

AIDSIMPACT SPECIAL ISSUE: WHEN GOOD NEWS IS BAD NEWS: PSYCHOLOGICAL IMPACT OF FALSE POSITVE DIAGNOSIS OF HIV

Rahul Bhattacharya, Simon Barton, Jose Catalan

▶ To cite this version:

Rahul Bhattacharya, Simon Barton, Jose Catalan. AIDSIMPACT SPECIAL ISSUE: WHEN GOOD NEWS IS BAD NEWS: PSYCHOLOGICAL IMPACT OF FALSE POSITVE DIAGNOSIS OF HIV. AIDS Care, 2008, 20 (05), pp.560-564. 10.1080/09540120701867206. hal-00513457

HAL Id: hal-00513457

https://hal.science/hal-00513457

Submitted on 1 Sep 2010

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



AIDSIMPACT SPECIAL ISSUE: WHEN GOOD NEWS IS BAD NEWS: PSYCHOLOGICAL IMPACT OF FALSE POSITVE DIAGNOSIS OF HIV

Journal:	AIDS Care - Psychology, Health & Medicine - Vulnerable Children and Youth Studies
Manuscript ID:	AC-2007-08-0468.R1
Journal Selection:	AIDS Care
Keywords:	HIV, false positive, Psychological impact



AIDSIMPACT SPECIAL ISSUE: WHEN GOOD NEWS IS BAD NEWS: PSYCHOLOGICAL IMPACT OF FALSE POSITVE DIAGNOSIS OF HIV

Abstract:

HIV testing is known to be stressful, however impact of false positive HIV results on individuals is not well documented. This is a series of four case, who developed psychological difficulties and psychiatric morbidities, after being informed they had been misdiagnosed of HIV positive status. We look into documented cases of misdiagnosis and potential risks of misdiagnosis. The case series highlights the implications a false diagnosis HIV positive status can have, even when the diagnosis is rectified. Impact of misdiagnosis of HIV can lead to psychosocial difficulties and psychiatric morbidity, have public health and epidemiological implications and can lead to medico-legal conflict. This further reiterates the importance of HIV testing carried out ethically and sensitively, and in line with guidelines, respecting confidentiality and consent, and offering counselling pre-test and post-test, being mindful of the reality erroneous and false positive HIV test results. The implications of misdiagnosis are on the individual, their partners and social contacts, as well as for the community.

Aim:

To report the psychological impact of notification of the confirmed HIV negative status to people who had previously been diagnosed with HIV positive status. We looked into the potential sources of mistaken diagnosis with HIV testing and explored the impact of erroneous results from the psychosocial epidemiological and medico-legal domains.

Background:

The UNAIDS/WHO 2006 AIDS Epidemic Update, with an estimated 39.5 million people are living with HIV [Global AIDS epidemic continues to grow]. There is increased initiative for HIV testing, [e.g. WHO and UNAIDS issue new guidance on HIV testing and counselling in health facilities, 2007]. The United Nations and WHO published a policy statement in 2004, stating the importance of three- Cs in HIV testing. Confidentiality, Counselling, and Consent. In the United Kingdom both the General Medical Council ['Serious Communicable Diseases' 1997] and the Department of Health [Guidelines for pre-test discussion on HIV testing, 1996] had published documents with regards to HIV testing, emphasizing both pre and post-test counselling.

HIV testing is taken seriously not only because of the epidemic nature and high mortality of the illness, but also the psychological impact of HIV testing itself. HIV-positive result is associated with psychological morbidity (Catalan 1995). This is acute after initial diagnosis (Leiberich 1997) with gradual adjustment over time (Pedersen and Elkit 1998). Diagnosis of HIV also affects relationships, occupation, social stigma and future planning. Suicidal ideation is associated with testing process of HIV. Though there is a reduction in suicidal ideation in testing negative, there was no increase in risk with testing positive. Suicidal ideation was

Deleted: case

Deleted: individuals

Deleted: in the context of current methods of HIV testing

Deleted: huge

Deleted: The implications of misdiagnosis are on the individual, their partners and social contacts, as well as for the community.

