledge, attitudes, and practices of Mexican physicians concerning abortion: Results of a national survey], *Gaceta Médica de México* 139(suppl 1): S91–S102.

Guest, Philip. "Reproductive health including family planning," *Asia-Pacific Population Journal* 18(2): 55–79.

Gyapong, John, Gifty Addico, Ivy Osei, Mercy Abbey, Dominic Atweam Kobinah, Henrietta Odoi Agyarko, Gloria Quansah Asare, **Harriet Birungi**, and **Ian Askew**. "An assessment of trends in the use of the IUD in Ghana," *Frontiers and Ghana Health Service report*. Washington, DC: Population Council.

Hernández, Emilia and **Henry Espinoza**. "Experiencia salvadoreña con la interrupción farmacológica del embarazo ectópico" [The El Salvadoran experience with medical treatment of ectopic pregnancy], *Gaceta Médica de México* 139(suppl 1): S73–S76.

Htay, Thein Thein, **Josephine Sauvarin**, and **Saba Khan**. "Integration of post-abortion care: The role of township medical officers and midwives in Myanmar," *Reproductive Health Matters* 11(21): 27–36.

Huntington, Dale and **Laila Nawar**. "Moving from research to program: The Egyptian postabortion care initiative," *International Family Planning Perspectives* 29(3): 121–125.

Institut de Recherche et des Études des Comportements. "Peer education as a strategy to increase contraceptive prevalence and reduce the rate of STIs/HIV among adolescents in Cameroon," *Frontiers Final Report*. Washington, DC: Population Council.

Jejeebhoy, Shireen and Michael Koenig. "The social context of gynaecological morbidity: Correlates, consequences and health seeking behaviour," in **Shireen Jejeebhoy**, Michael Koenig, and Christopher Elias (eds.), *Reproductive Tract Infections and Other Gynaecological Disorders: A Multidisciplinary Research Approach*. Cambridge: Cambridge University Press, pp. 30–81.

Jejeebhoy, Shireen, Michael Koenig, and Christopher Elias (eds.). *Reproductive Tract Infections and Other Gynaecological Disorders: A Multidisciplinary Research Approach*. Cambridge: Cambridge University Press.

———. "Community interaction in studies of gynaecological morbidity: Experiences in Egypt, India and Uganda," in **Shireen Jejeebhoy**, Michael Koenig, and Christopher Elias (eds.), *Reproductive Tract Infections and Other Gynaecological Disorders: A Multidisciplinary Research Approach*. Cambridge: Cambridge University Press, pp. 140–147.

———. "Introduction and overview," in **Shireen Jejeebhoy**, Michael Koenig, and Christopher Elias (eds.), *Reproductive Tract Infections and Other Gynaecological Disorders: A Multidisciplinary Research Approach*. Cambridge: Cambridge University Press, pp. 1–10.

Langer, Ana. "Embarazo no deseado y el aborto inseguro: Su impacto sobre la salud en México" [Unwanted pregnancy and unsafe abortion: Its impact on health in Mexico], *Gaceta Médica de México* 139(suppl 1): S3–S7.

———. "Sexual and reproductive health: Where are we almost a decade after Cairo?" in Mario Bronfman and Catalina A. Denman (eds.), *Reproductive Health: Fears and Debates*. Cuernavaca: Instituto Nacional de Salud Pública, pp. 25–34.

- Lara, Diana, Sandra G. Garcia, Jennifer Strickler, Hugo Martínez, and Luis Villanueva. "El acceso al aborto legal de las mujeres embarazadas por violación en la ciudad de México" [Access to legal abortion for women who become pregnant as a result of rape in Mexico City], *Gaceta Médica de México* 139(suppl 1): S77–S90.
- Larrea, Fernando, Marta Durand-Carbajal, María del Carmen Cravioto, and Raffaella Schiavon. "Anticoncepción de emergencia" [Emergency contraception], *Gaceta Médica de México* 139(suppl 1): S29–S36.
- Marsh, David R., Salim Sadruddin, Fariyal F. Fikree, Chitra Krishnan, and Gary L. Darmstadt. "Validation of verbal autopsy to determine the cause of 137 neonatal deaths in Karachi, Pakistan," *Paediatric and Perinatal Epidemiology* 17(2): 132–142.
- Miller, Suellen, Nancy L. Sloan, Beverly Winikoff, Ana Langer, and Fariyal Fikree. "Where is the 'E' in MCH? The need for an evidence-based approach in safe motherhood," *Journal of Midwifery & Women's Health* 48(1): 10–18.
- Nawar, Laila, Dale Huntington, Ibrahim Kharboush, Nancy Ali, and Mahmoud Shaheen. "Assessment of pilot health project outcome indicators: West Bank/Gaza," *Frontiers Final Report*. Washington, DC: Population Council.
- Nigenda, Gustavo, Ana Langer, Chusri Kuchaisit, Mariana Romero, Georgina Rojas, Muneera Al-Osimy, José Villar, Jo Garcia, Yagob Al-Mazrou, Hassan Ba'aqeel, Guillermo Carroli, Ubaldo Farnot, Pisake Lumbiganon, José Belizán, Per Bergsjö, Leiv Bakkeiteig, and Gunilla Lindmark. "Women's opinions on antenatal care in developing countries: Results of a study in Cuba, Thailand, Saudi Arabia, and Argentina," *BMC Public Health* 3: 17.
- Philip, Neena, Caitlin Shannon, and Beverly Winikoff. "Misoprostol and teratogenicity: Reviewing the evidence—Report of a meeting," *Robert H. Ebert Program on Critical Issues in Reproductive Health Publication Series*. New York: Population Council.
- Phillips, James F., Tanya C. Jones, Frank K. Nyongator, and Shruti Ravikumar. "Evidence-based development of health and family planning programs in Bangladesh and Ghana," *Policy Research Division Working Paper* no. 175. New York: Population Council.
- Quasem, Iftekhhar, Nancy L. Sloan, Anita Chowdhury, Salahuddin Ahmed, Beverly Winikoff, and A.M. Chowdhury. "Adaptation of kangaroo mother care for community-based application," *Journal of Perinatology* 23(8): 646–651.
- Savelieva, Irina, John M. Pile, Inna Sacchi, and Ratha Loganathan. "Postabortion family planning operations research study in Perm, Russia," *Frontiers Final Report*. Washington, DC: Population Council.
- Schiavon, Raffaella. "Aborto médico: Alternativas terapéuticas actuales" [Medical abortion: Current therapeutic alternatives], *Gaceta Médica de México* 139(suppl 1): S55–S63.
- Segal, Sheldon J. "Spontaneous abortion," in Paul Demeny and Geoffrey McNicoll (eds.), *Encyclopedia of Population*, vol. 2. New York: Macmillan Reference USA, pp. 913–914.
- Segal, Sheldon J. and Luigi Mastroianni, Jr. *Hormone Use in Menopause and Male Andropause: A Choice for Women and Men*. New York: Oxford University Press.
- Sholkamy, Hania, Karima Khalil, Mohamed Cherine, Amr Elnoury, Miral Breebaart, and Nevine Hassanein. "An observation checklist for facility-based normal labor and delivery practices: The Galaa Study," *Monographs in Reproductive Health* no. 5. Cairo: Population Council.
- Turner, Abigail Norris, Charlotte Ellertson, Sarah Thomas, and Sandra G. Garcia. "Diagnosis and treatment of presumed STIs at Mexican pharmacies: Survey results from a random sample of Mexico City pharmacy attendants," *Sexually Transmitted Infections* 79(3): 224–228.
- Ulloa-Aguirre, Alfredo and Claudia Diaz-Olavarrieta, and Charlotte Ellertson. "Prefacio" [Preface], *Gaceta Médica de México* 139(suppl 1): S1–S2.
- Verma, Ravi K. "Male sexual health concerns and their implications: Research findings from community-based studies in Mumbai," in Anjali Mahajan (ed.), *Perspectives on Culturally Based Concepts of Semen Loss: A Key to Prevention of STIs/HIV*. Baroda: Deepak Charitable Trust, pp. 67–77.
- Verma, Ravi K., Sumitra Sharma, Rajendra Singh, Gurumurthy Rangaiyan, and Pertti J. Pelto. "Beliefs concerning sexual health problems and treatment seeking among men in an Indian slum community," *Culture, Health and Sexuality* 5(3): 265–276.

Transitions to Adulthood

Hewett, Paul C., Barbara S. Mensch, and Annabel S. Erulkar. "Consistency in the reporting of sexual behavior among adolescent girls in Kenya: A comparison of interviewing methods," *Policy Research Division Working Paper* no. 182. New York: Population Council.

Lloyd, Cynthia B. "Education," in Paul Demeny and Geoffrey McNicoll (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 278–283.

Lloyd, Cynthia B., Sahar El-Tawila, Wesley H. Clark, and Barbara S. Mensch. "The impact of educational quality on school exit in Egypt," *Comparative Education Review* 47(4): 444–467.

Lloyd, Cynthia B. and Paul C. Hewett. "Primary schooling in sub-Saharan Africa: Recent trends and current challenges," *Policy Research Division Working Paper* no. 176. New York: Population Council.

Mensch, Barbara S., Wesley H. Clark, and Dang Nguyen Anh. "Adolescents in Vietnam: Looking beyond reproductive health," *Studies in Family Planning* 34(4) 249–262.

Mensch, Barbara S., Paul C. Hewett, and Annabel S. Erulkar. "The reporting of sensitive behavior by adolescents: A methodological experiment in Kenya," *Demography* 40(2): 247–268.

Mensch, Barbara S. and Susheela Singh. "Adolescent fertility," in Paul Demeny and Geoffrey McNicoll (eds.), *Encyclopedia of Population*, vol. 1. New York: Macmillan Reference USA, pp. 14–16.

Quisumbing, Agnes R. and Kelly Hallman. "Marriage in transition: Evidence on age, education, and assets from six developing countries," *Policy Research Division Working Paper* no. 183. New York: Population Council.

RamaRao, Saumya and Nafissatou J. Diop. "Serving the reproductive health needs of adolescents in Senegal: Analysis of costs," *Frontiers Project Report*. Washington, DC: Population Council.

Sathar, Zeba A., Cynthia B. Lloyd, Cem Mete, and Minhaj ul Haque. "Schooling opportunities for girls as a stimulus for fertility change in rural Pakistan," *Economic Development and Cultural Change* 51(3): 677–698.

Sathar, Zeba A., Cynthia B. Lloyd, Minhaj ul Haque, Judith A. Diers, Azeema Faizunnisa, Monica Grant, and Munawar Sultana. *Adolescents and Youth in Pakistan 2001–02: A Nationally Representative Survey*. Islamabad: Population Council.

JOURNALS

Population and Development Review (Volume 29)

Number 1, March

Articles

Paul Demeny, "Population policy dilemmas in Europe at the dawn of the twenty-first century"

Robert Woods, "Urban–rural mortality differentials: An unresolved debate"

Patrick Heuveline, Jeffrey M. Timberlake, and Frank F. Furstenberg, Jr., "Shifting childrearing to single mothers: Results from 17 Western countries"

Steven Ruggles and Susan Brower, "Measurement of household and family composition in the United States, 1850–2000"

Notes and Commentary

Oka Obono, "Cultural diversity and population policy in Nigeria"

Number 2, June

Articles

Lionel Shriver, "Population in literature"

Susan Greenhalgh, "Science, modernity, and the making of China's one-child policy"

Peter Boomgaard, "Bridewealth and birth control: Low fertility in the Indonesian Archipelago, 1500–1900"

Charles Hirschman and Bussarawan Teerawichitchainan, "Cultural and socioeconomic influences on divorce during modernization: Southeast Asia, 1940s to 1960s"

Notes and Commentary

Linda J. Waite and Evelyn L. Lehrer, "The benefits from marriage and religion in the United States: A comparative analysis"

Data and Perspectives

Graeme Hugo, Anthony Champion, and Alfredo Lattes, "Toward a new conceptualization of settlements for demography"

Number 3, September

Articles

Catherine Hakim, "A new approach to explaining fertility patterns: Preference theory"

Thomas LeGrand, Todd Koppenhaver, Nathalie Mondain, and Sara Randall, "Reassessing the insurance effect: A qualitative analysis of fertility behavior in Senegal and Zimbabwe"

Jane Menken, Linda Duffy, and Randall Kuhn, "Childbearing and women's survival: New evidence from rural Bangladesh"

Tim Dyson, "HIV/AIDS and urbanization"

Notes and Commentary

Causal Analysis in the Population Sciences: A Symposium

Christine Bachrach and Geoffrey McNicoll, "Introduction"

Robert Moffitt, "Causal analysis in population research: An economist's perspective"

Herbert L. Smith, "Some thoughts on causation as it relates to demography and population studies"

Tom Fricke, "Culture and causality: An anthropological comment"

Steven Ruggles, "Measurement of family and household composition in Census 2000: An update"

Data and Perspectives

Griffith Feeney and Iqbal Alam, "New estimates and projections of population growth in Pakistan"

[Number 4, December](#)

Articles

Edmund Ramsden, "Social demography and eugenics in the interwar United States"

Rachel Murphy, "Fertility and distorted sex ratios in a rural Chinese county: Culture, state, and policy"

David Voas, "Conflicting preferences: A reason fertility tends to be too high or too low"

Marc Luy, "Causes of male excess mortality: Insights from cloistered populations"

Notes and Commentary

John Knodel and Mary Beth Ofstedal, "Gender and aging in the developing world: Where are the men?"

