

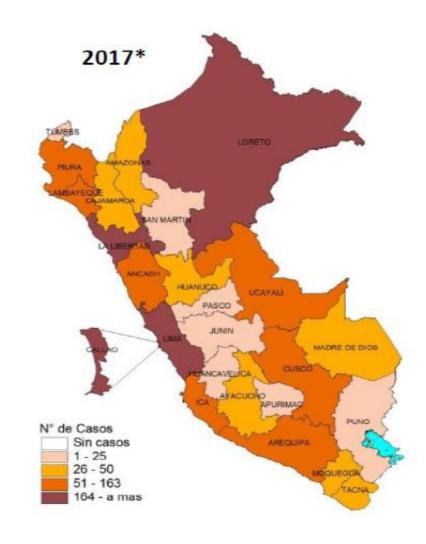
Use of POC tests in Latin America. Where are we using it? The Peruvian Experience

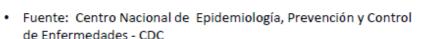
Prof. Segundo R. León Director of Research



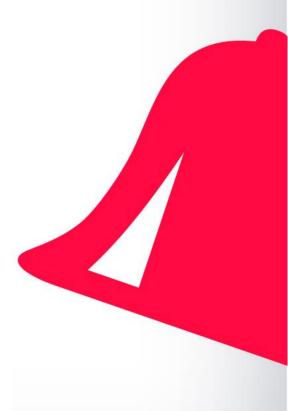
VIH/SIDA en el Perú

- Casos acumulados de VIH a Octubre 2017: 109,263 casos de VIH* y casos SIDA 40,551
- Número de personas viviendo con VIH/SIDA en 2016: 70,000 personas **
- Epidemia concentrada en HSH (prevalencia 12.4%*) vs. población general (prevalencia 0.23%*)
- La transmisión es predominantemente sexual (97%)
- Relación hombre/mujer: 4/1
- Lima y Callao concentran el 70% de los casos.





** Fuente : Estimaciones Spectrum/EPP



In this peruvian HIV scenary, where?

• Research: We!!

Program implementation: They!!

Migrants study: us!!





Research: validation and testing

Laboratory Evaluation of a Dual Rapid Immunodiagnostic Test for **HIV** and Syphilis Infection

Claire C. Bristow, Segundo R. Leon, Lourdes B. Ramos, Silver K. Vargas, Juan A. Flores, Kelika A. Konda, Carlos F. Caceres, Silver K. Vargas, Juan A. Flores, Kelika A. Konda, Carlos F. Caceres, Juan A. Flores, Kelika A. Konda, Carlos F. Caceres, Silver K. Vargas, Juan A. Flores, Kelika A. Konda, Carlos F. Caceres, Silver K. Vargas, Laurence Carlos F. Caceres, C Jeffrey D. Klausner^{a,d}

Department of Epidemiology, Fielding School of Public Health, University of California Los Angele Development, and Laboratory of Sexual Health, Universidad Peruana Cayetano Heredia, Lima, Per Washington, USA^c; Program in Global Health, Department of Medicine, University of California Lo

New dual tests for HIV and syphilis have been developed. Our study aimed rapid immunodiagnostic test for HIV and syphilis. Our evaluation shower should be considered for implementation to increase screening coverage a





Laboratory Evaluation of a Dual-Path Platform Assay for Rapid Pointof-Care HIV and Syphilis Testing



S. R. Leon, a,b L. B. Ramos, S. K. Vargas, D. M. Kojima, D. G. Perez, A. C. F. Caceres, J. D. Klausnere

ORIGINAL ST Laboratory of Sexual Health, Universidad Peruana Cayetano Heredia, Lima, Peruª; Dirección de Investigación, Socios en Salud Sucursal del Perú, Lima, Peruª; David Geffen School of Medicine, University of California Los Angeles, Los Angeles, California, USAc; Department of Clinical Pathology, National Hospital Daniel A. Carrion, Callao, Perud; Division of Infectious Diseases, Department of Medicine, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, California, USAe

We assessed the laboratory performance of the Chembio dual-path platform HIV-syphilis rapid immunodiagnostic test and

Field Evaluation of a Dual Rapid Immunodiagnostic Test for HIV and Syphilis Infection in Peru

Claire C. Bristow, PhD, MPH, MSc,* Segundo R. Leon, MT, MT&ID,†‡ Emily Huang, BS,§ Lourdes B. Ramos, BS,† Silver K. Vargas, MPH,† Juan A. Flores, MSc,† Kelika A. Konda, PhD,§ Carlos F. Caceres, MD, MPH, PhD, † and Jeffrey D. Klausner, MD, MPH§