Deleted: also

Deleted: such

Deleted: . We

Deleted: aspect

Deleted: epidemiology

Deleted: HIV continues to be identified as an epidemic by

Deleted: t

Deleted: WHO. According to the latest figures published today in the

Deleted: also rising concern and

Deleted: The recent guidelines published by Worth Health Organization

Deleted: The document states that 80% of the people in 'low and middle-income countries', who are HIV positive, are unaware of their serostatus. The document does not recommend non-specific HIV screening and does emphasize the psychological impact of HIV testing.

Deleted: . It stresses the importance of

OI .

Deleted: accompanying

Deleted: informed

Deleted: . Both these documents

speak of

Deleted: The reason why

Deleted: and needs special considerations is perhaps based

Deleted: on

Deleted: from research, which

looked into

Deleted: It has been noted

Deleted: has been

Deleted: persistent psychiatric difficulties

Deleted: more

Deleted: and adaptation associated with increased support

Deleted: has implications beyond the medical domain and

found to persist with pre and post test counselling in over 15% of seropositive and seronegative individuals (Perry et al 1990).

We found a series of five cases (Gill et al 1991), and few case reports of erronous HIV diagnosis (Vernon 1987, Zumwait et al 1987, Tyson 1987, Wu et al 1988). The risk of false positive results increases in low risk population screens (Meyer and Pauker 1987). A newspaper article referred to a man, found to HIV negative after fourteen months of being HIV positive (Gallagher, 2005). This is of relevance in screening blood donors (Altrah et al 1995). It is important that positive results are further investigated to establish a confirmed diagnosis (Mylonakis 2000).

There were no substantial data on the impact of notification of patients of false positive HIV positive status. One of the cases reported referred above (Vernon et al 1987) was noted to require psychotherapy for 'continued adjustment difficulties related to his misdiagnoses'.

A systemic review looking into long-term effect of false positive mammograms (Brewer et al 2007) found that false positive results impacted on health seeking behaviour of women. There was one newspaper report of a man who committed suicide after being falsely diagnosed of carcinoma (Brockes, 2001). Another newspaper article, reported a man misdiagnosed with cancer, spent all his money (Tozer 2007). These reports reflect the complexity with which people can respond to a false diagnosis.

Method:

Information from four medico-legal reports of cases, with erroneous diagnosis of HIV positive status were summarized. We have kept personal information to the minimumaiming to respect confidentiality. We presented with psychological impact and psychiatric morbidity pre and post-diagnosis ychiatric conditions, post-diagnosis and following revision of diagnosis to HIV negative status.

We carried out a literature search into the topic of psychological impact on people with misdiagnosis of HIV. We found minimal data in this regard. We found some data looking into impact of misdiagnosis in other conditions. We looked into psychological impact of HIV testing and potential sources of erroneous results. We carried out literature searches through the Ovid database using keywords of 'HIV testing', 'false positive', 'misdiagnosis' and 'psychological impact'. Relevant references from articles were searched. We also searched public domain data through generic Internet search engines.

Case Reports:

Case-1:

Deleted: There have been case reports and case series on false positive results for HIV. ...There is a published...case ... of erroneous diagnosis of HIV in 1991There are ...other false...Difficulty in diagnosing HIV status confidently in certain populations has been identified. ... blood... in low prevalence areas[1]

Deleted: reports ... of false positive result ... There was a newspaper article referring to a man, found to HIV negative after fourteen months of being HIV positive (Gallagher, 2005). This can be an unconfirmed case of false positive status or misdiagnosis and at the time of the report he was in legal battle over the issue of diagnosis.

Deleted: Looking into the impact of misdiagnosis of a chronic life threatening conditions we came across a.... The study[3]

Deleted: differently in different geographical areas. In some places they avoided contact with health services (in the US) or there was observed increase in reassurance seeking behaviour (in Canada). In European women there were no observed impact.

