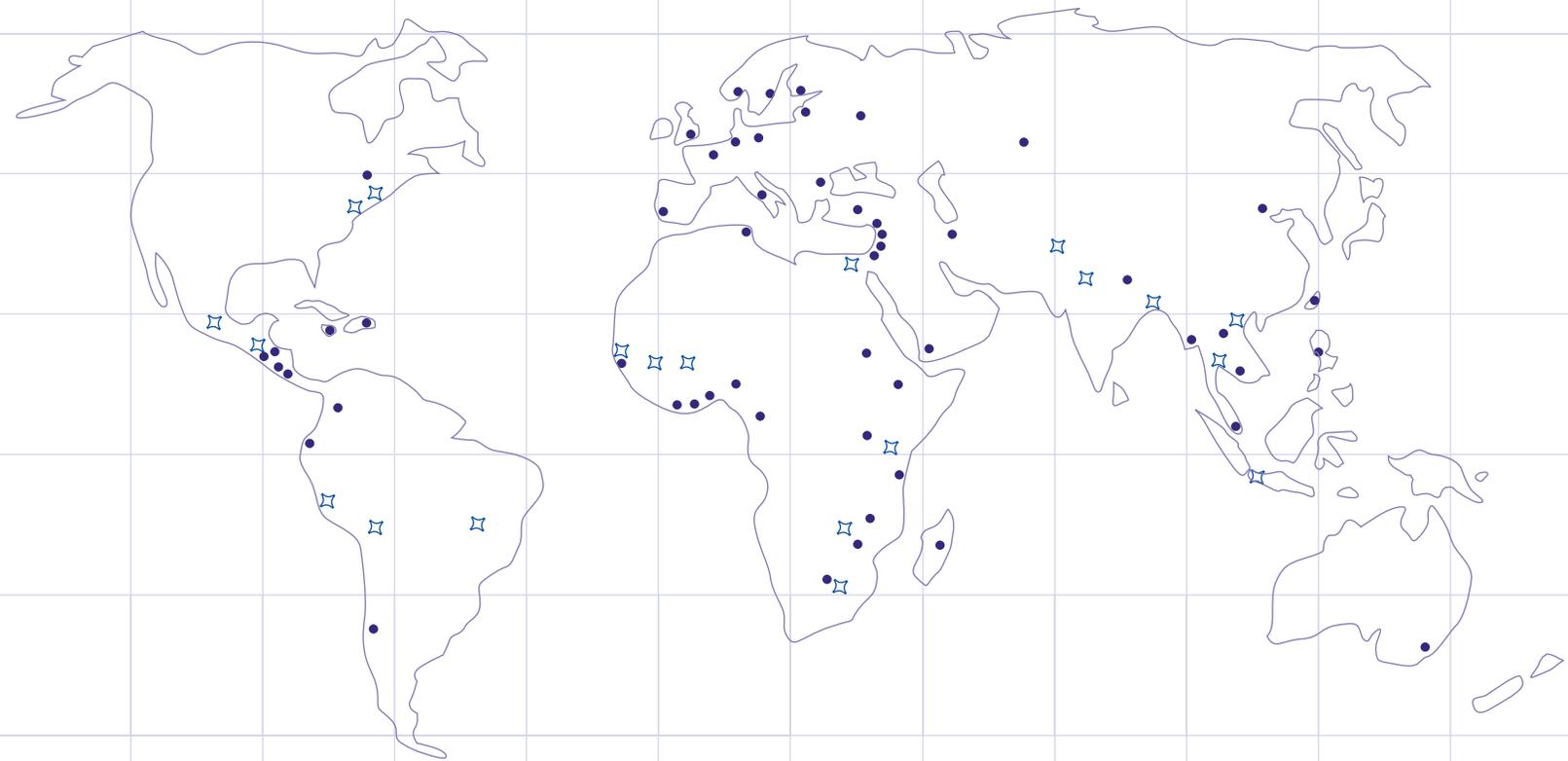


A N N U A L R E P O R T 2 0 0 1



☐ POPULATION COUNCIL OFFICES

● COUNCIL RESEARCH AND PROGRAMS

50 *YEARS*
1952-2002
Population Council

A special section of this annual report—*Highlights from the Population Council's First Five Decades*—marks the beginning of the celebration of the Population Council's 50th anniversary in 2002.

About the cover

Population Council headquarters and the Center for Biomedical Research are located in New York City. The Council also has an office in Washington, DC. Worldwide the Council has offices in 18 other countries and conducts programs and research in more than 70 countries.

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

HIGHLIGHTS FROM THE POPULATION COUNCIL'S FIRST FIVE DECADES

Selected 2001 activities	13
Assessing basic services for growing cities	14
Analyzing family planning and reproductive health services in Vietnam	15
Appraising reproductive behavior change in Ghana	16
Investigating nonhormonal male contraceptives	17
Finding ways to ensure safe motherhood	18
Placing postpartum services in a continuum of care	19
Involving men as supportive partners in reproductive health	20
Evaluating interventions to reduce HIV transmission among sex workers	21
Clarifying the role of dendritic cells in HIV infection	22
Studying factors that affect the well-being of older adults	23
Publications	24
Fellows	30
Awards and Contracts	33
Staff and Consultants	40
Advisory and Collaborative Bodies	43
Financial Report	45
Population Council Offices	52

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.

The Council's activities include:

- conducting fundamental biomedical research in reproduction;
- developing contraceptives and other products for the improvement of reproductive health;
- doing studies to improve the quality and outreach of services related to family planning, HIV/AIDS, and reproductive health;
- conducting research on reproductive health and behavior, family structure and function, and causes and consequences of population growth;
- strengthening professional resources in developing countries through collaborative research, awards, fellowships, and training;
- publishing innovative research in peer-reviewed journals, books, and working papers and communicating research results to key audiences around the world.

Research and programs 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 five regional offices and 13 country offices.

The Council staff consists of nearly 600 women and men from more than 40 countries, over a third of whom hold advanced degrees. Roughly 50 percent are based outside the United States. Council staff members conduct research and programs in over 70 countries.

The Population Council is governed by a board of trustees composed of men and women from eight countries. This group includes leaders in biomedicine, business, economic development, health, 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 2001 were US\$70.2 million.

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

Immunocontraceptives for men

Probing studies in female
and male contraception

Reproductive physiology

Receptors and transcription

Genetic mechanisms of
androgen action

Physiology of Sertoli cells

Development and physiology of
Leydig cells

Testicular proteins

Germ cell dynamics

Transmission of HIV

Strengthening professional resources

Biomedical fellowship program

Christopher Tietze Fellowship

Center for Biomedical Research

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

Staff in the Contraceptive Development program conduct applied research and develop new technologies for the contraceptive and other reproductive health needs of women and men. Priority is given to woman-controlled contraceptive methods and contraceptive methods for men. Research is also being conducted on products that protect against sexually transmitted infections, including HIV and chlamydia. 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 investigators who conduct clinical evaluations of experimental contraceptive and therapeutic reproductive health products.

The Contraceptive Development program collaborates with the Council's International Programs Division in contraceptive introduction and postmarket-

ing activities and in testing Carraguard™, the candidate microbicide developed by the Council to prevent the sexual transmission of HIV.

Staff in the Reproductive Physiology program conduct basic research focusing on male reproductive function, including the effects of hormones on gene activation, germ cell development, cell-to-cell communication, and sperm maturation.

Through its postdoctoral training program in reproductive biomedicine, the center enlarges the community of scientists whose research leads to advances in reproductive health care and contraception. This program helps train the next generation of biomedical research scientists from developing countries, enhancing the capacity of those countries to address reproductive health issues.

Elof Johansson, vice president, heads the Center for Biomedical Research. Régine Sitruk-Ware is executive director of contraceptive development. James Catterall is director of reproductive physiology. The center's staff of 84 includes 24 scientists, three senior administrators, and other professional and support staff; in addition, 13 postdoctoral fellows work at the center, which is located on the campus of the Rockefeller University.

International Programs Division

The International Programs Division undertakes collaborative research with governments, nongovernmental organizations, and scientific institutions in developing countries to improve delivery of reproductive health, family planning, and HIV/AIDS prevention and care services; to enhance understanding of the determinants of reproductive and sexual behavior; and to encourage greater attention to gender and male–female partnership issues. This work also includes training, technical assistance, and dissemination of information. The division works toward broadening the scope of population and health policy through research, analysis, and technical collaboration. Strengthening professional resources in developing countries is an objective of all programmatic activities.

Staff in the Horizons program carry out action-oriented research on promising strategies for preventing the transmission of HIV/AIDS, ensuring high-quality care and support, and mitigating the effects of the epidemic. Frontiers in Reproductive Health program staff conduct research to develop and test innovative solutions to reproductive health service-delivery problems. Frontiers staff

members also communicate evidence to key policymakers and program managers and develop the capacity of institutions to implement and sustain client-centered programs.

The Robert H. Ebert Program on Critical Issues in Reproductive Health explores such issues as medical abortion and the consequences of unsafe abortion, postpartum care and safe motherhood, expanding contraceptive choice, and preventing sexually transmitted infections (STIs). The Gender, Family, and Development program examines the ways that social, economic, and cultural factors affect individuals' reproductive and sexual health, with an emphasis on policy and program development for adolescents.

Work is developed, implemented, and evaluated by the Council's offices in New York and Washington, DC, its five regional offices, and 13 country offices in partnership with service and research organizations around the world.

Purnima Mane, vice president, heads the International Programs Division. Anrudh Jain is senior director of policy and regional programs. The division's staff of 373 includes 222 health and social scientists and other professionals.

AREAS OF RESEARCH AND TRAINING IN 2001

Family planning

- Expanding contraceptive choice
- Effect of improved quality of care on reproductive behavior
- Quality of services in China, Pakistan, and Vietnam

Gender, family, and development

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

HIV/AIDS/STIs

- Development and acceptability of vaginal microbicides
- Integration of HIV/AIDS/STI services with reproductive health programs
- More effective ways to prevent HIV transmission and to provide care and support to persons infected with or affected by HIV/AIDS

Reproductive health

- Quality of reproductive health and obstetric services
- Unwanted pregnancy and the consequences of unsafe abortion
- New approaches to postpartum care
- Safe motherhood
- Reproductive health needs of adolescents and refugees
- Female genital cutting

Strengthening professional resources

- Middle East Research Awards program
- African Population and Health Research Center in Nairobi
- Vietnam fellowship programs
- Enhanced capacity of nongovernmental organizations in Guatemala and Iran
- Use of operations research results in developing countries

Policy Research Division

Fertility and family planning

Experimental programs in reproductive health

Diffusion of fertility-control behavior

Transitions in reproductive behavior

Unmet need for contraception

Transition to adulthood

Adolescent reproductive behavior

Schooling and employment

Population and development policy

Consequences of urban growth

Investing in children

Population policy options

Population and poverty

Population aging

Strengthening professional resources

Social science fellowships

Ghana fellowships

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 family planning 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.

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 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 reproductive health effects of rapid urban growth. The division's work on population aging in the developing world seeks to analyze the well-being of older people in the face of population aging and to identify cost-effective policies and programs that enhance their welfare.

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 25 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.

Corporate Affairs Division

The Corporate Affairs Division encompasses the Legal, Human Resources, Office Services, Information Technology, Public Information, and Publications offices.

The division provides supporting services to the Council, manages its business relationships, and, through the Publications and Public Information offices, communicates the results of work by Council staff, consultants, and colleagues to an international community of policymakers, government planners, activists, teachers, media professionals, and the general public. Council 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 65.

Office of the Secretary-Treasurer

The Office of the Secretary-Treasurer includes the Finance, Accounting, and Grants and Contracts departments. Finance oversees the Council's budget, investments, 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, secretary-treasurer and director of finance, heads a staff of 23.

Office of Development

The Office of Development identifies and carries out strategies for improved and more diversified fundraising, 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 scientists and researchers. The director of development, Ruth Kalla Ungerer, works with the Council's president 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 analyzes public policy debates on population issues.

Sheldon J. Segal, Distinguished Scientist, conducts and coordinates biomedical research bearing on fertility regulation and reproductive health. He is a scientific advisor to other organizations on matters related to family planning, reproductive rights, and ethical issues in population.

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¹ Executive Committee member.

² Chairman of the Board until June 30, 2001.

³ Board and Executive Committee member until April 30, 2001.

⁴ Board member until June 30, 2001.

⁵ Board and Executive Committee member until June 30, 2001.

⁶ Executive Committee member starting July 1, 2001.



First row: George Benneh, Demissie Habte, Yoshio Hatano; Samuel H. Preston; Florence Manguyu, Linda G. Martin, Alaka Basu; Torsten Wiesel; Abdullahi An-Na'im.

Second row: Elizabeth J. McCormack, Charles Klein; Abraham E. Cohen, Rodney B. Wagner; Basma Bint Talal; Werner Holzer, Robert B. Millard; Nancy Birdsall.

2001 Officers



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President



Sandra P. Arnold
Vice President
Corporate Affairs



John Bongaarts
Vice President
Policy Research Division



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



Purnima Mane¹
Vice President
International Programs
Division



James M. Tuite
Secretary-Treasurer and
Director of Finance

¹ Succeeded George F. Brown on February 1, 2001.

President's Message

As we prepare for our 50th anniversary in 2002, it is a time to reflect on the accomplishments of the Population Council. Everyone who has been associated with this remarkable organization can take pride in its history and all it has done to improve the well-being of men, women, and children around the world.

The need for scientific evidence on population policy issues motivated John D. Rockefeller 3rd to establish the Council in 1952. And indeed, over the years, the Council has been at its best when it anticipates policy questions, does the relevant research, and provides results that inform debate and facilitate the development and implementation of science-based solutions. The timeline here and a special anniversary section of www.popcouncil.org provide highlights of the Council's achievements.

In the years to come, our talented 600-strong, multidisciplinary staff will no doubt continue to develop new contraceptives, improve reproductive health services, and enhance understanding of the causes and consequences of population phenomena. But the world is changing. There are new challenges to which we can direct our expertise,

and there are new skills and technologies that we can harness in our research, capacity building, and technical assistance. Examples are the areas of adolescence, urbanization, population aging, and HIV/AIDS—the last of which now represents over 30 percent of the Council's activities. Embodied in all our work, whether old or new, is our continued commitment to high quality and objectivity, as well as a determination to help governments, communities, and individuals alike make better-informed decisions for the good of current and future generations. This report provides just a few examples for 2001.

