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Round table

Routine feedback of test results to participants in clinic- and survey-based surveillance of HIV

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Abstract Surveillance for human immunodeficiency virus (HIV) in low- and middle-income countries started in the 1980s. However, the questions of whether the results of HIV tests should be given to participants, and if so how, has still not been resolved. In the absence of effective treatment, it was considered acceptable to withhold results from HIV-positive participants. However, when antiretroviral treatment is available, some argue for beneficence — that it is the researcher’s duty to return the test results to all those who provide samples for surveillance. The corollary is that only participants who wish to receive their test results would be eligible to participate in surveys. Others argue for autonomy — that to obtain a more representative result for the general population, surveys should not exclude participants who do not wish to receive their test results. This round table discussion takes a closer look at those two arguments. We believe that the global community should work towards routine feedback of HIV surveillance while ensuring that participants receive and understand their test results.

Introduction

In the early stages of the human immunodeficiency virus (HIV) epidemic, surveillance presented various logistical and ethical issues — including whether or not the results of HIV tests should be given to all of the tested participants.1 There is a public health benefit if individuals are told that they have tested HIV-positive and then adopt preventive behaviours which limit further transmission. However, the absence of treatment at that time often created the perception that there were few personal advantages for HIV-positive individuals to receive their test results. These personal advantages were weighed against the potential risks individuals might experience, including social isolation, rejection and anxiety. There were concerns that, if HIV surveillance system data were insufficiently protected, disclosure could lead to further stigma and discrimination against HIV-infected individuals.2 In many settings, there were also resource concerns. If HIV surveillance systems required individual informed consent and receipt of test results, this might overburden surveillance staff.3 Before 2002, because of these perceptions and issues, much clinic-based HIV surveillance employed unlinked anonymous testing of remnant specimens — e.g. from syphilis testing. In such surveillance systems, HIV test results could not be returned to participants. Most protocols for population-based surveys of HIV prevalence included obtaining informed consent for testing but did not require disclosure of test results to all the participants.3

Today, the environment is different. Antiretroviral treatment is available in most settings. The availability of treatment has transformed the outlook of people with HIV infection and changed the perceptions of those conducting HIV surveillance. Antiretroviral treatment can, in addition, prevent both vertical (mother-to-child) and sexual transmission2,4 and is therefore of benefit to the uninfected population as well as people living with HIV.

In the 1990s, many countries with low-level, concentrated epidemics of HIV discontinued unlinked anonymous testing in HIV surveillance in favour of testing with informed consent and result disclosure. However the practice of unlinked anonymous testing has continued, particularly in antenatal clinics in countries in sub-Saharan Africa.5,6 Today, worldwide, in most clinic-based or population-based surveys of HIV, explicit consent is sought from participants to provide a sample for HIV testing. The results may be linked to behavioural and other personal data. In some cases, HIV surveys are conducted on the basis that participants may consent to provide a sample and may also decide whether or not to receive their result. However, this approach conflicts with standard practice in surveys of diabetes, hypertension, tuberculosis and many other treatable conditions, in which individuals consent to participate on the basis that they will always receive their test results.5

Global debate

In 2013, the Joint United Nations Programme on HIV/AIDS (UNAIDS) and the World Health Organization (WHO) issued guidance on how to assess the availability and quality of data collected as part of a programme for the prevention of mother-to-child transmission of HIV.5 It is anticipated that, in the near future, enough data of high quality will be available from such programmes that there will no longer be any need for unlinked anonymous testing in antenatal clinics. However, more detailed guidance is still needed for countries that decide to use programmatic data for HIV surveillance.

In September 2014, WHO and UNAIDS hosted a global meeting to update their Guidelines for using HIV testing...
technologies in surveillance.5 Country representatives, laboratory specialists, surveillance experts and programmatic experts who participated in this meeting debated the issue of returning the results of HIV tests, collected during surveys, to the tested individuals. They reviewed published arguments for surveillance methods in which all tested participants are given their test results6,11 and compared them with those in which test results would only be provided if requested.12,13 The discussions considered different types of surveillance—e.g. national population-based cross-sectional surveys and community-based longitudinal surveys. The different ethical issues relating to individuals known to be HIV-positive, those who had not previously been tested and those who had previously tested HIV-negative but were still exposed to risk of infection were also discussed. Since point-of-care testing for HIV surveillance should not replace diagnostic testing, the need for all test results to be confirmed according to national testing algorithms was also highlighted.

In general, the meeting participants tended to adopt two different positions: those who believed that there should be automatic individual feedback of results and those who believed that survey participants should be able to opt out of knowing their test results. Both viewpoints are grounded in the principles of biomedical ethics, with the former placing emphasis on beneficence and the latter on autonomy.