Deleted: tragic

Deleted: 57-year-old ...We also came across a...which looked into

Deleted: Described below is a case series of four cases known

Deleted: their

Deleted: . Information on the cases was obtained from their medic(... [6]

... [5]

Deleted: prepared by one of the authors [Cases 2, 3 and 4] and [... [7]]

Deleted: We have...the cases ...and presenting [8]

Deleted: the situation leading to the diagnosis,

Deleted: -diagnosis ps...psychological impact and ... [9]

Deleted: psychological impact and psychiatric morbidity

Deleted: We have kept personal information to the minimum.

Deleted: then ...of informing...patient of... positiv ... [10]

Deleted: did come across **Deleted:** , which have give us

generic information. **Deleted:** also looked

Deleted: and diagnosis ... under current diagnostic practices at ... [11]

Deleted: internet

Deleted: accessing data in the public domain.¶

33-years-old Caucasian heterosexual woman was found to be HIV positive following investigations in 1991. She had past psychiatric contact with the adolescent services, and had suffered emotional difficulties in the context of relationship problems. She suffered from hyperthyroidism, but did not have any ongoing psychiatric complains. She initially suffered from an adjustment disorder following the positive diagnosis. From 1993 to 1995 she suffered from depression with hypochondriacal reassurance seeking behaviour with fear of developing AIDS. She experienced rejection in her relationship and discrimination in her job. She then gradually came to terms with the condition by 1996 and positively adapted her social life leading to improved mental state. In 1997 she was re-investigated and found to be HIV negative, at a time when she was attempting to return to paid employment. After an initial couple of weeks of elation following receipt of this information, she <u>developed</u> a depressive episode. This was associated with anger over her predicament and anxiety of losing her newfound social circle which was based

Deleted: child and

Deleted: as a minor

Deleted: seven years prior to

Deleted: and was on treatment when diagnosed HIV positive

Deleted: initial HIV

Deleted: suffered

Deleted: displayed courage and motivation and

Deleted: gradual improvement of

Deleted: suffered

Deleted: . This

Deleted: by then

Case-2

around AIDS support groups.

35-years-old Caucasian gay man was found to be HIV positive on a routine 6 monthly testing in 1996. He had past history of bulimia nervosa though his condition was on remission. His job involved direct health care delivery.

Following the diagnosis he suffered from depression with suicidal ideation. While struggling to cope, he engaged in risk taking behaviour (unprotected sex and harmful use of alcohol). He disclosed his HIV status and was moved to a non patient contact job, which he did not enjoy. In 1999 he was re-tested after no confirmatory test was found in his notes. He was found to be HIV negative. Initial elation and shock soon gave away to low mood needing treatment with anti-depressant medication. He experienced anger towards perceived wasted time in his life. 🕌

Case-3

25-years-old heterosexual Asian, who was a victim of torture seeking asylum was housed with a HIV positive person which made him anxious. Testing revealed positive HIV status in

Following the diagnosis he developed depression with obsessive symptoms. This gradually resolved but in 1993 he married under pressure from family. The marriage broke down within months due to his anxiety of transmitting HIV to his wife. He suffered severe adjustment disorder at this point. He suffered extreme shame and guilt at this ordeal. Thereafter he displayed resilience to reorganize his life and started working with victims of torture. In 1996 he developed a cold, which he believed was sign of imminent AIDS. On seeking medical advice discrepancies appeared between his history and medical records, which led to retesting. The results confirmed a HIV negative status. He experienced anger and shock at

Deleted: Throughout his twenties he was unwell with

Deleted: and had continued to be on antidepressant for this purpose

Deleted: at the time of testing.