Over the years, the Population Council has been fortunate to have the guidance of its distinguished international board of trustees. I especially want to express my deep gratitude to Elizabeth J. McCormack for her extraordinary leadership and wisdom. Elizabeth, who was a close advisor of our founder and served on the Council's board from 1985 to 1994 and then as chairman from 1997 to 2001, has become our new vice chairman. We are delighted that Rodney B. Wagner, who has been on the board since 1996 and who also serves on several other

influential international not-for-profit and corporate boards, has agreed to be our chairman.

I also want to welcome Purnima Mane to the Council's leadership team. Originally from Mumbai and an expert on social and behavioral aspects of HIV/AIDS, Purnima joined the Council in 1999 and became a vice president and director of the International Programs Division in February 2001.

Our work would not be possible without the foresight and generosity of our financial supporters. It is impossible to acknowledge everyone who has helped so much over the last year, but I will mention some recent good news. A challenge grant by The Andrew W. Mellon Foundation has established a Policy Research Division Endowment—each dollar donated will be matched up to a total of \$1 million. The William and Flora Hewlett Foundation already has pledged a substantial contribution. In early 2002, we received official notification that the U.S. Agency for International Development has renewed our five-year, multi-million-dollar Horizons program of research to improve responses to the HIV/AIDS epidemic. Finally, the Bill & Melinda Gates Foundation announced a five-year \$20 million

gift to advance our laboratory work and clinical trials surrounding the development of a microbicide to prevent the sexual transmission of HIV.

Major grants such as these are instrumental to our work. Equally important are the typically smaller unrestricted gifts that provide the crucial flexibility to respond quickly to emerging needs, test new ideas, and, ultimately, attract more substantial project investments. Many thanks to all our donors.

The events of September 11, 2001 highlighted the urgency of our mission and reinforced our dedication. The dislocations of war, disruption of services to meet basic needs, and underlying issues of poverty and lack of opportunity confront some of the most vulnerable members of our global society. At the inaugural meeting of the Population Council's board of trustees, John D. Rockefeller 3rd expressed the hope that "a group devoting itself to the scientific study of population in its many interrelationships may be a help to all others engaged in furthering the well-being of man." His vision continues to guide us today.

Linda G. Martin

March 2002

Selected 2001 activities

Assessing basic services for growing cities

Analyzing family planning and reproductive health services in Vietnam

Appraising reproductive behavior change in Ghana

Investigating nonhormonal male contraceptives

Finding ways to ensure safe motherhood

Placing postpartum services in a continuum of care

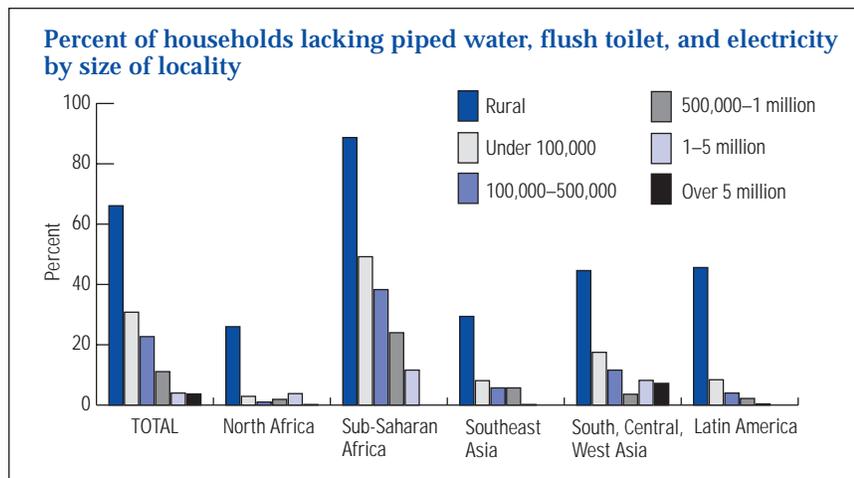
Involving men as supportive partners in reproductive health

Evaluating interventions to reduce HIV transmission among sex workers

Clarifying the role of dendritic cells in HIV infection

Studying factors that affect the well-being of older adults

Assessing basic services for growing cities



In the next quarter-century, population growth in urban areas of developing countries will likely account for 90 percent of the increment to the world population. Will governments be able to provide such basic services as running water, sanitary waste disposal, and electricity for this growing population? In 2001, Population Council demographer Paul C. Hewett and economist Mark R. Montgomery completed a comprehensive examination of the current availability of services in developing countries around the world. They discovered striking differences in the distribution of these services by rural and urban residence, as well as by city size.

Much past research has detailed the relative deprivation in rural areas of developing countries. In rural sub-Saharan Africa, for example, nearly 90 percent of households (representing more than 350 million people) lack the three basic services mentioned above. “In addition to highlighting the needs of the rural poor,” says

Hewett, “our research suggests that the circumstances of the urban poor, particularly those in smaller cities, require attention.”

Hewett and Montgomery found that people who live in smaller cities—which are often overlooked by researchers—are much less likely to have basic services than are people who live in larger cities. Nearly 50 percent of households in the cities of sub-Saharan Africa with populations under 100,000 lack piped water, flush toilets, and electricity. Similar deficits in the availability of basic services exist in the smaller cities of Asia and Latin America. “We also found sharp inequalities in access to public services between the urban poor and other urban residents,” says Hewett.

Moreover, the recent trend toward decentralization of government does not augur well for remedying these imbalances. “Many developing-country governments are transferring responsibilities from national to local levels without a commensurate transfer of funding,” says Montgomery. “This shift reduces local governments’ ability to extend public services.” In some cases nongovernmental organizations, community-based organizations, and residents’ associations have attempted to fill the service delivery gap. But voluntary local associations often lack the means and technical abilities to sustain service delivery. It is doubtful whether they can substitute for active, national governments. ■



Paul C. Hewett is a research associate in the Policy Research Division.



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

Analyzing family planning and reproductive health services in Vietnam

In 1988, Population Council researcher Robert Miller and his colleagues working in Africa developed situation analysis, a practical technique for pinpointing problems in many types of service delivery. Researchers employ interviews, inventories, and observations of provider-client interactions to gather data on adequacy of training, staffing, equipment, supplies, readiness to provide services, and quality of care. Findings from a representative sample of facilities can be used to estimate the needs of the whole system and to develop and test feasible responses.

Recently, Council researchers collaborated with the government of Vietnam to conduct a situation analysis of public-sector reproductive health services in eight provinces. “This work, along with our past assessment of private-sector services, provides a comprehensive view of service provision in Vietnam,” says Council senior medical advisor Vu Quy Nhan, the lead investigator on the study.

Researchers found that the system in Vietnam was generally prepared to deliver a wide range of reproductive health services to women. Basic equipment, supplies, and essential drugs were available. In the year before the analysis, most staff members had received refresher training on family planning, antenatal care, postpartum care, and child care. And posters and leaflets on a variety of topics were displayed.



A client (right) meets with a health care provider at a commune health station in Vietnam.

However, there were some gaps in readiness, notably in contraceptive supplies and quality of care. Contraceptive choice was limited and the lack of condoms was a frequent complaint. Providers seldom asked crucial questions on such topics as prior pregnancies and history of reproductive tract infections. Provider counseling skills were weak and the level of privacy was inadequate. Moreover, basic infection control techniques, such as washing hands and disinfecting instruments, were often overlooked.

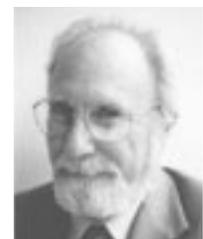
“As a result of these findings, such upgrades as private counseling rooms and improved infection control techniques have begun appearing in some clinics,” says Le Thi Phuong Mai, who was the deputy director of the project. “The United Nations Population Fund is also using the results to develop intervention projects to help further improve services in the provinces we studied.” ■



Vu Quy Nhan is a senior medical advisor in the International Programs Division.



Le Thi Phuong Mai is a program officer in the International Programs Division.



Robert Miller is a senior program associate in the International Programs Division.

Appraising reproductive behavior change in Ghana

A nurse provides home-based health services as part of the ongoing study conducted through the Navrongo Health Research Centre.



The Population Council is carrying out two studies that are providing new insights into factors influencing fertility in Ghana.

An experiment that began in 1996 is being conducted in collaboration with the Navrongo Health Research Centre, a Ministry of Health field station in rural northern Ghana. Council senior associate James F. Phillips has provided technical assistance to Ghanaian colleagues in testing the relative effects of two strategies for delivering health care to rural residents. In the experiment's design, these approaches are implemented independently, jointly, and not at all, producing four study areas. In one strategy, nurses provide health and family planning services door-to-door. In the other strategy, community leaders support the provision of health services by sponsoring volunteer services.

Where community mobilization was implemented and where community mobilization was combined with doorstep delivery

of services by nurses, fertility fell significantly more than in the comparison area where only clinic-based services were provided. The combined approach also had a significantly greater effect than community mobilization alone. The success of this experiment has led the government of Ghana to begin implementing the combined approach nationwide.

In the second Council study, senior associates John B. Casterline and Mark R. Montgomery and other Council colleagues are collaborating with researchers at the University of Cape Coast in southern Ghana. This study is exploring social diffusion, the influence exerted by one person's knowledge, attitudes, and behaviors—in this case about contraceptive use—on the choices made by others. The experiment is designed to estimate the magnitude of these diffusion effects.

The study involves six rounds of survey data collection in which field workers ask women and men about their own contraceptive use and the related knowledge, attitudes, and behaviors of their closest associates. Thus far, with four rounds of data analyzed, the results indicate that the adoption of modern contraception is strongly affected by exposure to the attitudes and behaviors of associates.

The findings from both of these studies assist the government of Ghana in implementing effective reproductive health programs. Furthermore, the projects are helping to strengthen the capacity of Ghanaian researchers to conduct additional comprehensive investigations. ■



John B. Casterline is a senior associate in the Policy Research Division.



James F. Phillips is a senior associate in the Policy Research Division.

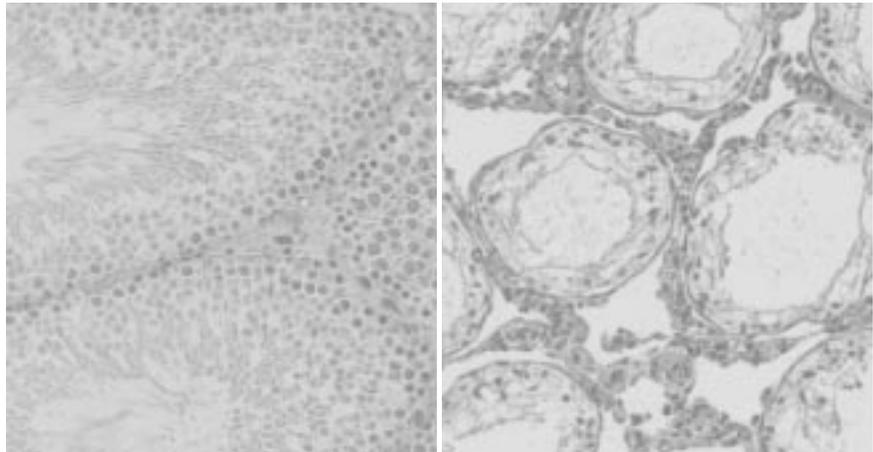
Investigating nonhormonal male contraceptives

Gaining a better understanding of male reproductive physiology has long been a goal of scientists at the Population Council's Center for Biomedical Research. In 2001, biochemist and molecular biologist C. Yan Cheng and his colleagues made significant progress pursuing two lines of research that may lead to new male contraceptive methods. If successful, the methods would disrupt the formation and development of sperm without interfering with hormones secreted by the hypothalamus, pituitary gland, and testis.

"Male contraceptives that bypass the hormonal system would be welcome because they would be likely to leave prostate function and libido intact," says Régine Sitruk-Ware, executive director of contraceptive development at the center.

Cheng's strategies target germ-cell migration, a hallmark of sperm development. Germ cells mature into sperm as they travel from the outer layer of seminiferous tubules in the testis to the cavity at the center of the tubules. This migration is facilitated by the constant disruption and regeneration of specialized attachments between cells.

One compound being investigated by Cheng and his team, known as AF-2364, interferes with the adhesion of germ cells to the supportive Sertoli cells that surround them. When this attachment is disrupted, germ cells are released before they become capable of fertilizing an



Cross-sections of seminiferous tubules in the testis, from an untreated rat (left) and from a rat 79 days after treatment with AF-2364, when all the germ cells have been depleted (right).

egg. Cheng's research has shown AF-2364 to be a potent, effective, and reversible male contraceptive in laboratory animals. It is not toxic to the liver, kidney, or other organs and does not cause genetic mutations.

Another compound Cheng and his colleagues developed attaches to occludin, a protein that maintains the tight junction between the Sertoli cells that form the blood-testis barrier. Primitive germ cells must migrate past the blood-testis barrier in order to mature. When this barrier is held open, as happens when animal Sertoli cells are exposed to Cheng's occludin-binding compound, cells from the immune system gain access to maturing germ cells, destroying them and causing reversible infertility. Fertility returns when treatment is stopped.

"These results show that a class of male contraceptives with potentially few side effects can be developed by interfering with cell-to-cell attachments in the testis," says Cheng. ■



C. Yan Cheng is a senior scientist at the Center for Biomedical Research.



Régine Sitruk-Ware is executive director of contraceptive development at the Center for Biomedical Research.

Finding ways to ensure safe motherhood



As part of a study on maternal mortality, Population Council fieldwork coordinator Sofía Reynoso (left) interviews the mother and father of a girl who died to determine whether her death was related to a pregnancy.



Tess Aldrich is a program assistant in the International Programs Division.



Ana Langer is regional director in Latin America and the Caribbean.



Jennifer Catino is a program coordinator in the International Programs Division.

Over half a million women die from complications of pregnancy and childbirth each year. Many women also sustain pregnancy-related illnesses or injuries. Population Council researchers around the world are developing and testing techniques to improve prenatal care and the conditions under which women give birth in resource-poor environments. “The Council’s work on safe motherhood suggests that relatively simple changes in health services can make childbirth less difficult and less dangerous,” says Ana Langer, regional director in Latin America and the Caribbean.

For example, at least 60 percent of pregnant women with untreated syphilis will experience such adverse outcomes as stillbirths and premature delivery. A 2001 Council assessment in Nairobi showed that testing for syphilis in prenatal clinics, rather than relying on referral facilities

as is standard, increases the number of clients screened by as much as 30 percent and is also less expensive per client.

