









The TOP TEN Papers 2009-2010

Dr Stephen Taylor, FRCP, PhD Department of Sexual Health and HIV Medicine Directorate of Infection Birmingham Heartlands Hospital

BIRMINGHAM HEARTLANDS HIV SERVICE





We couldn't think of a better person ...



Go ahead have a drink ...it's not poison!













So after reading those

- **NATURE**
- **SCIENCE**
- NEJM
- LANCET
- AIDS
- **JAIDS**
- **HIV MEDICINE**
- STD
- **IJSTDA**
- JID
- CID
- **JAC**
- **AAC**
- **BMJ**





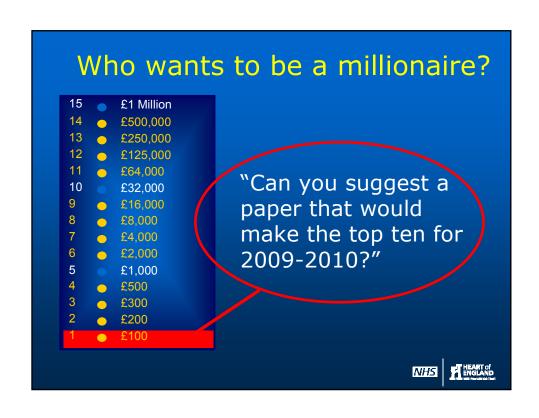
Tried a scoring system...

Categories: each scoring 0-5 points

- S After 39 papers scored
- H more than 30 points!
- I gave up
- Interesting
- · Patient centred
- Personal opinion









The friends /experts phoned

- John Watson
- **Chris Pilcher**
- **Rob Miller**
- **Bob Coombs**
- Marc Lipman
- Martin Fisher
- Myron Cohen
- John White
- Ian Williams
- Jonathon Ross •
- Scott Letendre
- Ras Smit
- Andy Ustinowski
 Duncun Churchill

- Pietro Vernazza
- Nicola Steedman
- **Martin Dedicoat**
- Steven Welch
- Roget le Banc
- Colm O' Mahoney
- Nicola Mackie
- Gus Cairns
- **David White**
- Clare Robertson
- Ras Smit

- Mark Mascolini
- •Edwin Bernard
- David Back
- Simon Collins
- Penny McDuff
- Katy Hayward
- •Gary Rubin
- Sarah Barrett



THANKYOU +++



Only 8 to go...

- 3. REVIEWS
- HERPES, ACICLOVIR AND HIV 4.
- 5. **DEVELOPING WORLD**
- 6. **CHLAMYDIA**
- 7/8 HEPATITIS C and B
- 9. **HPV**
- 10. THE TOP TEN PAPER OF 2009-2010



NUMBER 3 Reviews







The Challenge of Finding a Cure for HIV Infection

Douglas D. Richman, et al. Science 323, 1304 (2009); DOI: 10.1126/science.1165706

The Challenge of Finding a Cure for HIV Infection

Douglas D. Richman,1* David M. Margolis,2 Martin Delaney,3+ Warner C. Greene,4 Daria Hazuda,5 Roger J. Pomerantz6





International AIDS Society–USA *Topics in HIV Medicine*

HIV-Related Internet Resources Volume 17 Issue 5 December 2009

Review

HIV-Associated Resources on the Internet

Wendy S. Armstrong, MD, and Carlos del Rio, MD





Table 1. Selected Web Sites Providing HIV-Related Clinical Guidelines

Title of Web Site, in Alphabetical Order	Uniform Resource Locator	Source or Sponsor	Description
Guidelines Published in 1	the United States		
AIDSinto	http://www.aidsinfo.nih.gov http://www.aidsinfo.nih.gov/Guidelines/Default. aspo? Monultom:=Guidelines	US Department of Health and Human Senioss (DHHS)	Unks to guidelines, including treatment (adult, pediatrics, peri- natal), posteoposure prophylaris, opportunistic infections, testing
HIV Medicine Association of the Infectious Diseases Society of America Practice Guidelines	http://www.idsociety.org/Content.aspx?id=1922	HIV Medicine Associa- tion of the infectious Diseases Society of America	Guidelines for HIV primary care, management of dystipidemia, chronic kidney disease, and other in HIV-infected patients
International AIDS Soci- ety-USA	http://www.iasusa.org/guidelines/index.html	International AIDS Society-USA	Antiertroviral therapy and resistance testing guidelines originally pub- lished in JAMA and Clin Infect Dis
US Health Resources and Services Administration	http://hab.hrsa.gov/publications.htm	DHHS	Guidelines and protocols for HIV primary care, hepatitis C virus and

