Chapter 4

MEN'S INFLUENCES ON WOMEN'S REPRODUCTIVE HEALTH: MEDICAL ANTHROPOLOGICAL PERSPECTIVES

Matthew R. Dudgeon and Marcia C. Inhorn

Since the mid-1990s, reproductive health has emerged as an organizational framework linking more traditional reproductive issues, such as family planning and maternal and child health, to a suite of additional concerns, including sexually transmitted infections (STIs), infertility, sexual dysfunction, and sexual violence. Several related factors precipitated this paradigm shift to reproductive health, including:

- the emphasis on reproductive and sexual rights by feminists in developing and developed countries (Correa and Reichmann 1994; Peachesky 2000);
- the denunciation of population control as a motivation for contraceptive research and distribution (Bandarage 1997; Dixon-Mueller 1993a);
- the need to address the HIV/AIDS pandemic and the increasing incidence of heterosexual transmission (Cates and Stone 1992; Dixon-Mueller 1993b; Mbizo 1996; Parker, Barbosa, and Aggleton 2000); and
- the failure of family planning and maternal-child health programs to address complex reproductive health issues, such as sexuality (Cliquet and Thienpont 1995).
In developing frameworks for a new reproductive health paradigm, attention has been drawn to the absence of men from previous reproductive health initiatives and the need to incorporate men into any emerging programs (Collumbien and Hawkes 2000; Hawkes 1998; Mundigo 1998, 2000). Men are important actors who influence, both positively and negatively, both directly and indirectly, the reproductive health outcomes of women and children. The ongoing challenge to the reproductive health framework is how to characterize men's possible influences and to assess their impact on women's and children's health. The 1994 International Conference on Population and Development Programme of Action (ICPD) in Cairo, Egypt, explicitly calls for the inclusion of men in women's reproductive health through three avenues: the promotion of men's use of contraceptives through increased education and distribution; the involvement of men in roles supportive of women's sexual and reproductive decisions, especially contraception; and the encouragement of men's responsible sexual and reproductive practices to prevent and control STIs (Basu 1996; De Jong 2000). Feminists from developed and developing countries have extended the examination of men's involvement in reproductive health beyond these three domains by critiquing the patriarchal power structures in societies restricting women's autonomy and access to resources (Bandarage 1997). Such structural constraints range from asymmetries in pay and work opportunities, to legal systems that allow for domestic violence and rape (Boonstra et al. 2000; Pollard 1994) yet criminalize abortion (Silberschmidt and Rasch 2001), to the comparative lack of research on and development of male contraceptives technologies (Mundigo 1998).

Although the importance of these macrostructural relationships between men's and women's reproductive health is clear, perspectives for understanding these relationships are not. For example, the concept of patriarchy, men's systematic domination of key structural and ideological resources and positions, which is often institutionalized on multiple levels (e.g., legal, medical, political), does not fully explain differences in reproductive health outcomes. Yet, it is clear that patriarchal relations do affect women's reproductive health on a "macro" level. For example, women's reproductive health is affected by male policymakers, male health care administrators, and male service providers, who may perpetuate a dominant "male definition" of what is important and what is not without taking heed of women's perceptions and felt needs. However, as shown in the first part of this chapter, the reverse also may be true, when men's reproductive health needs are underemphasized in rights-oriented reproductive health policy discussions that explicitly privilege the rights of women.

On the "micro" level, men also affect women's reproductive health as partners of women and fathers of their children. As will be shown in the second part of this chapter, male partners' influences on women's reproductive health are complex, involving effects both direct and indirect, and both biological and social. Understanding male partners' effects on reproductive health, and particularly the range of meanings of reproductive behaviors and beliefs within particular social and cultural settings, represents an important avenue for research in medical anthropology. Because of its long empirical tradition in non-Western settings, as well as its qualitative research strategy of ethnography, the discipline of anthropology—and particularly the subdiscipline of medical anthropology—represents a prime field for discovery of local reproductive norms and practices, including how individuals living within communities define and experience their reproductive health and health problems. This focus on meaning and the lived experience of reproductive health within particular local, cultural contexts allows medical anthropology to inform reproductive health discussions based on findings from epidemiology, demography, and other sectors of international health, including population policy and family planning. Clearly, the cultural meanings of reproduction will have a significant impact on men's and women's understandings of their own reproductive health status and will influence their health care-seeking behavior. Thus, reproductive health policymakers have increasingly come to recognize the "value added" by qualitative health research when attempting to improve understandings of male involvement in reproductive health, as well as provide culturally appropriate interventions (Drezner 1998; Mbita 1996; Presser and Sen 2000).

This chapter presents medical anthropological perspectives and ethnographic research findings that contribute to the understanding of men's influence on women's reproductive health. In addition, the chapter points to major lacunae, where medical anthropological research is still developing. The chapter opens with a summary of current frameworks regarding men's and women's reproductive rights, critiquing the notion of "rights" from an explicitly anthropological perspective. As part of this discussion, the question of equality versus equity is critically addressed, with suggestions for approaches to incorporate men into reproductive health programs.

The chapter then turns to a number of specific examples of men's influences on women's reproductive health in the areas of contraception, abortion, STIs, pregnancy and childbirth, infertility, and
fetal harm. Although clearly not an exhaustive list, these examples have been chosen in order to highlight both past and recent ethnographic research of medical anthropologists, some of them working within international public health settings (Hahn 1999). In addition, these examples illustrate how medical anthropology often "takes over" where standard epidemiological and demographic research "leaves off" (Nations 1986), by attempting to understand why men and women behave the way they do in the realm of reproductive relations. Thus, in each section, the contributions of medical anthropologists are distinguished from public health research cited. In the concluding section, suggestions are provided for reproductive health research that reaches men and leads to better reproductive health outcomes for women.