Data and Perspectives

Joshua Goldstein, Wolfgang Lutz, and Sergei Scherbov, "Long-term population decline in Europe: The relative importance of tempo effects and generational length"

[Supplement to Volume 29](#)

Life Span: Evolutionary, Ecological, and Demographic Perspectives, James R. Carey and Shripad Tuljapurkar, Editors

James R. Carey, "Life span: A conceptual overview"

Steven Hecht Orzack, "How and why do aging and life span evolve?"

Jean-Michel Gaillard, Anne Loison, Marco Festa-Bianchet, Nigel Gilles Yoccoz, and Erling Solberg, "Ecological correlates of life span in populations of large herbivorous mammals"

Marc Mangel, "Environment and longevity: The demography of the growth rate"

Robert E. Ricklefs and Alex Scheuerlein, "Life span in the light of avian life histories"

Lawrence G. Harshman, "Life span extension of *Drosophila melanogaster*: Genetic and population studies"

Shiro Horiuchi, "Interspecies differences in the life span distribution: Humans versus invertebrates"

Hillard Kaplan, Jane Lancaster, and Arthur Robson, "Embodied capital and the evolutionary economics of the human life span"

Ronald Lee and Joshua R. Goldstein, "Rescaling the life cycle: Longevity and proportionality"

Jean-Marie Robine and Yasuhiko Saito, "Survival beyond age 100: The case of Japan"

Jean-Marie Robine, "Life course, environmental change, and life span"

John R. Wilmoth and Jean-Marie Robine, "The world trend in maximum life span"

James W. Vaupel, "Post-Darwinian longevity"

Kenneth W. Wachter, "Hazard curves and life span prospects"

[Studies in Family Planning \(Volume 34\)](#)

[Number 1, March](#)

Articles

Amson Sibanda, Zewdu Woubalem, Dennis P. Hogan, and David P. Lindstrom, "The proximate determinants of the decline to below-replacement fertility in Addis Ababa, Ethiopia"

Barbara S. Mensch, Barbara L. Ibrahim, Susan M. Lee, and Omaira El-Gibaly, "Gender-role attitudes among Egyptian adolescents"

Neeru Gupta, Charles Katende, and Ruth Bessinger, "Associations of mass media exposure with family planning attitudes and practices in Uganda"

Reports

Jane Falkingham, "Inequality and changes in women's use of maternal health-care services in Tajikistan"

Yan Che and John Cleland, "Contraceptive use before and after marriage in Shanghai"

[Number 2, June](#)

Articles

Nancy Luke, "Age and economic asymmetries in the sexual relationships of adolescent girls in sub-Saharan Africa"

Clémentine Rossier, "Estimating induced abortion rates: A review"

Elizabeth Frankenberg, Bondan Sikoki, and Wayan Suriastini, "Contraceptive use in a changing service environment: Evidence from Indonesia during the economic crisis"

Reports

Donald S. Shepard, Richard N. Bail, and C. Gary Merritt, "Cost-effectiveness of USAID's regional program for family planning in West Africa"

Stan Becker and Nafissatou Diop-Sidibé, "Does use of the calendar in surveys reduce heaping?"

[Number 3, September](#)

Articles

Monica A. Magadi and Siân L. Curtis, "Trends and determinants of contraceptive method choice in Kenya"

Christine A. Varga, "How gender roles influence sexual and reproductive health among South African adolescents"

Manju Rani and Sekhar Bonu, "Rural Indian women's care-seeking behavior and choice of provider for gynecological symptoms"

Reports

Sarah Castle, "Factors influencing young Malians' reluctance to use hormonal contraceptives"

Elizabeth F. Jackson, Patricia Akweongo, Evelyn Sakeah, Abraham Hodgson, Rofina Asuru, and James F. Phillips, "Inconsistent reporting of female genital cutting status in northern Ghana: Explanatory factors and analytical consequences"

[Number 4, December](#)

Articles

Saumya RamaRao and Raji Mohanam, "The quality of family planning programs: Concepts, measurements, interventions, and effects"

Barbara S. Mensch, Wesley H. Clark, and Dang Nguyen Anh, "Adolescents in Vietnam: Looking beyond reproductive health"

Reports

Susan Chen and David K. Guilkey, "Determinants of contraceptive method choice in rural Tanzania between 1991 and 1999"

Kim Eva Dickson, Rachel K. Jewkes, Heather Brown, Jonathan Levin, Helen Rees, and Luyanda Mavuya, "Abortion service provision in South Africa three years after liberalization of the law"

STAFF AND CONSULTANTS

This section lists 2003 Population Council staff by their positions as of December 31. Names of professional staff who left the Council during the year are followed by an asterisk. Consultants listed are primarily those who work with the Council on an ongoing basis.

OFFICE OF THE PRESIDENT

President

Linda G. Martin

Head of Foreign Government and Board Relations/Special Assistant

Tammy J. Allen

Executive Assistant

Vivian E. Montgomery

Staff Assistant

Marissa Bohrer

Distinguished Colleagues

Distinguished Scholar

Paul Demeny

Distinguished Scientist

Sheldon J. Segal

Administrative Support Staff

Robert B. Colasacco

Consultants

Susan Greenhalgh, Michael P. Todaro

Development

Director

Ruth Kalla Ungerer

Administrative/ Technical Professional Staff

Anne Donadeo

Administrative Support Staff

David B. Abrams, Magdalene Mayers

CENTER FOR BIOMEDICAL RESEARCH

Vice President

Elof D.B. Johansson

Director, Reproductive Biology and Immunology

James F. Catterall

Executive Director, Product Research and Development

Régine Sitruk-Ware

Director, Microbicides Clinical Trials

Pekka O. Lähteenmäki

Head, Clinical Regulatory Affairs and Safety Desk

Srinivas V. Tetali

Head, Pharmaceutical Development and Regulatory Affairs

Richard Maskiewicz*

Medical Director

Donald E. Waldron

Senior Scientists

Ching-Ling Chen, Chuen-yan Cheng, Matthew P. Hardy, Patricia L. Morris, David M. Phillips, Irving Sivin, Irving M. Spitz, Kalyan Sundaram, Yun-yen Tsong

Scientists

Gary Hunnicutt, Narender Kumar, Melissa J. Pope, Frederick Schmidt, Bruce F. Variano

Staff Scientists

Michael I. Anazodo,* Daniel J. Bernard, Zong-ming Feng, Marc Goldstein, Dianne Hardy, Peter Schlegel

Research Investigators

Benson T. Akingbemi, Ines Frank, Renshan Ge, Dolores Mruk, En-Mei Niu, Mitchell Thorn

Senior Administrative Staff

M. Ashton Barfield, Jean E. Schweis

Staff Program Associate

Elizabeth Kelvin*

Administrative/ Technical Professional Staff

Arthur Allen, Thomas Carlson, Peter J. Conlon, Marion Davis, Sumentheran Govender, Sushma Kumar, Marcia Langhoff, Deborah A. Lazzarino, An An Luong, Robin A.

Maguire, David Moretsele, Evan B. Read, Janet Schechter, Stephanie Skoler, Margaret G. Small,* Jeri Tanen,* Barbara A. Tokay, Eduardo S. Tovar, Elaine F. Travers, Loreley A. Villamide-Herrera

Senior Research Technicians

William De Jesus, Simone J. Evans, Irina Mamkina, Aileen Marshall, Anna Mielnik, Lyann R. Mitchell, Meng-Yun Mo,* Jose A. Romero, Maria T. Sallent, Richard Sewell, Chantal Sottas, Kristin Sudol, Esther Wu

Staff Assistants

Natalie Amar, Jeffrey L. Edwards, Andrew Gonzalez, Laura Guichard, Belinda Marrell, Yvonne Harrison O'Neal

Administrative/ Technical Support Staff

Mariya A. Babayeva, Anne Conway, Keumsil Hwang, Jessica Kenney, Malka Kohn, Susanna Kwitny, Delbert Layne, Patricia McKenna, Norma Ombler, Kyung Hwa Park, Daniel Phillips, Michelle M. Santos, Amparo Solari, Anne Spencer, Kanani E. Titchen, Andrea Wallace, Vennansha Williams

INTERNATIONAL PROGRAMS DIVISION

Vice President

Peter J. Donaldson, Purnima Mane¹

Senior Director, Policy and Regional Programs

Anrudh Jain

Special Assistant

Rose N. Maruru

Interregional, New York

Director, Gender, Family, and Development

Judith Bruce

Director, Reproductive Health

Ana Langer (acting), Beverly Winikoff²

Senior Program Associates

Robert A. Miller, Nancy L. Sloan

Program Associates

Martha Brady, Judith A. Diers, Batya Elul, Fariyal Fikree, Nicole Haberland, Saumya RamaRao, Janneke van de Wijgert*

Senior Administrative Staff

Y. Birsan Bayazit, Carol Hendrick

Staff Program Associates

Jennifer L. Blum, Heidi Jones

Administrative/ Technical Professional Staff

Martha Alexander, Hillary J. Bracken, Sarah L. Braunstein, Heather A. Clark, Taja Ferguson, Barbara Friedland, Mylene E. Gibbs,* Auralice M. Graft, Richard P. Houck,* Virginia Kallianes, Jacqueline J. Kim, Carey Meyers, Martina K. Moss, Michelle Park, Neena M. Philip, Caitlin S. Shannon,* Roman Zadorozhny

Staff Assistants

Maria Alevrontas, Gabriela Bartalos, Elaine K. Baur, Ann Marie Bonardi, Susannah Canfield, Erica L. Chong, Jill M. Durocher, Mary Alice Elmoor, Shaniece Garner, Amy T. Joyce, Dessislava Kirilova, Jeeyun Lee, Sun Ae Lee, Joanna Perlman, Michelle N. Skaer

Administrative Support Staff

Afua Adusei, Maria Perez, Elvin Pichardo

Consultants

Sharon Benjamin, Christiana Coggins, Rasha Dabash, Rachel Goldberg, Claudia Gras, Selma Hajri, Erin Hasselberg, Danielle Hassoun, Ellin Kao, Diana Measham, Suellen Miller, Bernard C. Pobiak, Debbie Rogow, Sandy Schilen, Jennefer Sebstad, Wendy Sheldon, André Ulmann, Janneke van de Wijgert, Eugene M. Weiss

Interregional, Washington, DC

Director, Frontiers in Reproductive Health

John W. Townsend

Director, Horizons

Andrew A. Fisher

Deputy Director, Horizons

C. Johannes van Dam

Senior Program Associates

James R. Foreit, Naomi Rutenberg

Program Associates

Beverly Ben Salem, Margaret J. Dadian, Laelia Z. Gilborn, Joanne N. Gleason, Laura S. Raney

¹ Vice president until her departure February 14, 2003; Peter J. Donaldson appointed vice president effective May 12, 2003.

² Director of reproductive health until her departure February 28, 2003; Ana Langer appointed acting director effective March 1, 2003.