Guidelines Published Outside the United States

British HIV Association

http://www.bhiva.org http://www.bhiva.org/cms1191540.asp





Table 2: Resistance + Interactions

Title of Web Site, in Alphobetical Order	Uniform Resource Locator	Sportsor (Type/Sportsor)	Description
Specialized Sites			
HNandHepotitis.com	http://www.hirandhepatitis. com/	CommercialSupported by pharmaceutical spon- sors	Treatment issues in HIV and hepatitis B or C virus-coinfected parlients, conference updates; CME credits available
HIV Drug Interactions	http://www.hiv-druginter actions.org/	Academic/University of Liverpool	HIV pharmacology terousor, offers drug- trianaction charts, pharmacology fact sheets
HIV French Besistance	http://www.hisfrench resistance.org	Government/French Matteral Agency for AIDS Research AIC11 Resis- tance Group	Drug resistance algorithms for genetypic date
HIV Tronsplant	http://www.hivtransplant. com/	Government/US National Institute of Allergy and Infectious Diseases	Solid Organ Transplantation in HTV Study protocol, pilot data, links to posters and literature from the study
National HWAIDS Clinicians' Consul- tation Center	http://www.nccc.ucxf.edu/ Infolindes.html	Academic/University of California San Francisco	Links to guidelines, resistance cases, and other information; links to sites below
PEPRise: The National Clinicians' Peor-Signosure Prophylasis Hectine Warmins: The National HW Tele- phone Compilation Senior - Perinatal HW Hattine: The Pational Perinatal HW Consultation and Referral Service	http://www.nocc.ucsl.edu/ Hotilaes/Welfins.html Hotilaes/Welfins.html Hotilaes/Welfins.html Hotilaes/Welfinstal.html		 Protesposare prophylasis hotime for treating clinicians related links Advice to clinicians with questions about HW and HW are; selected links Consultation and advice on namage- ment of HW is pregnancy and HW- exposed infants
Stanford University HIV Drug Resis- tance Database	http://kivdb.stwrloed.edu/	Academic/Stanford University	HIV drug resistance distalsase with geno- typic, phenotypic, and dinical correlation and existance algorithm



Title of Conference Web Site, in Alphabetical Order	Uniform Resource Locator	Description	
Conference on Retroviruses and Opportunistic Infections (annual)	http://www.setroconference.org	Free access to Webcasts, posters, searchable ab- stracts; links to previous conferences	
Infectious Diseases Society of America Annual Meeting	http://www.idsaciety.org/Content. aspx?id=12006	General conference information	
International AIDS Conference (even years)	http://www.aids2010.org/	Free abstracts; some Webcasts and Podcasts of presentations	
International AIDS Society Conference on HIV Pathogenesis, Treatment and Prevention (odd years)	http://www.las2009.org/	Free Webcasts, abstracts	
International HIV Drug Resistance Workshop (annual)	http://www.informedhorizons.com/ resistance2009/index.html	Content 2002-2009 available with abstracts and some presentations	
International Workshop on Adverse Drug Reactions & Co-Morbidities in HIV (annual)	http://www.intmedpress.com/lipodystrophy/ default.cfm?itemtypeid=1&title=Home	Link to 2008 abstracts from link to Webcasts and videos	
Interscience Conference on Antimi- crobial Agents and Chemotherapy (annual)	http://www.icaac.org/	Sponsored by American Society for Microbiology; digital recordings available for purchase, free search- able posters for attendess	





Table 5: Journals

Journal Title, in Alphabetical Order	Uniform Resource Locator	Publisher, Access
HIV and Infectious Diseases Specialty	Journals	
ADS	http://journals.liew.com/aidsonline/pages/ default, appx	Uppincott Williams & Wilkins, requires sub- scription for full access
AIDS Clinical Care	http://aids-dinical-care.jwatch.org/	Massachusetts Medical Society; requires subscription for full access.
AIDS Research and Human Retrodruses	http://www.liebertonine.com/oi/aid	Mary Ann Debert, Inc; requires subscription for full access
AIDS Research and Therapy	http://www.akforestherapy.com/	BioMed Central: open access
Anthitial Therapy	http://www.intmedpress.com/index.chm/pid=12	International Medical Press, requires subscription for full access
Clinical Infectious Diseases	http://www.journals.uchicago.edu/tocidid/ current	University of Chicago Press, inquires sub- scription for full access
Current Opinion in HRV and AIDS	http://journals.hvvii.com/co-trisandaids/pages/ default.asps	Dippincott Williams & Wilkins; requires sub- scription for full access.
Journal of Acquired Immune Deficiency Syndromes	http://journals.lww.com/jaids/pages/ds/autt.aspe	Dippincott Williams & Williams, requires sub- scription for full access.
Journal of Infectious Diseases	http://www.journals.uchicago.edu/toc/jid/current.	University of Chicago Press; requires subscription for full access
Topics in HIV Medicine	http://www.issuia.org/puts/	International AIDS Society-USA; open access



Table 4: Images and case studies

Title of Meb Sits, in Alphabetical Coder	Uniform Resource Locator	Sponsor	Description
Ireages			
ADS Images Library	http://www.nide-images.ch/	Genera University Hospital, Switzerland	Maintained by HV expert, free registration
AIDS Insiging	http://members.xcom.virgilio.it/ Addimaging/	Casa del Sole Hespital, Folerrio, Faly	Clinical, radiologic, and histologic images of AIDS and sexually hare mitted diseases; last update 2002
Public Health Image Libnery	http://phil.colc.gov/phil/home. 460	US Centers for Disease Con- trol and Prevention	Photographs, illustrations, and multimedia files on a variety of medical topics
The Internet Fothology Library HirleParts	http://library.med.utah.edu/ YareFrath/TUTORMLOADS/HIV html	Uninersity of Utah Eccles Health Sciences Library and Mercer University School of Medicine	HIV tutorial and many images of particology with limited text
US Department of Veterano' Affairs assADS Image allowy	http://www.his.na.gon/ vahis/page-ini-00-00	US Department of Veterors Affairs	> 200 images of clinical symptom of HIV infection; available free for closer/loading
Case Studies			
Strical Care Online HBV-Monage- ment Series	http://www.dinicaloptions.com/ HIVMunapoment%205enles. Jope	Commercial site supported by pharmaceutical and bis- technology companies	Pre-continuing medical education (CME) credits offered through ac- credited provides
HV Web Study: A Case-Based Clinical Curriculum	https://depts.washington.edu/ hivoids/	University of Washington and Northwest AIDS Educa- tion and Training Center	> 65 case-based modules; free CME credits
International AIDS Society-USA Cases on the Web	http://www.insura.org/cow/	International AIDS Society- USA	> 4D Cases on the Misb interaction presentations; tree CME credits

