Where the Most Private Becomes Public: Policy Making for Sexual Health

The PLoS Medicine Editors*

Worldwide, the World Health Organization estimated that in 1999 there were 340 million new cases of curable sexually transmitted diseases (STDs)—syphilis, gonorrhea, chlamydia, and trichomoniasis—in men and women aged 15–49 years [1]. Although in Western countries curable STDs may not seem a major threat to public health, these diseases disproportionately affect the poor, young people, and ethnic minorities, and can cause acute illness, disability and death, pre-term or low birth-weight babies, congenital birth defects, female infertility, and increased HIV transmission. High-income countries are by no means exempt from the burden of STDs: there are 19 million new cases of STDs each year in the United States, at an estimated cost of US$15.9 billion annually to the US health care system [2].

Yet the burden of morbidity and mortality from STDs is only one aspect of sexual health. Formerly considered under the umbrella of reproductive health by policy makers, sexual health was identified as a topic meriting attention in its own right by the World Health Organization in 2004 [3]. The International Planned Parenthood Foundation (http://www.ippp.org/en/), a leading advocate of sexual and reproductive health and rights for all, has endorsed the United Nations definition of sexual health: “the notion of sexual health implies a positive approach to human sexuality and the purpose of sexual health care should be the enhancement of life and personal relations and not merely counselling and care related to reproduction and sexually transmitted diseases.”

The International Planned Parenthood Foundation has identified five priority areas for action on sexual health: addressing unsafe abortion, access to services and information for marginalized individuals, access to contraception, advocacy for better legislation and services, and action on HIV/AIDS (which is not categorized as a curable STD). Tackling such priority areas, and reducing the burden of illness and death that results from sexual health problems, requires approaches that are tailored to the needs of different individuals and groups in different countries. Since our launch in 2004, PLoS Medicine has highlighted some of these diverse approaches.

Unmet contraceptive needs and unsafe sex both figure in the top 20 risk factors for mortality and burden of disease [4–6] and are included among PLoS Medicine’s recently announced priority areas for publication [7]. Several of the UN Millennium Development Goals (MDGs) are relevant to these problems—in particular, MDG3 (promoting gender equality and empowering women), MDG5 (improving maternal health), and MDG6 (combating HIV and other diseases). A report published in 2008 [8] details some of the progress that has been made towards achieving the aims of MDG5. One target of MDG5 is to achieve universal access to reproductive health care by 2015. Although some progress has been made, the report noted that 20% of sub-Saharan African women and 27% of poor women from Latin America and the Caribbean have unmet contraceptive needs. Lack of access to contraceptives results in unnecessary maternal deaths; complications from unsafe abortion account for about 70,000 deaths each year.

Access to free or affordable contraceptives remains limited, even in many high-income countries. For example, in the US, health insurance companies in many states do not cover the costs of contraception. Moreover, according to the Center for Reproductive Rights (http://reproductiverights.org/en/project/contraceptive-access-in-the-united-states) “funding for the U.S. government’s Title X program, which funds low-cost, confidential family planning services, is 61% lower today in constant dollars than it was in 1980.” Change may be on the way: the Obama administration has now moved away from “abstinence only” education favored by the Bush administration as a panacea for preventing unwanted pregnancy and STDs, and has lifted a ban on federal funding for foreign family planning agencies that promote or provide information about abortion [9]. We recently published a study and accompanying commentary [10,11] that highlighted the potential benefits of “abstinence-plus” programs, which promote abstinence to reduce HIV transmission but also promote safe sex.

By contrast, despite the ready availability of free contraceptives in the United Kingdom, pregnancy rates (intended and unintended) are high in teenage girls [12]. Such teenage pregnancies are associated with low birth-weight babies, and can result in significant disadvantages for mothers and their children. The high rate of teenage pregnancies has led to initiatives such as advertising condoms more prominently on TV at times that under-18s are likely to be viewing. New studies are clearly needed to unravel the complex reasons underlying the high rate of STDs and teenage pregnancies, and to define effective strategies to tackle this problem.