**Reproductive Rights: Equity, Equality, and Intervention**

Post-Cairo, reproductive health is argued to be a basic human right and, as such, is protected by existing international agreements on human rights, including documents on the rights of women, children, and indigenous peoples (Cook and Dickens 1999, 2000; Cook, Dickens, Wilson, and Scarrow 2001; Cottingham and Myniti 2002; Petchesky 1998; Sen, George, and Outlin 2002). However, the delineation of rights and responsibilities in the area of reproductive and sexual health proves to be a difficult task. Why? Presently, the framework of reproductive rights depends heavily on the compliance of nation-states with the programmatic statements of the international conventions they have signed. However, it is often in the traditional and marginalized communities in which anthropologists typically work where state laws have the least influence and the state is least accountable. These communities, or some of their members, may explicitly reject the concept of reproductive rights as conflicting with local law or community norms. In addition, the very concept of a "right" may be difficult for some members of more marginal communities to understand and operationalize. For example, in a cross-cultural study, Petchesky and Judd (1998) found that many women understood their rights ad hoc in terms of their desire to avoid conditions of suffering they had experienced in the past. Furthermore, although the notion of reproductive rights is usually conceived of in terms of individual persons, reproduction never involves single individuals and rarely involves only two people. Instead, as many anthropologists cited in this chapter have shown, reproduction often lies at the intersection of group interests, including families, households, kinship, ethnic, and religious groups, states, and international organizations.

In discussions of the role of anthropology in reproductive health, anthropology has heretofore been conceived of as a tool for investigating and explicating local perspectives on reproductive health and rights in order to implement ideals of human rights (Population Council 2001). However, a critical medical anthropological perspective must question the exercise of power through reproductive health rights as leveraged by international law. For example, the right to contraceptive access is not necessarily met by the contraceptive method mix available or promoted in many developing countries.

Beyond the rights debate, a second important distinction—and one that is key to best providing reproductive health services for both men and women—is that between reproductive health equality and reproductive health equity (see Basu 1996; Blanc 2001; Petchesky 1998; Population Council 2001). "Equality" emphasizes egalitarian reproductive health outcomes for all men and women, achieved ideally through equal or complementary services. Conversely, "equity" refers to an approach that emphasizes justice in reproductive health outcomes, achieved through services provided within the context of existing and recognized differences in reproductive physiology as well as inequalities in economic and social resources.

Because the concept of equity rests on subjective measures of fairness and justice, international stakeholders, such as the World Health Organization (WHO), have tended to endorse goals of equality as measured through more objective indicators, such as maternal mortality (Population Council 2001). Implicit in discussions of equity is the realization that the reproductive and sexual needs of women are culturally subordinate to those of men and that men locally have rights over women's reproduction and sexuality. Thus, the achievement of equity could in many contexts require privileging the reproductive rights of women over those of men.

In these discussions of equality versus equity, particular notions of men's involvement in reproduction have been used to inform frameworks for incorporating men. Men have traditionally been portrayed, either explicitly or implicitly, as relatively unconcerned and unknowledgeable about reproductive health. They have been seen primarily as impregnators of women or as the cause of women's poor reproductive health outcomes, through STI exposure, sexual violence, or physical abuse. In addition, they have been regarded (often rightly so) as formidable barriers to women's decision making about fertility, contraceptive use, and health care utilization (Greene
2000). Indeed, some of these generalizations about men have been empirically demonstrated across cultures. Relative to women, men tend to have more sexual partners over their lives, are more likely to have multiple partners simultaneously, are more likely to pursue commercial sex, are more likely to have extra-partner sexual relations, and are more likely to commit an act of violence against women, adolescents, and other men. Men have the option to be absent at childbirth, tend to commit smaller percentages of their income to children and childcare, and contribute less time to direct childcare (Greene and Biddlecom 2000).

In examining some of these stereotypes in demographic research, Greene and Biddlecom (2000) show consistent exceptions to many of these generalizations. They find that:

- men may be more, less, or equally informed about contraceptives than women;
- men participate in birth control through male and coital-dependent methods;
- men’s pronatalism varies, with average fertility preferences often differing little from women’s and with wide variation between men from different regions;
- men’s dominance in reproductive decision making varies and may vary over the reproductive life course of the couple;
- men may not prevent women from covertly using contraceptives; and
- men as well as women may have financial motives for sex, as children may legitimate partners’ claims to one another’s resources.

An important advance in characterizing men’s involvement has been the more explicit theorization of the role of power in sexual and reproductive relationships. Blanc (2001) distinguishes between the power of individuals within a social group and their relative power within dyadic sexual and reproductive relationships. She argues that the difference between power to (i.e., power as positive possibility for oneself) and power over (i.e., power as negative and limiting of others) is of particular importance in these relationships.

Recent attempts to conceptualize reproductive health interventions based on these observations about power have led to two major frameworks for the incorporation of men into programs and services. Basu (1996) has described the first framework—i.e., he finds in the programmatic statements of both the Cairo and Beijing conferences—as “Women’s Rights and Men’s Responsibilities.” Namely, though both women and men have rights and responsibilities in the area of reproductive health, this framework differently addresses rights and responsibilities for men and women because of existing power differentials and the unequal distribution of resources between men and women. Extrapolating to the realm of reproductive health, women’s and men’s contributions to reproductive health are seen as unequal and their experiences of reproductive health as fundamentally different. Interventions following from this framework tend to focus on the reproductive health problems caused by men, along with approaches to empowering women. This framework focuses on the need for reproductive health equity rather than equality. Yet, as Basu points out, by focusing on equity versus equality, this framework may not achieve its goal; interventions excluding men may do less to achieve reproductive health equity than those including them.

Basu discusses explicitly the need for equality in addressing men’s individual reproductive rights; even so, he does not address men’s rights as they involve other individuals. Because reproduction always involves more than one individual with rights, the discussion of reproductive rights must address the coexisting reproductive rights of men and women in relationship to each other. This is particularly important for integrating men into this perspective, given that men often have culturally explicit and implicit rights to women’s sexuality and reproduction.