NHS HEART OF ENGLAND



Antiretroviral drug concentrations in the male and female genital tract: implications for the sexual transmission of HIV

Stephen Taylor^{a,b} and Sophia Davies^a

Purpose of review

To summarize the recent literature (2008-2010) on antiretroviral (ARV) drug disposition into the male and female genital tract.

Current Opinion in HIV and AIDS 2010, 5:

Summary

There appear to be several patterns of drug penetration into the male and female genital tract. In addition there appear to be different patterns of genital shedding under the influence of antiretroviral therapy. What effect this will have on the sexual transmission of HIV or the evolution and transmission of resistant HIV remains to be seen.

antiretroviral drug concentrations, female genital tract, HIV-1, male genital tract

NUMBER 4

3 studies on herpes, HIV and aciclovir ...

NHS HEART OF ENGLAND

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Acyclovir and Transmission of HIV-1 from Persons Infected with HIV-1 and HSV-2

C. Celum, A. Wald, J.R. Lingappa, A.S. Magaret, R.S. Wang, N. Mugo, A. Mujugira, I.M. Baeten, I.I. Mullins, J.P. Hughes, E.A. Bukusi, C.R. Cohen, E. Katabira.

N Engl J Med 2010;362:427-39.

W.L.H. Whittington, M.J. McElrath, L. Barnes, R. Ridzon, and L. Corey, for the Partners in Prevention HSV/HIV Transmission Study Team®





Most persons who are infected with human immunodeficiency virus type 1 (HIV-1) are also infected with heipes simplex virus type 2 (HSV 2), which is frequently reactivated and is associated with increased plasma and genital levels of HIV-1. Therapy to suppress HSV-2 reduces the frequency of reactivation of HSV-2 as well as HIV-1 levels, suggesting that suppression of H5V-2 may reduce the risk of transmission of H2V-1.

We conducted a randomized, placeto-controlled trial of suppressive therapy for HSV-2 (acycloric at a dose of 400 mg orally twice daily) in couples in which only one of the paraners was seropositive for HEV-1 (CD-4 count, 2250 cells per cubic millimeen) and that parmet was also infected with HSV-2 and was not taking antimiro-riral therapy at the time of enrollment. The primary end point was transmission of HIV-1 to the parener who was not initially infected with HIV-1; linkage of manimiscions was assessed by means of genetic sequencing of viruses

A total of 3408 couples were numbed at 14 sites in Africa. Of the purmers who were informed with HIV-1, 68% were women, and the baseline median CD-4 court was 462 cells per cubic millimeter. Of \$12 HIV-1 serocurownions that occurred after randomination (an incidence of 2.7 per 100 person-years), 84 were linked within couples by viral sequencings 41 in the acyclotic group and 43 in the placebo group (sazard ratio with acyclorin, 0.02, 95% confidence inserval [CI], 0.60 to L4t; P=0.01; Suppression with acycloric reduced the mean plasma concentration of HIV-1 by 0.25 log₁₀ copies per millifater (95% CI, 0.22 as 0.29; P=0.001) and the occurrence of HSV-2-positive genital ulters by 75% (risk min, 0.27; 95% CI, 0.30 to 0.36; P=0.001). A total of 92% of the parmers infered with HIV-1 and 84% of the parmers not inferred with HIV-1 remained in the study for 24 months. The lavel of afference to the dispersed study drug was 90%. No serious adverse overes related to acyclovic were observed.

Dully acyclovir therapy did not reduce the risk of transmission of HIV-1, despite a reduction in plasma HIV-L RNA of 0.25 log., copies per millititer and a 73% reduction in the occurrence of genital ulcers due to H5V-2. (ClinicalTrials.gov number, IACT00194519)

HONOLINE (SEE HONOR) PROMOTALIZED

Acyclovic and Transmission of HIV-1 from Persons, believed with HIV-1 and HSV-2





Maily aciclovir for HIV-1 disease progression in people dually infected with HIV-1 and herpes simplex virus type 2: a randomised placebo-controlled trial

R Lingappa, Jared M Baeten, Anna Wald, James P Hughes, Katherine K Thomas, Andrew Majugira, Nelly Muga, Elzabeth A Bulissi, Craig & Cahen, Elly Katabiro, Allian Ronald, James Klarie, Carey Forquillar, Grace John Stewart, Jeseph Mali herne, Myron Essex, Edwin Were, Kenneth H Pfg. Cary de Brujer, Gierala E Grog, James A Michelyre, Aschel Manning, Saidi Kapiga, David Contare, Sman Allier, Muhlena Imambas, Kayitani Kayitankore, Etienne Kentu, William Kenwelu, Sinead Delany, Halen Ren, Bellington Vwalika, Arnalia S Maganet, Richard S Wang. Laro Kidogachi, Lindo Barren, Renee Ridzon, Louwence Covey, Cormie Celors, for the Portners in Prevention HSV/MIV Transmission Study Tea