The quality of care in many locales also could be improved. In Mexican hospitals, women in labor are usually separated from their families and the emotional support they provide. Council researchers studied the effect of doulas—women who provide emotional, physical, and informational support to women before, during, and just after childbirth—in a large public hospital in Mexico City. They found that women with doulas spent significantly less time in labor. In addition, the support of doulas promotes bonding between mother and child by increasing the number of mothers who breastfeed exclusively.

Providing patients with social support is not enough, however. Many clinicians overuse such practices as episiotomies and cesarean sections. The rate of cesarean section in private hospitals in Mexico is 40 percent, though in certain private hospitals it is close to 100 percent. A randomized, controlled study in five Latin American countries showed that requiring doctors to seek second opinions before performing a cesarean section modestly reduced the incidence of unplanned cesareans, but not elective cesareans. New interventions are required to address this situation. Population Council studies in Latin America are testing interventions designed to improve maternal care by educating both patients and health care providers. ■

Placing postpartum services in a continuum of care

Population Council researchers have assessed approaches to improving postpartum care since 1966 when the organization launched the International Postpartum Project. The concept of what types of services women should be offered in the postpartum period has broadened considerably since then.

“Postpartum services often have been focused exclusively on helping women adopt family planning methods,” explains John Townsend, director of the Council’s Frontiers in Reproductive Health program. “Satisfying unmet need for contraception is vital, but this single-minded approach can deflect attention from women’s other needs at this time, such as counseling and treatment related to reproductive tract infections, assistance with breastfeeding, and getting husbands involved as supportive partners.”

Recent research conducted by the Frontiers program in the West Bank and Gaza highlights the importance of viewing postpartum services as one segment in a continuum of care. (The USAID-funded Frontiers program, led by the Population Council in collaboration with Family Health International and Tulane University, applies systematic research techniques to improve delivery of family planning and reproductive health services and influence related policies.)

Because societies often value infant health more than women’s health, women are more likely to seek prenatal care than postpartum care or general health care for themselves. Frontiers research



A newborn during a postpartum follow-up visit in the West Bank.

showed that the majority of Palestinian women receive antenatal care—the average woman makes five visits. In contrast, only 3 percent of women studied reported returning to clinics after giving birth to receive postpartum care.

More than 40 percent of women who made postpartum follow-up visits to clinics accepted a family planning method at that time, but their other needs may not have been fully addressed. Only about half of the physicians interviewed in the West Bank and Gaza reported that they perform Pap smears for detecting cervical cancer or teach their patients how to conduct breast self-examinations.

“Pregnancy-related visits can and should serve as platforms from which to introduce and educate women about other crucial reproductive health services,” argues Laila Nawar, Council regional advisor in West Asia and North Africa. ■



Laila Nawar is a regional advisor in West Asia and North Africa.



John Townsend is director of the Population Council’s Frontiers in Reproductive Health program.

Involving men as supportive partners in reproductive health



The Men in Maternity study, conducted in India and South Africa by the Population Council's Frontiers in Reproductive Health program, is testing ways to improve pregnancy outcomes and men's and women's reproductive health. Here a husband and wife (right) in India consult with a health care provider.



Esther G. Muia is a program associate in the International Programs Division.



Judith Bruce is director of the Gender, Family, and Development program in the International Programs Division.

Research has demonstrated the benefits of reproductive health care providers acknowledging men and encouraging them to support women. For example, a Population Council study showed that when providers counseled the husbands of postabortion care patients in Egypt, these men were more likely to assist their wives with household chores during recovery. As a result of such findings, the Council has sought ways to bring men into reproductive health programs as supportive partners and to evaluate the effect of building these partnerships on maternal and infant health and other outcomes. In 2001, the Council and the USAID Inter-agency Gender Working Group hosted an international meeting to discuss power in sexual relationships. The meeting was attended by 141 people from more than 50 organizations around the world.

"Improving women's reproductive well-being will require relaxing restrictive gender roles," says Judith Bruce, director of the Gender, Family, and Development program in the Council's International Programs Division. Some men perceive family planning and reproductive health as women's exclusive domain, but

many do not and are eager to support their partners. "Our research in Kenya has shown that nearly 50 percent of men would like to be present during labor and delivery," elaborates Council program associate Esther G. Muia. Council research in Kenya, Nicaragua, and Zimbabwe, however, has shown that such barriers as transportation costs and difficulty taking time off from work can keep men from joining their partners in clinics.

While encouraging partner involvement, providers must be careful to protect women's reproductive rights. The Council's Horizons program, for example, interviewed many women, both HIV-positive and HIV-negative, visiting a voluntary HIV counseling and testing clinic in Tanzania. More than 38 percent of women interviewed had previously experienced partner violence, and thus feared telling their partners the results of their HIV tests. Follow-up interviews revealed that 5 percent of the women who disclosed their test results experienced negative reactions, including physical assault or abandonment. Programs need to be sensitive to meeting the needs of women who want their partners to be involved, as well as the needs of those women who do not.

"Not only will the involvement of men in reproductive health services enhance a woman's health, it will ultimately improve men's health as well," says Purnima Mane, a Council vice president and director of its International Programs Division. "Men, too, have unmet reproductive and sexual health needs. Making health services more welcoming to them, whether they come with a partner or alone, will benefit both men and women." ■

Evaluating interventions to reduce HIV transmission among sex workers

The Population Council's Horizons program is conducting studies in Brazil, Cambodia, the Dominican Republic, and India to assess the effect of community-building activities in reducing vulnerability to HIV among female sex workers. These interventions, which foster a sense of collective identity among sex workers, move beyond standard means of changing HIV-related behavior, such as promoting condom use. There is strong interest in HIV interventions that mobilize sex workers, but very little data to show that such methods actually reduce vulnerability to HIV.

"Our research is intended to fill that knowledge gap," says Chris Castle, who has been seconded to the Population Council from the International HIV/AIDS Alliance, one of the partner organizations of Horizons. (USAID-funded Horizons research is conducted in collaboration with the International Center for Research on Women, the International HIV/AIDS Alliance, the Program for Appropriate Technology in Health, Tulane University, the University of Alabama at Birmingham, Johns Hopkins University, and Family Health International.)

The Dominican Republic intervention study adapted a successful Thai program for promoting 100 percent condom use. The Dominican version of the program emphasizes the importance of community participation in the creation, execution, and evaluation of policies for condom use and other HIV prevention strategies.



This glow-in-the-dark poster was displayed to promote 100 percent condom use in sex establishments in the Dominican Republic.

In 34 sex establishments in Santo Domingo, sex workers participated in solidarity-building activities, such as workshops addressing ways to overcome barriers to condom use. In 34 sex establishments in Puerto Plata, this approach was combined with government regulation and enforcement of condom use. Both approaches resulted in significant increases in consistent condom use and significant reductions in sexually transmitted infections: the proportion of sex workers with such infections declined by 37 percent in Santo Domingo and by 43 percent in Puerto Plata.

"Clearly, community-building activities, coupled with policy interventions, reduce the risk of sexually transmitted infections," says lead researcher Deanna Kerrigan, who has been seconded part-time to the Population Council from Johns Hopkins University. ■



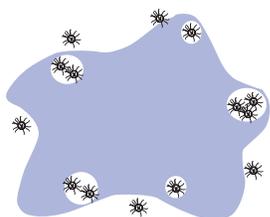
Some members of the Horizons research team: (Top, left to right): Andrew Fisher, Horizons program director; Ellen Weiss, Horizons/International Center for Research on Women; Deanna Kerrigan, Horizons/Johns Hopkins University; and Johannes van Dam, Horizons deputy director. (Bottom, left to right): Eva Roca, staff assistant; Naomi Rutenberg, Horizons research director; and Chris Castle, Horizons/International HIV/AIDS Alliance.

Clarifying the role of dendritic cells in HIV infection

HIV and dendritic cells

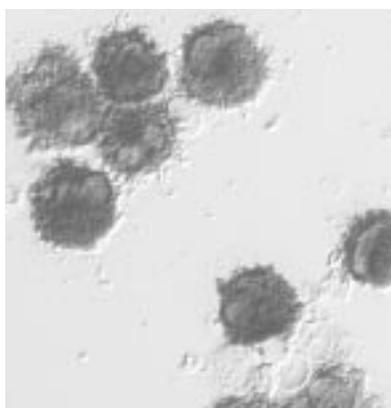
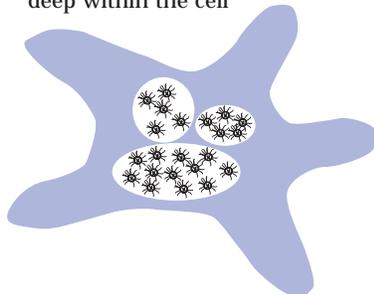
Immature dendritic cells

Virus remains at the cell periphery



Mature dendritic cells

Virus congregates in large vacuoles, deep within the cell



Skin-derived dendritic cells taken from a monkey.

Positioned within the mucosa throughout the body, dendritic cells are among the first white blood cells that encounter HIV following sexual or mother-to-child transmission of the virus. Immunologist Melissa Pope, who joined the Population Council's Center for Biomedical Research in 2001, has studied dendritic cells and HIV for the past decade. Pope's most recent experiments have provided tantalizing clues about the role dendritic cells play in the spread of HIV infection.

Dendritic cells engulf pathogens and degrade them into protein fragments, called antigens. They display the antigens on their cell membranes. Other immune system cells, such as T-cells, recognize the antigens and launch a potent immune response. Pope has demonstrated that when dendritic cells encounter HIV and subsequently interact with T-cells, this scenario goes awry. Rather than triggering

a powerful immune response that should clear infection, the meeting spurs an increase in viral replication.

Pope and her colleagues have shown that when dendritic cells take up HIV, the virus is stored differently depending on the cells' maturity level. "In immature dendritic cells, we observed small vacuoles containing one or two intact viral particles near the cell membrane," explains Pope. "In mature dendritic cells, we noted numerous intact viral particles in large vacuoles near the nucleus."

Pope and her team are now investigating the implications of these two distinct localizations. They believe immature and mature dendritic cells may use different mechanisms to entrap viral particles. In addition to providing clues about virus uptake in dendritic cells, these experiments may shed light on the ensuing spread of virus from dendritic cells to T-cells.

"We still have a lot to learn about the interactions between HIV, dendritic cells, and other immune cells," says Pope. But mapping out these microscopic cellular activities lays the groundwork for the development of microbicides—which are designed to prevent sexually transmitted infections when applied vaginally or rectally before intercourse—and of HIV vaccines that may one day save people's lives. ■



Melissa Pope is a scientist at the Center for Biomedical Research.

Studying factors that affect the well-being of older adults

Population aging will be among the most prominent demographic trends of the twenty-first century. Increases in the proportion of older people in a population result from declines in fertility and mortality. This development affects the work force, public pension and health insurance systems, and family relations. Population Council sociologist Zachary Zimmer studies factors that influence the health and well-being of older adults within these changing demographic circumstances.

In 2001, Zimmer collaborated with Population Council demographer John Bongaarts to examine the diverse living arrangements of the elderly in Africa, Asia, and Latin America. The research, based on data from the Demographic and Health Surveys, confirmed that the majority of older adults in the countries studied live in large households, often with their adult male children. It also showed, however, that the elderly are more likely than other people to live alone. Moreover, living alone is nearly twice as common among elderly women as it is among older men, largely because women are more likely to be widowed than men.

Education, too, plays a role. “Where education levels are higher, older adults are more apt to live alone or in smaller households,” says Zimmer. Besides having greater economic resources, better-educated older people tend to be healthier than their less-educated counterparts. Zimmer



Slightly more than half of older people in Latin America, such as these men in Mexico, live with their adult children.

posits that they may thus be better able to care for themselves.

Zimmer worked with other colleagues to study the link between grown children’s education and the physical functioning of their parents in Taiwan. They found that older adults with well-educated children experience less-severe physical disabilities than do those with less-educated children. Education may increase the quality of grown children’s assistance and influence the course of their parents’ health, Zimmer hypothesizes.

Alternatively, parents who seek higher education for their children may also make healthier lifestyle choices for themselves.

“Gaining a deeper understanding of the factors that influence the welfare of older people will put policymakers in a better position to tackle the challenges raised by population aging,” says Zimmer. ■



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

Publications

The Council is committed to communicating the results of its work and that of others in the field to those concerned with population and reproductive health issues, including the public at large. To this end, the Council 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 former, 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*.

The Council also publishes *Population Briefs*, a quarterly 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 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 Council publications and articles by staff members.

The first part of this section is organized by division and lists 2001 publications by staff and consultants. Authors whose names appear in capital letters are staff members in the division; for interdivisional publications, the full reference is given in the primary author's division, and a cross-reference appears in the coauthor's division. The second part of this section lists the articles published in 2001 in *Population and Development Review*, in a supplement to the journal, and in *Studies in Family Planning*.

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Working Papers

144 BONGAARTS, JOHN. "Household size and composition in the developing world."

145 CASTERLINE, JOHN B., Zeba A. Sathar, and Minhaj ul Haque. "Obstacles to contraceptive use in Pakistan: A study in Punjab."

146 ZIMMER, ZACHARY, Albert I. Hermalin, and Hui-Sheng Lin. "Whose education counts? The impact of grown children's education on the physical functioning of their parents in Taiwan."

147 Nyarko, Philomena, BRIAN PENCE, and Cornelius Debuur. "Immunization status and child survival in rural Ghana."

148 BONGAARTS, JOHN and ZACHARY ZIMMER. "Living arrangements of older adults in the developing world: An analysis of DHS household surveys."

149 Ezra, Markos. "Ecological degradation, rural poverty, and migration in Ethiopia: A contextual analysis."

150 LLOYD, CYNTHIA B., Sahar El Tawila, WESLEY H. CLARK, and BARBARA S. MENSCH. "Determinants of educational attainment among adolescents in Egypt: Does school quality make a difference?"

151 MENSCH, BARBARA S., PAUL C. HEWETT, and Annabel Erulkar. "The reporting of sensitive behavior among adolescents: A methodological experiment in Kenya."

152 BONGAARTS, JOHN. "The end of the fertility transition in the developed world."

153 MONTGOMERY, MARK R., GEBRE-EGZIABHER KIROS, Dominic Agyeman, JOHN B. CASTERLINE, Peter Aglobitse, and PAUL C. HEWETT. "Social networks and contraceptive dynamics in southern Ghana."

154 HEWETT, PAUL C. and MARK R. MONTGOMERY. "Poverty and public services in developing-country cities."

OTHER PUBLICATIONS

DEMENY, PAUL. "Intellectual origins of post-World War II population policies in South Asia," in Zeba Ayesha Sathar and James F. Phillips (eds.), *Fertility Transition in South Asia*. New York: Oxford University Press, pp. 331–346.