Staff Program Associates

Carolyn Baek, Katie Schenk

Administrative/ Technical Professional Staff

Louis F. Apicella, Angela Briceño, Stephanie Joyce, Lisa W. Lane, Damon A. Newsome, Roberto Valverde*

Staff Assistants

Alison M. Clarke, Shari Cuesta, Tshikana M. Douglas, Malea Hoepf, Sherry A. Hutchinson, Jenny N. Myers, Natalie Phillips-Hamblett

Administrative Support Staff

Vivian Nicholson, Phan Van Trinh

Seconded Staff

Susan Adamchak,* Christopher Castle, Ann Levin,* M. Celeste Marin, Ann McCauley, Julie Pulerwitz, Ellen Weiss

Consultants

Mary Geissman, Ault Nathanielsz, Emma Ottolenghi, Stephen Pearson, Iveta Pudule, Marcia Townsend

Latin America and the Caribbean

Regional Director

Ana Langer

Senior Program Associates

Juan Diaz, Ricardo Vernon

Program Associates

Carlos Brambila-Paz, Sandra Garcia, Daniel A. Grossman, Federico León*

Host-Country Advisor

Fernando Gonzáles Salguero

Administrative/ Technical Professional Staff

Katrina Abuabara,* Tess Aldrich, Davida Becker,* Angelica Bixcul, Lucia Brito, Angela Caballero, Maria Dolores Castro, Jennifer Catino, Magda Chinaglia, Claudia Díaz, Henry Espinoza, Lisa Goldman, Guillermina Herrera, Diana Lara, Antonieta Martin, Rosa Poiré, Patricia Riveros, Ana Lucia Rodríguez, Mariamalia Rodríguez,* Marta Julia Ruiz Gómez, Raffaella Schiavon,* Jorge Solórzano, Carrie Tatum, Claudia Vizcaino, Maria Renee Zelaya

Support Staff

Katia Amorim, Javier Arellano, Laura Carrillo, Hilda Castro, João de Carvalho, Vanessa De Gyves, Maria Ivone de Souza, Valentín Díaz, Tatiana Gómez-García, Leticia Herrera, Jorge Ledesma, Rosendo Limón, Hilaria López, Wilson Magueño, Susana Medina, Gloria Morales, Atala Moreno, Silvana

Muller, Maria Teresa Palafox, Sofia Reynoso, Simone Rodríguez, Laura Ruiz, Darío Silva, Maite Vélez, Carmen Zambrana

Consultants

Ángela Aparecida Donini, Luis Bahamondes, Davida Becker, Silvia Maria Caldas Pedroso, Carol Suzanne Camlin, Maria Dolores Castro Mantilla, Teresa de Vargas, Sally Davis Ellwein, Loren Galvão, Alfredo Guzman, Deanna Kerrigan, Sarah Landis, Federico León, Sheri Lippman, Zilka Loayza, Lizbeth T. López Carillo, Jose David Mariscal, Luis Moreno Montalvo, Cristina Takae Yamaguti Ogura, Alberto Padilla, Anna Carola Prudencio Soria, Francisco Prudencio, Irma Ramos, Susanna Rance, Arthur Lawrence Reingold, Maria Cristina Rentería, Christine Ricardo, Kara Lynn Richmond, Patricio Sanhueza Smith, Maria Silvia Setubal, David Silva, Jennifer Strickler, Jaime Tellería

South and East Asia

Regional Director

Saroj Pachauri

Senior Program Associates

Jane C. Hughes, Shireen J. Jejeebhoy, Mohamad Ejazuddin Khan

Program Associates

Simon Baker, Sabine K. Flessenkaemper, M. Philip Guest, A.K. Ubaidur Rob, Avina Sarna, Josephine Sauvarin,* Budi Utomo, Ravi K. Verma

Staff Program Associate

Michelle Gardner

Host-Country Advisor

Vu Quy Nhan

Administrative/ Technical Professional Staff

Anju Agarwal,* Lila Amaliah,* Rahela Anam, Abhijeet Anand, Aminul Arifeen,* Shahina Begum, Monica Bhalla, Sonia Bhalla, Ismat Ara Bhuiya, Mohammad Nizamuddin Bhuiyan,* Deddy Darmawan, Sunetra Deshpande, Joachim Victor Gomes, Punpet Hiranpradit, Sharif Mohammed Ismail Hossain, Shveta Kalyanwala, Saba Khan, Esther Anne Parapak Kusumaatmadja, Le Thu Anh, Le Thi Phuong Mai, Louise Lee-Jones, Vaishali Sharma Mahendra, Anurag Mishra, Nguyen Thu Ha, Vijaya Nidadavolu, Bashra Parveen, Anil Paul, Laila Rahman, Mohammad Moshir Rahman, Gurumurthy Rangaiyan, Sohini Roychowdhury, Patchara Rumakom,* K.G. Santhya, Srisuman Sartsara,* Mary Philip Sebastian, Dipak Kumar Shil,

Warangkana Singhsneah, Nucharee Srivirojana, Washsiraporn Suramaythangkoon, Tran Thu Ha, Marium Ul Muthahara, Leila Caleb Varkey, Nidhi Verma,* Shalini Verma, Vu Linh Chi, Vu Thi Kieu Dung, Anjali Widge,* Nazia Yusuf

Support Staff

Madhukar Bagdas, Tina Bhalla, Tapon Kumar Bose, Shiv Charan, Mohammad Asiful Haidar Chowdhury, Nazimuddin Chowdhury, Sujan Kumar Dey, Do Van Doai, Hendrawan, Hoang Van Huu, Abdul Hossain, Johny, Abdul Majid, Laxman Mandal, Asha Matta, Pithak Namtirah, Nguyen Thi Phuong Lan, Indah Pratiwi, Amala Rahmah, Haralal Roy, Komal Saxena, Rama Sehgal, Radhey Shyam, Sofyani, P. Sunanda, Elvin Sunny, V.L. Thomas, Geetha Vaithyanathan, Peng-Ngram Yamtim

Seconded Staff

Heiner Grosskurth*

Consultants

Rajib Acharya, Stina Almroth, Shalini Bharat, Tan Boon-Ann, Celine Costello-Daly, Kurus Coyaji, Vikas Desai, Anne Donovan, P. Duraisamy, Deepika Ganju, Gayatri Giri, Hoang Tu Anh, Maya Ibars, Sarita Jadav, Gaurang Jani, Gavin Jones, Neera Kashyap, Le Thai Thi Bang Tam, Karin Lockwood, Amdou Moreau, Rupa J. Mudoi, Nirmala Murthy, Shweta Bajaj Nagreth, Nguyen Tri Duc, Nguyen Thi Viet Hong, Nguyen Dinh Loan, Nguyen Thi Tam, Nguyen Quynh Trang, Archana Kaushik Panda, Pham Bich San, Phuong Thu Huong, Rajendra Prasad, A. Venkat Raman, Laura Reichenbach, R.S.S. Sarma, Josephine Sauvarin, Nirmala Selvam, John Stoeckel, Tran Hoang Nam, Trinh Thuy Lan, Leela Visaria, Beryl West, Lucinda Willshire, Iresh Zaker

Sub-Saharan Africa

Regional Director

Ayorinde Ajayi

Senior Program Associate

Ian Askew

Program Associates

Harriet Birungi, Kelly Blanchard,* Jane Chege, Nafissatou J. Diop, Seydou Doumbia, Annabel Eruikar, Eka Esu-Williams, Sam Kalibala,* Esther G. Muia,* Saiqa Mullick, Lewis Ndhlovu, Diouratié Sanogo, John P. Skibiak, Lassane Placide Tapsoba

Staff Program Associates

Scott Geibel, Charlotte Warren

Administrative/ Technical Professional Staff

Edmond Baguede, Marthe Bruce Dieng, Mamadou Djire, Zoumana Doumbia, Peter Gaiku, Zahra Hassanali, Adan Isaac, Milka Juma, Susan Cherop Kaai, Arjmand Banu Khan, Mirriam Khumalo, Francis Kotobridja, Wilson N. Liambila, Charity Mamathuba, Nqobile Mavimbela, Mazwi P.S. Mngadi, Fortunate N. Mosery,* Joseph F. Motsepe, Gugulethu G. Ndlovu,* Lucy Nganga, Carolyne Njue, Tebogo Ramothibe,* Reine Lydia Saloucou, Catherine Searle, Mike Shamku,* Monica Wanjiru, Pauline Zoundi

Support Staff

John Anzali, Carol Apiyo, Abdoul Dieng, Angela Gadzekpo, Mamadou Goudiaby, Simon Kamau, Kenneth Kukanu, Lindiwe Francis Kumalo, Anita Laryea, Joanne Lewa, Winnie Lubasi, Nomakhweki M. Madikiza, Wellington Mage, Siphwokuhle Melissa Mahlangu, David Matheka, Amadou Lamine Mbengue, Ella Miyanda, Vuyelwa Mjale, Abiot Modingoane, Dianah Mwangi, Jane Mwikali, Douglas Ndeddah, Adama Niaré, Philisters Obunga, Joyce Ombeva, Norah Omenda, Louis Yanogo

Seconded Staff

Karusa Kiragu

Consultants

Clement Ahladake, Fred Bateganya, Victoria Ebin, Humphres Evelia, Christine Heritier, Evelyn 'Kuor Kumoji, Joanne E. Mantell, Margaret McEvoy, Tekle Mekbib, Peter Savosnick, Julie Solo, Leah Thayer, Roberto Valverde, Mary Thole Zama

West Asia and North Africa

Regional Director

Barbara Ibrahim

Senior Program Associate

Zeba A. Sathar

Program Associates

Nahla G. Abdel-Tawab, Abdel Ghaffar M. Ahmed, Peter Miller, Laila Nawar

Administrative/ Technical Professional Staff

Alyce N. Abdalla, Abrar Ahmed, Imran Ahmed, Imran "Mani" Ahmed, Muhammad Shafique Arif, Mehmood Asghar, Seemin Ashfaq, Zaheer Gul Awan, Bushra Bano, Kamran Shafi Bhutta, Miral Breebaart, Mona Bur, Moushira El Geziri, Dina El Meleegy, Tarek Alam Eldin, Azeema Faizunnisa, Nayyar Farooq, Magda Fayek, Noha Gaballah, Hedi Ganoub, Tayyaba Gul, Ashfa Hashmi, Gihan Hosny, Shaheen

Naz Islam, Karima Khalil, Muhammad Khalil, Mumraiz Khan, Wajahat Raza Khan, Amr Kotb, Rahim Dad Malik, Irfan Masood, Khalid Mehmood,* Noushad Mehmood, Farid Midhet, Ali Mohammad Mir, Mashooda Mirza, Shagufta Naheed, Ikram Noshi,* Tahira Parveen, Saima Pervez, Abdul Rashid, Gul Rashida, Moushira Rasmy, Naseem Raza, Enayatur Rehman, Mona Emil Rizk, Rania Roushdy, Nahed Sakr, M. Ahmed Saleem, Abeer Salem, Rania Salem,* Syed Zakir Hussain Shah, Salma Shaltout, Lubna Shireen, Munawar Sultana, Hanan Tammam, Zeba Tasnim, Minhaj ul Haque, Zia ul Islam, Abdul Wajid, Wael Wasel, Nadia Zibani

Support Staff

Ghazanfar Abbasi, Atef Abdoun, Abdul Aziz, Ashraf Haddad, Ramadan Imam, Khalid Javed, Marghani G. Marghani, Samar Akram Masih, Yousaf Jan Masih, Hatem Mostafa, Osama Mostafa, Mohamed Mousa, Bakht Munir, Yehia Ramadan, Ghulam Raza, Kamran Saeed, Essam Samra, Feroz Shah

Consultants

Zeinab Gamal Hassan, Linda Herrera, Russane Green Hozayin, Dick Jessor, Hind Abou El Seoud Khattab, Ray Langsten, Baquer Namazi, Juliette Seibold, Jan Williamson

POLICY RESEARCH DIVISION

Vice President

John Bongaarts

Director, Social Science Research

Cynthia B. Lloyd

Senior Associates

Sajeda Amin, John B. Casterline, Geoffrey McNicoll, Barbara S. Mensch, Mark R. Montgomery, James F. Phillips

Research Associates

Kelly K. Hallman, Paul Hewett, Zachary Zimmer

Staff Research Associates

Ellie Feinglass, Elizabeth Jackson,* Tanya Jones

Resident Fellows

Toshiko Kaneda, Ravai Marindo,* Sara Peracca

Senior Administrative Staff

Elizabeth Cottrell

Administrative/ Technical Professional Staff

Monica Grant, Jude Lam-Garrison, Bonisiwe P.N. Mdluli, Barry Ravitch

Staff Assistants

Mark I. Garrison, Melissa Hamilton, Barbara M. Miller, Doreen Totaram, Kate Venet

Research Support Staff

Margaret McGirt

Consultants

Peter Aglobitse, Anthony Amuzu, Rodolfo Bulatao, Kobita Chowdury, Julia Dayton, Griffith Feeney, Ellie Feinglass, Sara Hossain, Lopita Huq, Elizabeth Jackson, Nahid Kamal, Emmanuel Kuffour, Bruce MacLeod, Simeen Mamud, Philomena Nyarko, Siddiqur Osmani, Gabriel Pictet, Santi Rozario, Tulshi Saha, Sidney Schuler, Dina Mahnaz Siddiqi, Nicholas Swan, Rachel Tobey