Lancet 2010; 375: 824-33

Published Online February 15, 2010





AIDS 2009, 23:

HSV suppression reduces seminal HIV-1 levels in HIV-1/HSV-2 co-infected men who have sex with men

Richard A. Zuckerman^a, Aldo Lucchetti^b, William L.H. Whittington^c, Jorge Sánchez^b, Robert W. Coombs^{c,d}, Amalia Magaret^{d,f}, Anna Wald^{c,d,e,f}, Lawrence Corey^{c,d,f} and Connie Celum^{c,e,g}



HSV suppression reduces seminal HIV-1 levels in HIV-1/HSV-2 co-infected men who have sex with men

herpes simplex virus (HSV) therapy can decrease plasma cervical, and rectal HIV-1 levels in HIV-1/HSV-2 co-infected persons. We evaluated the effect of HSV-2 suppression on seminal HIV-1 levels.

Design: Twenty antiretroviral therapy (ART)-naive HIV-1/HSV-2 men who have sex with men (MSM) in Lima, Peru, with CD4 >200 cells/µl randomly received valacyclovir 500 mg twice daily or placebo for 8 weeks, then the alternative regimen for 8 weeks after a week washout, Peripheral blood and semen specimens were collected weekly. Ano-genital swab specimens for HSV DNA were self-collected daily and during clinic visits.

Methods: HIV-1 RNA was quantified in seminal and blood plasma by TaqVan real-time polymerase chain reaction (RT-PCR) or Roche Amplicor Monitor assays. HSV and seminal cytomegalovirus (CMV) were quantified by RT-PCR. Linear mixed models examined differences within participants by treatment arm.

Results: Median CD4 cell count of participants was 424 cells/µl. HIV-1 was desected in 71% of 231 semen specimens. HSV was detected from 29 and 4.4% of swabs on placebo and valacyclovir, respectively iP< 0.001). Valacyclovir significantly reduced the proportion of days with detectable seminal HIV-1 (63% during valacyclovir vs. 78% during placebo; P=0.04). Seminal HIV-1 quantity was 0.25 \log_{10} copies/ml lower |95% confidence interval (CI) -0.40 to -0.10; P=0.001) during the valacyclovir arm compared with placebo, a 44% reduction. CD4 cell count (P=0.32) and seminal cellular CMV quantity (P=0.68) did not predict seminal plasma HIV-1 level.

Conclusions: Suppressive valacyclovir reduced seminal HIV-1 levels in HIV-1/HSV-2 co-infected MSM not receiving ART. The significance of this finding will be evaluated in a trial with HIV-1 transmission as the outcome.

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AIDS 2009, 23:000-000

HEART of ENGLAND

Journal of Infectious Diseases 2009 Apr 1;199(7):923-5

Effect of HSV-2 serostatus on acquisition of HIV by young men: results of a longitudinal study in Orange Farm, South Africa

Sobngwi-Tambekou J, Taljaard D, Lissouba P, Zarca K, Puren A, Lagarde E, Auvert B.

J Infect Dis. 2009 Apr 1;199(7):923-5.

Effect of HSV-2 serostatus on acquisition of HIV by young men: results of a longitudinal study in Orange Farm, South Africa.

- Sobngwi-Tambekou J, Taljaard D, Lissouba P, Zarca K, Puren A, Lagarde E, Auvert B.
- B.

 BACKGROUND: The objectives of this study were to assess the impact among young men of herpes simplex virus type 2 (HSV-2) status on the acquisition of human immunodeficiency virus (HIV) and on the protective effect of male circumcision against HIV acquisition. METHODS: We used data collected during a male circumcision trial conducted in Orange Farm, South Africa. We estimated adjusted incidence rate ratios (IRRs) for HIV acquisition, using survival analysis and background characteristics, HSV-2 status, male circumcision status, and sexual behavior as covariates. RESULTS: Compared with subjects who remained HSV-2 negative throughout the study, subjects who were HSV-2 positive at enrollment had an adjusted IRR of 3.3 (95% confidence interval [CI], 1.5-7.4; P=.004), and those who became HSV-2 positive during follow-up had an adjusted IRR of 7.0 (95% CI, 3.9-12.4; P<.001). The population fraction of incident HIV infection attributable to HSV-2 was 27.8% (95% CI, 17.7%-37.2%). Intention-to-treat analysis of the protective effect of male circumcision on HIV acquisition was the same among men with and men without HSV-2 (0.38 vs. 0.37; P=.93). CONCLUSIONS: This study shows that HSV-2 has a substantial impact on HIV acquisition among young South African men. It suggests that HSV-2 infection enhances HIV acquisition and is responsible for approximately 25% of incident cases of HIV infection. However, the protective effect of male circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision against HIV acquisition appears independent of Hiveston and circumcision a

Talk and References

www.sexualhealthbirmingham.co.uk



PROFESSIONAL



Presentations by the Department of Sexual Health and HIV Medicine click here



LOGON: TALKS PASSWORD : SLIDES







Lancet. 2010 January 9; 375(9709): 123-131.