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JOURNALS

Population and Development Review (Volume 27)

Number 1, March

Articles

Peter McDonald and Rebecca Kippen, "Labor supply prospects in 16 developed countries, 2000–2050"

Jean Drèze and Mamta Murthi, "Fertility, education, and development: Evidence from India"

Robert D. Retherford, Naohiro Ogawa, and Rikiya Matsukura, "Late marriage and less marriage in Japan"

Tomas Frejka and Gérard Calot, "Cohort reproductive patterns in low-fertility countries"

Notes and Commentary

Arthur P. Wolf, "Is there evidence of birth control in late imperial China?"

Data and Perspectives

Chris Wilson, "On the scale of global demographic convergence 1950–2000"

Number 2, June

Articles

Daniel Goodkind and Loraine West, "The North Korean famine and its demographic impact"

Paul E. Waggoner and Jesse H. Ausubel, "How much will feeding more and wealthier people encroach on forests?"

Chu Junhong, "Prenatal sex determination and sex-selective abortion in rural central China"

Michael A. Koenig, David Bishai, and Mehrab Ali Khan, "Health interventions and health equity: The example of measles vaccination in Bangladesh"

Notes and Commentary

J. Ties Boerma, Elizabeth Holt, and Robert Black, "Measurement of biomarkers in surveys in developing countries: Opportunities and problems"

William Petersen, "Surnames in US population records"

Data and Perspectives

Wolfgang Lutz and Anne Goujon, "The world's changing human capital stock: Multi-state population projections by educational attainment"

Tim Dyson, "The preliminary demography of the 2001 census of India"

Number 3, September

Articles

James R. Carey and Debra S. Judge, "Life span extension in humans is self-reinforcing: A general theory of longevity"

Alexander A. Weinreb, "First politics, then culture: Accounting for ethnic differences in demographic behavior in Kenya"

Ulrich Mueller, "Is there a stabilizing selection around average fertility in modern human populations?"

Zai Liang, "The age of migration in China"

Notes and Commentary

Gary P. Freeman and Bob Birrell, "Divergent paths of immigration politics in the United States and Australia"

Data and Perspectives

Robert Schoen and Nicola Standish, "The retrenchment of marriage: Results from marital status life tables for the United States, 1995"

[Number 4, December](#)

Articles

Alice L. Clarke and Bobbi S. Low, "Testing evolutionary hypotheses with demographic data"

Wayne A. Cornelius, "Death at the border: Efficacy and unintended consequences of US immigration control policy"

Shireen J. Jejeebhoy and Zeba A. Sathar, "Women's autonomy in India and Pakistan: The influence of religion and region"

Christophe Z. Guilmoto and S. Irudaya Rajan, "Spatial patterns of fertility transition in Indian districts"

Notes and Commentary

D. Gale Johnson, "On population and resources: A comment"

Partha Dasgupta, "On population and resources: Reply"

Data and Perspectives

William Lavelly, "First impressions from the 2000 census of China"

Griffith Feeny, "The impact of HIV/AIDS on adult mortality in Zimbabwe"

[Supplement to Volume 27](#)

[Global Fertility Transition, Rodolfo A. Bulatao and John B. Casterline, Editors](#)

Rodolfo A. Bulatao, "Introduction"

Part One: Global Fertility Patterns

John B. Casterline, "The pace of fertility transition: National patterns in the second half of the twentieth century"

John G. Haaga, "Comment: The pace of fertility decline and the utility of evolutionary approaches"

John Cleland, "The effects of improved survival on fertility: A reassessment"

John C. Caldwell, "The globalization of fertility behavior"

Charles Hirschman, "Comment: Globalization and theories of fertility decline"

Part Two: Institutional Factors Bearing on Fertility Transition

Geoffrey McNicoll, "Government and fertility in transitional and post-transitional societies"

Karen Oppenheim Mason, "Gender and family systems in the fertility transition"

Harriet B. Presser, "Comment: A gender perspective for understanding low fertility in post-transitional societies"

Amy Ong Tsui, "Population policies, family planning programs, and fertility: The record"

Luis Rosero-Bixby, "Comment: Population programs and fertility"

Part Three: Low-Fertility Regimes

Tomas Frejka and John Ross, "Paths to subreplacement fertility: The empirical evidence"

Jean-Claude Chesnais, "Comment: A march toward population recession"

John Bongaarts, "Fertility and reproductive preferences in post-transitional societies"

Massimo Livi Bacci, "Comment: Desired family size and the future course of fertility"

Dirk J. van de Kaa, "Postmodern fertility preferences: From changing value orientation to new behavior"

Christine Bachrach, "Comment: The puzzling persistence of postmodern fertility preferences"

[Studies in Family Planning \(Volume 32\)](#)

[Number 1, March](#)

Articles

Mary Ellsberg, Lori Heise, Rodolfo Peña, Sonia Agurto, and Anna Winkvist, "Researching domestic violence against women: Methodological and ethical considerations"

Eltigani E. Eltigani, "Childbearing in five Arab countries"

Virgile Capo-chichi and Fatima Juarez, "Is fertility declining in Benin?"

Reports

Pinar Senlet, Siân L. Curtis, Jill Mathis, and Han Ridders, "The role of changes in contraceptive use in the decline of induced abortion in Turkey"

Robert J. Magnani, Eric E. Seiber, Emily Zielinski Gutierrez, and Dorina Vereau, "Correlates of sexual activity and condom use among secondary-school students in urban Peru"

Rosemary Santana Cooney and Jiali Li, "Sterilization and financial penalties imposed on registered peasant couples, Hebei Province, China"

[Number 2, June](#)

Articles

John B. Casterline, Zeba A. Sathar, and Minhaj ul Haque, "Obstacles to contraceptive use in Pakistan: A study in Punjab"

Stan Becker and Elizabeth Costenbader, "Husbands' and wives' reports of contraceptive use"

Kathleen Beegle, Elizabeth Frankenberg, and Duncan Thomas, "Bargaining power within couples and use of prenatal and delivery care in Indonesia"

Reports

Carol E. Kaufman, Thea de Wet, and Jonathan Stadler, "Adolescent pregnancy and parenthood in South Africa"

Kate Miller, Eliya Msiyaphazi Zulu, and Susan Cotts Watkins, "Husband-wife survey responses in Malawi"

[Number 3, September](#)

Articles

Ann K. Blanc, "The effect of power in sexual relationships on sexual and reproductive health: An examination of the evidence"

Mohamed M. Ali and John G. Cleland, "The link between postnatal abstinence and extramarital sex in Côte d'Ivoire"

Anrudh Jain, "Implications for evaluating the impact of family planning programs with a reproductive health orientation"

Reports

Robert J. Magnani, Lynne Gaffikin, Estela Maria Leão de Aquino, Eric E. Seiber, Maria de Conceição Chagas Almeida, and Varja Lipovsek, "Impact of an integrated adolescent reproductive health program in Brazil"

Lindy Williams, Teresa Sobieszczyk, and Aurora E. Perez, "Consistency between survey and interview data concerning pregnancy wantedness in the Philippines"

Amy Kaler and Susan Cotts Watkins, "Disobedient distributors: Street-level bureaucrats and would-be patrons in community-based family planning programs in rural Kenya"

[Number 4, December](#)

Articles

Barbara S. Mensch, Wesley H. Clark, Cynthia B. Lloyd, and Annabel S. Erulkar, "Premarital sex, schoolgirl pregnancy, and school quality in rural Kenya"

Marilou Costello, Marlina Lacuesta, Saumya RamaRao, and Anrudh Jain, "A client-centered approach to family planning: The Davao Project"

Luis Guilherme Penteado, Francisco Cabral, Margarita Diaz, Juan Diaz, Laura Ghiron, and Ruth Simmons, "Organizing a public-sector vasectomy program in Brazil"

Reports

Elwood Carlson and Vicki Lamb, "Changes in contraceptive use in Bulgaria, 1995-2000"

Ilene S. Speizer, B. Oleko Tambashe, and Simon-Pierre Tegang, "An evaluation of the 'Entre Nous Jeunes' peer-educator program for adolescents in Cameroon"

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 2,000 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 shaping population policy and programs and fostering research.

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. In 2001, the fellowship committee awarded 15 fellowships out of 98 applications received. Fellows listed here include awardees for 2000–01 and 2001–02. 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 International Programs Division administers fellowship programs in Nairobi and 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. The African Population and Health Research Center was established in 1995 to support scholars from sub-Saharan Africa in developing policy recommendations and exploring population dynamics in the region. It became an independent entity in 2001. There are two Vietnam fellowship programs. One supports highly qualified Vietnamese health professionals in obtaining the master of public health degree in the United States, and a new program provides master's degree training in public health and the social sciences with a focus on sexuality and reproductive health. 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.

The Council's biomedical fellowship program, administered by the Center for Biomedical Research, brings postdoctoral fellows to the center to conduct research in reproductive physiology and contraceptive development. An effort is made to provide scientific experience that will be useful to the fellows upon their return home. In 2001, 13 fellows from nine countries received training at the center. 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 reproductive health topics such as unsafe abortion, maternal mortality, and HIV/AIDS.

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.

SOCIAL SCIENCE FELLOWS

Africa

Eritrea

Markos Ezra. Midcareer resident training in demography, Population Council, New York (Bernard Berelson fellow).

Ethiopia

Gebre-Egziabher Kiros. Postdoctoral resident training in social demography, Population Council, New York (DeWitt Wallace fellow).

Ghana

Kubaje Adazu. Study toward Ph.D. in sociology, Brown University (DeWitt Wallace fellow).

Stephen Gyimah. Study toward Ph.D. in sociology and demography, University of Western Ontario.

Kenya

Auma Okwany. Fieldwork toward Ph.D. in education policy, Indiana University.

Malawi

Linda Semu. Fieldwork toward Ph.D. in sociology, Indiana University.

Mozambique

Carlos Arnaldo. Study toward Ph.D. in demography, Australian National University.

Tanzania

Flora Kessy Makundi. Fieldwork toward Ph.D. in family economics, University of Illinois, Urbana.

Zimbabwe

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

The Americas

Argentina

Susana Adamo. Fieldwork toward Ph.D. in sociology and demography, University of Texas, Austin.

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

Brazil

Leticia Marteleto. Study toward Ph.D. in sociology and demography, University of Michigan.

Costa Rica

Luis Rosero-Bixby. Midcareer resident training in population studies, Population Council, New York (Bernard Berelson fellow).

Mexico

Patricio Solis-Gutierrez. Fieldwork toward Ph.D. in sociology, University of Texas, Austin.

Peru

Silvana Vargas. Fieldwork toward Ph.D. in rural sociology and demography, Pennsylvania State University.

United States

Mary Bachman. Study toward Ph.D. in demography, Harvard University.

Valerie Durrant. Postdoctoral resident training in sociology, Population Council, New York and Pakistan (Bernard Berelson fellow).

Silvia Giorguli-Saucedo. Study toward Ph.D. in sociology, Brown University.

Steven Goodreau. Study toward Ph.D. in anthropology, Pennsylvania State University.

Kristine Hopkins. Postdoctoral resident training in sociology, Population Council, New York and Mexico (Bernard Berelson fellow).

Kim Korinek. Fieldwork toward Ph.D. in sociology, University of Washington.

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

Letitia Reason. Study toward Ph.D. in demographic anthropology, University of Washington.

Kristen Velyvis. Fieldwork toward Ph.D. in sociology and demography, University of Madison, Wisconsin.

Asia

Bangladesh

Mohammad Khan. Study toward Ph.D. in sociology and demography, University of Colorado, Boulder.

China

Jie Huang. Study toward Ph.D. in demography, University of California, Berkeley.

Jihong Liu. Study toward Ph.D. in population and reproductive health, Harvard University.

India

Soumya Alva. Postdoctoral research in social demography, University of North Carolina, Chapel Hill.

Unni Karunakara. Study toward Dr.P.H., Johns Hopkins University.

Manju Rani. Study toward Ph.D. in population dynamics, Johns Hopkins University (Parker Mauldin fellow).

Thailand

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

Turkey

Cem Mete. Postdoctoral research in economic demography, Yale University (Ritchie Reed fellow).

Vietnam

Thanh Huyen Vu. Study toward Ph.D. in sociology and demography, Brown University (Ritchie Reed fellow).

Europe

Switzerland

Clementine Rossier. Fieldwork toward Ph.D. in demography, University of California, Berkeley.

Ghana Fellows: Navrongo Health Research Centre

Ghana

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

Philomena Nyarko. Postdoctoral research in community health and family planning (Mellon fellow).

INTERNATIONAL PROGRAMS DIVISION FELLOWS

Africa

Egypt

Ibrahim Fahmy Abd El-Moneim Kharboush. Operations research on the global development and coordination of capacity building and economic research (Frontiers in Reproductive Health country fellow).

Kenya: African Population and Health Research Center

Alex Ezeh. Senior fellow and director. Establishes links with research institutions, donor agencies, and government ministries in the region; oversees regional exchange activities of the APHRC; implements APHRC's research agenda.

Pierre Ngom. Senior fellow. Establishes links with research institutions, donor agencies, and government ministries in the region; assists director in implementing APHRC's research agenda.

Evasius Bauni. Fellow. Collaborates on APHRC's research agenda.

Wanjiru Gichuhi. Fellow. Collaborates on APHRC's research agenda.

Monica Magadi. Fellow. Collaborates on APHRC's research agenda.

Eliya Zulu. Fellow. Collaborates on APHRC's research agenda.

Uganda

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

The Americas

Bolivia

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

Brazil

Sherri Lippman. Coordination of the strategic assessment and intervention design for reduction of STI/HIV transmission in the border regions of Brazil (Michigan fellow).

Guatemala

Gonzalo Ball Aju. Provides technical support to NGOs; study toward M.P.H. (Mayan fellow).

Maria Dolores Yax Sisimit. Qualitative and quantitative analyses of operations research projects (Mayan fellow).

Honduras/Guatemala

Claudia Regina Aguilar. Operations research on the global development and coordination of capacity building and economic research (Frontiers in Reproductive Health country fellow).

United States

Laurette Cucuzza. Operations research on capacity building and communications; published paper on STD diagnosis (Frontiers in Reproductive Health global fellow).

Inoussa Kaboré. Analysis and communication of the results of Frontiers and Horizons research in Burkina Faso (Frontiers in Reproductive Health global fellow).

Kristina Lantis. Operations research on sustainability; conducted literature reviews and assisted with the preparation of Frontiers reports for publication (Frontiers in Reproductive Health global fellow).