> screening strategy for syphilis and HIV infection, as is recommended by the World Health Organization as part of a comprehensive dual elimination initiative should be implemented to reduce

Research: validation and testing

| | H | HIV | | HILIS |
|---|----------------------|----------------------|--------------------|--------------------|
| | Laboratory | Field | Laboratory | Field |
| S | 100.0 (95.1 – 100.0) | 93.8 (69.8 – 99.8) | 94.6 (88.5 – 98.0) | 81.0 (58.1 – 94.6) |
| E | 91.9 (85.7 – 96.1) | 100.0 (97.7 – 100.0) | 92.8 (84.9 – 97.3) | 100.0 (97.6 – 100) |

Research: Scaling up

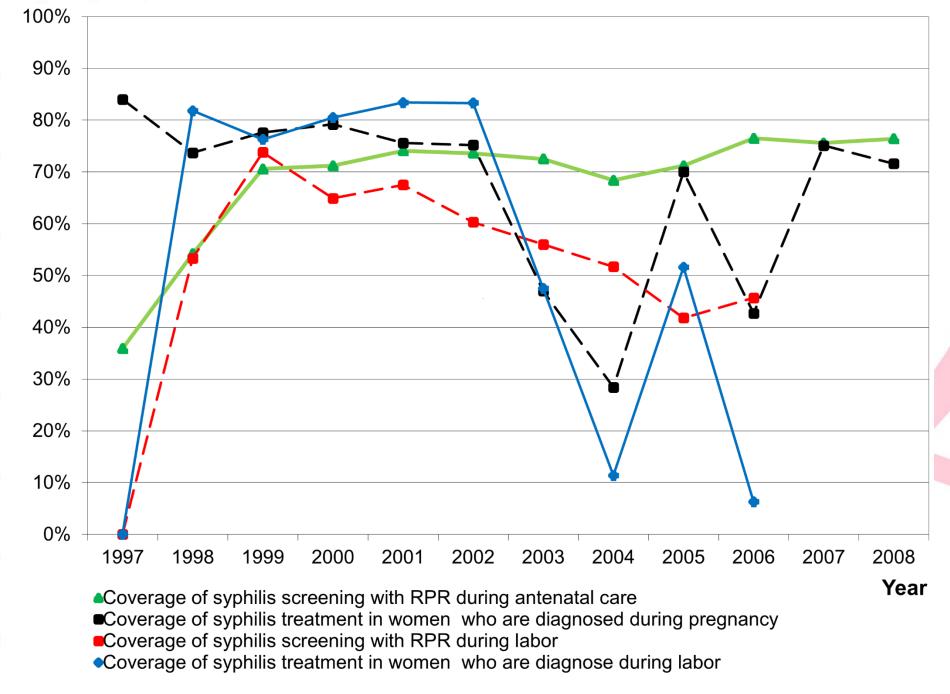


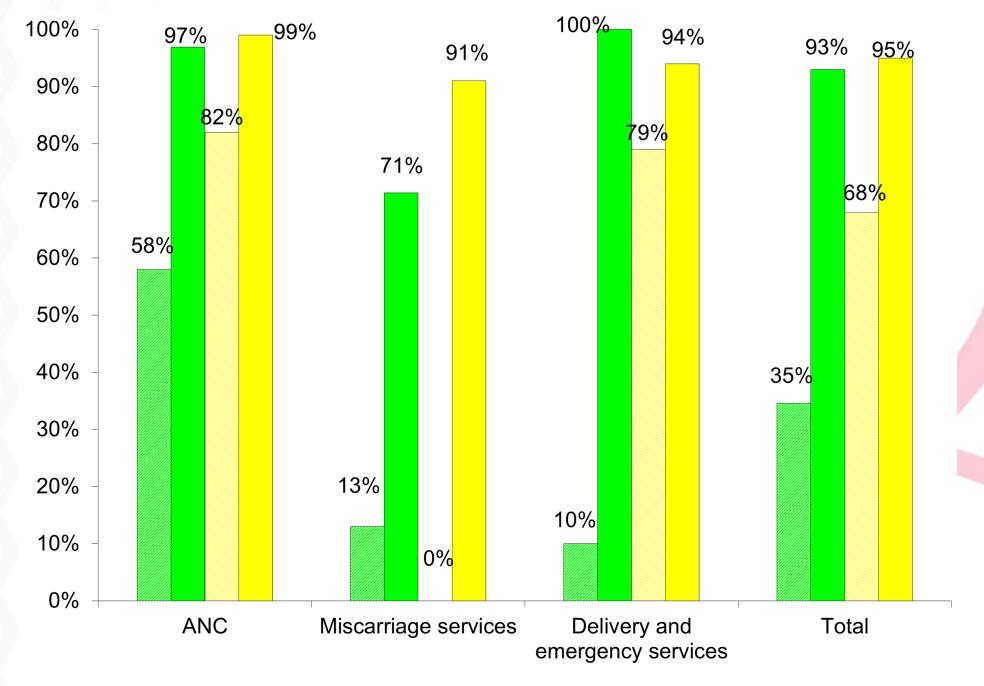


Rapid Syphilis Tests as Catalysts for Health Systems Strengthening: A Case Study from Peru