Rather than only discussing men’s responsibilities as partners, or their rights as individual reproductive actors, an anthropological perspective emphasizes men’s rights regarding other reproductive participants, and how these rights—as derived from international treaties and conventions—may differ from locally defined notions of rights. To redirect the reproductive rights discussion in this way leads to numerous complex ethical questions. For example, do men have the right to withhold care or support from a pregnant mother? Is responsibility for care to be derived solely from genetic paternity, from consanguine or marital relations, or from some combination? Do men have the right to have multiple partners or children with multiple partners? Do they have the right to withhold information about their STI status? Do they have the right to play a part in the termination of pregnancy? These questions must be addressed in future reproductive rights discussions.

A second framework for including men in reproductive health, “Men as Partners” (Becker and Robinson 1998; Wegner, Landry, Wilkinson, and Tantis 1998), emphasizes a client-based approach that seeks to provide sustainable reproductive health care for men
without compromising (but hopefully improving) services for women. Such a perspective recognizes men’s important contributions to reproductive health, as well as men’s needs and attempts to reconcile conflicting reproductive goals within the context of reproductive partnerships, primarily married couples. The approach adheres to the three avenues for involvement issued at the IPCD, with services provided through screening, education, counseling, diagnosis, and treatment (Ndong, Becker, Haws, and Wegner 1999). Such an approach focuses on men as partners—that is, as members of a family, usually as husbands, with a significant locus of responsibility for reproduction. The framework therefore envisions male involvement in reproduction and addresses men’s own bioreproductive and psychosocial needs.

However, given the explicit focus of this framework on the cooperation of men and women in reproductive decision making, this framework downplays the different reproductive and sexual strategies and goals that men and women may pursue separately, including outside of the marital union. Greene and Biddlecom (2000) have observed that, in this approach, the ideological assumption of heterosexual monogamy with fidelity associated with reproductive health actually becomes a programmatic goal. This perspective has been difficult to implement, as it requires a positive and more general definition of “partner.” Moreover, it does not clearly answer whether or not a partner approach implies that services for men should be integrated or separate from those for women; this is a contentious issue that depends heavily on existing services as well as the kinds of services provided. The partner perspective also makes several implicit assumptions about men and reproductive health—namely, that educating men about men’s and women’s reproductive health needs will make men more sensitive and responsive to these needs, and that incorporating men into reproductive health programs will improve both men’s and women’s reproductive health outcomes. Such assumptions may not hold in all contexts.

**Men’s Influences on Women’s Reproductive Health: Examples from Medical Anthropology**

Difficulties in defining reproductive health, rights, and equity have become as apparent as men’s involvement in reproductive health has increasingly been addressed on an international level. From an anthropological perspective, these difficulties arise in large part because of the significant variation—biological and cultural—in how different groups of men and women encounter, define, and experience reproductive health problems, as well as the significant variation in family and legal structures that, in part, produce these problems. A medical anthropological perspective emphasizes the diversity in local health needs and the importance of understanding this diversity in order to develop appropriate interventions. As noted earlier, medical anthropology has tended to describe cultural variations in health belief systems, emphasizing actors’ own descriptions and experiences of reproductive health and illness within local cultural systems. Furthermore, a critical branch of medical anthropology examines how structures of inequality within and between social groups cause, perpetuate, and augment reproductive health problems (Farmer 1999). In the wake of the AIDS epidemic, numerous researchers have called for ongoing qualitative studies to understand not only the ways reproductive health problems are experienced by men and women on a local level, but also to understand the structural factors leading to poor reproductive health outcomes (e.g., Farmer, Connors, and Simmons 1996).

The remainder of this chapter examines medical anthropological research about men’s influences on women’s reproductive health, at the same time taking note of some of the specific areas where medical anthropology has failed to produce sufficient ethnographic findings. In each section, medical anthropological research is highlighted against a backdrop of groundbreaking empirical findings from public health and demography, the first disciplines to acknowledge the importance of male involvement in reproduction. As this review demonstrates, much of the medical anthropological research examines dyadic, heterosexual relationships between women and their male partners, explicitly focusing on men’s involvement from their own perspective. However, at least some of this research remains cognizant of larger structural relationships, involving gender asymmetries and imbalances in economic and political power, affecting the interactions within the male-female reproductive dyad.

**Men’s Influence on Contraception**

Contraceptive use and effectiveness depend directly on men’s involvement. Of all the contraceptive options currently available to men, only one—vasectomy—is completely under male control. With the use of condoms and withdrawal, some degree of negotiation is involved, and cooperation is necessary for the method to be used effectively. The use of female-centered methods—such as oral
contraceptives, injections, implants, intrauterine devices, spermicides, and barrier methods—such as the diaphragm or female condom, may be significantly influenced by male partners in that men may mediate the economic resources required to access these methods, or may indirectly sanction or directly prohibit women's use of these methods. Furthermore, the absence of a stable male partner may be one of the most important determinants of women's desire to avoid a pregnancy, especially young women and women with few resources.

Several anthropological studies examine how social organization and culture may influence contraceptive patterns and men's influences on them. For example, research from Africa, including Ghana (Ezech 1993) and Nigeria (Banikole 1995), suggests that men may have significant influence over women's contraceptive decisions, while the converse may not be as true. Banikole (1995) reports that for the Nigerian Yoruba, an apparent "equality" in spousal desire for more children breaks down when the number of children is taken into consideration. Men's wishes for more children are more likely to be met when couples have few children, while women's wishes prevail with more surviving children in the family. Men's desires, however, affect most directly the first decade of a marriage and the first four children.