Asia

Philippines

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

Vietnam

Simon Fisher. Develops funding proposals for local projects; assists with research on demographic topics.

Aya Goto. Directs training course in reproductive health research skills, including epidemiology, biostatistics, and qualitative methods, for faculty and residents at two medical schools in Ho Chi Minh City and their affiliated hospitals.

Vu Ngoc Phinh. Assists with the fellowship program and local research projects prior to his study in the United States toward the M.P.H.

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

Ho Thi Van Anh. University of Washington.

Nguyen Tan Phuong Anh. Tulane University.

Nguyen Thi Tuan Anh. University of Michigan.

Le Cong Binh. Emory University.

Nguyen Kim Binh. Johns Hopkins University.

Dang Van Chuc. University of Washington.

Nguyen Hong Chuong. University of California, Berkeley.

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

Tran Van Duc. Tulane University.

Le Thi Thanh Ha. Columbia University.

Pham Bich Ha. Johns Hopkins University.

Phan Thi Thu Ha. University of Washington.

Le Bich Hai. Johns Hopkins University.

Nguyen Thanh Hang. University of North Carolina, Chapel Hill.

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

Khong Le Quynh Hoa. Tulane University.

Nguyen The Hoang. Johns Hopkins University.

Dam Duy Lam. Tulane University.

Hoang Thi Huong Lan. Tulane University.

Le Thi Phuong Mai. University of Massachusetts, Amherst.

Nguyen Truong Minh. Emory University.

Nguyen Kim Xuan Nam. University of Alabama.

Vu Quynh Nga. Harvard University.

Nguyen Van Nghi. University of Washington.

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

Huyhn Thi Bich Ngoc. Tulane University.

Kim Thuy Oanh. Emory University.

Nguyen Trong Oanh. Tulane University.

Vu Ngoc Phinh. Boston University.

Le Tan Phung. University of Michigan.

Ngo Van Quang. University of Washington.

Nguyen Thi Tam. Tulane University.

Nguyen Duc Thanh. Tulane University.

Nguyen Nhat Thanh. Columbia University.

Nguyen Thi Thao. University of Michigan.

Chu Phuc Thi. Emory University.

Nguyen Ngoc Thieu. Boston University.

Thai Thanh Thu. Tulane University.

Nguyen Xuan Thuy. University of Pittsburgh.

Phan Bich Thuy. Johns Hopkins University.

Nguyen Quynh Trang. Harvard University.

Hoang Thi Diem Tuyet. Johns Hopkins University.

Pham Thi Hoang Van. Harvard University.

Tran Khanh Van. University of Massachusetts, Amherst.

Nguyen Viet. University of North Carolina, Chapel Hill.

Bui Quang Vinh. Harvard University.

Nguyen Duc Vinh. Tulane University.

Nguyen Thi Diem Xuan. University of Washington.

Nguyen Viet Xuan. University of Alabama.

The following Vietnam fellows are studying toward masters degrees in public health and the social sciences with a focus on sexuality and reproductive health at the institutions listed.

Tran Thi Thu Ha. University of Melbourne.

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

Nguyen Tran Lam. University of Amsterdam.

Nguyen Thi Thu Nam. University of Amsterdam.

Nguyen Truong Nam. Columbia University.

Tong Hoai Nam. Harvard University.

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

BIOMEDICAL FELLOWS

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

Africa

Nigeria

Benson Akingbemi. Lecturer, University of Zimbabwe, Department of Preclinical Veterinary Studies. Effects of endocrine disruptors on Leydig cell steroidogenic function.

The Americas

United States

Melanie Rie. Postdoctoral fellow, Department of Biology, Boston University. Regulation of apoptosis in male germ cells: The role of Bcl-x.

Asia

China

Quanxi Li. Assistant researcher, Beijing Institute for Cancer Research. Role of steroid-regulated genes in the endometrium during implantation.

Xue-Feng Liu. Research assistant, Shanxi Key Laboratory of Biotechnology, Shanxi University. Role of progesterone receptor in gene transcription.

Hui-Juan Shi. Lecturer, Department of Biochemistry, East China University of Science and Technology, Shanghai. Cloning and functional analysis of rat sperm-supplied protein, a novel paternal protein required for early embryo development.

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.

Korea

Yong Pil Cheon. Research scientist, Department of Obstetrics and Gynecology, University of Ulsan, Seoul. Role of estrogen-regulated genes in the uterus during implantation.

Europe

Austria

Ines Frank. Postdoctoral fellow, Laboratory of Cellular Physiology and Immunology, Rockefeller University, New York. Interactions between HIV and dendritic cells and the modulation of this interaction to prevent virus transmission and promote immune activation.

France

Laurence Walch. Postdoctoral fellow, Centre National de la Recherche Scientifique, Paris. Cytokine regulation of Leydig cell progenitors.

Germany

Anke Diemert. Predoctoral fellow, University of Luebeck School of Medicine. Regulation of the cell cycle in male germ cells.

Russia

Natalia Teleshova. Postdoctoral fellow, Laboratory of Cellular Physiology and Immunology, Rockefeller University, New York. Modes of communication between novel dendritic cell subsets and immunodeficiency virus in the SIV-macaque system.

Spain

Antonio Salva. Postdoctoral fellow, Center for Biochemistry and Molecular Biology Research, Vall d'Hebron Hospital, Barcelona. Antiproliferative effects of Müllerian-inhibiting substance on regenerating Leydig cells.

Carmen de Torres. Research investigator, Center for Biochemistry and Molecular Biology Research, Vall d'Hebron Hospital, Barcelona. Cell-specific regulation of gene expression by androgens.

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 five decades, the Council has collaborated with governments, universities, hospitals, research centers, family planning agencies, and individuals in most countries of the developing world. Much of the Council's work is carried out through such collaboration. In 2001, awards and grants went to 215 institutions and individuals in 54 countries, most of them in Africa, the Americas, and Asia. This list includes the MEAwards, offered through the Middle East Research Awards Program in Population and the Social Sciences, which supports interdisciplinary studies and professional development for scholars in that region.

AFRICA

Burkina Faso

[Mwangaza Action, Ouagadougou](#)

Test a community-based education program to improve women's reproductive health and stop female genital cutting.

[L'Unité d'Enseignement et de Recherche en Démographie, Ouagadougou](#)

Test a community-based education program to improve women's reproductive health and stop female genital cutting.

Cameroon

[Institute for Research and Behavioral Studies, Yaoundé](#)

Peer education as a strategy to increase contraceptive prevalence and reduce the rate of STIs/AIDS among adolescents.

Egypt

[Rabab Abdulhadi, Cairo](#)

Post-Oslo identification patterns and collective action of Palestinian refugees in Lebanon (MEAward).

[Hibba Abugideiri, Cairo](#)

Egyptian women and science: Gender in the making of colonized medicine, 1893–1929 (MEAward).

[Cairo Demographic Center, Cairo](#)

Operations research course.

[Nile El-Wardani, Cairo](#)

Procedural justice in health financing reform and implications for family planning programs (MEAward).

[El-Zanaty and Associates, Giza](#)

Assess the Egyptian Norplant® program.

[Anita Fabos, Cairo](#)

Egyptian perceptions of forced migrants in Cairo: National identity and hosting the "other" (MEAward).

[Save the Children, Cairo](#)

Study of girls' participation in sports and physical activities in El Minya.

[Adel Shaaban, Cairo](#)

Social security networks and the alleviation of poverty in Egypt: Evaluating the impact of micro-credit programs on poor households (MEAward).

[Hala Shukrallah, Mohandessen](#)

Effect of economic restructuring and privatization on the labor force in the public textile sector (MEAward).

[Social Planning, Analysis and Administrative Consultants, Cairo](#)

Impact of improved client-provider interaction on women's achievement of fertility goals.

[Ayman Gaafar Zohry, Cairo](#)

Rural-to-urban labor migration: A study of Upper Egyptian laborers in Cairo (MEAward).

Ethiopia

[Family Guidance Association of Ethiopia, Addis Ababa](#)

Expand access to coital-dependent methods and dual protection within youth-centered sexual and reproductive health care facilities.

Ghana

[Ghana National Health Service, Accra](#)

Program to monitor and evaluate the Community-based Health Planning and Services project.

[Health Research Unit, Ministry of Health, Accra](#)

Improving the Ghanaian Safe Motherhood Programme: Evaluating the effects of enhanced training and other performance improvement factors on the quality of maternal care and client outcome.

Prioritizing interventions for sexually transmitted and other reproductive tract infections: Implementing and evaluating a decisionmaking process.

[The Indepth Network, Accra](#)

Technical assistance to health research stations engaged in demographic surveillance in sub-Saharan Africa.

[Navrongo Health Research Centre](#)

Test the demographic impact of community health and family planning services in a traditional rural area of northern Ghana.

Construct two community health compounds in the Community Health and Family Planning project area.

Support dissemination activities at the Navrongo Health Research Centre as part of Experimental Family Planning Studies in Rural Africa.

[Volta Regional Health Administration, Ho, Volta Region](#)

Create a lead district for the Community-based Health Planning and Services project in Nkwanta District of the Volta Region of Ghana.

Kenya

[African Population and Health Research Center, Nairobi](#)

Completion of the pilot phase of the Nairobi Urban Demographic Surveillance System.

Interim support to the African Population and Health Research Center.

Factors affecting contraceptive use in Mali.

[Kenya Rural Enterprise Programme, Nairobi](#)

TRY credit and savings project for adolescent girls.

Build livelihood options for adolescent girls and boys.

[Network of AIDS Researchers of Eastern and Southern Africa, Nairobi](#)

Feasibility and effect of integrating voluntary HIV counseling and testing with antenatal and perinatal services to reduce mother-to-child transmission of HIV.

[Regional AIDS Training Network, Nairobi](#)

Develop a training course in use of research results.

Mali

[Association Malienne de Soutien aux Activités de Population, Bamako](#)

Promote family planning services in the Segou and Sikasso rural areas.

[Association Malienne pour la Promotion et Protection de la Famille, Bamako](#)

Promote family planning in rural Kayes.

[Coopérative des Femmes pour l'Education, la Santé Familiale et l'Assainissement, Bamako](#)

Promote family planning services in urban Bamako.

Morocco

[Bouchta El-Khayari, Fes](#)

Anthropology of AIDS and sexually transmitted infections among adolescents (MEAward).

[Mehdi Lahlou and Claire Escoffier, Rabat](#)

New migrants and new strategies: From sub-Saharan countries to Europe through Maghreb (MEAward).

[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 (MEAward).

Nigeria

[Association for Family and Reproductive Health, Ibadan](#)

Promote dual protection practices among women and their male partners in Ibadan.

Promote dual protection practices among women and their male partners in Lagos and Oshogobo.

Senegal

[African AIDS Research Network, Dakar](#)

Dissemination plan for the Horizons program's STI/HIV/AIDS research results in West and Central Africa.

[Centre de Formation et de Recherche en Santé de la Reproduction, Dakar](#)

Improve the reproductive health of adolescents.

[Programme National de Lutte contre le SIDA/Centre Régional "Paul Correa" de Formation sur les MST et le SIDA, Dakar](#)

Men having sex with men in Senegalese society: Gathering information for the prevention of HIV/AIDS.

[Tostan, Inc., Thies](#)

Test a community-based education program to improve women's reproductive health and stop female genital cutting.

South Africa

[Council for Scientific and Industrial Research, Johannesburg](#)

Operations research in the Carletonville STI/HIV project.

[DRA-Development CC, Durban](#)

Address stigma and strengthen preventive, care, and support services for workers.

[Institute for Pathology, University of Pretoria](#)

External quality assurance/quality control for Carraguard™ clinical trial.

[Medical Research Council, Durban](#)

Safety and acceptability of a carageenan microbicide.

Phase 1 safety and acceptability study of Carraguard™ as a potential microbicide among HIV-positive men and women.

[Medical Research Council, Tygerberg](#)

Teaching life skills and HIV prevention in South African schools.

[Medical University of Southern Africa, Ga-Rankuwa](#)

Safety and acceptability of a carageenan microbicide.

Scale up and develop educational materials for Phase 3 trial of Carraguard™ for use as a microbicide.

[Progressus Research and Development Consultancy CC, Gauteng](#)

Cross-sectional survey in Carletonville.

[Reproductive Health Research Unit, Johannesburg](#)

Strengthen the capacity of the Reproductive Health Research Unit to train researchers and program managers in operations research and use of data.

Assess the performance of alternative youth center models.

Involving men in their partners' antenatal and postpartum care: Impact on family planning use and the prevention of sexually transmitted infections at six months postpartum.

[South African Institute for Medical Research, Johannesburg](#)

Analysis of biological specimens from a cross-sectional survey in Carletonville.

[University of Cape Town](#)

Safety and acceptability of a carageenan microbicide.

Characterization of participants and nonparticipants in the Carraguard™ expanded safety and acceptability trial in Cape Town.

Informed consent materials for the Carraguard™ expanded safety study.

Trial to assess expanded safety, acceptability, and preliminary effectiveness of Carraguard™ in preventing STI/HIV transmission.

Develop a strategy for reproductive health research: Background information and documentation.

Evaluate termination of pregnancy clients for eligibility in a medical abortion trial.

Scale up for Phase 3 trial of Carraguard™ for use as a microbicide and RTI sampling study.

[University of Natal, Durban](#)

Conduct the second wave of a survey of adolescents in KwaZulu-Natal Province.

Transition to adulthood in the context of AIDS.

Tunisia

[Société Tunisienne d'Endocrinologie, Tunis](#)

Research on mifepristone–misoprostol medical abortion: Expanding access and simplifying the regimen.

Uganda

[AIDS Information Centre, Kampala](#)

Integrate voluntary HIV counseling and testing into health services.

[Makerere University, Kampala](#)

Strengthen the capacity of the Regional Centre for Quality of Health Care, Makerere University, to train users of operations research.

Modified approach to outreach for AIDS-affected children.

Integrate voluntary HIV counseling and testing into health services.

Operations research study of voluntary counseling and testing among youth.

Randomized, controlled trial of oral misoprostol and manual vacuum aspiration for the treatment of incomplete first-trimester abortion.

[Regional Centre for Quality of Health Care, Kampala](#)

Improving the quality of family planning services.

[Sexually Transmitted Diseases/AIDS Control Programme, Ministry of Health, Kampala](#)

Integrate voluntary HIV counseling and testing into health services.

Zambia

[CARE/Zambia, Lusaka](#)

Involve young people in the care and support of people living with HIV/AIDS.