Deleted: at that point

Deleted: original

Deleted: He

Deleted: while struggling to cope. He engaged in

Deleted: **Deleted:** developed

Deleted: informed others of

Deleted: from his job

Deleted: his treating doctor noticed

there was

Deleted: filed

Deleted: continued

Deleted: because of

Deleted: However, over time he managed to gradually reduce his alcohol consumptions to within safe

Deleted: man who was seeking asylum with past history of torture

Deleted: He became anxious with the situation and HIV t

Deleted: was organized, the test results

Deleted: mounting

Deleted: once again

Deleted: ¶

Deleted: development of

this development, and regretted loss of <u>years</u> of his life. He developed depression with labile and irritable affect with suicidal ideation and PTSD type <u>'re-living'</u> symptoms of past torture.

Case-4

19-years-old woman was diagnosed of HIV positive status after travelling abroad in 1989. She had Anorexia Nervosa in hereadolescence..

She developed acute stress reaction with hypochondriacal features, followed by mixed anxiety and depression. She received psychotherapy and treatment with antidepressants. She modified her career choice presuming a short life expectancy. She remained in a stable relationship but experienced sexual dysfunction. She received private care between 1990 and 1999.

She was re-tested when she moved to NHS care in 1999 and was found to be HIV negative. She experienced anger and regret for major life decisions and developed Acute Stress Reaction and Panic Attacks. Her relationship also suffered with the change of roles and expectations.

Comment:

We observed a pattern of psychological impact following the disclosure of the previous erroneous result. There was an initial period of shock and elation lasting couple of weeks, followed by a more chronic response associated with anger and resentment over perceived wasted time and opportunities. There was stress, associated with readjusting and psychiatric morbidities such as depression, anxiety and panic attacks.

Discussion:

Table 1. Potential Causes of Erroneous Diagnosis of HIV positive status

Serological Causes

- 1. Interpreting Intermediate results
- 2. 'True' False Positive
- 3. Pregnancy
- 4. Neonates
- Immunological conditions such as SLE, malignancy
- Infections with immunological overlap such as HBV
- 7. Volunteers in vaccination trials

Logistical Issues

- Human Error such as mislabelling samples, erroneous recording of results or misreporting to patient
- 2. Screening not followed by follow-up
- Seeking [confidential] testing under false name
- 4. Factitious Disorders

Deleted: precious time

Deleted: . There was also

Deleted: emergence of

Deleted: following a testing carried

out

Deleted: suffered from

Deleted: her late teenage

Deleted: ¶

Deleted: disorder **Deleted:** periods of

Deleted: chose to abandon her initial

Deleted: taking into account her

Deleted: ed

Deleted: -term

Deleted:

Deleted: Following her diagnosis s

Deleted: was cared for

Deleted: privately

Deleted: for her HIV-status

Deleted: that were taken keeping in

mind,

Deleted: her HIV status. She

Deleted: long-term

Deleted: In our cases series w

Deleted: of behaviour and emotions

Deleted: to the patient.

Deleted: brief

Deleted: following notification of misdiagnosis. This was

Deleted: negative emotions of

Deleted: particularly towards the health care system. There was

Deleted: repentance about, what, was often

Deleted: as

Deleted: in adjusting to life with HIV positive status.

Deleted: their li

Deleted: fe

Deleted: ves

Deleted: without HIV

Deleted:

Deleted: These resulted in p

Deleted: There was development of

Deleted: . In Case-3, there was delayed appearance of PTSD symptoms.

Deleted: ¶

The potential causes of erroneous diagnosis can be looked into those resulting from Serological causes and those from Logistical error.¶ ... [12]

With screening ELISA test [Enzyme Immunoassay], there is a potential for misinterpretation in determining the visual cut-off in a result (Kleinman 1998). With Western Blot test, often used as confirmatory test, there can be potential confusion in case of partial antigenic response, i.e. intermediate' results (Kleinman 1998). In such cases further testing in the form of Polymerase chain reaction (PCR) and or Nucleic Acid based tests (NAT) is recommended and tests repeated after three months. The 2006 UK National Guideline on document HIV testing claims: 'Observational data are limited, but in ten years of application of the 'three months rule' by all members of the UK HIV Laboratory Forum no reports of its failure have been received, and thus it is recommended that in general the three month rule continues to be applied'. It is worth noting in this context that all the cases in our study were diagnosed to be HIV positive before 1996.