Routine versus clinically driven laboratory monitoring of HIV antiretroviral therapy in Africa (DART): a randomised non-Lancet. 2010 January 9; 375(9709): 123-131. inferiority trial

DART Trial Team[‡]





DART points the way for HIV treatment programmes

in Antonio page 221 officially. Until now, there has not been substantive monitoring a probably doe to the use of CD4 count rather evidence about the correspondences of delivering untiretrovirals without such routine monitoring.

> monitoring for toxicity (harmatology and biochemistry). Iteing available thereafter. and efficacy (CD4-cell counts). Over 5 years, the pro-

when to switch to a second-line regimen. This criterion in The Lancet today, the DART Trial Team' present the for switching on the basis of CD4 count is just one of the Development of AntiRetroviral Therapy in Africa (DART) CD4-count switch criteria incommended by WHO; the trial in CART at enrolment, all participants started triple—other criteria (on the basis of CD4-count change from deag antisotecinal through and some randomined to baseline and from peak) are problematic to implement clinically driven munitoring remandeboratory plus clinical. Without a haseline CD4 count and frequent CD4 counts

> The other particularly striking result from DART is portions who had one or more serious adverse events. The S-year survival in both groups: 87% for claical were almost identical, while there was a somewhat incritoring and 90% for laboratory plus clinical higher proportion in the group on clinically driven monitoring Such rates of survival are for people in whom

> > was below to the paragraph of the





ORIGINAL ARTICLE

Timing of Initiation of Antiretroviral Drugs during Tuberculosis Therapy

Salim S. Abdool Karim, M.B., Ch.B., Ph.D., Kogieleum Naidoo, M.B., Ch.B., Anneke Grobler, M.Sc., Nesri Padayatchi, M.B., Ch.B., Cheryl Baxter, M.Sc., Andrew Gray, M.Sc. (Pharm.), Tanuja Gengiah, M.Clin.Pharm., M.S. (Epi.), Gonasagrie Nair, M.B., Ch.B., Sheila Bamber, M.B., Ch.B., Aarthi Singh, M.B., Ch.B., Munira Khan, M.B., Ch.B., Jacqueline Pienaar, M.Sc., Wafaa El-Sadr, M.D., M.P.H., Gerald Friedland, M.D., and Quarraisha Abdool Karim, Ph.D.

N ENGL J MED 362;8 NEJM.ORG FEBRUARY 25, 2010

2

NHS



Timing of Initiation of Antiretroviral Drugs during Tuberculosis Therapy

The rates of death are high among patients with coinfection with tuberculosis and the human immunodeficiency virus (HIV). The optimal timing for the initiation of antiretroviral therapy in relation to tuberculosis therapy remains controversial.

METHODS

In an open-label, randomized, controlled trial in Durban, South Africa, we assigned 642 patients with both tuberculosis and HIV infection to start antiretroviral therapy either during tuberculosis therapy (in two integrated-therapy groups) or after the completion of such treatment (in one sequential-therapy group). The diagnosis of tuberculosis was based on a positive sputum smear for acid-fast bacilli. Only patients with HIV infection and a CD4+ cell count of less than 500 per cubic millimeter were included. All patients received standard tuberculosis therapy, prophylaxis with trimethoprim—sulfamethoxazole, and a once-daily antiretroviral regimen of didanosine, lamivudine, and efavirenz. The primary end point was death from any cause.

RESULTS

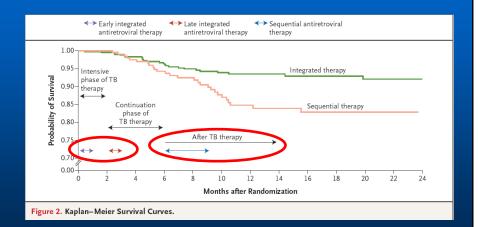
This analysis compares data from the sequential-therapy group and the combined integrated-therapy groups up to September 1, 2008, when the data and safety monitoring committee recommended that all patients receive integrated antiretroviral therapy. There was a reduction in the rate of death among the 429 patients in the combined integrated-therapy groups (5.4 deaths per 100 person-years, or 25 deaths), as compared with the 213 patients in the sequential-therapy group (12.1 per 100 person-years, or 27 deaths); a relative reduction of 56% (hazard ratio in the combined integrated-therapy groups, 0.44; 95% confidence interval, 0.25 to 0.79; P=0.003). Mortality was lower in the combined integrated-therapy groups in all CD4+ count strata. Rates of adverse events during follow-up were similar in the two study groups.

CONCLUSIONS

The initiation of antiretroviral therapy during tuberculosis therapy significantly improved survival and provides further impetus for the integration of tuberculosis and HIV services. (ClinicalTrials.gov number, NCT00398996.)



Timing of Initiation of Antiretroviral Drugs during Tuberculosis Therapy



VIHS HEART OF ENGLAND



N Engl J Med. 2010 Mar 4;362(9):812-22.

A trial of a 7-valent pneumococcal conjugate vaccine in HIV-infected adults.

French N, Gordon SB, Mwalukomo T, White SA, Mwafulirwa G, Longwe H, Mwaiponya M, Zijlstra EE, Molyneux ME, Gilks CF.

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NHS



N Engl J Med. 2010 Mar 4;362(9):812-22.

A trial of a 7-valent pneumococcal conjugate vaccine in HIV-infected adults.

