

# Integration of HIV services in low income countries



#### **Louis Pizarro**

Sidaction satellite
AIDS 2014
Melbourne
20th of July





### **Agenda**

### 1. Some definitions

- 2. A patient perspective
- 3. A health system perspective
- 4. Solthis approach



# What integreation means?

Systematic analysis of the relative merits of integration in various contexts and for different interventions is complicated as there is no commonly accepted definition of 'integration'. (Atun 2009)

**UNAIDS**: Joining together different kinds of services or operational programs in order to maximize outcomes, e.g. by organizing referrals from one service to another or offering one-stop comprehensive and integrated services. This includes services from a singular provider and from seperate providers (within one site) where there is clearly functional referral system.



### The Value of Science in Integration of Services

The Journal of Infectious Diseases 2012;205:S1–3

Anne Schuchat<sup>1</sup> and Kevin M. De Cock<sup>2</sup>

<sup>1</sup>National Center for Immunization and Respiratory Diseases and <sup>2</sup>Center for Global Health, Centers for Disease Control and Prevention, Atlanta, Georgia

The key to successful integration is to make use of scarce human and logistic resources for multiple important purposes without diminishing health benefits to the population served.

5 factors are appropriate topics of scientific study when the integration of diverse interventions is being introduced:

- Coverage of interventions.
- Quality of services.
- Acceptability by the target population.
- Complexity remains consistent
- Unintended consequences.



### **Agenda**

- 1. Some definitions
- 2. A patient perspective
- 3. A health system perspective
- 4. Solthis approach



### **Comprehensive MCH Services**

### **Integrated MCH Service**

**Antenatal care** 

**HIV** testing

**HIV Maternal ARV Prophylaxis** 

Maternity

**Newborn Prophylaxis** 

**Immunizations** 

**Early Infant Diagnosis for HIV** 

**HIV** care and support

**CD4** cell count testing

**Antiretroviral therapy** 

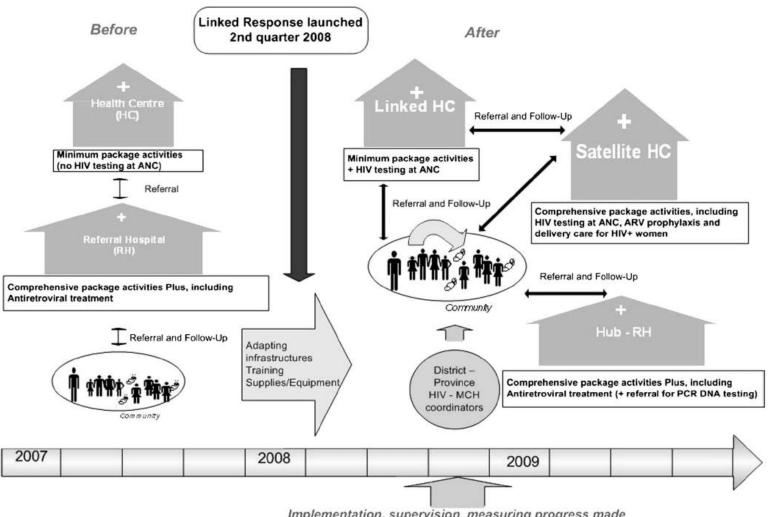
Long term follow-up

COMMUNITY



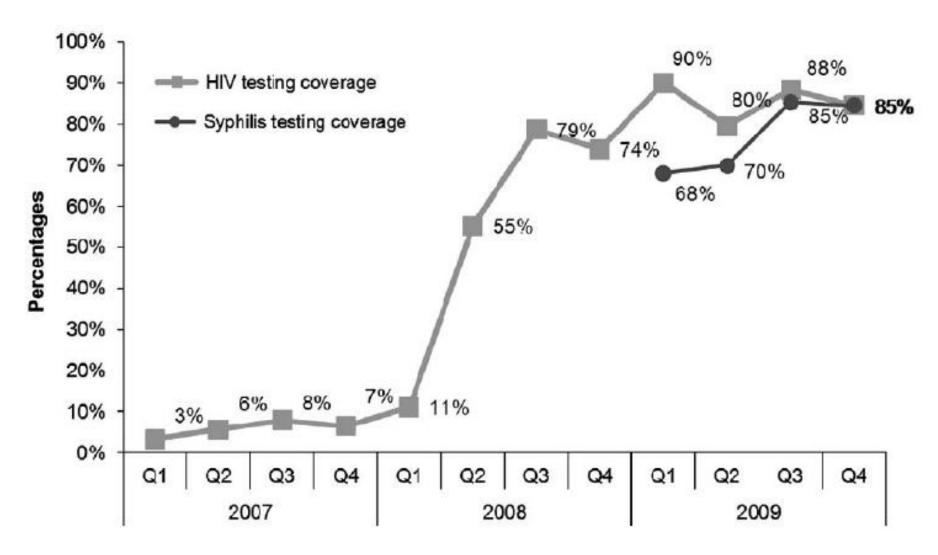
#### Linked Response for Prevention, Care, and Treatment of HIV/AIDS, STIs, and Reproductive Health Issues: Results After 18 Months of Implementation in Five Operational Districts in Cambodia