Current diagnostic protocols in the western world offer extremely sensitive and specific diagnosis. False positive rates are believed to be between 0.0004 to 0.0007% while false negative rates of around 0.0003% (Kleinman 1998). However concern remains in cases where the entire diagnostic protocol is not followed through. It is known people with 'evasive style' of coping, are at increased risk of psychiatric morbidity associated with HIV testing (Leiberich 1997). It can be hypothesized these are the people who are at increased risk of not following through the entire diagnostic protocol. There are case reports of emotional trauma in patients who chose to avoid confirmatory testing after testing positive on screening [Correspondence JAMA 1993; AIDS letter 1999], and people who were not reassured even after repeated negative tests.

Physiological conditions such as pregnancy [Doran and Parra, 2000] and neonatal state

[Owens et al 1996] sensitivity and specificity of tests are reduced. People suffering from

Systemic Lupus Erythematosus (Sommer 2004) are at increased risk of testing false positive.

People who had participated in HIV vaccine trials might present with a challenge in HIV testing (Weber 1997). The issue of serological false negativity is beyond the scope of this article.

The potential of false positive results magnify with less rigorous testing protocols. These would include testing in low and medium income countries where potentially due to resource constraints, more sophisticated tests may not routinely be available, to follow through, in all cases of ambiguous results.

The UNAIDS document on testing endorses voluntary testing, diagnostic testing in the symptomatic and testing in high-risk groups. It does not support but recognizes the presence of mandatory testing, such as testing associated with employment, or in certain countries joining armed forces or for immigration. These settings raise concerns surrounding the ethics

Deleted: Diagnosis of HIV is based

on the s

Deleted: . There is

Deleted: For

Deleted: which is often

Deleted: with ELISA testing

Deleted: to **Deleted:** in case of

Deleted: needs to be carried out

Deleted: for whatever reason

Deleted: In cases where false positive or ambiguous results of initial tests do not get retested, followed through and confirmed.

Deleted: who

Deleted: after false positive tests

Deleted: Over the last ten years, in UK, positive tests are retested after 3 months.

Deleted: Certain conditions are known to increase the risk of false positivity. There are p

Deleted: where

Deleted: The 2006 UK National Guideline on document HIV testing claims: 'Observational data are limited, but in ten years of application of the 'three months rule' by all members of the UK HIV Laboratory Forum no reports of its failure have been received, and thus it is recommended that in general the three month rule continues to be applied'. It is worth noting in this context that all the cases in our study were diagnosed to be HIV positive before 1996.¶

Deleted: occurring under current protocols is rare. However in setting of

Deleted: it can happen more frequently.

Deleted: perhaps

Deleted: test

Deleted: With increased impetus on mass testing this problem can magnify.¶

Deleted: in certain countries

Deleted: to certain countries

Deleted: ethical

Deleted:

of consent, confidentiality, counselling, and the level of sensitivity with which results are feedback, as well as the rigor of testing protocols in such situations.

The United States Food and Drug Administration first approved home kits in 1996. In 2006
the FDA clarified in a public statement that The Home Access Express HIV-1 is the only
home-kit it approved. Oraquick and Orasure are two other brands available in the UK. The
approved home kits claim 100% sensitivity but we were not able to obtain information
regarding risk of false positivity or false negativity. It is difficult to regulate the home kit
market. There are brands, which have been declared fraudulent (e.g. Globus Media of
Canada, Lei-Home kit from Carolina, US), There are also ethical considerations surrounding
effectiveness of counselling along with self-test kits, without face-to-face contact. In the UK
the Terrance Higgins Trust supports public access to self-test kits, and the UK Government
posted a technology note in this regard (Medical self test kits, 2003). In 1992 the government
had banned HIV self test kits in UK.