French N, Gordon SB, Mwalukomo T, White SA, Mwafulirwa G, Longwe H, Mwaiponya M, Zijlstra EE, Molyneux ME, Gilks CF.

BACKGROUND: Streptococcus pneumoniae is a leading and serious coinfection in adults with human immunodeficiency virus (HIV) infection, particularly in Africa. Prevention of this disease by vaccination with the current 23-valent polysaccharide vaccine is suboptimal. Protein conjugate vaccines offer a further option for protection, but data on their clinical efficacy in adults are needed. METHODS: In this double-blind, randomized, placebo-controlled clinical efficacy trial, we studied the efficacy of a 7-valent conjugate pneumococcal vaccine in predominantly HIV-infected Malawian adolescents and adults who had recovered from documented invasive pneumococcal disease. Two doses of vaccine were given 4 weeks apart. The primary end point was a further episode of pneumococcal infection caused by vaccine serotypes or serotype 6A. RESULTS: From February 2003 through October 2007, we followed 496 patients (of whom 44% were male and 88% were HIV-seropositive) for 798 person-years of observation. There were 67 episodes of pneumococcal disease in 52 patients, all in the HIV-infected subgroup. In 24 patients, there were 19 episodes that were caused by vaccine serotypes and 5 episodes that were caused by the 6A serotype. Of these episodes, 5 occurred in the vaccine group and 19 in the placebo group, for a vaccine efficacy of 74% (95% confidence interval [CI], 30 to 90). There were 73 deaths from any cause in the vaccine group and 63 in the placebo group (hazard ratio in the vaccine group, 1.18; 95% CI, 0.84 to 1.66). The number of serious adverse events within 14 days after vaccination was significantly lower in the vaccine group than in the placebo group (3 vs. 17, P=0.002), and the number of minor adverse events was significantly higher in the vaccine group (41 vs. 13, P=0.003). CONCLUSIONS: The 7-valent pneumococcal conjugate vaccine protected HIV-infected adults from recurrent pneumococcal infection caused by vaccine serotypes or serotype 6A. (Current Controlled Trials number, ISRCTN54494731.) 2010 Massachusetts Medical S



NUMBER 6

4 Studies on Chlamydia

Which is the odd one out ?....



Dr Robertson's Daleks



Dr White's Cactus



Dr Watson's Donkey



Dr Barrett's Tomatoes

NHS



International Journal of STD & AIDS Volume 21 March 2010

A pilot qualitative analysis of the psychosocial factors which drive young people to decline chlamydia testing in the UK: implications for health promotion and screening

D Richardson MRCP*, K Maple MBBS*, N Perry MSc*, E Ambler RN*, C Jurd RN* and M Fisher RRCP*

1





International Journal of STD & AIDS Volume 21 March 2010

A pilot qualitative analysis of the psychosocial factors which drive young people to decline chlamydia testing in the UK: implications for health promotion and screening

D Richardson MRCP*, K Maple MBBS[†], N Perry MSc*, E Ambler RN*, C Jurd RN* and M Fisher FRCP*

Summary: The main objectives of this study are to investigate the psychosocial issues for young people who decline chlamydia testing as part of the national chlamydia soreening programme in the UK and to consider the implications for future apportunistic accessing. Transcripts of qualitative semi-advactured interviews were analysed using interpretative phenomenological analysis to identify themes. The study incrived 14 young people aged 16-24 years who declined chlamydia tests in non-health-care settings as part of the chlamydia soreening programme. The study was conducted in educational settings where chlamydia screening is available. Four interirrinked themes were identified; stigmatization of young people with chlamydia and who take a test, the feeling of embatrassment, their perception of risk and their beliefs of what the test involves. These deets and feelings were pervasive and negatively effected their personal decisions of having a test, in conclusion, understanding psychosocial cultural phenomena in the contest of accessing programmes for severally transmitted infections (STb) in young people are important for their success.

Chlamydia and STb remain stigmatized; testing is poorly understood and embatrassing for young people, which impacts the poor uptake for opportunistic screening. Strategies are needed to normalize and de-stigmatize chlamydia and the chlamydia test.





Clinical Infectious Diseases 2009; 49:000-000

Chlamydia trachomatis and Neisseria gonorrhoeae Transmission from the Oropharynx to the Urethra among Men who have Sex with Men

Kyle T. Bernstein, Sally C. Stephens, Pennan M. Barry, S Robert Kohn, Susan S. Philip, Sally Liska, and Jeffrey D. Klausner^{1,3}

2



Clinical Infectious Diseases 2009; 49:000-000

Chlamydia trachomatis and Neisseria gonorrhoeae Transmission from the Oropharynx to the Urethra among Men who have Sex with Men

Kyle T. Bernstein, Sally C. Stephens, Pennan M. Barry, Shobert Kohn, Susan S. Philip, Sally Liska, and Jeffrey D. Klausner^{1,3}

Background. Limited data exist on the risk of Chlamydia trachomatis and Neisseria gonorrhoeae transmission from oropharynx to urethra. We examined urethral *C. tráchomatis* and *N. gonorrhoeae* positivity among men who have sex with men (MSM) seen at San Francisco City Clinic (San Francisco, CA) during 2007.