CORPORATE AFFAIRS DIVISION

Vice President

Sandra P. Arnold

Senior Director, Corporate Affairs

James E. Sailer*

Senior Administrative Staff

George Young

Staff Assistant

Joe Schulz

Legal

General Counsel

Patricia C. Vaughan

Attorney

Margarita Cruz*

Legal Staff Assistant

Ann-Bernice Allen

Human Resources

Director

Vivien Rabin

Senior Administrative Staff

Darryl K. Lewis, Maria Vinardell

Administrative/ Technical Professional Staff

Benjamin Bilbao, Deirdre Hoare, Karen Martinez

Staff Assistants

Robert Granata, Joyce Ng

Administrative Support Staff

Teresa Baran, Stacey Mohammed, Regina Wilson

Office Services

Director

Laurie Constantino

Administrative/ Technical Professional Staff

Gary B. Clifton

Staff Assistants

John N. Gontarz, May Moy-Au, Barbara Nee

Administrative Support Staff

Mario Aponte, Kimeka Armstrong, Naquan Davis, Alston L. Jones, Richard V. Williams, Regina Wilson, Andre L. Winslow, Patricia A. Youngblood

Information Technology

Director

Catherine T. Davidoff

Senior Technical Staff

Deborah Boccio, Stanley Mierzwa

Technical Professional Staff

Karen A. Blount, Irene Friedland, Michael Lim, Sue Mee Low, Du Luu, Paulino Ruiz, Vladimir Sidorenkov,* Chung Shun Wu

Public Information

Director

Melissa May

Administrative/ Technical Professional Staff

Gina Duclayan, Suzanne P. Elliott, Diane M. Rubino, Craig J. Savel

Staff Assistant

Gregg P. Culling

Publications

Director

Ethel P. Churchill

Senior Technical Staff

Robert Heidel, Margaret A. Knoll, Julie K. Reich, Y. Christina Tse

Administrative/ Technical Professional Staff

Sura Rosenthal, Wendy Spero, Jared B. Stamm, Karen Tweedy-Holmes, Michael J. Vosika, Debra Warn

Librarian

H. Neil Zimmerman

Staff Assistants

Carmen Delgado, Marita Seaberg, Julie A. Sitney

Administrative Support Staff

Walter J. Fitzpatrick, Matthew C. Micka

OFFICE OF THE SECRETARY-TREASURER

Chief Financial Officer and Secretary-Treasurer

James M. Tuite

Administrative/ Technical Professional Staff

Agnes Chan

Staff Assistant

Bella Feuchtwanger

Office of the Controller

Controller

Lorraine Karlen

Senior Administrative Staff

Richard L. Kessler, Danielle Kossove, Zenaïda C. Lota

Administrative/ Technical Professional Staff

Betty Goldman, Cheryl A. Mitchell, Bill Moy, Teresa Saju

Administrative Support Staff

Cathy S. Cai, Elena Chan, Cynthia Green, Maria Herrera, Sherwin T. Nicholson, Rita Schramm, Anthony Velez

Grants and Contracts

Director

Marjorie Kitzes

Administrative/ Technical Professional Staff

Chiara Lombardo, Russell Miller, Kristin E. Morrell*

Staff Assistant

Catherine Gil de Lamadrid

Administrative Support Staff

Jerusha Klemperer, Lyntonia S. Peters

Population Council Program III

Senior Administrative Staff

Ruth Copeland

Staff Assistant

Holly S. Hobart

ADVISORY AND COLLABORATIVE BODIES

Institutional Review Board

Sheldon J. Segal
Chairperson
Population Council

Arthur Allen¹
Population Council

James F. Catterall
Population Council

Andrew Davidson
Columbia University

Fariyal Fikree²
Population Council

Ruth L. Fischbach
Columbia University

Elof D.B. Johansson³
Population Council

Rachael N. Pine
EngenderHealth

June Reidenberg
Scarsdale, New York

John W. Townsend
Population Council

Livia S. Wan
New York University Medical Center

¹ Effective September 2003.

² Effective June 2003.

³ Through August 2003.

International Committee for Contraception Research

Elof D.B. Johansson
Chairperson
Population Council

Sheldon J. Segal
Chairperson Emeritus
Population Council

Francisco Alvarez-Sanchez
PROFAMILIA, Dominican Republic

Philippe Bouchard
Hôpital Saint-Antoine, France

Vivian Brache
PROFAMILIA, Dominican Republic

Horacio B. Croxatto
Instituto Chileno de Medicina Reproductiva

Ian Stewart Fraser
University of Sydney, Australia

Anna Glasier
Lothian Primary Care, National Health
Service Trust, United Kingdom

Takeshi Maruo
Kobe University, Japan

Daniel R. Mishell, Jr.
University of Southern California

Eberhard Nieschlag
University of Münster, Germany

Gita Ramjee
Medical Research Council, South Africa

Christina Wang
Harbor-UCLA Medical Center

Social Sciences Fellowship Committee

Ronald R. Rindfuss
Chairperson
University of North Carolina, Chapel Hill

Jane Menken
University of Colorado, Boulder

Mark Pitt
Brown University

FELLOWS

Well-qualified professionals are needed throughout the world to address population and development issues. Strengthening this professional base is an integral part of the Population Council's mission. The Council's long-standing fellowship programs have helped advance the careers of more than 2,400 social and biomedical scientists, many of whom have gone on to hold leadership positions in the population field. The work of these fellows has enhanced the Council's role in informing the development of population policy and programs and fostering research.

The Council's biomedical fellowship program, administered by the Center for Biomedical Research, brings postdoctoral fellows to the center to conduct research in reproductive biology and immunology and product development. The Christopher Tietze Fellowship in Reproductive Epidemiology provides one year of funding for research on morbidity and mortality associated with fertility-regulation methods and their delivery, as well as other health topics such as unsafe abortion, maternal mortality, and reproductive health.

The International Programs Division administers two fellowship programs in Vietnam and supports fellows in other developing countries who are linked to specific projects within the division. These fellows are selected on a competitive basis within particular regions, countries, or institutions. One of the Vietnam

fellowship programs supports highly qualified Vietnamese health professionals in obtaining the master of public health degree in the United States, and a newer program provides master's degree training in reproductive health, sexuality, and the social sciences. Fellowships under both programs are for two years; upon completion of their studies, fellows are expected to return to Vietnam and work for institutions there.

ME Awards, offered through the Middle East Research Awards Program in Population and the Social Sciences, support interdisciplinary studies and professional development for scholars in that region.

Population Council fellowships in the social sciences, administered by the Policy Research Division, support one year of work leading to a doctoral degree, one year of midcareer training in the population field, or up to two years of postdoctoral research. Awards are made only to applicants whose proposals focus on the developing world. The Ghana fellows conduct one year of predoctoral or postdoctoral research in family planning and demography at the Navrongo Health Research Centre in Ghana.

The fellowship programs are supported by private foundations, the U.S. government, individuals, and the Council itself. The Council's Web site—www.popcouncil.org—provides detailed information on Council fellowships.

BIOMEDICAL FELLOWS

Fellows conduct research at the Center for Biomedical Research. Institutions listed are those with which fellows were affiliated before joining the Council.

Asia

China

Qiang Dong. Lecturer and attending surgeon, Western China University, Chengdu. Analysis of steroidogenic function in mouse Leydig cells during stress.

Li-Qiang Fan. Postdoctoral fellow, Shanghai Institute of Biochemistry, Chinese Academy of Sciences, and East China University of Science and Technology. Study of molecular mechanism of male reproductive hormone action using a transgenic mouse experimental model system.

Haiyan Huang. Postdoctoral fellow, Peking Union Medical College, Beijing. Transcriptional regulation in male germ cells.

Li Huang. Resident physician, Shanghai Second Medical University. Genetic analysis of the function of a thioredoxin-like sperm protein in knockout mice.

Jifan Li. Postdoctoral fellow, Biomaterials Research Unit, Department of Chemical Engineering and Applied Chemistry, Aston University, Birmingham, United Kingdom. Identification and modification of Carraguard® using chemical methods.

Hui-Juan Shi. Lecturer, Department of Biochemistry, East China University of Science and Technology, Shanghai. Cloning and functional analysis of thioredoxin-like and CD20-related novel rat sperm protein genes: Potential fertility control agents.

Guimin Wang. Postdoctoral fellow, Department of Obstetrics/Gynecology, University of Uppsala, Sweden. Postnatal differentiation of Leydig cells in the insulin-like growth factor-1 deficient mouse.

India

Anil Kumar Pillai. Postdoctoral fellow, M.S. University of Baroda, Vadodara. Characterization of mechanisms controlling basal and activin-stimulated expression of follicle-stimulating hormone in pituitary gonadotrope cells.

Israel

Margarita Vigodner. Postdoctoral fellow, Tel Aviv University. Characterization of lipid transfer START domain proteins in male germ cells.

Japan

Tomomoto Ishikawa. Postdoctoral fellow, Kobe University School of Medicine. Interleukin-regulated gene expression in Sertoli cells.

Europe

Germany

Anke Diemert. Predoctoral fellow, University of Luebeck School of Medicine. Hormone therapy and steroid regulation of human breast cells.

Italy

Silvia Peretti. Predoctoral fellow, Istituto Superiore di Sanità, Rome. Virus modulation of dendritic cell function that drives HIV infection instead of immune activation.

Russia

Natalia Teleshova. Postdoctoral fellow, Division of Neurology, Karolinska Institute, Huddinge University Hospital, Stockholm, Sweden. Modes of communication between novel dendritic cell subsets and immunodeficiency virus in the SIV-macaque system to improve vaccines.

INTERNATIONAL PROGRAMS DIVISION FELLOWS

Africa

Uganda

John Frank Mugisha. Operations research on the global development and coordination of capacity building and economic research (Frontiers in Reproductive Health country fellow).

Asia

Vietnam

The following Vietnam fellows are studying toward the M.P.H. at the institutions listed.

Bui Quang Vinh. Harvard University.

Dao Thanh Huyen. Johns Hopkins University.

Dao Thi Diep Quyen. Boston University.

Dinh Thuan An. Harvard University.

Ha Anh Duc. Harvard University.

Huynh Quoc Hieu. University of North Carolina, Chapel Hill.

Le Ngoc Dien. University of North Carolina, Chapel Hill.

Le Quang Duong. University of Illinois, Chicago.

Le Thi Phuong Mai. University of Massachusetts, Amherst.

Le Thuy Lan Thao. University of Washington, Seattle.

Le Anh Tuan. Columbia University.

Nguyen Hong Chuong. University of California, Berkeley.

Nguyen Dinh Cuong. University of Pittsburgh.

Nguyen Thi Thanh Ha. University of Illinois, Chicago.

Nguyen Le Hai. University of Illinois, Chicago.

Nguyen Thi Lan Hoa. Harvard University.

Nguyen Duc Minh. University of Washington, Seattle.

Nguyen Kim Xuan Nam. University of Alabama.

Nguyen Cong Nghia. University of North Carolina, Chapel Hill.

Nguyen To Nhu. University of California, Los Angeles.

Nguyen Ngoc Thang. Boston University.

Nguyen Ngoc Thieu. Boston University.

Nguyen Xuan Thuy. University of Pittsburgh.

Nguyen Viet Xuan. University of Alabama.

Pham Thi Chinh. University of Washington, Seattle.

Pham Dinh Hoa. Boston University.

Pham Quoc Hung. Boston University.

Pham Van Phuoc. University of California, Los Angeles.

Phan Thi Thu Ha. University of Washington, Seattle.

Phung Thi Thanh Tu. University of Washington, Seattle.

Phung Thi Thuy Van. Boston University.

Quach Thi Bich Lien. Brown University.

Thai Thanh Thu. Tulane University.

Tran Phuc Hau. Emory University.

Tran Khanh Van. University of Massachusetts, Amherst.

Trinh Thu Hang. Emory University.

Vu Van Chinh. Emory University.

Vu Quynh Nga. Harvard University.

Vu Cong Nguyen. Brown University.

Vu Ngoc Phinh. Boston University.

The following Vietnam fellows are studying toward master's degrees in reproductive health, sexuality, and the social sciences at the institutions listed.

Bui Thi Thanh Thuy. University of Amsterdam.

Duong Khanh Van. London School of Hygiene and Tropical Medicine.

Hoang My Dung. Columbia University.

Huynh Nam Phuong. London School of Hygiene and Tropical Medicine.

Khuat Thi Hai Oanh. London School of Hygiene and Tropical Medicine.

La Manh Cuong. San Francisco State University.

Le Van Dien. Boston University.

Nguyen Thi Quynh Anh. San Francisco State University.

Nguyen Tran Lam. University of Amsterdam.

Nguyen Thi Thu Lan. San Francisco State University.

Nguyen Thi Thu Nam. University of Amsterdam.

Nguyen Trong Nam. Columbia University.

Nguyen Hong Phuong. Emory University.

Pham Thi Thanh Hang. London School of Hygiene and Tropical Medicine.

