# Sexually Transmitted Disease: Shadow on the Land Revisited

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EDITORIAL

Sexually Transmitted Disease: Shadow on the Land, Revisited

Since Surgeon General Thomas Parran (1) began his campaign in the 1930s to wipe out syphilis—"the shadow on the land"—partner notification has been considered an important element of public health policy to control epidemic disease. Case finding through notification of partners was based on the common-sense notion that early intervention among persons who were often unaware that they might be infected could lead to the control of diseases like syphilis. Parran called for a "Wassermann dragnet": vigorous screening, reporting, contact tracing, and treatment to rid the nation of the scourge of sexually transmitted disease. When first proposed and implemented in the 1930s and 1940s, partner notification for sexually transmitted diseases held great promise. Typically, public health officers reported on field investigations where epidemics, traced back to a single index patient, were "shut down" through dogged "shoe leather epidemiology." No doubt, Parran's program met with considerable success, breaking the conspiracy of silence associated with these diseases and attracting much needed attention and resources (2).

Unfortunately, the specific aspects of these programs have rarely been systematically evaluated to examine their efficacy as public health policies. Partner notification programs, for example, have typically been debated on ideologic grounds: Does the State have a right to require reporting and aggressively trace sexual contacts or is such activity a violation of basic rights of privacy and confidentiality? On a pragmatic level, does the knowledge that infected individuals will be questioned about their sexual contacts discourage persons from seeking appropriate care? Although supporters of the programs typically cite the number of new cases discovered through notification (3), detractors typically cite the fact that discovered cases may only represent a small proportion of actual new infections (4). Do partner notification programs achieve their goals? It is striking how little is known about the relative cost and effectiveness of these programs.

In this issue, Andrus and colleagues (5) report the results of an evaluation of the effectiveness of partner notification in controlling epidemic syphilis. The case-control study conducted in Oregon in 1987 is important because it is one of the rare instances in which a longstanding public health program has been subjected to careful and rigorous assessment. The paper shows that the "technologies" of public health can be subjected to scientific evaluation. How well do the available tools meet the demands of a particular epidemic? To mandate such interventions without previous assessment of their efficacy, as well as their costs and benefits, could lead to the substantial commitment of limited resources (both human and financial) without accruing clear advantages. To invoke public health measures simply because there are historical precedents would be the equivalent of using medications whose safety and efficacy have never been clearly demonstrated because individual clinicians are "convinced" they work.

Andrus and colleagues (5) thus have shed empirical light on an old debate. The authors conclude that as a result of three factors—that the period of infectiousness of syphilis is relatively long; that many persons reported multiple partners; and that those infected with the disease were likely to exchange sex for money or drugs—partner notification was unlikely to contribute significantly to the control of the epidemic. For example, among persons who reported exchanging sex for drugs or money (a major component of the epidemic), 92% could not provide locating data for their partners. The conclusion that their paper reaches seems modest and clear: Partner notification must be supplemented by other public health interventions to control epidemic syphilis. The implications of their findings, however, are broader and touch on one of the most vigorously contested public policies regarding the control of sexually transmitted diseases and, especially, infection with the human immunodeficiency virus (HIV).

Recently, a vocal debate (6) has ensued whether the traditional control mechanisms for sexually transmitted diseases are effective for the control of HIV infection. Contact notification programs for syphilis and gonorrhea are now frequently cited as a potentially effective model for the control of HIV infection (7-9). It is critical that such applications be carefully reviewed: first, to assess the evidence that they make a
difference for syphilis and gonorrhea control; and second, to evaluate the likelihood that they will help control HIV infection. Given the findings reported in this issue (5), there is reason to be cautious in applying the concept of partner notification for HIV infection. Indeed, controlling HIV infection presents problems that are common to other sexually transmitted diseases such as syphilis as well as significant barriers of its own.

State-mandated partner notification appears unlikely to effect positively the course of the HIV epidemic. Important social and cultural changes since the inception of contact tracing have compromised the efficacy of these programs. According to reports from the 1940s, most index patients named only one contact. As sexual mores have changed, the increase in multiple and anonymous contacts has grown. Moreover, in the case of HIV infection, spread by both sexual contact and needle-sharing, the possibilities of truly effective notification become highly problematic. Considerable evidence exists that the actual number of contacts has increased at the same time that an index patient's ability to adequately identify his or her contacts has decreased (even presuming a cooperative index patient). The demands that this problem places on resources are, of course, considerable and must be measured against other potentially more effective interventions. Finally, the long period of infectiousness of HIV as well as the current inability to render persons noninfectious further diminishes the potential advantages of tracing contacts (10). It is important to recognize that the problem with partner notification in this instance is not that it violates civil liberties or that it is intrusive or stigmatizing (although these are important concerns), but the great uncertainty that it effectively serves the goals of public health and welfare.

Skepticism about partner notification programs as a means of controlling epidemic syphilis or HIV infection, of course, should not discount the significance of finding newly infected persons and assuring that they receive optimal treatment. In this respect, it is critical to distinguish the importance of warning ongoing sexual partners of HIV-infected persons. Such programs, programs that may have been effective under other circumstances, but in the contemporary context, fail to achieve their important goals.

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References


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