Anthropological perspectives also provide context for the results of contraceptive research. For example, in Kenya, where more than 90 percent of men approve of contraception, more than half of them believe women should be responsible for it. Furthermore, 37 percent of men approve of female rather than male sterilization (Were and Karanja 1994). Another study from Kenya (Dodoo 1993) notes the importance of lineage and descent, such that partners are tied more directly to their lineage groups than to each other. In this situation, bride wealth compensates a bride's family for her lost fertility, securing the rights to her children to her groom's lineage rather than to her own. In this context, men may be much more invested than women in the use and timing of contraception.

Banikole (1995) and Dodoo (1993) have suggested that estimates of unmet contraceptive need in sub-Saharan Africa may be invalid when derived from data collected only from women. In Zimbabwe, for example, men report making final decisions in contraceptive use, even while women are held responsible for obtaining contraceptives (Mbiwo and Adamchack 1991). These and a number of other studies demonstrate discordance within couples regarding contraceptive use (Becerra 1999; Rongaars and Bruce 1993; Castleline, Perez, and Biddlecomb 1997; Castleline and Sinding 2000; Klijzing 2000; Njom 1997; Wolff, Blanc, and Stekamante-Ssebuliva 2000; Yebie 2000).

Within such a context, how is "unmet need"—a concept problematized in the U.S. context (see Santelli et al. 2003)—to be elaborated and usefully employed? Men's intentions, as well as women's, play a part in achieved fertility and contraceptive use, especially in early childbearing. Banikole (1995) documents how Yoruba women of Nigeria are better able to negotiate future pregnancies and family size after they have successfully borne several children for their husbands and husbands' lineages. In effect, a woman's value depends on, and is confirmed by, her reproductive success. Banikole goes on to assert that "[w]hen a woman does not want a child, but her husband does, the birth of such a child cannot be regarded as unwanted" (318). From an anthropological perspective, such a view begins to address the potential for conflict between men's and women's reproductive goals.

Economic context and its relationship to other demographic factors undoubtedly contribute to a partner's influence. Throughout the world, women in poorer countries with lower levels of female education show the highest rates of unmet need (Potts 2000), while financial independence has been linked to women's consistent use of condoms (Soler et al. 2000). Recent reviews of qualitative and quantitative research suggest that, rather than a purely economic explanation, unmet need is conditioned by social opposition, lack of knowledge of contraceptives, and method-related problems and side effects (Castleline and Sinding 2000; Westoff 2001).

Rather than taking evidence of male influence on fertility and contraceptive behavior as prima facie evidence of (or against) unmet contraceptive need, some anthropologists have attempted to make sense of male preferences and reproductive behaviors within local cultural systems of sex and reproduction. For example, among Maya of Mexico and Guatemala, many indigenous men profess that women who are sexually aggressive or responsive cause anxiety that may interfere with their sexual enjoyment (Mendez-Dominguez 1998; Paul 1974; Ward, Bertrand, and Puac 1992). Such cases are not rare; in many parts of the world, male sexual pleasure appears to be dependent on passive female sexuality. Conversely, in some parts of the world, men's concerns about the ability of their wives to achieve sexual pleasure may preclude condom use. For example, Al (2002) shows that one of the reasons Egyptian men do not use condoms is because of the belief they could not receive and were incapable of giving sexual pleasure. The rural and urban Egyptian men he interviewed insisted that women received heightened sexual pleasure when they felt the ejaculate passing into their bodies. This pleasure "was mixed with the gradual cooling down of female bodies from
a hot state" (130). In the case of contraception, anthropological research demonstrates how difficult it is to assume the conditions under which men will or will not use contraception, their reasons for wanting or not wanting to use contraception, and their actual patterns of use relative to their ideas about use.

Men and Sexually Transmitted Infections

As shown above, male beliefs about women's sexual passivity and sexual pleasure may preclude the possibility for the negotiation of condom use or other contraceptives, which is extremely problematic in areas of the world where condoms are believed to be the best protection from HIV and other STIs. In such cases, the problem of "unnecessary" barrier contraceptives (and STI prevention) involves a direct conflict between the sexual needs and desires of men, the health and safety of women, and the goals of contraceptive service providers. More important, contraceptives are never "needed" when couples are attempting to conceive. For example, among infertile couples in some parts of the world, particularly sub-Saharan Africa, contraceptives, including condoms, are rarely used, leading to an increased risk for STIs, including HIV/AIDS (Boerma and Mgalla 2001).

Thus, men's sexual behaviors (including their use of barrier contraceptives) have major implications for the transmission of STIs, including bacterial, viral, and parasitic agents that can lead to acute and chronic conditions in men and women, as well as pregnancy-associated diseases affecting the well-being of offspring. Wasserheit (1992, 1994) has discussed how the physiological micro-environment, the behavioral inter-personal environment, and the sociocultural macro-environment all affect the epidemiology of STIs and other reproductive tract infections. For example, a macro-environment of poverty will affect men's and women's decisions to participate in sex with multiple partners or to undertake commercial sex work, affecting their access to information, barrier contraceptives, and adequate health care.

From an anthropological perspective, the interaction of these environments must be investigated in local contexts, where no mechanically deterministic relationship exists, even though structural inequalities constrain choices and risks (Farmer 1992, 1999). A prime example is the high prevalence of HIV in both West and East Africa, which has influenced men to seek sex with virgins in an attempt to avoid exposure (see Silberschmidt and Rasch 2001; Smith 1999). Through unprotected sex, men (including HIV-positive men unaware of their sero status) may expose adolescent and even prepubescent girls to STIs, and may damage their immature vaginas.

Condoms (including the female condom) are the only effective contraceptives protecting against the transmission of most STIs for both women and men during penile-vaginal intercourse (Davis and Weller 1999). As men must cooperate in order for condoms to be used effectively during sex, much emphasis has been placed on condom use as men's contraception. Some feminist writers have seen the refusal to wear condoms as a sign of hegemonic, heterosexist masculinity (Patton 1994). Though asymmetries in the negotiation of condom use between men and women may depend heavily on hegemonic male prerogatives, great variation exists in men's acceptance of condoms and the meanings of that acceptance.