Citation: The PLoS Medicine Editors (2009) Where the Most Private Becomes Public: Policy Making for Sexual Health. PLoS Med 6(5): e1000082. doi:10.1371/journal.pmed.1000082

Published May 26, 2009

Copyright: © 2009 The PLoS Medicine Editors. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Funding: The authors are each paid a salary by the Public Library of Science, and they wrote this editorial during their salaried time.

Competing Interests: The authors’ individual competing interests are at http://www.plosmedicine.org/static/interests.action. PLoS is funded partly through manuscript publication charges, but the PLoS Medicine editors are paid a fixed salary (their salary is not linked to the number of papers published in the journal).

Abbreviations: MDG, Millennium Development Goal; STD, sexually transmitted disease.

* E-mail: medicine_editors@plos.org

Provenance: Written by editorial staff; not externally peer reviewed

The PLoS Medicine Editors are Virginia Barbour, Jocelyn Clark, Susan Jones, Larry Peiperl, Emma Veitch, and Gavin Yamey
Judith Stephenson and colleagues, for example, recently examined the impact of a peer-led sex education program in the UK [13] and concluded that although this innovative approach didn’t result in a reduction in abortion, it may have led to slightly fewer live births among the teenagers. Lee Warner and colleagues assessed the effect of a brief video screened in the waiting room of STD clinics in the US and found that this simple intervention reduced new infections by almost 10% overall in three clinics [14]. Both studies highlight the complexity of issues surrounding improving sexual health and promoting safe sex, but also suggest that innovative approaches aimed at modifying sexual risk behavior may improve health outcomes.

Addressing the morbidity and mortality that results from unsafe sex requires pinpointing who is at risk and why. For instance, while resources are earmarked to ensure the routine availability of testing for HIV and other STDs in some groups, such as pregnant women in the developed world, these infections are on the rise in other groups whose needs are currently not being addressed, such as those old enough to have stopped worrying about unwanted pregnancy. The UK Health Protection Agency reports that STDs other than HIV have doubled in less than a decade in those aged over 45 years [15]. In Brazil, HIV is an increasing problem in those aged over 50 years, with cases doubling from 7.5 to 15.7 cases per 100,000 inhabitants between 1996 and 2006 [16]. Clearly there is a need to more effectively target older individuals to promote healthy sexual behavior. In the developing world, complex relationships have also been found between behavior and the risk of unsafe sex. For example, Sheri Weiser and colleagues found that food insufficiency among women in Botswana and Swaziland is associated with an increased risk in women of unsafe sex [17,18]. Alcohol abuse has also been linked to a risk of unsafe sex and HIV infection in men and women in Botswana [19]. Tackling HIV thus remains a multifaceted challenge that requires attention to issues well beyond screening for and treatment of infection.

Promoting sexual health requires both systematically integrated and individually tailored approaches. Initiatives must reach out in new ways to target those who are at risk. Although narrowly focused political and religious perspectives have in the past hampered policy making to improve sexual health, today’s politicians and religious leaders must redouble their leadership in tackling these problems, precisely because they occur at the intersection of health, culture, religion, and politics. Only in the setting of such support can medical research fulfill its role in promoting sexual health, be it through the use of new media, as reported by recent PLoS Medicine papers exploring the utility of the Internet for reducing the incidence of STDs among specific groups in the developed and developing world [20–22], or through more traditional studies examining how new drugs, or novel educational packages, can be deployed effectively. It is time to realign research and policy making to promote better sexual health for all.

Author Contributions
Wrote the first draft of the paper: SJ. Contributed to the writing of the paper: VB JC LP EV GY.