There is increased emphasis on improving access to HIV testing, such as with public health and voluntary sectors (Dialogai in Geneva). There is an increasing risk of HIV testing being carried out without the rigor it deserves, and thereby increasing risk of error. Public health authorities are promoting testing and initiating policies based on sero-status (e.g. sero-sorting). These can have immense public health implications in all countries.

Conclusion:

With recent increased emphasis on HIV testing as evident from the WHO document, there is a need for increased awareness both among public health authorities as well as in individuals of the reality of false positive test results and potential for error in diagnosis. We need to be mindful of the ethics behind HIV testing and ensure application of the rigorous testing protocols. Diagnosing someone as HIV positive has huge implications in medical, psychological and social domains for the individual. It has implications in terms of epidemiology, As obvious from the very basis of our study, there are medico-legal implications for the health care provider testing for HIV. There are also medico-legal implications for the individual in terms of insurance and disclosure.

References:

Altrah, H.I., et al (1995) Management of Blood Donors whose donations are repeatedly falsely positive by HIV antibody screening, Journal of Clinical Pathology, 48, 865-867

Brewer, N.T., et al (2007) Systemic review: The Long term Effects of False Positive Mammograms, Annals of Internal Medicine. 146(7), 502-510

Brockes, E., (13.01.2001) Death after false cancer diagnosis, The Guardian, 10

Catalan, J., (1995) Psychological Interventions in Infection with the Human Immunodeficiency Virus. The British Journal of Psychiatry, Volume 167(1), pp 104-111

Deleted: and

Deleted: . There are also issues surrounding rigorousness

Deleted: these settings, e.g. if screening tests are not followed through with confirmatory tests

Deleted: There are also issues surrounding the level of sensitivity with which results are feedback.

Deleted: There is increasing demand and availability of home-kits for HIV testing.

Deleted: This has led to the United States Food and Drug Administration

Deleted:) releasing a

Deleted: in this regard (FDA 2006). The FDA first approved home kits in 1996.

Deleted: a

Deleted: by FDA

Deleted: However i

Deleted: and t

Deleted: which have been

fraudulent

Deleted: though **Deleted:** in 1992

Deleted: Certain conditions are known to increase the risk of false positivity. There are physiological conditions such as pregnancy [Doran and Parra, 2000] and neonates and infants [meta-analysis by Owens et al 1996] where sensitivity and specificity of tests are reduced. People suffering from Systemic Lupus Erythematosus (Sommer 2004) are at increased risk of testing false positive. There are people who have participated in HIV vaccine trials who might present with a challenge in HIV testing (Weber 1997). The issue of serological false negativity is beyond the scope of this study.¶

Deleted: There needs to be increased rigor at being

Deleted: about the three components

Deleted: HIV testing, i.e. consent confidentiality and pre and post test counselling

Deleted: also

Deleted: both in the context of false positivity as well as sero-sorting techniques being promoted among HIV positive population in certain countries

Doran, T. I., Parra, E., (2000) False-Positive and Indeterminate Human Immunodeficiency Virus Test Results in Pregnant Women, Archives of Family Medicine; 9:924-929

Gallagher, I., (13th November 2005) First Man in World, The Mail on Sunday, 6

Gill, J.M., et al (1991) Five cases of erroneously diagnosed HIV infection, Canadian Medical Association Journal, 1593-1595

Global AIDS epidemic continues to grow, (2006), World Health Organization, http://www.who.int/hiv/mediacentre/news62/en/index.html

Guidelines for pre-test discussion on HIV testing, (1996), Department of health, United Kinadom.

http://www.dh.gov.uk/en/Publicationsandstatistics/Lettersandcirculars/Professionalletters/Chiefofficerletters/DH 4004038

James, T., $(7^{th}$ May 2007) The Good news: Doctor got it wrong and I am not dying The Bad news: I spent all my money on a farewell spree, Daily Mail, 21

Kleinman, S., et al (1998) False Positive HIV-1 test results in a low risk setting of voluntary blood donation. Retrovirus Epidemiology Donor Study, Journal of the American Medical Association 280(12) 1080-1085