Pham Hong Hanh. University of Amsterdam.

Phan Thi Thu Hien. University of Amsterdam.

Tong Hoai Nam. Harvard University.

Tran Thi Thu Ha. University of Melbourne.

Tran Thi Thu Hoang. University of Melbourne.

Tran Thi Kim Oanh. University of Melbourne.

Trinh Van Thang. University of North Carolina, Chapel Hill.

Vu Hong Phong. University of Amsterdam.

MEAWARDS

Africa

Egypt

Rabab Abdulhadi, *Cairo*. Post-Oslo identification patterns and collective action of Palestinian refugees in Lebanon.

Hibba Abugideiri, *Cairo*. Egyptian women and science: Gender in the making of colonized medicine, 1893–1929.

Ghada Boutros, *Cairo*. Coptic immigrant churches: A “piece from home” away from home.

Ahmed El Hamalawi, *Giza*. Producing a prototype of a tool to prevent dust from harming the health of upholsterers (Culture and Health Awards Program).

Noha El Naggari, *Alexandria*. Designing a glossary of medical terms related to maternal and child health in Aswan Governorate (Culture and Health Awards Program).

Iman El Tahlawi, *Cairo*. Nutritional patterns of Egyptian women (Culture and Health Awards Program).

Anita Fabos, *Cairo*. Egyptian perceptions of forced migrants in Cairo: National identity and hosting the “other.”

Gihan Farag, *Cairo*. Producing an educational video film entitled “An Extraordinary Day” (Culture and Health Awards Program).

Elham Fateem, *Sahafeen*. Producing a handbook for media professionals to correct health-related messages and stereotypes (Culture and Health Awards Program).

Fuad M. Hassanen, *Aswan*. Raising health awareness of the local community in Abu Haga’s village (Culture and Health Awards Program).

Yaser Helmi, *Nasr City*. Designing an Arabic reproductive health Web site for Egyptian youth (Culture and Health Awards Program).

Sami Hossam, *Cairo*. Producing a six-minute video film on smoking (Culture and Health Awards Program).

Mahmoud Mansour, *St. Katherine*. Research on drying food and vegetables in Sinai following the Bedouin traditional way (Culture and Health Awards Program).

Seham Nasser, *Cairo*. Producing a poster and two cartoon films on the abuse of medications (Culture and Health Awards Program).

Gamal Youssef, *Oena*. An education kitchen in two kindergartens in Oena (Culture and Health Awards Program).

Morocco

Mehdi Lahlou and *Claire Escoffier*, *Rabat*. New migrants and new strategies: From sub-Saharan countries to Europe through Maghreb.

Zeinab Mi’adi, *Casablanca*. The double tattoo on the rural female body: New reading of the reality of rural women and their aspirations and integration in development.

Kholoud Sebai, *Rabat*. Identity and the body: A psycho-social study of rural women’s perception of urban women in Jiballa.

Sudan

Sahar El Faki, *Khartoum*. NGOs’ development impact on internally displaced persons.

Tunisia

Abdel Wahab Ben Hafaideh, *Tunis*. Students’ mobility, new destinations, and alternative mobility: The case of Tunisian students after September 11, 2001.

The Americas

United States

Ozlem Atlan, *New York*. The American third world: Globalization and local acculturation of the elite in the Middle East.

Volkan Aytar, *New York*. Tourism and entertainment establishments in Istanbul: How to create synergies.

Koray Calishan, *Brooklyn, NY*. Locating the market in the age of neoliberal reforms: Cotton trade and production in Egypt and Turkey.

Nejat Dinc, *Palo Alto, CA*. Reimagining the nation in the age of globalization: Rural environmental movements and conflicts over development in Turkey.

Cihan Tugal, *Ann Arbor, MI*. Migration, culture, religion, and the making of urban hierarchies.

Bayram Unal, *Binghamton, NY*. Moldovan illegal migrant workers in Istanbul, Turkey: The “ethnic division of labor” within the informal economy.

Nazan Ustundag, *Bloomington, IN*. Alternative modernities: The case of migrant women in Turkey.

Asia

Palestine

Najwa Rizkallah, Jerusalem.

Reproductive history and coronary heart disease risk factors among Palestinian women.

Lisa Taraki, Birzeit. Urban and class dynamics in Palestine.

Livia Wick, Ramallah. Childbirth in Palestinian oral history: The transformation of health practices and politics.

Saudi Arabia

Muna El Tahir, Riyadh. Community participation in housing and urban development, Khartoum.

Turkey

Ayhan Kaya, Istanbul. Identity formation and articulation among the Circassian diaspora in Turkey: A comparative study in Istanbul, Samsun, and Kayseri.

Nuri Zafer Yenil and Caglar Keyder, Istanbul. Agrarian change under globalization: Postnational paths of rural transformation.

Murat Yuksel, Istanbul. Forced migration of Kurds and the politics of internal displacement in the making of modern Turkey.

Europe

United Kingdom

Samer Bagaen, London. The impact of a sudden and unplanned influx of people on the condition of the built environment in historic cities: Going back to the old city of Jerusalem.

Njia Bahubashi, Liverpool.

Assessment of quality of care and use of family planning services in Sana'a city (Yemen).

Baris Karapinar, London. Rural transformation in Turkey: Relative viability of small-scale family production in agriculture from 1980 to 2003.

Kerem Oktem, Oxford. Modernizing Turkey's periphery: The southeast Anatolia project, Sanliurfa and the production of fragmented urban spaces.

SOCIAL SCIENCE FELLOWS

Africa

Cameroon

Jean-Christopher Fotso. Study toward Ph.D. in population studies, University of Montreal.

Ethiopia

Muluye Desta. Study toward Ph.D. in demography, University of Southampton (Parker Mauldin fellow).

Ghana

Samuel Mills. Study toward Dr.PH. in public health, Johns Hopkins University.

Kenya

Daniel Omariba. Study toward Ph.D. in social demography, University of Western Ontario (Ritchie Reed fellow).

Malawi

Flora Nankhuni. Postdoctoral research in demography, University of Pennsylvania.

Zimbabwe

Ravai Marindo. Midcareer resident training in medical demography, Population Council, New York (Bernard Berelson fellow).

The Americas

Argentina

Georgina Binstock. Postdoctoral research in family demography, Centro de Estudios de Población, Argentina (Parker Mauldin fellow).

Canada

Caroline Archambault. Fieldwork toward Ph.D. in anthropological demography, Brown University.

Mexico

Vladimir Canudas-Romo. Postdoctoral research in demography, Pennsylvania State University, University Park (DeWitt Wallace fellow).

United States

Barbara Lacey Andrews. Fieldwork toward Ph.D. in anthropological demography, Brown University (DeWitt Wallace fellow).

Sunita Bose. Study toward Ph.D. in sociology, State University of New York, Albany.

Mara Leichtman. Fieldwork toward Ph.D. in anthropological demography, Brown University.

Sara Peracca. Postdoctoral resident training in sociology, Population Council, New York (Bernard Berelson fellow).

Catherine Stiff. Study toward Ph.D. in social demography, Brown University.

Colin West. Fieldwork toward Ph.D. in anthropology, University of Arizona.

Asia

Cambodia

Bunnak Poch. Postdoctoral research in sociology, University of Chicago.

India

Farzana Afridi. Fieldwork toward Ph.D. in economics, University of Michigan, Ann Arbor.

Japan

Toshiko Kaneda. Postdoctoral resident training in sociology, Population Council, New York (Bernard Berelson fellow).

Lebanon

Michelle Obeid. Fieldwork toward Ph.D. in social anthropology, London School of Economics.

Mongolia

Gereltuya Altankhuyag. Study toward Ph.D. in social statistics, University of Southampton (Parker Mauldin fellow).

Pakistan

Nasim Haque. Study toward Dr.PH. in public health, Johns Hopkins University.

Philippines

Socorro Gultiano. Midcareer training in population studies, University of North Carolina, Chapel Hill.

Thailand

Wassana Im-Em. Postdoctoral research in population studies, University of Washington, Seattle.

Bussarawan Teerawichitchainan. Study toward Ph.D. in sociology, University of Washington, Seattle.

Vietnam

Giang Minh Le. Fieldwork toward Ph.D. in medical anthropology, Columbia University.

Europe

Italy

Joost DeLaat. Study toward Ph.D. in gender and development, Brown University (Ritchie Reed fellow).

Ghana Fellows: Navrongo Health Research Centre

Ghana

Philip Baba Adongo. Postdoctoral research on the Community-based Health Planning and Services initiative (Mellon fellow).

Ayaga A. Bawah. Postdoctoral research in the Navrongo Demographic Surveillance System to oversee fieldwork, research, and computing activities (Mellon fellow).

Cornelius Debpuur. Postdoctoral research in adolescent sexual and reproductive health (Rockefeller fellow).

Malawi

Henry Doctor. Postdoctoral research on the Community-based Health Planning and Services initiative (Mellon fellow).

Nigeria

Kayode O. Egbeye. Postdoctoral research in communications science (Mellon fellow).

United States

Reshma Naik. Predoctoral research in reproductive health issues (Mellon fellow).

Maya Vaughan-Smith. Predoctoral research in reproductive health issues, Nkwanta Health Development Centre, Ghana (Mellon Ghana fellow).

AWARDS AND CONTRACTS

Awards and contracts are an important means through which the Population Council conducts research, transfers technology, and strengthens institutional capacity within the population field. For more than five decades, the Council has collaborated with governments, universities, hospitals, research centers, other nongovernmental organizations, and individuals in most countries of the developing world. Much of the Council's work is carried out through such collaboration. In 2003, awards and grants went to 141 institutions in 44 countries, most of them in Africa, the Americas, and Asia.

AFRICA

Burkina Faso

Mwangaza Action, Ouagadougou

L'Unité d'Enseignement et de Recherche en Démographie, Ouagadougou

University of Ouagadougou

Egypt

Cairo Demographic Center, Cairo

Egyptian Society for Population Studies and Reproductive Health, Cairo

Save the Children, Cairo

Ethiopia

Family Guidance Association of Ethiopia, Addis Ababa

Ghana

Ghana Health Service, Accra

Health Research Unit, Ministry of Health, Accra

Navrongo Health Research Centre

Regional Institute for Population Studies, Legon

University of Cape Coast

Volta Regional Health Administration, Ho, Volta Region

Kenya

Institute of African Studies, University of Nairobi, Nairobi

International Centre for Reproductive Health, Mombasa

Network of AIDS Researchers of Eastern and Southern Africa, Nairobi

Regional AIDS Training Network, Nairobi

Mali

Association Malienne de Soutien aux Activités de Population, Bamako

Association Malienne pour la Promotion et Protection de la Famille, Bamako

Coopérative des Femmes pour l'Éducation, la Santé Familiale et l'Assainissement, Bamako

Senegal

Centre de Formation et de Recherche en Santé de la Reproduction, Dakar

Centre Régional "Paul Correa" de Formation sur les MST et le SIDA, Dakar

Réseau Africain de Recherche sur le SIDA, Dakar

South Africa

Clacherty and Associates Education and Social Development (Pty) Ltd., Auckland Park

Living in Hope, Germiston

Medical Research Council, Durban

Medical Research Council, Tygerberg
Medical University of Southern Africa, Ga-Rankuwa

Nanini 273CC Trading as Development Research Africa, Durban

Pandamonium Productions, Auckland Park

Reproductive Health Research Unit, Johannesburg

University of Cape Town

University of Natal, Durban

Tanzania

Muhimbili University College of Health Sciences, Dar es Salaam

Tunisia

Office National de la Famille et de la Population, Tunis

Uganda

Makerere University, Kampala

National Agricultural Research Organisation, Entebbe

Zambia

Central Board of Health, Lusaka

Development Aid from People to People, Zambia, Ndola

Institute of Economic and Social Research, Lusaka

National AIDS/STDs/TB and Leprosy Control Programme, Central Board of Health, Lusaka

Zimbabwe

Project Support Group, Harare

Regional Psychosocial Support Initiative, Bulawayo

THE AMERICAS

Bolivia

Programa de Coordinación en Salud Integral, La Paz

Taller de Historia y Participación de la Mujer, La Paz

Brazil

Associação Brasileira de Pós-Graduação em Saúde Coletiva, Rio de Janeiro

Centro de Estudos Augusto Leopoldo Ayrosa Galvão, São Paulo

Centro de Pesquisas e Controle das Doenças Materno-Infantis de Campinas, São Paulo