[Central Bureau of Statistics, Lusaka](#)

Study the effect of introducing Norplant® and DMPA®.

[Development Aid from People to People, Zambia, Ndola](#)

Community-integrated voluntary counseling and testing and maternal and child health project.

[Family Health Trust, Lusaka](#)

Involve young people in the care and support of people living with HIV/AIDS.

[National AIDS/STDs/TB and Leprosy Control Programme, Central Board of Health, Lusaka](#)

Evaluate the feasibility of implementing a comprehensive package of care to reduce mother-to-child transmission of HIV.

Zimbabwe

[Center for Population Studies Trust, University of Zimbabwe, Harare](#)

Reducing STI/HIV risk among pregnant women and their partners: An intervention study.

[Project Support Group, Harare](#)

Targeted versus general population interventions for STI/HIV prevention.

THE AMERICAS

Bolivia

[Centro de Información y Desarrollo de la Mujer, La Paz](#)

Assess the effect of community-based intervention on service use in family planning and reproductive health.

[Programa de Coordinación en Salud Integral, La Paz](#)

Effects and cost of implementing a gender-sensitive reproductive health program.

[Taller de Historia y Participación de la Mujer, La Paz](#)

The involvement of men in perinatal health care in El Alto, Bolivia.

Brazil

[Centro de Pesquisas e Controle das Doenças Materno-Infantis de Campinas, São Paulo](#)

Study of Nestorone® progestin subdermal implants for contraception in women.

[Programa Integrado de Marginalidade, Rio de Janeiro](#)

Assess the use of community development approaches by sex workers to reduce their vulnerability to HIV and other STIs.

[Sociedade de Estudos e Pesquisas em Drogadicção, Rio de Janeiro](#)

Assess the use of community development approaches by sex workers to reduce their vulnerability to HIV and other STIs.

Canada

[University of British Columbia, Vancouver](#)

Study to compare abortions induced by mifepristone followed by vaginal versus oral misoprostol up to 56 days' gestation.

[University of Montreal](#)

Study of cytokines as a target for male contraception.

Study of Sertoli cell junctional proteins.

Chile

[Instituto Chileno de Medicina Reproductiva, Santiago](#)

Study of the effect of size of spreading surface on transdermal absorption of Nestorone® progestin gel.

Study of the transdermal absorption of Nestorone® progestin: Kinetics of clearance from skin surface.

Clinical evaluation of antispermato-genic effects of active immunization against LHRH in normal fertile men.

Study of menstrual patterns in women using Nestorone® and Nestorone®/estradiol contraceptive rings on a continuous usage regimen.

Comparative study of two levonorgestrel-releasing implant systems: Norplant® implants and two-rod levonorgestrel implants (Jadelle®).

Phase 2 comparative study of redesigned Nestorone® progestin subdermal implants.

Effects of MENT™ acetate subdermal implants used for six months on gonadotropins and spermatogenesis in healthy men.

Study of ovulation inhibition and menstrual patterns in women using Nestorone® progestin/ethynyl-estradiol contraceptive rings on a bleeding signal regimen.

Purchase of laboratory equipment for use in ICCR-sponsored studies.

Colombia

[Unidad de Orientación y Asistencia Materna, Bogotá](#)

Unwanted pregnancy and abortion: Public health challenges in Latin America and the Caribbean.

Costa Rica

[Fundación de Universidad de Costa Rica para la Investigación, San José](#)

Add operations research to the curriculum of the graduate program in statistics and public health.

Dominican Republic

[Asociación Dominicana Pro-Bienestar de la Familia, Santo Domingo](#)

Three- to five-year safety and efficacy study of reformulated two-rod levonorgestrel implants (Jadelle®).

Phase 1 study of the effect of a Nestorone® intrauterine system on the endometrium.

Clinical study of ovulation inhibition and menstrual patterns in women using Nestorone® progestin/ethynylestradiol contraceptive rings on a bleeding signal regimen.

Safety and acceptability study of vaginal gel formulation Carraguard™ for use as a possible microbicide.

Pharmacokinetic study of levonorgestrel administration for emergency contraception.

Pharmacokinetic study of Nestorone® progestin transdermal contraceptive formulations.

Effects of MENT™ acetate subdermal implants on gonadotropins and spermatogenesis in healthy men.

Phase 2 comparative study of redesigned Nestorone® progestin subdermal implants.

Bioavailability of MENT™ administered transdermally by a gel.

Dose-finding study of various transdermal formulations of Nestorone®.

Study of Nestorone® progestin transdermal patches for emergency contraception.

Study of menstrual patterns in women using Nestorone® progestin/ethynylestradiol contraceptive rings on a continuous usage regimen.

[Centro de Orientación e Investigación Integral, Santo Domingo](#)

Test and compare the effect of two approaches to a 100 percent condom use program in commercial sex establishments.

Formative research toward HIV/STI prevention interventions among male clients and other sexual partners of female sex workers.

[Centro de Promoción y Solidaridad Humana, Puerto Plata](#)

Test and compare the effect of two approaches to a 100 percent condom use program in commercial sex establishments.

Formative research toward HIV/STI prevention interventions among male clients and other sexual partners of female sex workers.

Ecuador

[Centro Médico de Orientación y Planificación Familiar, Quito](#)

Extend operations research to social marketing programs.

Effect of varying frequency and magnitude of price increases on clinical reproductive health services.

Guatemala

[Asociación de Servicios Comunitarios de Salud, Chimaltenango](#)

Institutional strengthening in maternal and child health.

[Asociación Pro-Bienestar de la Familia de Guatemala, Guatemala City](#)

Willingness-to-pay study.

Test strategies to increase the activities of promoters.

Preintroductory study of Norplant®.

[Asociación Renacimiento, Chimaltenango](#)

Strengthen maternal and child health in Patzun, Chimaltenango, and rural communities.

[Asociación SHARE de Guatemala, Guatemala City](#)

Increase access to maternal and child health services for families in 68 communities in Guatemala's Highlands.

[Centro de la Mujer B'elejeb B'atz, Quezaltenango](#)

Institutional strengthening and "autodiagnóstico" related to reproductive health among community-based Mayan women's organizations.

[Cooperación para el Desarrollo Rural de Occidente, Totonicapán](#)

Reproductive health and child health project.

[Cooperativa Agrícola el Recuerdo, R.L., Jalapa](#)

Reproductive health and integrated management of childhood illnesses.

[Instituto de Educación Integral para la Salud y el Desarrollo, Quezaltenango](#)

Study of control and prevention of diarrheal disease in children under five years of age, and of exclusive breastfeeding as a natural method of family planning.

[PIES de Occidente, Quezaltenango](#)

Introduce and expand reproductive and child health activities.

[Rxiin Tnamet, Solola](#)

Expand reproductive health activities.

Honduras

[Hospital Materno Infantil, Tegucigalpa](#)

Support a training and model service delivery center at the Hospital Escuela.

Mexico

[Academia Nacional de Medicina de México, Mexico City](#)

Unwanted pregnancy and abortion: Public health challenges in Latin America and the Caribbean.

[Fundación Mexicana para la Planeación Familiar, A.C., Tlalpan](#)

Improve the reproductive health of young people.

[Instituto Mexicano de Investigación de Familia y Población, Mexico City](#)

Evaluate AIDS-focused sexual health education among eleventh and twelfth graders in the state of Mexico.

[Instituto Nacional de Salud Pública, Cuernavaca](#)

Pilot study of verbal autopsy as a method to assess the contribution of abortion-related deaths to overall maternal mortality in the state of Morelos and the municipality of Nezahualcóyotl, Mexico.

Peru

[Comunicación Andina, Cusco](#)

Information, education, and communication strategies culturally appropriate for improving adolescents' reproductive health in Cusco, the Inka region of Peru.

United States

[The Alan Guttmacher Institute, New York, NY](#)

Co-sponsor the Latin America and Caribbean (LAC) regional meeting on abortion research.

[Aurora Medical Services, Inc., P.S., Seattle, WA](#)

Research on mifepristone–misoprostol medical abortion in the United States: Simplifying the regimen.

[Blancroft Research International, LLC, Columbia, MD](#)

Review research findings on power in sexual relationships.

Assess future needs for training and support of population experts from less-developed countries.

[Koray Calishan, Brooklyn, NY](#)

Locating the market in the age of neoliberal reforms: Cotton trade and production in Egypt and Turkey (MEAward).

[Duke University, Durham, NC](#)

Evaluate spreading and retention of novel microbicides based on modified carrageenan formulations.

[EngenderHealth, New York, NY](#)

Taking postabortion care services where they are needed: Testing expansion to rural areas in Senegal.

Testing two models of postabortion family planning services to reduce repeat abortions in Russia.

[Family Health International, Research Triangle Park, NC](#)

Partner organization for implementation of the Frontiers in Reproductive Health program.

Technical assistance in the design and analysis of cost studies related to the HIV/AIDS operations research program (Horizons).

Technical assistance for the Population Council's study on the safety and acceptability of a carrageenan microbicide.

[The Futures Group International, Glastonbury, CT](#)

Cost-effectiveness tools to assist HIV/AIDS program managers in allocating resources.

[Health Research Association of the Los Angeles County/University of Southern California Medical Center, Los Angeles, CA](#)

Phase 1 study of the effect of the Nestorone® intrauterine system on the endometrium.

Clinical study of estradiol/progesterone vaginal rings for hormone replacement therapy.

Study of ovulation inhibition in women using Nestorone® progestin/ethynylestradiol contraceptive rings on a bleeding signal regimen.

[International Center for Research on Women, Washington, DC](#)

Partner organization for implementation of the HIV/AIDS operations research program (Horizons).

[Ipas, Chapel Hill, NC](#)

Test a model for the delivery of emergency obstetric care and family planning services in Bolivia's public health system.

Sustainability of postabortion care in Peru.

[Johns Hopkins University, Baltimore, MD](#)

Operations research: Impact of client communication training on client participation and contraceptive continuation in Indonesia.

Support for communications workshop.

Test and compare the effect of two approaches to a 100 percent condom use program in commercial sex establishments in the Dominican Republic.

Study of the mechanism of action of endocrine disruptors on the Leydig cell.

Research on mifepristone–misoprostol medical abortion in the United States: Simplifying the regimen.

Effect of quality of care on contraceptive use: Evidence from longitudinal data from rural Bangladesh.

[Management Systems International, Inc., Washington, DC](#)

Study of the relationship between participation in a microfinance program and mitigation by household members of the impact of illness and death resulting from HIV/AIDS.

[The Milton S. Hershey Medical Center, The Pennsylvania State University, Hershey, PA](#)

Blocking HIV infection of human vaginal xenographs in a mouse system.

[The Miriam Hospital, Providence, RI](#)

Corticosteroids, stress, and Leydig cell function.

[New York University Medical Center, New York, NY](#)

Three- to seven-year safety and efficacy study of reformulated two-rod levonorgestrel implants (Jadelle®).

Comparative blood concentration study of levonorgestrel released from two-rod implants (Jadelle®).

[Orring and Murphy Demographics, Denver, CO](#)

Supervise and manage research and data collection in South Africa for the project entitled "Transition to adulthood in the context of AIDS in South Africa."

[Program for Appropriate Technology in Health, Seattle, WA](#)

Partner organization for implementation of the HIV/AIDS operations research program (Horizons).

Community-level case management of infection in settings with a high prevalence of HIV/AIDS.

Programs for HIV prevention in schools in Thailand.

Improve the reproductive health of adolescents in Kenya.

[Project Concern International, San Diego, CA](#)

Improve health care providers' knowledge, attitudes, and practices related to reproductive health in rural Romania.

[Reproductive Health Technologies Project, Washington, DC](#)

Fund a meeting on misoprostol in Washington, DC.

[Sexology Omnibus, San Francisco, CA](#)

Evaluate the effects of nonoxynol-9 on rectal epithelia.

[Cihan Tugal, Ann Arbor, MI](#)

Migration, culture, religion, and the making of urban hierarchies (MEAward).

[Tulane University, New Orleans, LA](#)

Partner organization for implementation of the HIV/AIDS operations research program (Horizons).

Partner organization for implementation of the Frontiers in Reproductive Health program.

[University of Alabama at Birmingham, AL](#)

Partner organization for implementation of the HIV/AIDS operations research program (Horizons).

[University of Illinois at Urbana-Champaign, Champaign, IL](#)

Study of the mechanism of progesterone-induced gene activation.

[University of Rochester, NY](#)

Randomized study of buccal versus vaginal misoprostol administration 24 to 72 hours after administration of mifepristone 200 mg for abortion up to 56 days' gestation.

Research on mifepristone–misoprostol medical abortion in the United States: Simplifying the regimen.

[University of Texas Medical Branch at Galveston, TX](#)

Effectiveness of condoms in reducing heterosexually transmitted HIV.

[Nasan Ustandag, Bloomington, IN](#)

Alternative modernities: The case of migrant women in Turkey (MEAward).

ASIA

Bangladesh

[Bangladesh Institute of Development Studies, Dhaka](#)

Collect and analyze follow-up data for Rajshahi in-depth village study.

Conduct and analyze baseline survey for adolescent girls project.

[BRAC, Dhaka](#)

Kangaroo mother care to prevent neonatal and infant mortality.

[Mitra and Associates, Dhaka](#)

Kangaroo mother care to prevent neonatal and infant mortality.

[National Institute of Population Research and Training, Dhaka](#)

Integrate reproductive health services for men in family welfare centers.

[ORG-Marg Quest Ltd., Dhaka](#)

Introducing emergency contraception in rural Bangladesh: Data collection and processing.

Cambodia

[Cambodian Researchers for Development, Phnom Penh](#)

Build community identity among debt-bonded sex workers.

China

[Chinese University of Hong Kong](#)

Characterization of transport properties of the rat efferent duct, with particular reference to the role of estrogen.

Investigation of the chloride channel blocking effects of lonidamine and its derivatives in the rat epididymis.

[Shanghai Second Medical University](#)

Study of glucocorticoid control of Leydig cell death and mitosis.

[University of Hong Kong](#)

Analysis of the promoter sequence of rat and mouse testin.

Study of GAS6 expression and tyrosine kinase phosphorylation in testicular lines.

Construction of mouse testin gene deletion vector and transgenic study of its genomic structure.

India

[Academy for Nursing Studies, Hyderabad](#)

Informed and expanded contraceptive choice: Assessing barriers to and opportunities for policy implementation in Andhra Pradesh.

[Centre for Operations Research and Training, Vadodara](#)

Community-based survey on unintended pregnancy and abortion in Rajasthan.