References
1. World Health Organization (2001) Global prevalence and incidence of selected curable sexually transmitted infections: Overview and estimates. Available: http://www.who.int/hiv/pub/sti/who_hiv_aids_2001_02.pdf. Accessed 22 April 2009.
2. Centers for Disease Control and Prevention (2000) Sexually transmitted disease surveillance, 2000. Available: http://www.cdc.gov/std/stats07/main.htm. Accessed 22 April 2009.
3. World Health Organization (2004) Sexual health—A new focus for WHO. Progress in Reproductive Health Research, No. 67. Available: http://www.who.int/reproductive-health/hr/progress76.pdf. Accessed 22 April 2009.
4. World Health Organization (2006) The global burden of disease: 2004 update. Deaths and DALYs 2004: Annex tables. Available: http://www.who.int/healthinfo/global_burden_disease/GBD_report_2004Update_AnnexA.pdf. Accessed 22 April 2009.
5. Mathers CD, Loncar D (2006) Projections of global mortality and burden of disease from 2002 to 2030. PLoS Med 3: e42. doi:10.1371/journal.pmed.0040042.
6. Lopez AD, Mathers CD, Ezzati M, Jamison DT, Murray CJ (2006) Global and regional burden of disease and risk factors, 2001: Systematic analysis for the Global Burden of Disease Study. Lancet 367: 1747–1757.
7. The PLoS Medicine Editors (2009) A medical journal for the world’s health priorities. PLoS Med 6(4): e1000072. doi:10.1371/journal.pmed.1000072.
8. United Nations (2008) The Millennium Development Goals Report 2008. Available: http://www.un.org/millenniumgoals/pdf/The%20Millennium%20Development%20Goals%20Report%202008.pdf. Accessed 22 April 2009.
9. BBC News (2009 January 24) Obama lifts ban on abortion funds. Available: http://news.bbc.co.uk/1/hi/america/7847651.stm. Accessed 22 April 2009.
10. Underhill K, Operario D, Montgomery P (2007) Systematic review of abstinence-plus HIV prevention programs in high-income countries. PLoS Med 4: e275. doi:10.1371/journal.pmed.0040275.
11. Dworkin SL, Sanetji J (2007) Do abstinence-plus interventions reduce sexual risk behavior among youth? PLoS Med 4: e260. doi:10.1371/journal.pmed.0040260.
12. Office for National Statistics and Teenage Pregnancy Unit (2009) Under-18 conception and abortion rates in England and Wales: trends 1998–2007. Available: http://www.everychildmatters.gov.uk/resources-and-practice/IG00200/. Accessed 29 April 2009.
13. Stephenson J, Strange V, Allen E, Copas A, Johnson A, et al. (2008) The long-term effects of a peer-led sex education programme (RIPPLE): A cluster randomised trial in schools in England. PLoS Med 5: e224. doi:10.1371/journal.pmed.0050224.
14. Warner L, Klausner JD, Rietmeijer CA, Malone CK, O’Donnell L, et al. (2008) Effect of a brief video intervention on incident infection among patients attending sexually transmitted disease clinics. PLoS Med 5: e135. doi:10.1371/journal.pmed.0050135.
15. Bodley-Tickell AT, Olowokure B, Bhaduri S, White DJ, Ward D, et al. (2008) Trends in sexually transmitted infections (other than HIV) in older people: analysis of data from an enhanced surveillance system. Sex Transm Infect 84: 312–317.
16. Jurberg C (2009) Unprotected sex has no age. Bull World Health Organ 87: 163–166. doi:10.2471/BLT.09.010309.
17. Weiser SD, Leiter K, Bangberg DR, Butler LM, Percy-C kode K, et al. (2007) Food insufficiency is associated with high-risk sexual behavior among women in Botswana and Swaziland. PLoS Med 4: e260. doi:10.1371/journal.pmed.0040260.
18. Rollins N (2007) Food insecurity—A risk factor for HIV infection. PLoS Med 4: e301. doi:10.1371/journal.pmed.0040301.
19. Weiser SD, Leiter K, Heider M, McFarland W, Korte FP-d, et al. (2006) A population-based study on alcohol and high-risk sexual behaviors in Botswana. PLoS Med 3: e392. doi:10.1371/journal.pmed.0030392.
20. Caruso WH, Blas MM, Nodell B, Alva IE, Kurth AE (2007) Opportunities for providing web-based interventions to prevent sexually transmitted infections in Peru. PLoS Med 4: e11. doi:10.1371/journal.pmed.0040011.
21. Levine D, Woodruff AJ, Moccio LR, Lebrija J, Klausner JD (2008) inSPOT: The first online STD partner notification system using electronic postcards. PLoS Med 5: e213. doi:10.1371/journal.pmed.0050213.
22. Yharta ML, Kivanczia J, Emenyounu N, Bangberg DR (2006) Internet use among Ugandan adolescents: Implications for HIV intervention. PLoS Med 3: e43. doi:10.1371/journal.pmed.0030433.