Instituto Fundação Projecto Mundial Para Órfãos—PROMUNDO, Rio de Janeiro

Sociedade de Estudos e Pesquisas em Drogadicção, Rio de Janeiro

Canada

University of British Columbia, Vancouver

Chile

Instituto Chileno de Medicina Reproductiva, Santiago

Colombia

Fundación Educación para la Salud Reproductiva, Bogotá

Dominican Republic

Asociación Dominicana Pro-Bienestar de la Familia, Santo Domingo

Centro de Orientación e Investigación Integral, Santo Domingo

Centro de Promoción y Solidaridad Humana, Puerto Plata

Ecuador

Centro Médico de Orientación y Planificación Familiar, Quito

Guatemala

Asociación Guatemalteca de Mujeres Médicas, Guatemala City

Asociación Pro Salud Preventiva para la Mujer "Vivamos Mejor," Guatemala City

Centro de Investigación Epidemiológica en Salud Sexual y Reproductiva, Soatán

Honduras

Asociación Hondureña Mujer y Familia, Marie Stopes, San Pedro Sula

Asociación Hondureña de Planificación de Familia, Tegucigalpa

Mexico

Federación Mexicana de Asociaciones Privadas de Salud y Desarrollo Comunitario, AC, Ciudad Juárez

Peru

Centro de Información y Educación para la Prevención del Abuso de Drogas, Miraflores

Escuela de Administración de Negocios para Graduados, Lima

United States

The Aaron Diamond AIDS Research Center, New York, NY

Duke University, Durham, NC

EngenderHealth, New York, NY

Family Health International, Research Triangle Park, NC

Gynuity Health Projects, LLC, New York, NY

Health Research Association of the Los Angeles County/University of Southern California Medical Center, Los Angeles, CA

The Milton S. Hershey Medical Center, The Pennsylvania State University, Hershey, PA

Ibis Reproductive Health, Inc., Cambridge, MA

International Center for Research on Women, Washington, DC

Ipas, Chapel Hill, NC

Johns Hopkins University, Baltimore, MD

The Miriam Hospital, Providence, RI
Program for Appropriate Technology in Health, Seattle, WA

Reproductive Health Technologies Project, Washington, DC
Tulane University, New Orleans, LA
University of California, San Francisco, CA
University of Chicago, IL
University of Connecticut Health Center, Farmington, CT
University of Illinois at Urbana-Champaign, Champaign, IL
University of Rochester, NY
University of South Carolina, Columbia, SC

ASIA

[Bangladesh](#)

Bangladesh Institute of Development Studies, Dhaka
Bangladesh Rural Advancement Committee, Dhaka
Mitra and Associates, Dhaka
National Institute of Population Research and Training, Dhaka

[China](#)

Xuanwu Hospital, Beijing

[India](#)

All India Institute of Medical Sciences, New Delhi
Centre for Operations Research and Training, Vadodara
Child-In-Need Institute, West Bengal
Christian Medical College and Hospital, Tamil Nadu
Committee of Resource Organisations for Literacy, Mumbai

Deepak Charitable Trust, Baroda
Foundation for Research in Health Systems, Ahmedabad
Garhwal Community Development and Welfare Society, Uttaranchal
Institute of Economic Growth, Delhi
International Institute for Population Sciences, Mumbai
K.E.M. Hospital Research Centre, Pune
Mahila SEWA Trust, Ahmedabad
Parivar Seva Sanstha, New Delhi
SAHAI Trust, Tamil Nadu
Sarojini Naidu Medical College, Agra
Self-Employed Women's Association, Ahmedabad

SHARAN—Society for Service to Urban Poverty, New Delhi
Taylor Nelson Sofres Mode Pvt. Ltd., New Delhi
Y.R. Gaitonde Centre for AIDS Research and Education, Chennai

[Iran](#)

Hamyaran NGO Resource Center, Tehran

[Israel](#)

Shaare Zedek Medical Center, Jerusalem

[Lebanon](#)

American University of Beirut

[Myanmar](#)

Department of Health, Yangon
Department of Medical Research, Yangon

[Nepal](#)

Center for Research on Environment Health and Population Activities, Kathmandu
Institute for Social and Gender Equality, Kathmandu

[Pakistan](#)

Ziauddin Medical University, Karachi

[Thailand](#)

Chiang Mai University, Chiang Mai
Thai Population Association, Bangkok
Thailand Business Coalition on AIDS, Bangkok

[Turkey](#)

Istanbul University, Istanbul

[Vietnam](#)

Center for Population Studies and Information, Hanoi
Counseling Center for Psychological Education, Love, Marriage and Family, Ho Chi Minh City
Hung Vuong Hospital, Ho Chi Minh City
Institute for the Protection of Mother and Newborn, Hanoi
Institute of Sociology, Hanoi
International Language Academy Vietnam, Ho Chi Minh City

EUROPE

[France](#)

Center for Training in Reproductive Health Technologies, Paris
Groupe de Recherche en Reproduction, Hôpital Saint-Antoine, Paris

[Germany](#)

Institute of Reproductive Medicine of the University of Münster

[Latvia](#)

Latvijas Ģimenes Plānošanas un Seksuālās Veselības Asociācija "Papardes Zieds," Riga

[Netherlands](#)

Centre for Human Drug Research, Leiden
International Antiviral Therapy Evaluation Center, Amsterdam

[Sweden](#)

Institute for Kvinnors och Barns Halsa, Stockholm

[United Kingdom](#)

Centre for Reproductive Biology, Edinburgh
International HIV/AIDS Alliance, London
London School of Hygiene and Tropical Medicine
Medical Research Council, London

OCEANIA

[Australia](#)

Centre for Reproductive Health Research, Sydney
Centre for Virus Research, Westmead Millennium Institute, Sydney

FINANCIAL REPORT

In 2003, the Population Council recorded expenditures of \$73.3 million and continued to receive strong support from a broad range of donors. Even though overall expenditures were down by 1.2 percent from 2002, the Council was successful in controlling the management and general expenditures, which amounted to 15 percent of total operating expenses, as in 2002. The proportion used for program services, that is, research, technical assistance, and capacity building, remained at 84 percent.

The Statement of Activities indicates a decline from 2002 to 2003 in grants and gifts, which primarily reflects the receipt in the earlier year of multi-

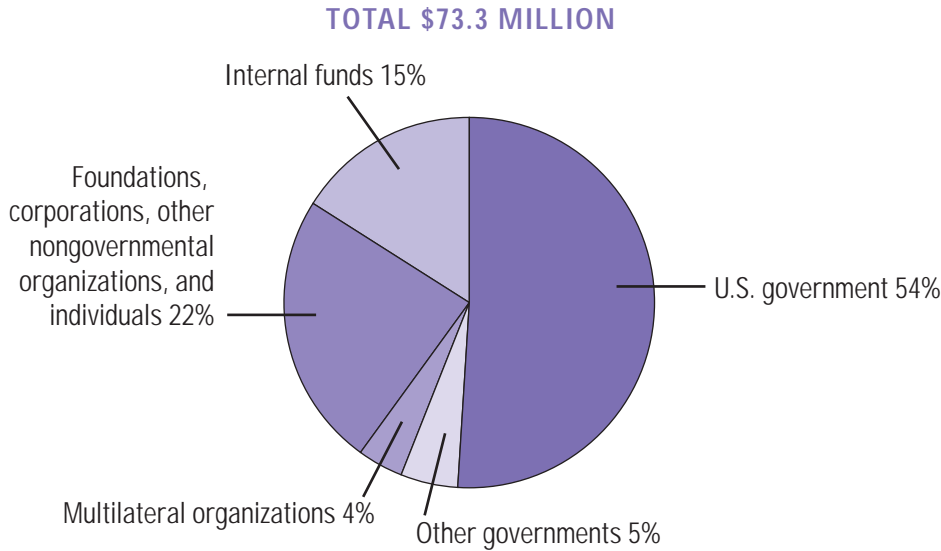
year funding for clinical trials of a microbicide to prevent the sexual transmission of HIV.

Operating expenses of the International Programs Division were down by 8.5 percent, but those of the Center for Biomedical Research were up \$1.94 million or 12.3 percent. The expenditures of the Policy Research Division also increased.

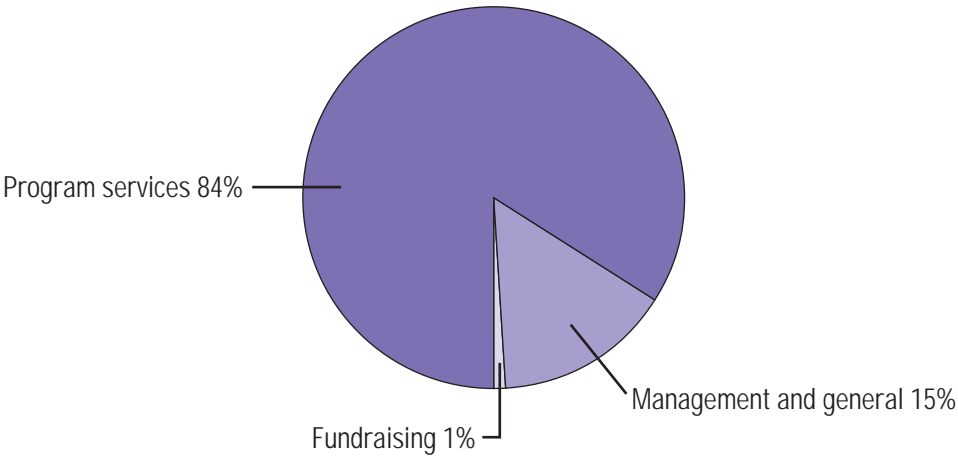
On the Balance Sheet, investments, including the John D. Rockefeller 3rd Memorial Fund, enjoyed a healthy bounce back from the stock market decline in recent years.

The following pages present summary financial statements and a list of the generous donors whose funds supported the Council's activities in 2003.

SOURCES OF SUPPORT FOR 2003 ACTIVITIES



USES OF FUNDS IN 2003



Statement of Activities

For the year ended December 31, 2003 with comparative totals for 2002 (in thousands of dollars)

	Unrestricted			Total		
	General and fixed assets	John D. Rockefeller 3rd Memorial Fund and other	Temporarily restricted	Permanently restricted	2003	2002
OPERATING REVENUE						
Grants and gifts	1,972		46,269	768	49,009	82,629
Royalties	4,910				4,910	5,301
Other operating revenue	288	866	406		1,560	(4,131)
Net assets released from restrictions	61,085		(61,085)			
TOTAL OPERATING REVENUE	68,255	866	(14,410)	768	55,479	83,799
OPERATING EXPENSES						
PROGRAM SERVICES						
International Programs Division	36,014				36,014	39,340
Center for Biomedical Research	17,653				17,653	15,713
Policy Research Division	5,839				5,839	5,636
Distinguished Colleagues	392				392	474
Publications	1,468				1,468	1,436
TOTAL PROGRAM SERVICES	61,366				61,366	62,599
SUPPORTING SERVICES						
Management and general	10,918	251			11,169	10,913
Fundraising	730				730	658
TOTAL SUPPORTING SERVICES	11,648	251			11,899	11,571
TOTAL OPERATING EXPENSES	73,014	251			73,265	74,170
(Deficiency) excess of operating revenue over operating expenses	(4,759)	615	(14,410)	768	(17,786)	9,629
Transferred to/from endowment	(175)	175				
Net gain on sale of asset	9,457				9,457	
Net unrealized (loss) gain	(19)	12,121	2,454		14,556	(2,468)
INCREASE (DECREASE) IN NET ASSETS	4,504	12,911	(11,956)	768	6,227	7,161
NET ASSETS AT BEGINNING OF YEAR	7,550	51,227	95,965	4,150	158,892	151,731
NET ASSETS AT END OF YEAR	12,054	64,138	84,009	4,918	165,119	158,892

Balance Sheet

December 31, 2003 and 2002 (in thousands of dollars)

	2003	2002
ASSETS		
Cash and investments	110,114	100,616
Grants and gifts receivable	57,219	63,435
Other assets	5,381	3,907
Fixed assets, net	13,929	14,423
TOTAL ASSETS	186,643	182,381
LIABILITIES AND NET ASSETS		
LIABILITIES		
Accounts payable and accrued expenses	3,584	4,408
Awards, contracts, and fellowships payable	10,282	11,953
Other liabilities	7,658	7,128
TOTAL LIABILITIES	21,524	23,489
NET ASSETS (DEFICIT)		
Unrestricted		
General	(1,875)	(6,873)
Invested in fixed assets	13,929	14,423
John D. Rockefeller 3rd Memorial Fund and other	64,138	51,227
Temporarily restricted	84,009	95,965
Permanently restricted	4,918	4,150
TOTAL NET ASSETS	165,119	158,892
TOTAL LIABILITIES AND NET ASSETS	186,643	182,381

A complete set of financial statements audited by KPMG LLP can be obtained by writing to the Council Treasurer.