Anthropological research with young Australian men suggests that men can incorporate condom use as a healthy expression of heterosexual male identity and that condom use can be eroticized (Visellone 2000). Men in Zimbabwe showed significant generational differences in number of partners and condom use, suggesting that male sexual behaviors may change over the course of a lifetime (Olayinka, Alexander, Mbirvo, and Gihney 2000). Being unmarried and duration of relationship were significant predictors for increased odds of condom use among U.S. women between 1988 and 1995, suggesting the need for a more complex understanding of male partner effects (Bainkole, Darroch, and Singh 1999).

Taken together, such research suggests that no direct correspondence exists between condom use and gender equality. Men's condom use can be incorporated into very patriarchal socioeconomic systems, even without changes to those systems, depending on men's perceptions of their reproductive health needs and sexual pleasure. Moreover, condom use may be more or less associated with family planning in the context of high STI prevalence. Through anthropological research, the potential exists to elucidate the beliefs and structures shaping men's behaviors around the use of contraception for both STI and pregnancy prevention.

Men's Influence on Abortion

Even under the best conditions, abortion is a physically and emotionally difficult event. Its continued practice despite legal prohibitions in many parts of the world makes abortion dangerous and life threatening. Thus, abortion has social, psychological, and health
consequences for both men and women, even though relatively little research has examined men’s roles in women’s abortion decisions and experiences (Adler 1992).

Abortion is perhaps the best example of the direct connection between laws and policies and poor reproductive health outcomes, and in most countries, men write, ratify, and enforce abortion law (see Cottingham and Myntti 2002). In Turkey, for example, abortion among married women is restricted to those with their husbands’ permission, reflecting conservative interpretations of Islamic law (Gursoy 1996). Furthermore, men may directly affect women’s decisions about abortion. They may provide or withhold economic and emotional support for an abortion or parenting, or they may actively or passively impose their own desires for or against an abortion. Men’s influences also may be less direct and involve other areas of reproductive health; for example, in the United States, women with abuse histories are less likely to involve their partners in abortion decisions and have different reasons for seeking abortion than non-abused women (Glander, Moore, Michielutte, and Parsons 1998).

Given that the social acceptability and desirability of pregnancy and abortion may change with the age of parents, pregnancy at different stages in life may show variable patterns of partner influence. Among American teenagers presenting for antenatal care rather than abortion, women tend to report that their partners’ support is important in their decision not to terminate the pregnancy (Henderson 1999).

Several anthropologists have taken abortion as a central theme in their study of reproduction (Carter 1995; Ginsburg 1989; McClain 1982; Schepers-Hughes 1993). Although many of these studies have focused on women’s abortion decisions, access, and experiences, men’s influences on abortion choices and outcomes also have been examined. For example, in her investigation of amniocentesis and abortion in New York City, Rapp found that partners’ beliefs greatly influenced women’s use or refusal of prenatal tests like amniocentesis (1999). She examines the use of prenatal diagnostic procedures that identified potential risks of undesirable pregnancy outcomes, or those for which no therapy is available and abortion is often recommended by medical practitioners. In addition to describing the distinct experiences of women and men in genetic counseling (often mediated by ethnicity and economic resources), Rapp shows how important men are in the decisions women make about bringing disabled children to term. Women who felt that their male partners would love and help raise a disabled child were less likely to undergo such tests, relying heavily on their partners’ beliefs about the desirability of a disabled child.

Browner’s work on reproduction (1979, 1986, 2000; also see Browner and Perdue 1988) has consistently explored how men influence their partners’ reproductive decisions and options. Browner’s path-breaking study (1979) of clandestine abortion in Cali, Colombia, reveals not only the high percentage of intentional abortions (an estimated one-third to one-half of pregnancies in Latin America), but also the important role men play in abortion-related decisions. Browner argues that men in Colombia strongly influence their partners’ abortion decisions, as women abort children to avoid becoming single mothers. In instances in which women were told directly or perceived that their partners would abandon them, they sought abortions more frequently and with more resolve.

Similar to Rapp, Browner (2000) has examined the use of fetal testing, conducting interviews in the United States among Mexican-origin parents with high-risk pregnancies. She found that 50 percent of the women made fetal testing decisions independently of their partners, while 23 percent made decisions jointly with their partners, and that men made the decisions in the remaining cases. Structural factors, such as economic independence and the local health care system, affected women’s decisions. However, Browner argues that these factors only become meaningful when interpreted through cultural processes. “Women incorporated the man if they were uncertain about his feelings about the pregnancy, and they wanted him involved in any decisions that could have long-term consequences for them both” (2000:81). Even when women are seen as solely responsible for decisions about testing and abortion, men are expected to play a supportive role. At the same time, Browner suggests that women are expected to shoulder the entire responsibility if something goes wrong with the pregnancy.

**Men’s Influence on Pregnancy and Childbirth**

Unfortunately, the influence of men’s intentions and practices on conception, pregnancy, and childbirth outcome have been little studied and are poorly understood within medical anthropology, even though pregnancy and childbirth have been studied by medical anthropologists in a variety of international contexts. In U.S.-based public health studies, male partners’ intentions and desires have been shown as affecting the timing of a first pregnancy (Chalmers and Meyer 1996), women’s prospective desire for becoming pregnant
Lazarus (1997), feelings upon learning of pregnancy (Major, Cozza-relli, Tessa, and Mueller 1992), and subsequent changes in women's evaluation of pregnancy wantedness, both during pregnancy and postpartum (Montgomery 1996). Understanding partner effects on intendedness of pregnancy is important in explaining such issues as desired family size, timing of first pregnancy, and women's com- pleted fertility (Santelli et al. 2003). Also in the U.S. context, Joyce, Kaestner, and Korenman (2000) show an association between the stability of women's pregnancy intendedness over time and partners' disagreement on the issue. Zabin, Huggins, Emerson, and Cullins (2000) found that women's desire to conceive is more closely re- lated to their evaluation of their particular relationship rather than to abstract notions of completed family size. Such research suggests that women often define pregnancy intention as influenced by their relationship to their partners and their partners' desires.