#### 5 Operational Districts (ODs): Kirivong OD in Takeo province, and 4 ODs in Prey Veng province



Implementation, supervision, measuring progress made



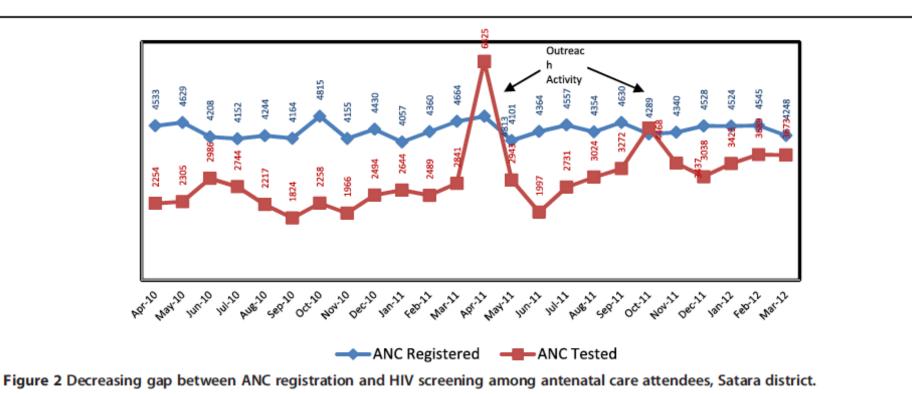




#### RESEARCH ARTICLE

Open Access

Development and pilot testing of HIV screening program integration within public/primary health centers providing antenatal care services in Maharashtra, India



# Integration of family planning into HIV services: a synthesis of recent evidence

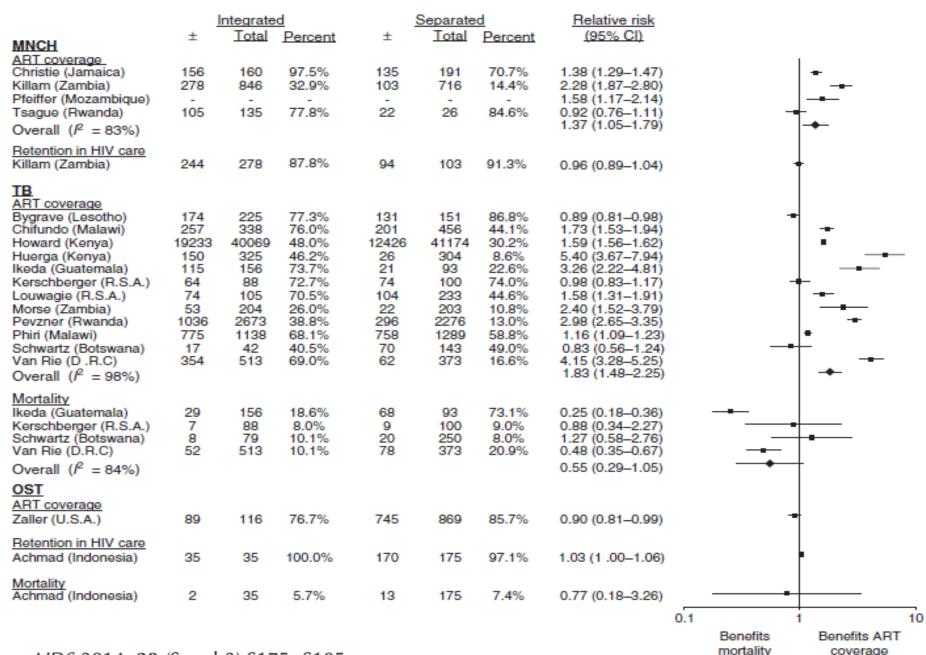
Rose Wilcher, Theresa Hoke, Susan E. Adamchak and Willard Cates Jr