Methods. All patients who sought care at the San Francisco City Clinic (the only municipal sexually transmitted disease clinic in San Francisco) received a standardized interview conducted by clinicians. We estimated urethral C. trachomatis and N. gonorrhoeae positivity for 2 groups of visits by MSM who visited during 2007: (1) men who C. trachomatis and N. gonorrhoeae positivity for 2 groups of visits by MSM who visited during 2007: (1) men who reported their only urethral exposure was receiving fellatio in the previous 3 months and (2) men who reported unprotected insertive anal sex in the previous 3 months. Additionally, urethral C. trachomatis and N. gonorrhoeae positivity was estimated, stratified by human immunodeficiency virus infection status, urogenital symptom history, and whether the patient had been a contact to a sex partner with either chlamydia or gonorrhea.

Results. Among MSM who reported only receiving fellatio, urethral C. trachomatis and N. gonorrhoeae positivity were 4.8% and 4.1%, respectively. These positivity estimates were similar to positivity found among MSM who

reported unprotected insertive anal sex.

Conclusions. A more complete understanding of the risks of transmission of C. trachomatis and N. gonorrhoeae from oropharynx to urethra will help inform prevention and screening programs



High Prevalence of Anorectal Chlamydial Infection in HIV-Infected Men Who Have Sex with Men in Switzerland

Thanh Dang,¹ Katia Jaton-Ogay,² Markus Flepp,³ Helen Kovari,⁴ John-Marc Evison,⁵ Jan Fehr,⁵ Patrick Schmid,⁷ Emmanuelle Boffi El Amari,⁸ Matthias Cavassini,¹ Massimo Odorico,⁹ Philip E. Tarr,¹⁰ Gilbert Greub,¹² and the Swiss HIV Cohort Study

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BRIEF REFERT

High Provience of Australia Chlamydial Infection in HIV-Infected Men Who Have Sex with Men in Switzerland

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Dr Robertson's Daleks



Dr White's Cactus



Dr Watson's Donkey



Dr Barrett's Tomatoes





International Journal of STDs & AIDS Volume 19

Unusual transmission route of Lymphogranuloma venereum; following sexual contact with a female donkey

Farzin Khoryash MD*, Ammar H Keshtell MD*, Hassan Salehi MD*, Levente Szeredi DWI PhD* and Servaas A Morré Pho^{§**††}

*Department of Infectious and Tropical Diseases, School of Medicine; *Medicial Students' Research Center, Infahan University of Medical Sciences, Infahan, Iran; *Central Agricultural Office, Veterinary Disgnostic Directorate, Budapest, Hungary; *Department of Pathology, Laboratory of Immunogenetics; "Department of Internal Medicine, Section Infectious Diseases, VU University Medical Center, Amsterdam; ¹⁷Department of Medical Microbiology, University Hospital Massricht, Massricht, The Netherlands

Summary: Here, we present a 20-year-old man who presented with painful inguinal and femoral masses. He gave a history of sexual contact with a mare 14 days before his recent illness. He was diagnosed with lymphogranuloma venereum based on the histopathological findings and a high titre of IgG (1:1400).

Keywords: lymphogranuloma venereum. Chlamydia trachomatis, transmission route



NUMBER 7&8 3 studies on hepatitis C/B

CONCISE COMMUNICATION

Delayed anti-HCV antibody response in HIV-positive men acutely infected with HCV

Emma C. Thomson, Eleni Nastouli, Janice Main, Peter Karayiannis, Joseph Eliahoo, David Muir and Myra O. McClure

AIDS 2009, **23**:89–93

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Objective: An epidemic of acute hepatitis C virus (HCV) infection among HIV-positive men who have sex with men is occurring in urban centers in Western Europe and the United States. Early diagnosis and treatment of HCV results in improved sustained virological response rates. This study compared the sensitivity of reverse transcriptuse PCR (RT-PCR) versus antibody screening for the diagnosis of early HCV infection in HIV-positive patients and estimated the length of time from HCV infection to the development of anti-HCV antibodies.

Design: Patients from the St Mary's Acute Hepatitis C Cohort (SMACC) were recruited retrospectively and prospectively between 2004 and 2008.

Methods: Archived plasma samples, obtained at 1–3 monthly intervals for routine monitoring of HIV viral load were assayed retrospectively for HCV in order to assess the sensitivity of RT-PCR and enzyme-linked immunosorbent assay (ELISA).

Results: Forty-three HIV-positive patients with early HCV infection were identified. The median CD4 cell count was 570 cells/µL. The median alanine transaminase at the time of the first positive HCV PCR was 6510/mL. At this time, 75% of patients had a negative HCV antibody test, Three months later, 37% of patients still had a negative result. After 9 months, 10% of patients had a negative test and 5% remained negative after 1 year.

Conclusion/discussion: Delayed seroconversion in HIV-positive individuals with acute HCV may result in delayed diagnosis and treatment. Where there is a clinical suspicion of recent HCV infection, for example, elevated alanine transaminase levels, HIV-infected patients should be screened for HCV RNA by RT-PCR.