One of the most important areas of reproductive health affected by men is pregnancy care and outcome. Yet, men's participation in and influence on prenatal care is poorly understood from an anthropological perspective. Extrapolating from the early anthropo- logical ethnographies of human birth, Kay (1982a) lists some "extrinsic" factors of pregnancy, such as food, sleep, and the visible body, that may affect birth outcome. In her path-breaking but now somewhat dated review, men are listed as one of the extrinsic fac- tors in pregnancy, with influences potentially leading to maternal and infant mortality.

Globally, there are as many as 600,000 maternal deaths each year, as well as a staggering burden of maternal morbidity (Khatib, Younis, and Zurrak 1996; Kohlinsky 1995). Adequate prenatal care is consistently associated with the detection of pregnancy conditions such as hypertension and anemia and its lack with poor pregnancy outcomes such as low birth weight and perinatal births (Ficella 1995; Mustard and Roos 1994; Quick, Greenlick, and Roghmann 1981). Unfortunately, ethnographic information on prenatal care—its use and adequacy by women, as affected by their partners—is lacking in both developing and industrialized countries.

In the United States, one of the most consistent predictors of ade- quate prenatal care utilization is the mother's relationship with the father (Casper and Hogan 1990; D'Ascoli, Alexander, Petersen, and Kogan 1997; Gaudino, Jenkts, and Rochat 1999; Lia-Hoagberg et al. 1990; McCaw-Binns, La Grenade, and Ashley 1995; Oropesa, Landale, Irklely, and Gorman 2000; Schaffer and Lia-Hoagberg 1997). However, research on interventions in the area of prenatal care, as well as other aspects of pregnancy outcome, consistently target women rather than men (Blooms, Tsui, Plotkin, and Bassett 2000; Carter 2002; Johansson et al. 1994; Wall 1998). This is due not only to the perceived need to channel resources to women during and after pregnancy, but also to the slowly changing perception that men are only tangentially involved in the mother-fetus health package (Gerin, Mayhew, and Lubben 2003). Thus, most epidemiological investigations rely on indicators such as marital status rather than on more qualitative analyses of the relationship of women with their partners. Furthermore, very little research, if any, has been conduct- ed on the kinds of care men provide during pregnancy or the effects of such care on maternal reproductive health outcomes.

To date, anthropologists have primarily addressed men's influ- ences on prenatal care in developing countries in only the broadest sense, examining how male-dominated biomedical services interact with existing pregnancy practices. For example, in discussing tradi- tional midwifery in southern Oaxaca, Mexico, Sesia (1996) uses Jor- dan's concept of authoritative knowledge (see Jordan 1997) to argue that traditional midwives have maintained their position as primary sources of prenatal care because both male and female individuals in the community share midwives' medical knowledge. Conversely, physicians and other biomedical practitioners possess an authori- tative knowledge base that is not evenly distributed or accessible by the community. Similarly, Sargent (1989) has argued that the encouragement of hospital-based birth by public health programs serving the Bariba of Benin has paradoxically limited women's re- productive choices by enhancing the power of male heads of house- holds to make decisions about obstetric care. Among the Bariba, men's educational and occupational status affect women's prenatal and obstetric care choices because of the importance of emerging status distinctions within the community.

As the vast majority of maternal deaths occur during or within the first forty-eight hours after delivery, the management of ob- stetric emergencies has been one of the key points of intervention strategies in reducing maternal mortality. Frameworks for address- ing obstetric emergencies refer to the "three delays": recognition of an emergency, decision to seek care, and transportation to care. Men potentially affect the outcome of an obstetric emergency at all of these levels as partners, relatives, neighbors, and service provid- ers (Network 1992). Yet, few studies of any type directly investigate the actual roles men play during, or men's experiences of, obstet- ric emergencies. Information on men's involvement in obstetric emergencies usually comes from accounts provided by women af- ter the event has occurred. Moreover, relatively few interventions
have targeted men in obstetric decision making (Howard-Grabman, Secone, and Davenport 1994). An exception may be western highland Guatemala, where training programs for midwives and other community health care providers have emphasized men as involved in the negotiation of decisions during obstetric emergencies (MotherCare 1996).

Unlike obstetric emergencies, preterm birth has proven resistant to intervention, with no predictive clinical markers, causing many clinicians to despair of lowering rates of preterm births below certain thresholds (Johnston, Williams, Hogue, and Mattoon 2001). Rates of preterm birth continue to show marked stratification between developed and developing countries as well as between different socioeconomic and ethnic groups within developed countries, such as the United States (Rowley and Tosteson 1993). Although mechanisms of preterm birth are poorly understood, preterm delivery seems to be governed by two maternal physiological factors: a neuroendocrinological response sensitive to acute and chronic stressors and an immuno-inflammatory response sensitive to microbial infections (in the form of bacterial vaginosis) (Wadhwa et al. 2001). These physiological pathways suggest several plausible mechanisms for men’s influences on preterm delivery. For one, men may prove to be a source of chronic stress for women, or, alternatively, they may alleviate other sources of chronic stress. Such chronic stress, often experienced years before pregnancy, has been hypothesized to “set” maternal reproductive physiology for early delivery (Hogue, Hoffman, and Hatch 2001). Stress during pregnancy caused by men may also lead to premature delivery. Moreover, men may introduce infection into the vagina of a partner during pregnancy. Low birth weight is often an outcome of preterm birth but is also caused directly by insufficient caloric and micro-nutrient intake during pregnancy. Because men mediate women’s access to economic resources in many parts of the world, women’s nutritional status, especially during pregnancy, may depend heavily on male partners and relatives. Yet, direct epidemiological evidence for an effect of paternal factors on preterm or low birth weight deliveries has been inconclusive (Basso, Olsen, and Christensen 1999a, 1999b; Shea, Farrow, and Little 1997). Nonetheless, after birth, the father’s involvement in caregiving has been associated with improved outcomes for preterm and low birth weight babies’ cognitive development (Yogman, Kindlon, and Earls 1995).