Impact assessment of introducing DMPA® injectable contraceptive to private medical practitioners in urban Gujarat.

Integrating adolescent livelihood activities within a reproductive health program for urban slum dwellers.

[Community Health Department, Christian Medical College, Vellore](#)

Understanding health needs in the postreproductive age group.

[Deepak Charitable Trust, Baroda](#)

Satellite session on male semen loss concern and its relation to STI/HIV interventions, at the Sixth International Conference on AIDS in Asia and the Pacific.

[Family Planning Association of India, Mumbai](#)

Informed and expanded contraceptive choice: Assessing barriers to and opportunities for policy implementation in Madhya Pradesh.

[Foundation for Research in Health Systems, Ahmedabad](#)

Study of factors contributing to maternal death.

Increasing community involvement in planning and monitoring reproductive and child health services: Operations research in family planning and reproductive health.

[Government Medical College, Maharashtra](#)

Feasibility of introducing abuse assessment screening during routine antenatal care in hospitals.

[Ibtada, Rajasthan](#)

Unintended pregnancy and abortion in Rajasthan: A qualitative exploration.

[Institute of Economic Growth, Delhi](#)

Improve the hospital environment for HIV-positive clients.

[International Institute for Population Sciences, Mumbai](#)

Informed and expanded contraceptive choice: Assessing barriers to and opportunities for policy implementation in Maharashtra.

[K.E.M. Hospital, Pune](#)

Develop and operate a center to collaborate on studies of medical abortion and misoprostol.

[Mahila SEWA Trust, Ahmedabad](#)

Building livelihood skills and opportunities for adolescent girls in Ahmedabad and Vadodara Districts, Gujarat: Proposal for research and evaluation activities.

[National Council of Applied Economic Research, New Delhi](#)

Scale up affordable and appropriate care and support services for people living with HIV/AIDS in south India.

[Pondicherry University](#)

Effect of environmental contaminants on the molecular mechanism in the testis.

Effect of xenoestrogens on the molecular mechanism in the testis.

[Self-Employed Women's Association, Ahmedabad](#)

Building livelihood skills and opportunities for adolescent girls in Ahmedabad and Vadodara Districts, Gujarat.

[SHARAN—Society for Service to Urban Poverty, New Delhi](#)

Improve the hospital environment for HIV-positive clients.

[Taylor Nelson Sofres Mode Pvt. Ltd., New Delhi](#)

Survey of couples attending the antenatal clinic at three Employees' State Insurance Scheme (ESIS) dispensaries and of women attending three other ESIS dispensaries in Delhi.

[Y.R. Gaitonde Centre for AIDS Research and Education, Chennai](#)

Scale up affordable and appropriate care and support services for people living with HIV/AIDS in south India.

Israel

[Shaare Zedek Medical Center, Jerusalem](#)

Clinical study of estradiol/progesterone vaginal rings for hormone replacement therapy.

Study of the efficiency of mifepristone in cervical softening prior to office hysteroscopy.

Kazakhstan

[The Academy of Preventive Medicine, Almaty](#)

Promotion of lactation amenorrhea method intervention trial.

Lebanon

[American University of Beirut](#)

Support Huda Zurayk's activities with the Reproductive Health Working Group of the Population Council's West Asia and North Africa regional office.

[Najib Hourahi, Beirut](#)

Reconstructing the city: Urban space in the era of neoliberalism (MEAward).

[Naila Nauphal, Beirut](#)

Community reconstruction in Lebanese displaced populations (MEAward).

[Mona Shediak-Rizkallah and Rima Afifi Soweid, Beirut](#)

Health promotion among university students (MEAward).

Myanmar

[Department of Health, Yangon](#)

Reproductive behavior and decisionmaking among women with unwanted pregnancies.

Township model for improving the quality of postabortion care services.

Improving the quality of postabortion care services in a tertiary-level hospital.

[Department of Medical Research, Yangon](#)

Emergency contraception in Yangon: A situation analysis.

[Department of Population, Ministry of Immigration and Population, Yangon](#)

Revision of sampling plans for the proposed fertility and reproductive health survey.

Nepal

[The Asia Foundation, Kathmandu](#)

Intervention needs for the prevention of trafficking and the care and support of trafficked persons in the context of an emerging HIV/AIDS epidemic in Nepal.

[Center for Research on Environment Health and Population Activities, Kathmandu](#)

Determine an effective and replicable communication-based mechanism for improving young couples' access to and use of reproductive health information and services.

Pakistan

[The Aga Khan University, Karachi](#)

Community-based study of traditional postpartum practices, perceived postpartum morbidity, and health-seeking behavior.

Gender perspectives on induced abortion in Pakistan: Knowledge and attitudes.

Palestine

[Alpha International for Research, Polling and Informatics, Ramallah](#)

Post-test survey for the West Bank/Gaza pilot health project.

[Center for Development in Primary Health Care, Al-Bireh](#)

Training program for the West Bank/Gaza pilot health project.

Improving postpartum care among low-parity mothers.

[Health, Development, Information and Policy Institute, Ramallah](#)

Create a unified management information system for three NGOs in the West Bank/Gaza.

Operations research and institutional support for the West Bank/Gaza pilot health project.

[Najwa Rizkallah, Jerusalem](#)

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

[Lisa Taraki, Birzeit](#)

Urban and class dynamics in Palestine (MEAward).

Saudi Arabia

[Yassir Awad Elkareem, Riyadh](#)

Under-five mortality differentials according to standards of living: Policy-oriented analysis in rural and urban Sudan (MEAward).

Singapore

[National University of Singapore, Department of Obstetrics and Gynecology](#)

Comparative blood concentration study of levonorgestrel released from two-rod implants (Jadelle®).

Comparative study of levonorgestrel released from two-rod implants (Jadelle®) and Norplant® implants.

Thailand

[Family Planning Unit, Department of Obstetrics and Gynecology, Chulalongkorn University, Bangkok](#)

Research on misoprostol for the treatment of abortion complications.

[Lampang Provincial Health Office, Ministry of Public Health, Lampang](#)

Community-level case management of infection in settings with high HIV/AIDS prevalence.

[Siriraj Family Health Research Center, Bangkok](#)

Comparative study of levonorgestrel released from two-rod implants (Jadelle®) and Norplant® implants.

Research on misoprostol for the treatment of abortion complications.

[Thai Population Association, Bangkok](#)

Support for the 2001 Thai national symposium on population studies.

[Thailand Business Coalition on AIDS, Bangkok](#)

Evaluate and accredit workplace AIDS programs.

Turkey

[Fikret Adaman and E. Unal Zenginobuz, Istanbul](#)

Aspects of population-related environmental problems in Istanbul and willingness to pay for environmental improvement (MEAward).

[Tamer Aker and Melih Ozeren, Istanbul](#)

Psychological problems related to forced internal displacement in Turkey (MEAward).

[Dilek Cindoglu, Ankara](#)

Sexual purity and artificial virginity in contemporary Turkey (MEAward).

[Hacettepe University School of Medicine, Department of Public Health, Ankara](#)

Research on mifepristone–misoprostol medical abortion: Simplifying the regimen.

[Ahmet Icduygu and Daniele Joy, Ankara](#)

Bridging the Middle East and Europe: Transit migration flows in Turkey (MEAward).

[Institute of Child Health, University of Istanbul](#)

Clinical study of immediate postabortion use of levonorgestrel intrauterine device and Norplant®.

[Istanbul University, Istanbul](#)

Education program for expectant fathers: Training of trainers.

[Ayhan Kaya, Istanbul](#)

Identity formation and articulation among the Circassian diaspora in Turkey: A comparative study of the Circassian identities in Istanbul, Samsun, and Kayseri (MEAward).

[Dicle Kogacioglu, Istanbul](#)

Citizenship in context: Identities and practices in Turkey (MEAward).

[Arzu Ozturkmen, Istanbul](#)

Negotiating memory and place: The making of local knowledge in Tirebolu (MEAward).

Vietnam

[Apollo Education Center, Hanoi](#)

Graduate Record Exam training program for fellows.

Intensive English-language training for prospective fellows.

[Ba Dinh Red Cross, Hanoi](#)

Implement the soccer and HIV/AIDS prevention project in Hanoi.

[College of Social Sciences, Ho Chi Minh City National University, Ho Chi Minh City](#)

Expanding workplace prevention activities in a highly mobile population: Construction workers in Ho Chi Minh City.

[Counseling Center for Psychological Education, Love, Marriage and Family, Ho Chi Minh City](#)

Tackling domestic violence: Adapting guidance materials for rural communities.

[Danang General Hospital, Danang](#)

Research on mifepristone–misoprostol medical abortion.

[District Committee for Population and Family Planning, Hai Phong City](#)

Fertility dynamics: Study of a floating village on Catba Island.

[Hai Phong MCH/FP Center, Hai Phong City](#)

Research on mifepristone–misoprostol medical abortion.

Antenatal care and factors associated with low birthweight in Hai Phong City.

[Hanoi MCH/FP Center, Hanoi](#)

Research on mifepristone–misoprostol medical abortion.

[Health Strategy and Policy Institute, Hanoi](#)

Private health services at the grassroots level.

[Ho Chi Minh City AIDS Committee Bureau, Ho Chi Minh City](#)

Expanding workplace prevention activities in a highly mobile population: Construction workers in Ho Chi Minh City.

[Hue MCH/FP Center, Hue](#)

Research on mifepristone–misoprostol medical abortion.

[Hung Vuong Hospital, Ho Chi Minh City](#)

Research on mifepristone–misoprostol medical abortion.

Intervention study for improvement of abortion counseling at Hung Vuong Hospital.

Evaluate the incidence and severity of postpartum infection.

[Institute for the Protection of Mother and Newborn, Hanoi](#)

Research on mifepristone–misoprostol medical abortion in Vietnam.

[International Language Academy Vietnam, Ho Chi Minh City](#)

Intensive English-language training for prospective fellows.

[Medical and Pharmaceutical University, Ho Chi Minh City](#)

Design, execute, and evaluate a training program in practical research skills.

[Tra Vinh Provincial Committee for Population, Family and Children, Tra Vinh](#)

Implement revision of the Khmer Theatre play “Hope and Belief.”

EUROPE

Finland

[The Family Federation of Finland, Helsinki](#)

Study of ovulation inhibition in women using Nestorone® progestin/ethynylestradiol contraceptive rings on a bleeding signal regimen.

[University of Jyväskylä](#)

Comparative use-effectiveness study of Norplant® implants and two-rod levonorgestrel implants (Jadelle®).

France

[Riad Bensouiah, Montpellier](#)

Socioeconomic dynamics of Algerian pastoral spaces: The case of the Djebel Amour region (MEAward).

Germany

[Institute of Reproductive Medicine of the University of Münster](#)

Effects of MENT™ acetate subdermal implants used for six months on gonadotropins and spermatogenesis in healthy men.

Italy

[The Noopolis Foundation, Rome](#)

Determination of lipocalin-type prostaglandin D synthetase levels in human semen.

Correlation of lipocalin-type prostaglandin D synthetase with sex hormone levels in infertile men.

Netherlands

[Women on Waves Foundation, Amsterdam](#)

Documentation of experience in providing services to women.

Norway

[University of Oslo](#)

Pharmacy access to emergency contraception: Women's experiences in France, Norway, Portugal, and Sweden.

Portugal

[Associação para o Planeamento da Família, Lisbon](#)

Pharmacy access to emergency contraception: Women's experiences in France, Norway, Portugal, and Sweden.

Sweden

[Institute for Kvinnors och Barns Hals, Stockholm](#)

Medical abortion: Study to test a home-use regimen of 600 mg mifepristone with repeated doses of 400 µg oral misoprostol.

United Kingdom

[Samer Bagaeen, London](#)

Impact of a sudden and unplanned influx of people on the environment in historic cities: Going back to the old city of Jerusalem (MEAward).

[Njia Bahubashi, Liverpool](#)

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

[British Pregnancy Advisory Service, London](#)

Research on mifepristone–misoprostol medical abortion: Simplifying the regimen.

Fund a publication on advances in abortion care expected to result from a seminar held in fall 2001.

[Centre for Reproductive Biology, Edinburgh](#)

Metabolic effects of MENT™ in hypogonadal men.

Bioavailability of MENT™ administered transdermally in men.

[Edinburgh Healthcare, National Health Service Trust](#)

Phase 1 study of the effect of the Nestorone® intrauterine system on the endometrium.

Three studies of Nestorone® progestin transdermal gel: Humidity, size, and surface kinetics.

Bioavailability of MENT™ administered transdermally by a gel.

[The Family Planning Association of the UK, London](#)

Support for a seminar on microbicides and a report from the meeting.

[International Family Health, London](#)

Consultation on microbicide development and strategy.

[International HIV/AIDS Alliance, London](#)

Partner organization for implementation of the HIV/AIDS operations research program (Horizons).

Study of the involvement of people living with HIV/AIDS in the delivery of community-based prevention and care services.

Scale up affordable and appropriate care and support services for people living with HIV/AIDS in south India.

[London School of Hygiene and Tropical Medicine](#)

Management of the research grants program on HIV/AIDS and sexually transmitted infections in India.

[Medical Research Council, London](#)

Randomized, controlled trial of misoprostol versus oral ergometrine in the management of the third stage of labor in the home-delivery setting in rural Gambia.

[Salma Nims, London](#)

Socio-environmental conflict within changing contexts of common-pool resources: The case of water management in Jordan (MEAward).

OCEANIA

Australia

[Centre for Reproductive Health Research, Sydney](#)

Study of ovulation inhibition in women using Nestorone® progestin/ethinylestradiol contraceptive rings on a bleeding signal regimen.

Three studies of Nestorone® progestin transdermal gel: Humidity, size, and surface kinetics.

Investigation of the effects of oxytocin and levonorgestrel on female sexual response.

Phase 1 study of the effect of the Nestorone® intrauterine system on the endometrium.

Safety and acceptability study of vaginal gel formulation Carraguard™ for use as a possible microbicide.

Staff and Consultants

This section lists 2001 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 for the Council on an ongoing basis.