« Although overall study rigor was low, the studies showed that family planning/HIV service integration is effective in increasing contraceptive uptake among clients with HIV who do not wish to become pregnant. »

# Improving antiretroviral therapy scale-up and effectiveness through service integration and decentralization

Amitabh B. Suthar<sup>a</sup>, George W. Rutherford<sup>b</sup>, Tara Horvath<sup>b</sup>, Meg C. Doherty<sup>a</sup> and Eyerusalem K. Negussie<sup>a</sup>

Methods: The reviewers searched PubMed, Embase, PsycINFO, Web of Science, CENTRAL, and the WHO Index Medicus databases. Randomized controlled trials and observational cohort studies were included if they compared ART coverage, retention in HIV care, and/or mortality in MNCH, TB, or OST facilities providing ART with MNCH, TB, or OST facilities providing ART services separately; or primary health facilities or communities providing ART with hospitals providing ART.



and retention

AIDS 2014, 28 (Suppl 2):S175-S185

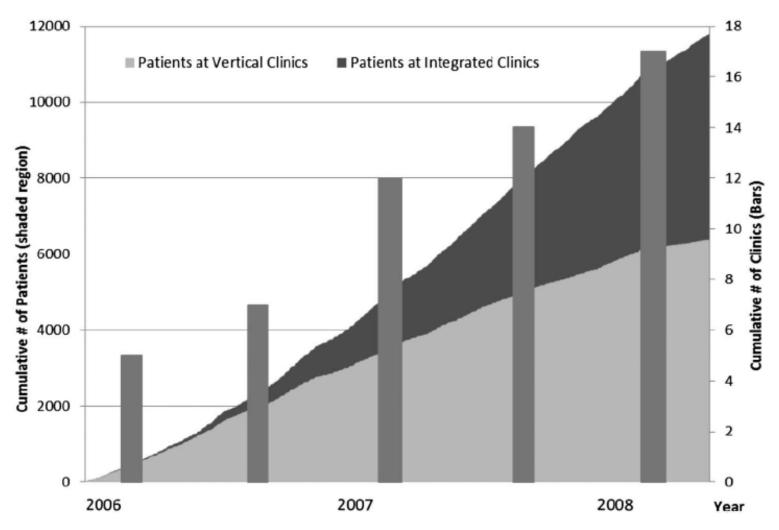
### Integration of HIV Care and Treatment in Primary Health Care Centers and Patient Retention in Central Mozambique: A Retrospective Cohort Study

**Methods:** We conducted a retrospective cohort study including adult ART-naive patients initiating ART between January 2006 and June 2008 in public sector clinics in Manica and Sofala provinces.

Cox proportional hazards models with robust variances were used to estimate the **association between clinic model** (vertical/integrated), clinic location (urban/rural), and clinic experience (first 6 months/post first 6 months) **and attrition** occurring in early patient follow-up (<6 months) and attrition occurring in late patient follow-up (>6 months), while controlling for age, sex, education, pre-ART CD4 count, World Health Organization stage and pharmacy staff burden.