Aside from the plausibility of men’s influences, few anthropological studies have addressed men’s relationships to their partners either prior to or after a preterm delivery, although some anthropologists have focused on the relationship between men’s couvade symptoms (sympathetic pregnancy, which includes weight gain, indigestion, and nausea), men’s involvement in pregnancy, and pregnancy outcomes (Conner and Denson 1990). Anthropological investigations of pregnancy and birth traditionally have focused on obstetric practices (Davis-Floyd 1992; Davis-Floyd and Sargent 1997a, 1997b; Kay 1982b), as well as women’s birth experiences and care decisions (Sargent 1989). Although a recent emphasis on power differentials negotiated in obstetric care points to the role of men (Davis-Floyd and Sargent 1997a, 1997b), more qualitative research from an anthropological perspective is needed to include men as a major part of women’s social environment in both pre- and postnatal health.

Men’s Influences on Infertility

Worldwide, between 8 and 12 percent of couples suffer from infertility, or the inability to conceive a child at some point during their reproductive lives (Reproductive Health Outlook 2003). However, in some non-Western societies, especially those in the “infertility belt” of central and southern Africa, rates of infertility may be quite high, affecting as many as one-third of all couples attempting to conceive (Collet et al. 1988; Erckens and Brunette 1996; Larsen 2000). In developing countries, many cases of infertility are due to infection, including sterilizing STIs men pass to their female partners. Unfortunately, in vitro fertilization (IVF), which was designed to overcome infection-induced tubal infertility, is often unavailable or unaffordable in non-Western settings (Inhorn 1994a, 2003a; Okonofua 1996). Thus, permanent childlessness may be the result of men’s STIs.

A growing ethnographic literature demonstrates that women worldwide bear the major burden of infertility (Boerma and Magilla 2001; Feldman-Savelberg 1999; Greil, Leitko, and Porter 1988; Inhorn 1994b; Inhorn and van Balen 2002). This burden may include blame for the reproductive failing: emotional distress in the forms of anxiety, depression, frustration, grief, and fear (Greil 1997); marital duress, leading to abandonment, divorce, or polygamy; stigmatization and community ostracism; and, in many cases, bodily taxing, even life-threatening forms of medical intervention. For example, Inhorn (1994b, 2003b) has shown that poor urban Egyptian women are forced to seek infertility treatments, even in cases of proven male infertility, because they are blamed and stigmatized by the ensuing childlessness. In some cases, their quests for conception are
truly iatrogenic when poorly trained, mostly male physicians utilize outdated technologies leading to reproductive tract damage (Inhorn 1994b, 1996).

Anthropologists have shown that infertility is a form of reproductive morbidity with profoundly gendered social consequences, which tend to be more grave in non-Western settings (Inhorn and van Balen 2002). In many non-Western societies, infertile women’s suffering is exacerbated by strong pronatalist social norms that mandate motherhood. Yet, policymakers in these countries are often obsessed with curbing population growth rates, ignoring infertile women’s suffering because of their “barrenness amid plenty.”

Infertility, like most reproductive health issues, is usually conceptualized as a “woman’s problem” in both indigenous systems of meaning and in global reproductive health policy discussions. However, the reality of infertility challenges this assertion because the biology of infertility does not reside solely or even largely in the female reproductive tract. The most comprehensive epidemiological study of infertility to date—a WHO-sponsored study of 5,800 infertile couples at thirty-three medical centers in twenty-two countries—found that men are the sole cause or a contributing factor to infertility in more than half of all couples around the globe (Cates, Farley, and Rowe 1985). The four primary types of male infertility are low sperm count (oligospermia), poor sperm motility (asthenospermia), abnormal sperm morphology (teratozoospermia), and complete absence of sperm in the ejaculate (azoospermia). The causes of these types of male infertility are largely idiopathic, or unknown (Irvine 1998). However, male infertility can be partly explained by exposure to reproductive toxicants, including those that are occupational, environmental, and behavioral in nature (Bentley 2000). For example, among infertile men in Mexico, smoking has been associated with lower sperm density, viability, and motility, and a higher percentage of abnormal sperm (Merino, Ura, and Martínez-Chequer 1998). Similarly, in Egypt and other urban areas of the Middle East, patterns of heavy male smoking, coupled with ambient lead pollution in the air, may be responsible for the significant rates of male infertility, including among men with severe reproductive impairments (Inhorn 2002, 2003b).

Increasingly in Egypt, as well as in many other parts of both the industrialized and developing worlds, a new reproductive technology called intracytoplasmic sperm injection (ICSI) has allowed otherwise hopelessly infertile men to father biological children. With ICSI, as long as a single viable spermatozoon can be retrieved from an infertile man’s body—including through painful testicular biopsies or aspirations—it can be injected directly into an ovum under a high-powered microscope, thereby producing live offspring for men who would not have otherwise procreated. Although ICSI, as a variant of IVF, is being heralded as a revolution in the management of male infertility (Fishel, Dowell, and Thornton 2000), the bioethical dimensions of ICSI are being debated. In particular, men’s serious genetic disorders, which may have prevented them from reproducing in the first place, may be passed on to offspring, sometimes in amplified form (Bittles and Matson 2000).