SOURCES OF SUPPORT FOR 2003

The Population Council is fortunate to have the valued support of the governments, multilateral organizations, foundations, and individuals listed below. Their generous contributions—including multi-year funding awards made in prior years—sustain and make possible activities such as those highlighted in this 2003 Annual Report and other initiatives that are advancing the Council's mission to improve human well-being.

The Council relies on a relatively small but critical pool of unrestricted funds to explore emerging trends as well as innovative approaches to enduring problems. Unrestricted support is crucial to the practical application of Council research in the design of health technologies and products, service delivery programs, and public policies responsive to the needs of people in the world's poorest countries. Yet, unrestricted operating funds always are the most difficult to raise. Today's economic climate makes securing such resources all the more challenging.

Unrestricted gifts provide the flexibility to cover any shortfalls in current projects. They also provide core support for the broad dissemination of research results to policymakers, program managers, and others concerned with population issues. Such resources have provided essential seed funding for some of the Council's highest-profile research. Proving the validity of a promising approach more often than not is the most crucial step toward securing substantial, next-phase funding from public and private sources. For example, unrestricted funds used six

years ago to launch research on the enormous potential of the world's 1.2 billion young people ages 15 to 24 have spurred field-based projects in Bangladesh, Burkina Faso, Egypt, Guatemala, India, Kenya, Mali, Pakistan, South Africa, and Vietnam. A wide array of activities are being undertaken to help young people emerge as healthy, informed adults with the productive skills needed to be full participants in work, family, and community life. Unrestricted funds have also been instrumental to Council research on such intensifying concerns as the AIDS pandemic, urban growth in developing countries, and population aging in both rich and poor countries.

Cash contributions in support of the Population Council's research can be made by check or credit card as well as online at www.popcouncil.org/supporting/supporting.html. The Council also welcomes gifts of appreciated securities, bequests, charitable remainder and lead trusts, and designations of the Council as beneficiary of insurance policies or pension plans. Your financial or tax advisor is the best source of guidance on giving options that can best serve your financial and philanthropic objectives. All contributions to the Council are tax deductible in the United States, and every gift, regardless of the amount, can help make a positive difference.

Contributions or requests for further information should be sent to Ruth Kalla Ungerer, Director of Development, Population Council, One Dag Hammarskjold Plaza, New York, NY 10017 (212-339-0515 or rungerer@popcouncil.org).

GOVERNMENTS AND GOVERNMENTAL AGENCIES

Government of Australia
Government of Canada
— Canadian International Development Agency
— International Development Research Centre
Government of Denmark
Government of Japan
— Japanese International Cooperation Agency
Government of the Netherlands
Government of New Zealand
Government of Norway
Government of the United Kingdom
— Department for International Development
Government of the United States
— Agency for International Development
— National Institutes of Health
— National Science Foundation
Government of Vietnam
— Ministry of Health

MULTILATERAL ORGANIZATIONS

European Union
Joint United Nations Programme on HIV/AIDS (UNAIDS)
United Nations Children's Fund (UNICEF)
United Nations Population Fund (UNFPA)
The World Bank
World Health Organization

FOUNDATIONS, CORPORATIONS, AND OTHER NONGOVERNMENTAL ORGANIZATIONS

Anonymous (2)
American University of Beirut
The Fred H. Bixby Foundation
Cornell University
Defined Health
The Dickler Family Foundation
Duke University
Eastern Virginia Medical School
EcoTrust
EngenderHealth
Family Health International
The Ford Foundation

Bill & Melinda Gates Foundation
General Service Foundation
Elizabeth Glaser Pediatric AIDS Foundation
Gynuity Health Projects, LLC
The Lita Annenberg Hazen Foundation
The William and Flora Hewlett Foundation
The William Talbot Hillman Foundation
Institute for Population and Social Research, Mahidol University
International Council on Management of Population Programmes
George Frederick Jewett Foundation
F. M. Kirby Foundation
The Libra Foundation
The John D. and Catherine T. MacArthur Foundation
Macro International Inc.
The Abby R. Mauzé Trust
The Andrew W. Mellon Foundation
The Moriah Fund
The Noopolis Foundation
Open Society Institute
The David and Lucile Packard Foundation
The Parthenon Trust
Pathfinder International
Polisher Research Institute
Population Reference Bureau

Population Services International
Princeton University
Program for Appropriate Technology in Health
The Rockefeller Foundation
The Blanchette Hooker Rockefeller Fund
The Rockefeller University
Roger and Vicki Sant Fund of The Community Foundation for the National Capital Region
Save the Children, Inc.
The Spencer Foundation
Stanford University
Sidney Stern Memorial Trust
The Summit Foundation
United Nations Foundation
University of California, Berkeley
University of California, Davis
University of California Institute for Mexico and the United States
University of Michigan
University Research Co., LLC
The Warren F. Weck, Jr. Charitable Trust
The Mildred Wohlford Fund of the Tides Foundation, on the recommendation of Mr. Jude Damasco and Ms. Mardi Kildebeck
The Woodcock Foundation

COUNCIL ENDOWMENT FUNDS

Center for Biomedical Research Endowment
The George J. Hecht Fund
New Capital Fund
Policy Research Division Endowment
The John D. Rockefeller 3rd Memorial Fund
Christopher Tietze Fellowship Endowment Fund

SPECIAL GIFTS TO THE ENDOWMENTS

The Fred H. Bixby Foundation
John and Zenaida Bongaarts
Anne E. Donadeo
Barbara B. Ebert
The William and Flora Hewlett Foundation
Linda G. Martin
The Andrew W. Mellon Foundation
Julie A. Robichaud
James M. and Carol Tuite
Ruth Kalla and Richard A. Ungerer

INDIVIDUAL DONORS AND FAMILY FOUNDATIONS

\$10,000 AND ABOVE

Anonymous (2)
Donors to the Combined Federal Campaign
Virginia R. Glidden Charitable Lead Trust
Polly W. and John Guth
Charles D. and Jane Klein
Elizabeth J. McCormack and Jerry I. Aron
The Shenandoah Foundation
Ernest E. Stempel Foundation

\$5,000 – \$9,999

Anonymous (3)
Sheila Gamble Cook
Jan Ezra and Yvonne Petersen
Lynn A. Foster
Golden Family Foundation
Gumpel-Lury Foundation
Hotchkis Foundation
Abner Kingman
Linda G. Martin
Mark A. and Tania Walker

\$1,000 – \$4,999

Anonymous (1)
Sandra D. and Ethan D. Alyea, Jr.
Sandra P. and Lawrence Arnold
William L. Berg
John and Zenaida Bongaarts
Marna Broida and Ian Weiss
Charles S. Carignan
Evelyn C. Clarkson
Cowles Family Foundation
Sarah and Ben Crane
Sara E. and James E. Culhane
Peggy B. Danziger
Barbara B. Ebert
Ronald Freedman
Andrew L. Frey
Susannah T. Gardiner and David L. Kornblau

Barbara and James Gerson
Arthur and Carol W. Graham
Yoshio Hatano
Rafael G. Heller
DeWitt Hornor
Fred C. and Doris M. Iklé
Frances B. Jackson Fund of the Vanguard Charitable Endowment Program
William H. Kearns Foundation
Barbara C. Lachelt
Christian R. Lehew
John M. and Renate E. Mirsky
Samarendranath and Rekha Mitra
Batya R. Monder
Virginia P. and Robert Montgomery
David and Janet Offensend
Ostgrodd Foundation
Mary C. Phinney
Helen M. Ranney
Alison J. Renner
Julie A. Robichaud
David Rockefeller
Felix G. and Elizabeth Rohatyn
The Seventh Street Fund of the Minneapolis Foundation
Vikki Sloviter
Cherida C. Smith
Sue S. Stewart
Lucy R. Waletzky
Dennis and Marion Weatherstone
Effie E. Westervelt
Rena J. Zieve and Greg J. Kuperberg

\$500 – \$999

Anonymous (1)
James R. and Louise C. Arnold
Ned W. Bandler
Andrew Boas
Alan Clarke
Jean M. Cluett
Edward M. Cohen
Peter J. and Nancy R. Donaldson
Strachan Donnelley
Glen M. Feighery
Robert W. Gillespie
Abby A. Gilmore
Gordon and Llura Gund
Guy Harris
Rachel and Michael Hines
John Hirschi
Ali Kouaouci
Margaret J. LeMaster
Nancy A. Marks
McBride Family & Aspen Business Center Foundation
Phil McWilliams
Constance Marks Miller
Michael and Joyce Rappoport
Jane P. Relyea and Robert Y. Welles
David M. and Ann Reynolds
Thomas Richie
Steven Schmitt
Paul C. Schwartz
Jutta R. Scott
Robert L. and Elizabeth H. Scott
Sylvia C. and Donald F. Stanat
Barbara H. Stanton
Claire Highan Thomas and Rees D. Thomas
The Westport Fund
Oliver Wolcott and Helen M. Wolcott

\$100 – \$499
Anonymous (4)
Rosalind S. Abernathy
Donald J. and Dena C. Abrams
Joel W. Ager
Lindsay S. Alger
Philip and Marjorie Appleman
F. Douglas Baker
William N. and Margaret E. Bancroft
Jonathan and Judith Baron
Helen W. Bastedo
Rachel G. Beck and Jeremy Naftel
John R. Birmingham
Caroline H. Bledsoe
Boorstein Family Fund
Sylvia Boris
Harriet B. Borton
Claire and John Bossung, Sr.
Robert R. and Theodosia C. Bowie
Penny R. Boyce
Eugenie Rowe Bradford
Lyman B. Brainerd
Harriet B. Brittain
Donald E. Bronkema
Leonard Broom
Alice C. Brown
Diane Bruce
Mary L. Bundy
John Burton
Jerry D. Busch
William R. and Martha Y. Campbell
Sarah A. Case and Robert K. Pelz
David Chandler
Paul F. Chaveriat
Thomas H. Clewe
Barber B. Conable, Jr.
Sean Connor
David C. Crafts
Christopher S. Cronan
Roberto Cuca
John C. and Eliese S. Cutler
Noel and Klancy de Nevers
Andrew YQ Ding
Jill H. and Morris Dixon, Jr.
Mary H. Dodge
Elvira Doman
David K. Donaldson, Jr.
Deborah Dugan and Edward M. Keating, Jr.
John L. Durr
Leon and Carola Eisenberg
Michael H. Elkin
John M. Ely, Jr.
Peter V. Erickson
Claire B. Ernhart and Edward Psotta
Joyce E. and Garold L. Faber
H. K. and Nancy W. Faulkner
Philip L. Ferro
Richard Friedberg
John A. Galbraith
Nancy J. Geiss
Kristina and William J. Georges
Marcella A. Gilmore and Edward S. Muehl
Robert F. Goheen
Mr. and Mrs. Homer B. Goldberg
June E. Grade
Robert Guliford
Demissie Habte
Suzanne H. Hampton
Aljean and Richard S. Harnetz
Dorothy Hawksley
Karen K. Hein

Mary W. and Peter S. Heller
Susan E. Hetherington
Douglas W. Holdridge
Frederick W. Hollmann
Merriman H. Holtz, Jr.
Thomas J. Hooley
David S. P. Hopkins
Richard R. and Elizabeth C. Howe
Jerrold W. Huguet
William P. Huxley, Jr.
Monwhea Jeng
Steven Jervis
Diane and Theodore R. Johnson, Jr.
Denis F. and Lois R. Johnston
Elise F. Jones
Tammy G. Kaehler
Martin D. Kahn
Audrey and Norman M. Kaplan
The Mike B. Keary Fund of Fidelity Investments Charitable Gift Fund
Deborah L. and Richard A. Keefe
Paul M. Killough
Leo R. Klohr and Judy Occhetti-Klohr
C. H. and Irene Lee
Sang-Keun Lee
Tom A. Lehrer
Edwin D. Leonard
Jack G. Levine and Jeanette W. Melley
Marion F. Levy
Katherine Lewis and Richard A. Chasman
Loknath Trust Fund of the Fidelity Investments Charitable Gift Fund
Luigi Mastroianni, Jr.
Peter J. Mayer
Louise H. McCagg
Julia S. Meyer
Frances B. and Harry K. Miller, Jr.
Geraldine P. and D. E. Mineau
Elsie P. Mitchell
Joseph H. Moreng, Jr.
Lloyd N. and Mary P. Morrisett
Stephen Q. Muth
Ann and William T. Naftel
Charles B. Nam
Murray L. and Belle C. Nathan
LeRoy E. and Anita L. Nelson
Robert L. Newton
Daniel Nixon
The Roger and Joyce Nussbaum Foundation
William E. O'Connor
Valerie K. Oppenheimer
Bradley Ormes
Harry Ostrer
Ruth Hyde Paine
L. Allen Parker
Suzannah C. Parker
Catherine Parks and David R. Loevner
Jeffrey S. Passel
Tomas J. Pavel
David W. K. Peacock, Jr.
Serena F. Pelissier
Richard B. and Ruth R. Philbrick
Clyde C. Phillips, III
John C. Pock
Margaret Poole
Robert T. Porter
Laura Quigg and Bjorn Flesaker
Frank and Victoria Radoslovich
John P. and Brenda L. Raphael
Habib Rathle
Edward C. and Phyllis C. Reinfranck