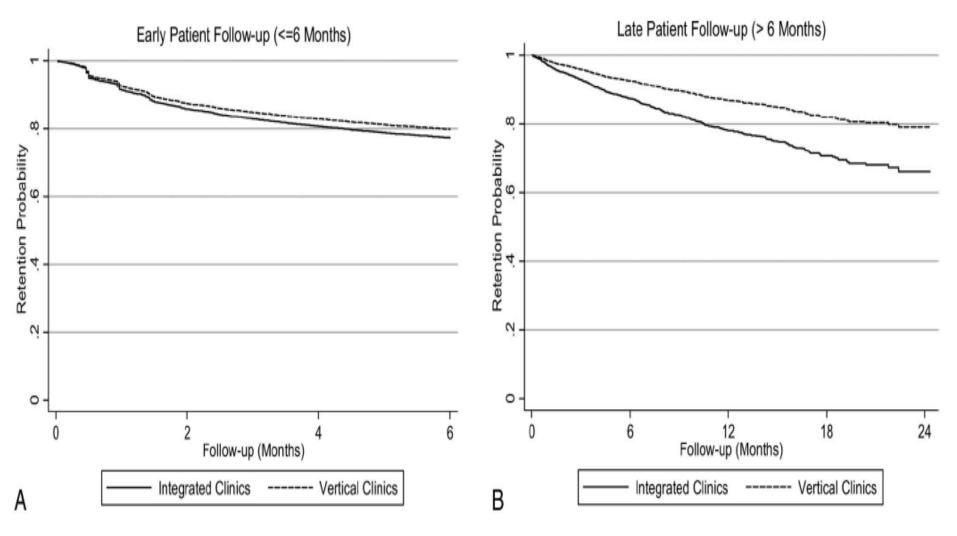


# Integration of HIV Care and Treatment in Primary Health Care Centers and Patient Retention in Central Mozambique





# Integration of HIV Care and Treatment in Primary Health Care Centers and Patient Retention in Central Mozambique





# **Evidence about HIV-NCD integration in the literature**

- 1. Cervical Cancer screening in to HIV services (Sneden, Huchko, Cohen, & Yamey)
- 2. Gestational Diabetes screening in to HIV treatment/PMTCT (Gonzalez-Tome et al., 2008)
- 3. HIV/AIDS, Diabetes, and Hypertension services in to a chronic disease clinic (Janssens et al., 2007)
- 4. Leveraging HIV programs to support diabetes services (Rabkin et al., 2012)
- 5. Integrating smoking cessation in to HIV care (Drach et al.)
- 6. Integrating HIV/AIDS and Alcohol (Bryant, Nelson, Braithwaite, & Raoch, 2010)

# Health systems implications of the 2013 WHO consolidated antiretroviral guidelines and strategies for successful implementation

Charles Holmesa, Yogan Pillayb, Albert Mwangoc, Jos Perriensd, Andrew Balld, Oscar Barrenechee, Steven Wignallf, Gottfried Hirnschalld and Meg C. Dohertyd

« Systems of care that may already be stressed need to be further augmented through innovations, and in many cases provided with additional resources in order to become more efficient, resilient, robust and effective. »

- → Easy to say, hard to do it!
- → Particularly in fragile states.

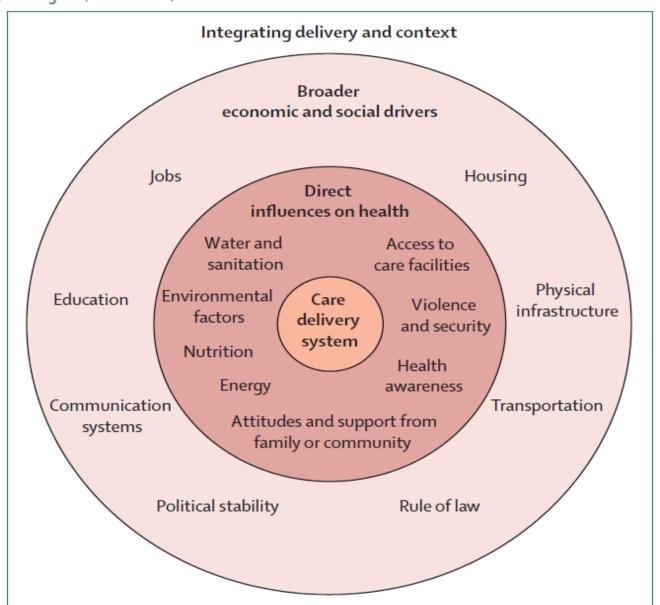


## Agenda

- 1. Some definitions
- 2. A patient perspective
- 3. A health system perspective
- 4. Solthis approach