That such concerns over potential fetal harm are salient among couples using ICSI to overcome male infertility is apparent from anthropological studies in Egypt and Lebanon (Inhorn 2003a, 2003b). In Egypt, Inhorn found that the majority of infertile men choosing to avail themselves of ICSI nonetheless worried considerably about the health and “shape” of future children conceived from their “weak” (and sometimes morphologically deformed) sperm. In both Egypt and Lebanon, infertile men also feared that other men’s “healthy” sperm might be intentionally or inadvertently “mixed” with their own, thereby producing illegitimate offspring (Sunni Islamic mandates prohibit third-party donation of sperm, eggs, and embryos) (Inhorn 2003a, 2003b). Furthermore, some men whose wives had grown too old to produce viable ova for the ICSI procedure were choosing to marry younger, more fertile women. The gender effects of ICSI were thus paradoxical, as a new reproductive technology designed to facilitate male procreation had created potentially precarious reproductive scenarios for the once-fertile wives of infertile Muslim men. As seen in the case of ICSI, infertile men’s decisions to use new reproductive technologies may have major consequences for women’s own reproductive and social well-being.

Men Causing Fetal Harm

The impact of occupational risk factors on reproductive health has been one area of research on men that predates the ICPD paradigm shift (Sever 1981; Sinclair 2000; Steeno and Pangkahila 1984). The majority of studies have focused on the effects of different occupational exposures on men’s, rather than women’s, fertility and reproductive well-being. However, much less research has been done on the effects of men’s occupational, environmental, and lifestyle toxicant exposures on women’s reproductive health and birth outcomes (Davis, Friedler, Mattison, and Morris 1992). Yet, birth defects are more often associated with paternal rather than maternal DNA
damage (Pollard 2000). With the increase in industrialization and the proliferation of new chemical compounds that are potential endocrine disrupters, the magnitude and effects are likely to increase. Theoretically, exposures that could transmit harm to a fetus might damage the paternal germ line, the cells from which sperm cells are produced. Paternal exposure to mutagens, in particular industrial aromatic solvents, is highly associated with impaired semen quality (De Cellis et al. 2000; Thielemann et al. 1999), and may lead to adverse pregnancy outcomes such as spontaneous abortion, congenital malformation, and low birth-weight/preterm birth (Brinkworth, 2000; Lindbohm 1995). Lifestyle choices such as smoking, drinking, and drug use also may affect semen quality, but results are equivocal, with little research directly connecting men’s use of substances to fetal harm.

In considering fetal harm in the United States, Daniels (1997, 1999) describes a complex web of relationships, including institutional and social ones, affecting reproductive health while still emphasizing the importance of the individual as a locus of responsibility. Even given the limited conclusive evidence for transmission of fetal harm through occupational and environmental damage to paternal germ cells, Daniels argues that paternal exposures profoundly influence fetal health. Moreover, Daniels examines perspectives on men and fetal harm as emblematic of broader attitudes toward men’s responsibility for social reproduction. “Crack babies” are the children of “pregnant addicts” and “absent fathers”; these are the terms framing discussion over fetal harm, such that men are protected from responsibility while women (predominantly African American women) are criminally prosecuted for fetal neglect and abuse. “Debates over fetal risk are not so much about the prevention of fetal harm as they are about the social production of truth about the nature of men’s and women’s relation to reproduction” (1997:379). Daniels suggests that notions of masculinity denying male health problems project vulnerabilities on to the bodies of women. Sperm is thus either classified as damaged and incapable of fertilization, or as unaffected and potent, while women’s bodies are characterized as highly vulnerable to occupational reproductive risks (see Martin 1987). This all-or-nothing approach suggests that abnormal or damaged sperm are incapable of causing fetal harm such as birth defects.

Daniels argues that male vulnerability must be recognized and suggests that targeting select groups of women (and men), such as those who use crack cocaine, obscures the institutional and structural causes of fetal harm. Just as Daniels argues it is impossible to separate responsibility for fetal harm along the lines of men/women or institutions/social structures, so too it is impossible to isolate who suffers from fetal harm. Men may “cause” fetal harm involuntarily through occupational exposures that affect their semen and at the same time suffer the feelings of compromised reproductive health if a pregnancy results in spontaneous abortion. Recent anthropological studies of pregnancy loss cross-culturally (Ceci 1996; Layne 2003) suggest that men are caught in a double bind: they feel the need to avoid showing emotion so they can support their partners through the physically difficult experience of pregnancy loss, at the same time experiencing similar emotions of the grief and loss experienced by their female partners. This is perhaps especially true as prenatal ultrasound imaging technologies have changed men’s expectations of paternal bonding to unborn fetuses (Layne 1992, 1999; Morgan and Michaels 1999).

As Daniels argues, this area of reproductive health requires different definitions of rights and responsibilities for men and women based on their varying contributions to fetal harm. Anthropological research has the potential to describe different perceptions of rights and responsibilities depending on the actors involved in reproductive health—mother, father, and fetus. Rather than straightforward and constant agents, “mother,” “father,” and “fetus” are ideological concepts with reproductive health states dependent on their definition (Morgan and Michaels 1999). Because reproductive health depends on more than one individual, the idea that the individuals involved can be multiply defined—not just in terms of their rights and responsibilities, but also in terms of their identities and the boundaries between them—deeply affects how reproductive health may be achieved in any given setting.

**Conclusion**

This chapter has attempted to summarize some of the most important ways men affect the reproductive health of women. Such a summary might take the form of a “conceptual framework” of causes and effects, such as the various microbiotic vectors causing STIs or factors leading to contraceptive use or fetal harm. However, the anthropological perspectives and ethnographic examples elaborated in this chapter show how difficult such a summary would be. First, there are multiple and sometimes contradictory ways men can affect reproductive health problems. Therefore, much of the anthropological work discussed here attempts to trace the effects of men on
Men's Influences on Women's Reproductive Health

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Part II.

FERTILITY AND FAMILY PLANNING