\$100 – \$499 *continued*

Josefo M. Reoma
Michael Rich and Debra Granfield
Esther Leah Ritz
Roger W. and Susan Rochat
Kenneth W. and Virginia J. Rogers
Ira Rosenwaik
Kenneth W. Ross
Penelope and Cornelius Rosse
Alice S. Rossi
Susan T. and George I. Rudnicki
Michael Saks and Roselle Wissler
Alexander Sanger
Nancy J. Schieffelin
Frederick H. Schmidt
Daniel L. and Lisbeth B. Schorr
F. Yvonne Schulman
Connie Schwarzkopf
Leslie J. Scott

Elizabeth W. and Ellery Sedgwick
William Seltzer
Martha H. Seneta
Cynthia L. Sevilla
Peter Sheldon
Lance Shoemaker
Lawrence P. Simms and Alison G. Ho
Peter Sinclair
Frank W. Sinden
Daniel S. Smith
John T. Smith
Marthe E. Smith
Carleton B. and Sylvia K. Spotts
Martha F. Steel
Jacob and Hilde R. Stempel
Craig Stine
Francis X. and Jacqueline Y. Sutton
Jerry D. Tate Foundation for the
Environment
Clifford W. and Mary K. Terry

Janet M. and Allen Throop
Harriet B. Todd
Michael J. and Marina Todd
Paul H. Todd
George P. Topulos and
Janet M. Pelerossi
William J. Towle
James M. and Carol Tuite
Richard B. Tweedy
Ruth Kalla and Richard A. Ungerer
Donors of the United Way of
America
S. Jean and Herman G. Van Der Tak
Judson J. and Persis Van Wyk
Norman and Kelley Verhoog
Shari Woods Villarosa
Tim Walter
Sloan R. and Mayneal M. Wayland
D. Reid Weedon, Jr.
Kim S. and Kathleen W. Wennesland

Martha G. Werle
Harris Weston
Linda B. Williams
Linda P. Williams
Robert V. and Maralys K. Wills
M. Kraemer Winslow
Ellen Wisdom and Robert L.
Griswold
Joel Wolcoski
Warren Wong
Tricia L. Wurtz
Barbara Yanni
Ellen W. Zegura
Colleen Zeitz and Kevin A.
Lindamood
H. Neil Zimmerman
The Margot and Paul Zimmerman
Fund of The Community
Foundation for the National
Capital Region

POLICY RESEARCH DIVISION ENDOWMENT CAMPAIGN

The Population Council offers special thanks once again to The Andrew W. Mellon Foundation for its generous \$1 million challenge grant to create an endowment to provide an ongoing funding stream for the Policy Research Division (PRD).

The division is a leading source for analysis of demographic patterns and trends. Its innovative methodologies bring the “big picture” into focus. Research on the relationship between population change and socioeconomic development generates knowledge that has practical application for policies and programs to improve human well-being. Fellowships build population research capaci-

ty worldwide. Former PRD fellows now occupy influential positions at leading population research and training institutions, government agencies, and non-governmental organizations throughout the world.

Gratitude also is extended to The William and Flora Hewlett Foundation, The Fred H. Bixby Foundation, and the friends and staff who have helped the Population Council make additional progress in 2003 toward meeting the Mellon challenge. Endowment gifts made between now and 2005 will be matched dollar for dollar, up to \$1 million. A total of \$345,000 remains to be raised.

CRITICAL COUNTRIES FUND

For the past half century, Population Council research has focused squarely on issues central to the well-being of individuals in the poorest countries and their daily struggle for survival. The Council has a core presence in Latin America and the Caribbean, Asia, Africa, and the Middle East. Currently, 18 Council offices within these regions support the work of over half of the Council’s research staff. Staff members hail from 38 countries. Their expertise ranges from biochemistry to medicine, public health, economics, and other social sciences. Their sustained on-the-ground presence has enabled the Council to build trust and establish effective collaborations with local government officials and nongovernmental organizations. Staff members identify evidence of what works in the real world, providing technical assistance and building capacity at the local level to develop and implement programs that improve lives.

At any given time one or more of the 70 countries in which the Council is working may reach a critical

juncture when the need for assistance is compelling yet resources are unavailable to sustain in-country Council research operations. Limited funds from general support contributions can sometimes provide stop-gap funding. However, the Council actually has had to end research in some countries because of the lack of sufficient funding. It is costly to move in and out of a country, and momentum is lost. Funds are being sought through the Critical Countries Fund to preclude curtailment of Council activities or the abandonment of critical research projects between grant cycles.

Our preference is to obtain gifts for the Critical Countries Fund as a whole, rather than gifts earmarked for specific countries. Having such a pool of funds will allow the Council to anticipate emerging problems and channel resources to where they are most needed. Current priorities include such countries as Cambodia, Ethiopia, Guatemala, and Pakistan.

POPULATION COUNCIL OFFICES

UNITED STATES

HEADQUARTERS

Population Council
One Dag Hammarskjold Plaza
New York, New York 10017 USA
telephone: (212) 339-0500
facsimile: (212) 755-6052
e-mail: pubinfo@popcouncil.org
www.popcouncil.org

CENTER FOR BIOMEDICAL RESEARCH

1230 York Avenue
New York, New York 10021 USA
telephone: (212) 327-8731
facsimile: (212) 327-7678
e-mail: biomed@popcbr.rockefeller.edu

WASHINGTON, DC

Population Council
4301 Connecticut Avenue, NW, Suite 280
Washington, DC 20008 USA
telephone: (202) 237-9400
facsimile: (202) 237-8410
e-mail: popcouncil@pcdc.org

LATIN AMERICA AND THE CARIBBEAN

REGIONAL OFFICE—MEXICO

Population Council
Apartado Postal 12-152
C.P. 04021 México
telephone: (52-55) 5999-8630
facsimile: (52-55) 5554-1226, 5999-8673
e-mail: rpoire@popcouncil.org.mx

BOLIVIA

Population Council
Calle F. Guachalla No. 342
Edificio Victor, 3rd Floor
La Paz, Bolivia
telephone and facsimile: (591-2) 244-0287
e-mail: fgonzales@popcouncil.org.bo

BRAZIL

Population Council
Caixa Postal 6509
Cidade Universitária
Campinas, São Paulo, Brasil
Cep. 13084-970
telephone: (55-19) 3249-0121/2,
3289-4890/5864
facsimile: (55-19) 3249-0122
e-mail: pcbrazil@popcouncil.org.br

GUATEMALA

Population Council
4a Avenida 6-74
Zona 14, Colonia El Campo
Ciudad de Guatemala 01013, Guatemala
telephone and facsimile: (502) 333-4554
e-mail: popcouncil@popcouncil.org.gt

SOUTH AND EAST ASIA

REGIONAL OFFICE—INDIA

Population Council
Zone 5A, Ground Floor
India Habitat Centre
Lodi Road
New Delhi 110003, India
telephone: (91-11-2) 464-2901/2, 464-4008/9,
465-2502/3, 465-6119
facsimile: (91-11-2) 464-2903
e-mail: monica@pcindia.org

BANGLADESH

Population Council
P.O. Box 6016
House CES (B) 21, Road 118
Gulshan, Dhaka, Bangladesh
telephone: (880-2) 882-1227/6657,
881-1964/2384
facsimile: (880-2) 882-3127/32
e-mail: dipak@pcdhaka.org

INDONESIA

Population Council
Menara Dea Building, 3rd Floor, Suite 303
Jl. Mega Kuningan Barat, Kav. E4.3, No. 1
Jakarta 12950, Indonesia
telephone: (62-21) 576-1011/2
facsimile: (62-21) 576-1013
e-mail: pcjkt@cbn.net.id

THAILAND

Population Council
37/1 Soi 15
Petchaburi Road
Phayathai
Bangkok 10400, Thailand
telephone: (66-2) 653-8586/7, 251-4766/7066,
253-9166
facsimile: (66-2) 255-5513
e-mail: pcbkk@popcouncil.th.com

VIETNAM

Population Council
2 Dang Dung Street
Ba Dinh District
Hanoi, Vietnam
telephone: (84-4) 716-1716/7/8/9
facsimile: (84-4) 716-1707
e-mail: pchanoi@popcouncil.org.vn

SUB-SAHARAN AFRICA

REGIONAL OFFICE—GHANA

Population Council
Medlab Building, 14B Roma Road
Roman Ridge, Accra, Ghana
telephone: (233-21) 780711/2
facsimile: (233-21) 780713
e-mail: info@pcaccra.org

BURKINA FASO

Population Council
01 BP 6250
Ouagadougou 01, Burkina Faso
telephone: (226) 31-12-42/3
facsimile: (226) 31-12-46
e-mail: pcburkina@popcouncil.bf

KENYA

Population Council
General Accident House
Ralph Bunche Road
P.O. Box 17643
Nairobi 005, Kenya
telephone: (254-2) 271-3480
facsimile: (254-2) 271-3479
e-mail: info@pcnairobi.org

MALI

Population Council
BP E.666 Hamadallaye
Avenue Cheick Zayed
Immeuble ABK1, Apartment 203
Bamako, Mali
telephone: (223) 229-27-64/7
facsimile: (223) 229-94-35
e-mail: sdombia@popcouncil.mali.org

SENEGAL

Population Council
BP 21027
Dakar, Senegal
telephone: (221) 865-1255
facsimile: (221) 824-1998
e-mail: pcdakar@pcdak.org

SOUTH AFRICA

Population Council
P.O. Box 411744
Craighall 2024
Johannesburg, South Africa
telephone: (27-11) 325-0518/760/766
facsimile: (27-11) 325-0647
e-mail: Indhlovu@pcjoburg.org.za

ZAMBIA

Population Council
Hotel Intercontinental
Haile Selassie Avenue
P.O. Box 32201
Lusaka, Zambia
telephone: (260) 1-250-600, ext. 264
facsimile: (260) 1-251-880
e-mail: pcouncil@zamnet.zm

WEST ASIA AND NORTH AFRICA

REGIONAL OFFICE—EGYPT

Population Council
59, Misr-Helwan Agricultural Road, Maadi
Cairo, Egypt
telephone: (20-2) 525-5965/7/8
facsimile: (20-2) 525-5962
e-mail: pcouncil@pccairo.org

PAKISTAN

Population Council
House No. 7, Street No. 62, Section F-6/3
Islamabad, Pakistan
telephone: (92-051) 227-7439
facsimile: (92-051) 282-1401
e-mail: imran@pcpak.org

AFFIRMATIVE ACTION STATEMENT OF POLICY

The Population Council provides equal opportunity; it does not discriminate against any person with regard to age, color, creed, national origin, disability, political belief, veteran status, religion, sex, or sexual orientation. Decisions on employment will be based on an individual's qualifications as related to the position for which s/he is being considered. The Council has an affirmative action program and especially encourages applications from qualified women and members of minority groups. The Population Council is international in the composition of its board of trustees and its staff, as well as in the nature and deployment of its activities.

STAFF

Writer: Jill Pope

Art Director/Designer: Y. Christina Tse

Editors: Gina Duclayan, Suzie Elliot, Robert Heidel, Melissa May

Staff Photographer: Karen Tweedy-Holmes

Editorial, Design, and Production Assistant: Jared B. Stamm

PHOTO CREDITS

All photos courtesy of staff photographer
Karen Tweedy-Holmes and other Population Council
staff except on the following pages:

Page 8: Joseph Mboloi (Demissie Habte, Yoshio Hatano);
Oxygen House LLC (Elizabeth J. McCormack,
Charles D. Klein, Werner Holzer, Robert B. Millard);
H.R.H. Princess Basma Bint Talal (H.R.H. Princess Basma Bint Talal);
University of Pennsylvania (Samuel H. Preston).

Page 9: Donald Graham (Linda G. Martin, Elof D.B. Johansson,
James M. Tuite).

Page 17 (top): Richard Lord.

Library of Congress Catalog Number 78-617856

ISSN 0361-7858

© 2004 The Population Council, Inc.

Cover and text printed on recycled paper in the USA.

POP



One Dag Hammarskjold Plaza, New York, New York 10017 USA www.popcouncil.org

ULLA

TION

COUNCIL