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Head, Clinical Research Unit

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Scientists

Narender Kumar, Melissa J. Pope, Frederick Schmidt

Staff Scientists

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Administrative/Technical Support Staff

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INTERNATIONAL PROGRAMS DIVISION

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George F. Brown,* Purnima Mane

Senior Director, Policy and Regional Programs

Anrudh Jain

Interregional

Director, Gender, Family, and Development

Judith Bruce

Director, Reproductive Health

Beverly Winikoff

Senior Program Associate

Robert Miller

Program Associates

Martha Brady, Shelley D. Clark,* Batya Elul, Fariyal Fikree, Nicole Haberland, Ann Leonard,* C. Elizabeth McGrory, Suellen Miller, Saumya RamaRao, Nancy L. Sloan, Janneke van de Wijgert

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Administrative/Technical Professional Staff

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Staff Assistants

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Consultants

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Washington, DC

Administrative/Technical Professional Staff

Angela Briceño, Michael Busby,* Lisa W. Lane, Damon A. Newsome

Administrative Support Staff

Vivian Nicholson, Phan Van Trinh

Frontiers in Reproductive Health

Director

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Senior Program Associates

James R. Foreit, Emma Ottolenghi*

Program Associates

Joanne N. Gleason, Cynthia P. Green*

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Stephanie Joyce

Staff Assistants

Tshikana M. Douglas, Sarah Douglass,* Michelle Gray, Melissa L. Vander Kooi

Seconded Staff

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Consultants

Dennis Dobbs, Ault Nathanielsz, Emma Ottolenghi, Jim Rosen

Horizons

Director and Senior Program Associate

Andrew Fisher

Deputy Director and Senior Program Associate

Johannes C. van Dam

Senior Program Associate

Naomi Rutenberg

Program Associates

Beverly Ben Salem, Margaret J. Dadian, Avina Sarna

Staff Program Associate

Laelia Z. Gilborn

Administrative/Technical Professional Staff

Scott Geibel, Holley Stewart

Staff Assistants

Amy Ellis, Sherry A. Hutchinson, Rachel Kaufman, Emily T. Knox,* Allison Mitchell,* Jessica Nicholaides, Eva Y. Roca

Seconded Staff

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Financial Report

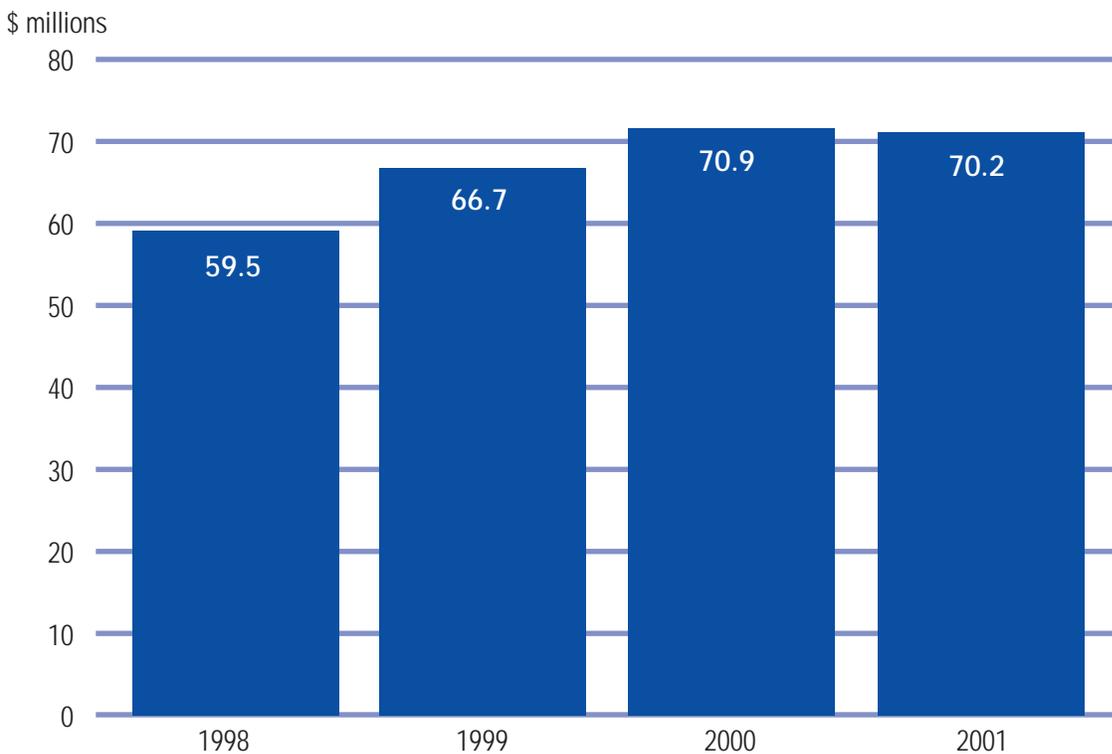
In 2001, the Population Council recorded expenditures of \$70.2 million, slightly down from 2000. Both program service expenditures and supporting service expenditures declined 1.0 percent from 2000. Compared to 1999, program services for 2001 were up 6.7 percent and supporting services down 3.0 percent, reflecting the Council's ongoing effort to reduce management costs.

The Population Council received continued strong support from donors and further diversified its funding base in 2001. The proportion of funds from foundations, corporations, other nongovernmental organizations, and individuals increased from 23 percent in 2000 to 29 percent in 2001.

Investments, including the endowment, suffered from the stock market decline in 2001. As expected because of contractual arrangements, royalty income was also lower than in 2000.

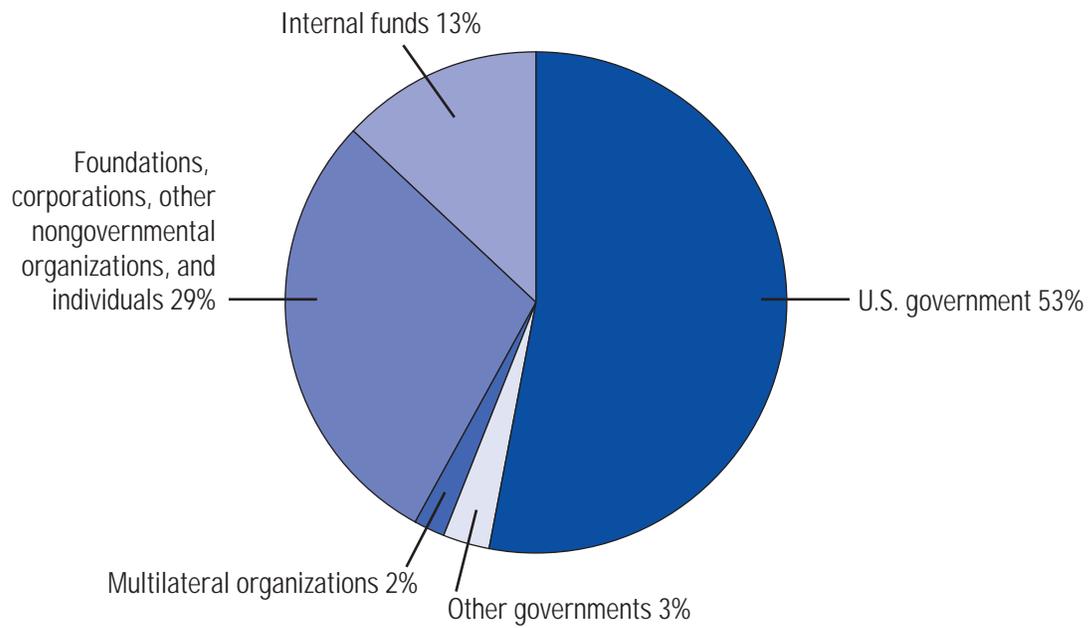
The following pages present summary financial statements and a list of the generous donors whose funds supported the Council's activities in 2001.

Trends in Expenditures

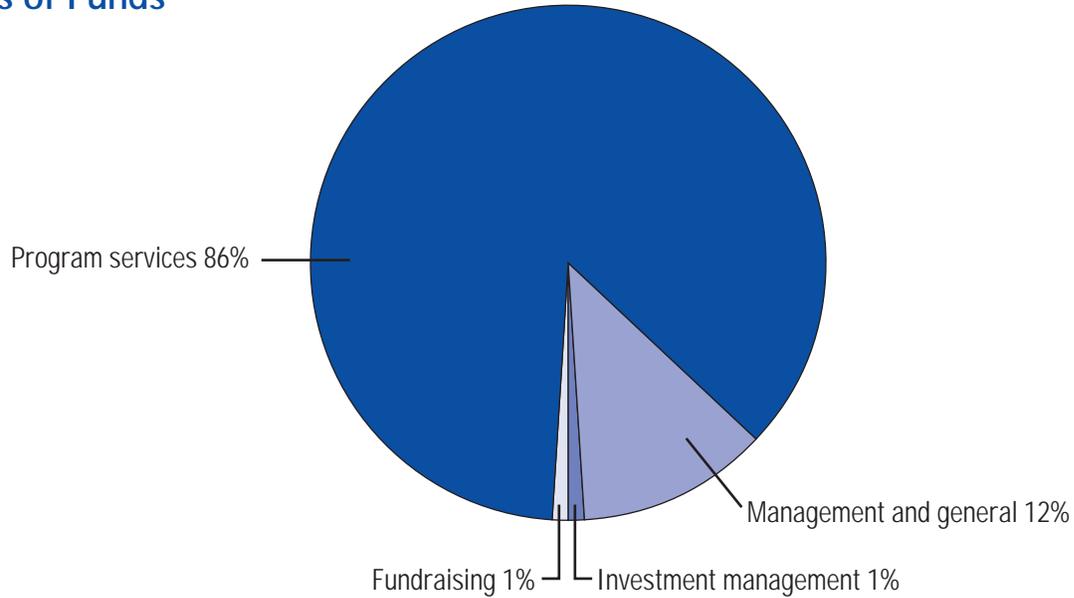


Sources of Support for 2001 Activities

Total \$70.2 million



Uses of Funds



Statement of Activities

For the year ended December 31, 2001 with comparative totals for 2000 (in thousands of dollars)

	Unrestricted				Total	
	General and fixed assets	John D. Rockefeller 3rd Memorial Fund and other	Temporarily restricted	Permanently restricted	2001	2000
OPERATING REVENUE						
Grants and gifts	1,622		66,322	517	68,461	65,427
Royalties	4,948				4,948	6,327
Other operating revenue	538	(1,552)	(1,278)		(2,292)	(5,066)
Net assets released from restrictions	59,193		(59,193)			
TOTAL OPERATING REVENUE	66,301	(1,552)	5,851	517	71,117	66,688
OPERATING EXPENSES						
PROGRAM SERVICES						
International Programs Division	40,543				40,543	41,126
Center for Biomedical Research	12,826				12,826	13,395
Policy Research Division	5,262				5,262	4,732
Distinguished Colleagues	374				374	354
Publications	1,427				1,427	1,454
TOTAL PROGRAM SERVICES	60,432				60,432	61,061
SUPPORTING SERVICES						
Management and general	8,722	513			9,235	9,261
Fundraising	561				561	624
TOTAL SUPPORTING SERVICES	9,283	513			9,796	9,885
TOTAL OPERATING EXPENSES	69,715	513			70,228	70,946
(Deficiency) excess of operating revenue over operating expenses	(3,414)	(2,065)	5,851	517	889	(4,258)
Transferred to/from endowment	2,896	(2,896)				
Net unrealized gain	39	(3,669)	21		(3,609)	4,645
(DECREASE) INCREASE IN NET ASSETS	(479)	(8,630)	5,872	517	(2,720)	387
NET ASSETS AT BEGINNING OF YEAR	7,302	72,906	70,793	3,450	154,451	154,064
NET ASSETS AT END OF YEAR	6,823	64,276	76,665	3,967	151,731	154,451

Balance Sheet

December 31, 2001 and 2000 (in thousands of dollars)

	2001	2000
ASSETS		
Cash and investments	94,980	108,828
Grants and gifts receivable	60,140	48,701
Other assets	4,224	4,261
Fixed assets, net	14,156	14,754
TOTAL ASSETS	173,500	176,544
LIABILITIES AND NET ASSETS		
LIABILITIES		
Accounts payable and accrued expenses	3,255	3,615
Awards, contracts, and fellowships payable	12,075	12,399
Other liabilities	6,439	6,079
TOTAL LIABILITIES	21,769	22,093
NET ASSETS (DEFICIT)		
Unrestricted		
General	(7,333)	(7,452)
Invested in fixed assets	14,156	14,754
John D. Rockefeller 3rd Memorial Fund and other	64,276	72,906
Temporarily restricted	76,665	70,793
Permanently restricted	3,967	3,450
TOTAL NET ASSETS	151,731	154,451
TOTAL LIABILITIES AND NET ASSETS	173,500	176,544

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

Sources of Support for 2001 Activities

The Population Council gratefully acknowledges the donors listed below for supporting our activities in 2001, including contributors whose multi-year funding was received in prior years. With an ever-evolving research agenda, the Council especially appreciates gifts of unrestricted funds to help augment project grants, sustain key research projects between grant cycles, and test creative far-sighted ideas, employing innovative research techniques. The Council's initial expenditures of unrestricted funds on pilot projects and basic science regularly translate into advances important to the well-being of men, women, and children throughout the world.

Gifts to the Population Council are tax deductible in the United States and are most welcome in any amount. Many donors choose to take advantage of opportunities to lessen their tax liability through gifts of long-term appreciated securities. There also are numerous ways to provide sustaining support for the Population Council's work, including bequests, charitable remainder and lead trusts, gifts of life insurance, and designations of the Council as beneficiary of a pension plan. Your financial or tax advisor is the best source of guidance on which giving options may best serve your financial and philanthropic objectives.

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

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The Population Council has been awarded a challenge grant of \$1 million by The Andrew W. Mellon Foundation to create an endowment for its Policy Research Division. This new PRD endowment will provide an ongoing funding stream in support of pioneering research on the causes and implications of population trends. With an interdisciplinary staff of demographers, economists, and sociologists, PRD marshals social science expertise to promote better understanding of population problems and provide the scientific basis for the design and implementation of policies and programs to improve the lives of people around the world, especially in developing countries. In recent years such emerging population issues as the needs of adolescents, urban poverty, and aging have been added to the PRD research portfolio. PRD researchers regularly serve as consultants to, and participate on, advisory committees of such organizations as the United Nations, the U.S. Agency for International Development, the National Academy of Sciences, and the World Bank. The Policy Research Division also administers the Population Council's fellowships in the social sciences, which are awarded to applicants focusing on the developing world. Former fellows now occupy high positions in government agencies and population research institutions worldwide.

We are grateful for the generosity of The Andrew W. Mellon Foundation in spearheading this endowment effort. We also acknowledge with gratitude The William and Flora Hewlett Foundation's pledge toward the challenge. Each dollar contributed to the endowment will be matched dollar for dollar up to a total of \$1 million to ensure a permanent source of support for the Population Council's Policy Research Division.

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