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AIDS 2009, 23:89-93

Keywords: acute hepatitis C, antibody, HIV

CHVI

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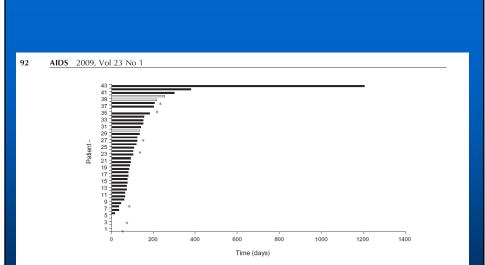


Fig. 1. Time to seroconversion. Seroconversion time (days) was calculated as the time from the first PCR positive sample to the first positive antibody (range 0–1206 days). Four patients (patients 30, 36, 39 and 40 shown in white) did not produce an antibody by 133, 183, 205 and 218 days of follow-up. Seven patients (asterisked) spontaneously cleared the infection, two of whom did not produce an antibody response.

nature Vol 461 17 September 2009

Genetic variation in IL28B predicts hepatitis C treatment-induced viral clearance

Dongliang Ge¹, Jacques Fellay¹, Alexander J. Thompson², Jason S. Simon³, Kevin V. Shianna¹, Thomas J. Urban¹, Erin L. Heinzen¹, Ping Qiu³, Arthur H. Bertelsen³, Andrew J. Muir², Mark Sulkowski⁴, John G. McHutchison² & David B. Goldstein

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> people worldwide and is the leading cause of cirrhosis in North America1. Although the recommended treatment for chronic infection involves a 48-week course of peginterferon- α -2b (PegIFN-α-2b) or -α-2a (PegIFN-α-2a) combined with ribavirin (RBV), it is well known that many patients will not be cured by treatment, and that patients of European ancestry have a significantly higher probability of being cured than patients of African ancestry. In addition to limited efficacy, treatment is often poorly tolerated because of side effects that prevent some patients from completing therapy. For these reasons, identification of the determinants of response to treatment is a high priority. Here we report that a genetic polymorphism near the IL28B gene, encoding interferon-λ-3 (IFN-λ-3), is associated with an approximately twofold change in response to treatment, both among patients of European ancestry $(P = 1.06 \times 10^{-25})$ and African-Americans $(P = 2.06 \times 10^{-3})$. Because the genotype leading to better response is in substantially greater frequency in European than African populations, this genetic polymorphism also explains approximately half of the difference in response rates between African-Americans and patients of European ancestry.

Journal of Infect Dis. 2009 Sep 28

Antibody Levels and Protection after Hepatitis B Vaccine: Results of a 22-Year Follow-Up Study and Response to a Booster Dose.

McMahon BJ, Dentinger CM, Bruden D, Zanis C, Peters H, Hurlburt D, Bulkow L, Fiore AE, Bell BP, Hennessy TW.

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NUMBER 9

1 study on HPV





Sexually Transmitted Infections. 85(7)(pp 499-502), 2009.

Rapid decline in presentations of genital warts after the implementation of a national quadrivalent human papillomavirus vaccination programme for young women.

Fairley C.K., Hocking J.S., Gurrin L.C., Chen M.Y., Donovan B., Bradshaw C.S.

Sexually Transmitted Infections. 85(7)(pp 499-502), 2009.

Rapid decline in presentations of genital warts after the implementation of a national quadrivalent human papillomavirus vaccination programme for young women.

Fairley C.K., Hocking J.S., Gurrin L.C., Chen M.Y., Donovan B., Bradshaw C.S.

This study aimed to determine if the Australian human papillomavirus (HPV) vaccination programme has had a population impact on presentations of genital warts. Methods: Retrospective study comparing the proportion of new clients with genital warts attending Melbourne Sexual Health Centre (MSHC) from January 2004 to December 2008. Australia provided free quadrivalent HPV vaccine to 12-18-year-old girls in a school-based programme from April 2007, and to women 26 years and younger through general practices from July 2007. Results: 36 055 new clients attended MSHC between 2004 and 2008 and genital warts were diagnosed in 3826 (10.6%; 95% CI 10.3 to 10.9). The proportion of women under 28 years with warts diagnosed decreased by 25.1% (95% CI 30.5% to 19.3%) per quarter in 2008. Comparing this to a negligible increase of 1.8% (95% CI 0.2% to 3.4%) per quarter from the start of 2004 to the end of 2007 also in women under 28 years generates strong evidence of a difference in these two trends (p<0.001). There was no evidence of a difference in trend for the quarterly proportions before and after the end of 2007 for any other subgroup, and on only one occasion was there strong evidence of a trend different to zero, for heterosexual men in 2008 in whom the average quarterly change was a decrease of 5% (95% CI 0.5% to 9.4%; p=0.031). Conclusions: The data suggest that a rapid and marked reduction in the incidence of genital wars among vaccinated women may be achievable through an HPV vaccination programme targeting women, and supports some benefit being conferred to heterosexual men.





Finally.....

At number 10...

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AIDS RESEARCH AND HUMAN RETROVIRUSES Volume 19, Number 5, 2003, pp. 000-4000 © Mary Ann Liebert, Inc.

> Identification of a Transmission Chain of HIV Type 1 Containing Drug Resistance-Associated Mutations

and DEENAN PILLAY¹

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ABSTRACT

We have investigated a potential transmission chain of HIV-1 with drug resistance-associated mutations between three individuals over a period of 5 years by use of cloning and sequencing of viral genes, and phenotypic characterization. Viruses containing reverse transcriptase drug resistance-associated mutations were transmitted sequentially between three homosexual men (A, B, and C), and persisted in one individual for at least 4 years, despite intermittent therapy and reduced viral replicative capacity compared with wild-type

Professor; Head Virology, UCL



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