Leiberich, P., (1997) Longitudinal Development of Distress, Coping and Quality of Life in HIV-positive persons, Psychother Psychosom, 66(5) 237-247

Marzuk, P.,(1991) Suicidal behaviour and HIV illnesses. International Review of Psychiatry, 3, 365-371

Mayer, K.B., and Pauker, S.G., (1987) Screening for HIV; Can we Afford false positive rate, The New England Journal of Medicine, 238-240

Medical self test kits (2003) Parliamentary Office of Science and Technology, http://www.parliament.uk/post/pn194.pdf

Myolanakis, E., et al (2000) Report of False Positive HIV test Result and the Potential use of Additional tests in Establishing HIV serostatus, Archive of Internal Medicine, 160, 2386-2388 Owens, D. K., (1996), A meta-analytic evaluation of the polymerase chain reaction for the diagnosis of HIV infection in infants, JAMA, 275(17), 1342-1348

Pedersen, S.S., Elkit, A., (1998) Traumatisation, Psychological defence style, coping, symptomatology in HIV –positive: A pilot study, Scandinavian Journal of Psychology, 39(2): 55-60

Perry, S., Jacobsberg, L., Fishman, B., et al (1990) Psychiatric diagnosis before serological testing for HIV. American Journal of Psychiatry, 147, 89-93.

Perry, S., Jacobsberg, L., & Fishman, B., (1990) Suicidal ideation and HIV testing. Journal of the American Medical Association, 263, 679-682.

Rogstad, K. E., et al, (2006) United Kingdom National Guidelines on HIV Testing 2006, Clinical Effectiveness Group: British Association of Sexual health and HIV, www.bashh.org/quidelines/2006/hiv testing june06.pdf

Serious Communicable Diseases ,(1997), General Medical Council, http://www.gmc-uk.org/quidance/current/library/serious communicable diseases.asp

Sommer. S., (2004), Systemic lupus erythematosus or infection with HIV, or both? Clinical and Experimental Dermatology, 29 (4) 393-395

Testing Yourself for HIV-1, the Virus that Causes AIDS (April 2006) U.S. Food and Drug Administration, http://www.fda.gov/cber/infosheets/hiv-home2.htm

Tyson, E., et al, (1987) Fraudulent AIDS A Variant of Munchausen's Syndrome, 258, 2063-2064

UNAIDS/WHO Policy Statement on HIV testing, June 2004, UNAIDS and WHO http://www.who.int/rpc/research_ethics/hivtestingpolicy_en_pdf.pdf

Weber, J., (1997) Distinguishing between Response to HIV Vaccine and Response to HIV, Lancet, 350 (9073), 230-231

WHO and UNAIDS issue new guidance on HIV testing and counselling in health facilities, 30 MAY 2007, World Health Organization,

http://www.who.int/mediacentre/news/releases/2007/pr24/en/index.html

.DS, Journal of . Wu, A., et al (1988) Factitious False positive for HIV, Journal of American Medical Association, 259(11), 1647

Zumwait, R.E., (1987) Fraudulent AIDS, Journal of American Medical Association, 257, 3231