Patricia J. García^{1,2}*, César P. Cárcamo¹, Marina Chiappe¹, Maria Valderrama¹, Sayda La Rosa¹, King K. Holmes², David C. W. Mabey³, Rosanna W. Peeling³

1 Epidemiology, STD, and HIV Unit, School of Public Health and Administration Universidad Peruana Cayetano Heredia, Lima, Peru, 2 Department of Global Health, University of Washington, Seattle, Washington, United States of America, 3 London School of Hygiene and Tropical Medicine, London, United Kingdom





Self-testing

Original research article

HIV self-testing in Peru: questionable availability, high acceptability but potential low linkage to care among men who have sex with men and transgender women

Maria Jose Bustamante¹, Kelika A Konda^{1,2}, Dvora Joseph Davey³, Segundo R León¹, Gino M Calvo^{1,4}, Javier Salvatierra⁵, Brandon Brown⁶, Carlos F Caceres¹ and Jeffrey D Klausner^{2,3}



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Willingness and preferences of transgender women and men who have sex with men to use an oral HIV self-test kit in Lima, Peru

| | Transgender women (n = 45) | Men who have sex with men (n = 147) | P-value |
|---|----------------------------|-------------------------------------|----------------------|
| illingness to use the HIV self-test if free of charge | | | |
| Reported willingness to use the HIV self-test | 43 (95%) | 115 (78%) | P = 0.28 |
| If willing to use, number of tests per year, median (IQR) | 4 (IQR 4 - 5) | 4 (IQR 4 - 4) | P = 0.43 |
| eference on clinic vs. self-testing | | | |
| Always/almost always in a clinic | 1 (2%) | 33 (25%) | $\mathbf{P} = 0.002$ |
| Neutral | 25 (58%) | 58 (44%) | |
| Always/almost always HIV self-test | 17 (40%) | 29 (22%) | |
| kelihood of confirmation test or medical treatment | | | |
| Unlikely do a confirmatory test | 0 (0%) | 7 (5%) | P = 0.009 |
| Neutral | 16 (37%) | 20 (15%) | |
| Likely do a confirmatory test | 27 (63%) | 94 (71%) | |
| cceptability of getting an HIV self-test delivered | | | |
| Somewhat/very comfortable | 41 (95%) | 94 (71%) | P = 0.03 |
| Neutral | 1 (2%) | 19 (14%) | |
| Somewhat/very uncomfortable | 1 (2%) | 5 (4%) | |
| references for receiving an HIV self-test | | | |
| My house | 27 (63%) | 34 (26%) | $P \le 0.01$ |
| Friend's house | 13 (30%) | 61 (46%) | |
| Community center | 1 (2%) | 21 (16%) | |
| Other | 1 (2%) | 2 (2%) | |

Program implementation

CONCISE COMMUNICATION

Determinants and prevalence of HIV infection in pregnant Peruvian women

Jorge O. Alarcon^a, Kay M. Johnson^{b,c,d}, Barry Courtois^c, Carlos Rodriguez^e, Jorge Sanchez^f, Douglas M. Watts^g, King K. Holmes^{b,c}

Objectives: To determine age-specific seroprevalence, risk factors, and risk markers for heterosexually-acquired HIV infection among pregnant women.

Design: Cross-sectional study of 12 436 consecutive pregnant women in Lima, Peru in 1996–1997.

Program implementation: perinatal testing



Program implementation: Migrants vs. Locals

- The HIV and STI prevalence and associated behaviors among migrants and hosts in Lima (SexFLOW Study)
- Sample size 600 (450 migrants + 150 hosts)
- RDS method for sampling/recruiting
- Rapid testing for HIV and Syphilis

In summary

 HIV is a concentrated epidemic in Peru, most prevalent amongs MSM and Trans

- Syphilis an important comorbidity of HIV
- Dual tests perform different in the lab/field
- Scalability is doable, perinatal testing is an opportunity
- Rapid testing on migrants. Results son....