**Argument for feedback**

Those who argued for automatic feedback said that any other approach would be unethical, given the unmet demand for HIV testing, the wide availability of treatment and the potential benefit to participants of knowing their test results. As part of their informed consent, potential survey participants should be asked to provide demographic and other relevant information. They should also be offered a chance to provide a test sample, in the knowledge that, if tested, they will always be told the test result. However, no samples should be collected from participants who declared that they did not want to know their HIV status. Although some people may decline to participate in HIV surveillance if they know they will automatically receive their test results, most individuals offered HIV testing in clinical or community-based settings have agreed to be tested. Furthermore, it would be consistent with clinic-based and population-based surveillance conducted for other treatable conditions, where those who are tested are automatically informed of their test results and referred for care.

**Argument against feedback**

The alternative argument was that, although survey participants should be encouraged to receive their test results, surveys should not require participants who provide samples to be informed of their test results as a condition of participation. Such an approach, which should promote participation and reduce survey participation bias, would allow each potential participant to make two discrete choices: (i) whether to participate in the surveillance; and (ii) for those who agree to participate, whether to receive their test result. Proponents of this viewpoint out that people who already know that they are HIV-positive—so-called known positives—and people who arrange to be frequently retested—so-called repeat testers—may agree to participate and be tested but choose to decline to receive their results.

Some of those who argue against the automatic feedback of test results concede that such feedback may be justified when there is likely to be just one opportunity for a participant to be told their test result. The women included in HIV surveillance done in clinics for antenatal care or the prevention of mother-to-child transmission, for example, may not receive HIV testing again or be seen by those operating HIV surveillance. In multi-round longitudinal surveys and community-based research surveys, however, there may be multiple opportunities for participants to receive their test results. In these contexts, known positives and repeat testers are often encountered within a well-defined population that is surveyed at regular intervals.

Despite these differences in the opinions of the meeting participants, supporters of the automatic provision of test results maintain that information and counselling provided for repeat testers and known positives can be reduced and tailored to these groups—just as in the clinical settings where HIV testing is routinely offered and known positives and repeat testers may also be encountered.

**Different values and views**

Those who argue that all individuals tested for HIV should automatically be told their HIV status tend to believe that autonomy should chair, not rule.16 That is, respect for participants’ autonomy should not over-rule the ethical principle of beneficence. Since surveys usually have eligibility criteria, survey participants do not have any particular right to take part in a survey. Surveys that are not based on consent to the automatic individual feedback of test results are perceived as being untenable—because of the participants who remain unaware that they have been found positive in an HIV test and because of the interviewers who have not passed on test results to people that they have found to be HIV-positive.

Among those who argue against such automatic feedback, there is a belief that—to increase methodological rigour and obtain results that may be more representative of the general population—HIV surveys should be conducted in a way that does not exclude participants who do not wish to receive their test results. The use of protocols that require participants to receive their test results tends to reduce the participation of individuals who know they are living with HIV.17,18 For those who argue against automatic feedback, the public health value of better knowledge about the HIV epidemic outweighs any disadvantage associated with not providing test results.

**Towards routine feedback**

The consensus view that came out of the September 2014 meeting was that the global health community should be working towards ensuring that individuals who participate in HIV surveillance studies routinely receive their HIV test results. There remain concerns about the accuracy of HIV test results in the context of surveillance and, particularly, whether such results should be communicated to...
participants as definitive diagnoses or initial indicators of HIV status that needed further confirmation. Every HIV test result should be communicated to the tested individual in a way that enables the individual to understand the meaning of the result, respond to the result appropriately and, importantly, obtain relevant test confirmation, prevention, care, support and treatment services. Programmes for HIV surveillance must consider how they can best ensure that participants receive and understand their test results.

Competing interests: None declared.
Resumen

Información rutinaria de los resultados de las pruebas a los participantes en el seguimiento ambulatorio y basado en encuestas del VIH

El seguimiento del virus de la inmunodeficiencia humana (VIH) en países de ingresos bajos y medios empezó en los años ochenta. ¿Deberían proporcionarse todos los resultados de las pruebas al VIH a los participantes? Si es así, ¿de qué modo? A falta de tratamiento efectivo, se consideró aceptable informar los resultados de los participantes VIH-positivos. Sin embargo, cuando se dispone de tratamiento antirretroviral, hay quien defiende la beneficencia, es decir, que es el deber del investigador informar de los resultados de las pruebas a todos aquellos que proporcionen muestras para el seguimiento. La consecuencia de esto es que solo los participantes que quieran recibir los resultados de sus pruebas reunirían los requisitos para participar en las encuestas. Otros defienden la autonomía, es decir, que para obtener un resultado más representativo de la población en general, las encuestas no deberían excluir a los participantes que no quieran recibir los resultados de sus pruebas. Este debate de mesa redonda analiza con más detenimiento estos dos argumentos. Creemos que la comunidad mundial debería trabajar por la información rutinaria del seguimiento del VIH, al mismo tiempo que garantiza que los participantes reciban y entiendan los resultados de sus pruebas.

Referencias