### Redefining global health-care delivery

Jim Yong Kim, Paul Farmer, Michael E Porter



Integrating delivery system and external context: Each situation is unique

# An assessment of interactions between global health initiatives and country health systems

World Health Organization Maximizing Positive Synergies Collaborative Group\*

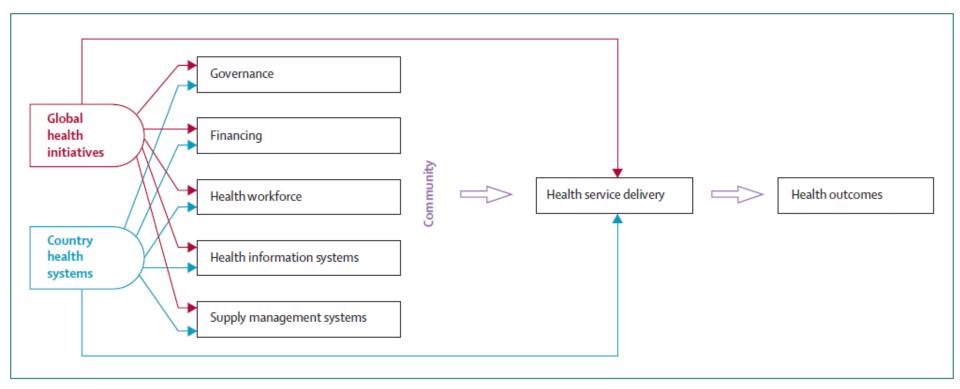
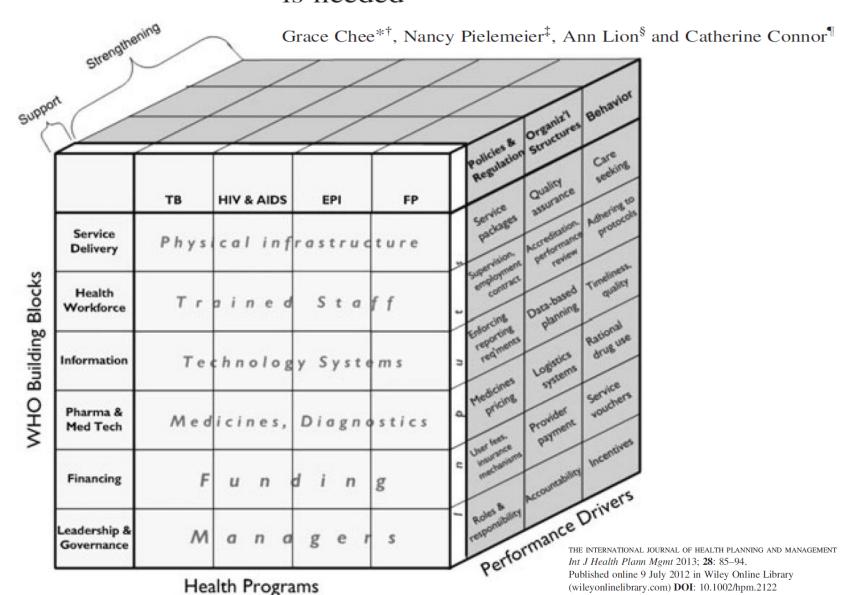


Figure 1: Conceptual framework of the interaction between global health initiatives and country health systems

Lancet 2009; 373: 2137-69

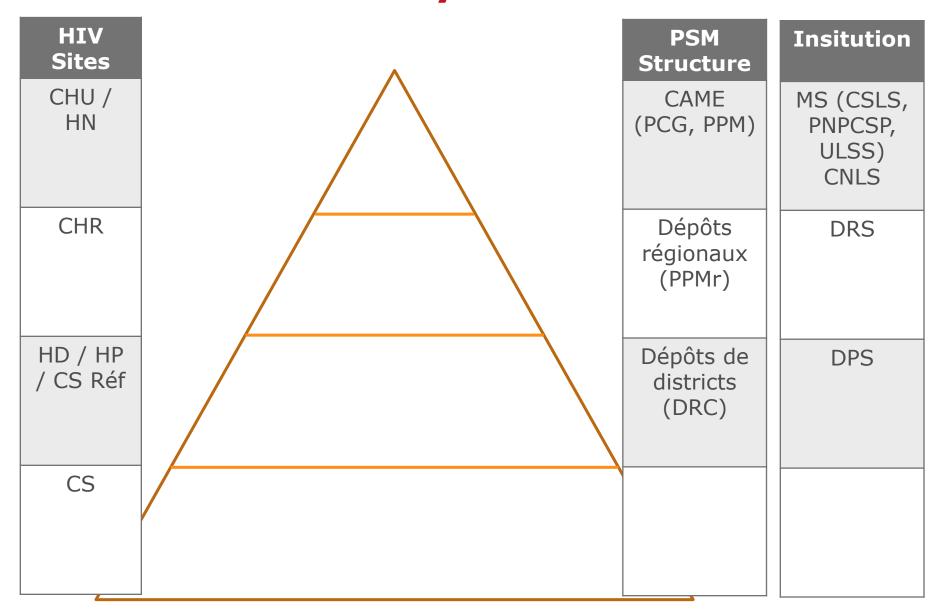


Why differentiating between health system support and health system strengthening is needed