Page 9 of 11 Health Sciences

rahul bhattacharya	11/6/2007 11:25:00 AM
user	11/14/2007 3:36:00 PM
liagnosis of a chronic life threatenir	ng conditions we came across a
user	11/14/2007 3:36:00 PM
e or the report he was in legal battle	e over the issue of diagnosis.
•	
,	
rahul bhattacharya	11/6/2007 11:22:00 AM
rahul bhattacharya	11/6/2007 9:35:00 AM
rahul bhattacharya	11/6/2007 9:35:00 AM
rahul bhattacharya	11/6/2007 11:20:00 AM
	441410000000000000000000000000000000000
Turius Brideworth yu	
rahul hhattacharva	11/6/2007 11:20:00 AM
tus confidently in certain population	ns has been identified.
rahul bhattacharya	11/6/2007 9:34:00 AM
rahul bhattacharya	11/6/2007 11:19:00 AM
rahul bhattacharya	11/6/2007 11:18:00 AM
ranui bnattacharya	11/6/2007 11:18:00 AM
	44/4/2007 44 40 00 00
in 1991	11/0/2007 11:10:00 AM
rahul bhattachanya	11/6/2007 11:18:00 AM
Tuliul Briaccachal ya	11,0,100,111,100,111
rahul hhattacharva	11/6/2007 11:17:00 AM
	==, 0, ================================
rahul bhattacharva	11/6/2007 11:16:00 AM
and case series on false positive res	sults for HIV.
rahul bhattacharya	11/6/2007 11:18:00 AM
	rahul bhattacharya rahul bhattacharya rahul bhattacharya in 1991 rahul bhattacharya rahul bhattacharya rahul bhattacharya tus confidently in certain population rahul bhattacharya rahul bhattacharya

We also came across a

Page 2: [4] Deleted	rahul bhattacharya	11/6/2007 11:27:00 AM
which looked into the		
Page 2: [4] Deleted	rahul bhattacharya	11/6/2007 11:27:00 AM
negative social and financial imp	pact in	
Page 2: [4] Deleted	rahul bhattacharya	11/6/2007 11:26:00 AM
person		
Page 2: [4] Deleted	rahul bhattacharya	11/6/2007 11:27:00 AM
who then		
Page 2: [4] Deleted	rahul bhattacharya	11/6/2007 11:26:00 AM
as a consequence		
Page 2: [4] Deleted	rahul bhattacharya	11/6/2007 11:28:00 AM
	ices where this can have potential	
Trochication and highlights instant	where this can have potential	grave impact or such an event.
Page 2: [5] Deleted	user	11/14/2007 3:42:00 PM
Described below is a case series	of four cases known from	
Page 2: [5] Deleted	user	11/14/2007 3:42:00 PM
contact		
Page 2: [5] Deleted	user	11/14/2007 3:43:00 PM
associated		
Page 2: [6] Deleted	user	11/14/2007 3:43:00 PM
. Information on the cases was o	obtained from their medico-legal r	eport.
Page 2: [7] Deleted	rahul bhattacharya	11/6/2007 11:30:00 AM
	[Cases 2, 3 and 4] and by another	
,	, , ,	
Page 2: [8] Deleted	user	11/14/2007 3:43:00 PM
We have		
Page 2: [8] Deleted	user	11/14/2007 3:45:00 PM
the cases		
Page 2: [8] Deleted	user	11/14/2007 3:45:00 PM
and presenting		
Page 2: [9] Deleted	user	11/14/2007 3:45:00 PM
-diagnosis ps		
Page 2: [9] Deleted	user	11/14/2007 3:46:00 PM
psychological impact and psychia		
ps, s. lological impact and psychic	action morbidity j	
Page 2: [10] Deleted	rahul bhattacharya	11/6/2007 9:42:00 AM
. J []		, _, _,

then

Page 2: [10] Deleted	rahul bhattacharya	11/6/2007 11:31:00 AM		
of informing				
Page 2: [10] Deleted	rahul bhattacharya	11/6/2007 11:32:00 AM		
patient of				
Page 2: [10] Deleted	rahul bhattacharya	11/6/2007 11:32:00 AM		
positive status.				
Page 2: [11] Deleted	rahul bhattacharya	11/6/2007 9:43:00 AM		
and diagnosis				
Page 2: [11] Deleted	rahul bhattacharya	11/6/2007 11:32:00 AM		
under current diagnostic practices around the world. Searches were				
Page 2: [11] Deleted	rahul bhattacharya	11/6/2007 11:33:00 AM		
for				
Page 4: [12] Deleted	rahul bhattacharya	11/6/2007 10:10:00 AM		

The potential causes of erroneous diagnosis can be looked into those resulting from Serological causes and those from Logistical error.