### **Health Pyramide**



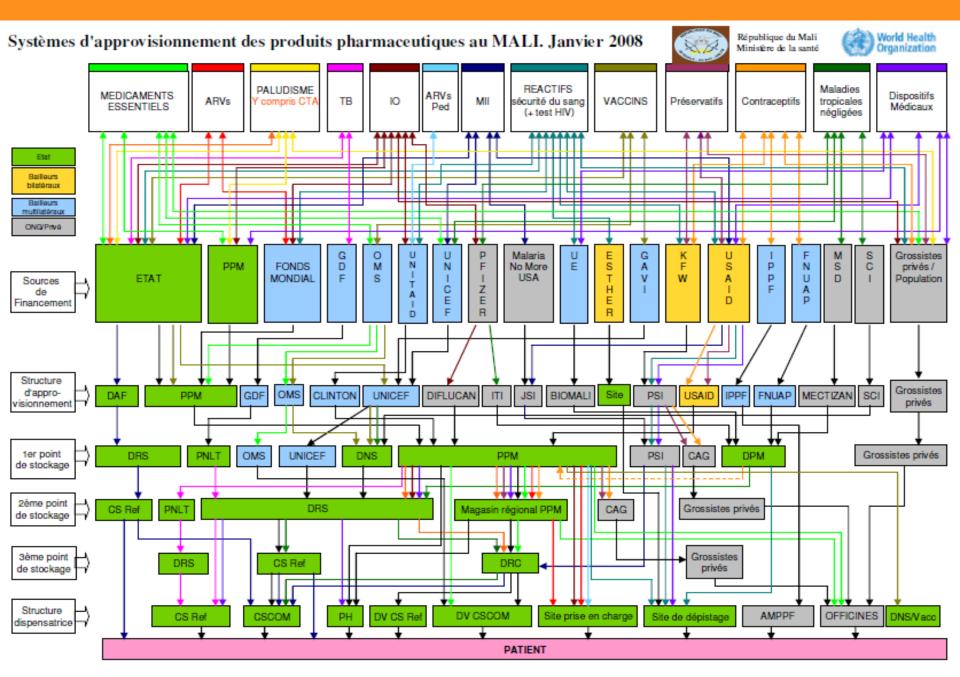


#### LE CIRCUIT D'APPROVISIONNEMENT

#### THE SUPPLY CHAIN







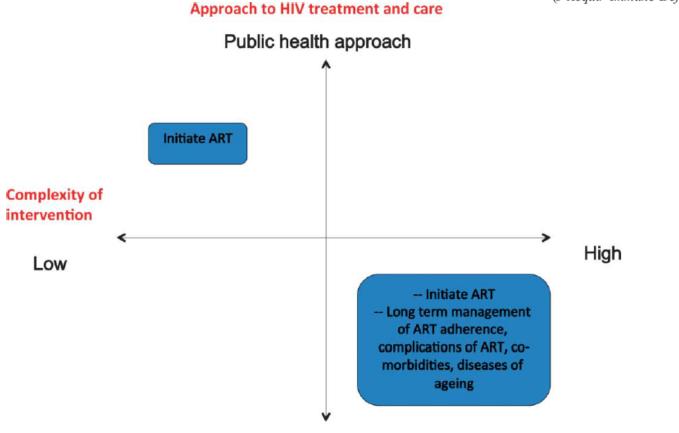
From WHO



# Building a Durable Response to HIV/AIDS: Implications for Health Systems

Rifat Atun, MBBS, MBA, FRCGP, FFPH, FRCP\*† and Jacqueline Bataringaya, MD\*

(J Acquir Immune Defic Syndr 2011;57:S91–S95)



Individualized approach

**FIGURE 2.** Transitioning from a public health approach to managing HIV infection to complex individualized care.

# Integrating HIV and Maternal Health Services: Will Organizational Culture Clash Sow the Seeds of a New and Improved Implementation Practice?

Lynn P. Freedman, JD, MPH

In many countries with high maternal mortality rates:

- →health care worker absenteeism (20–40%);
- →leakage of funds and stockouts of drugs;
- →a huge "know-do" gap persists, despite in-service training;
- →rampant mistreatment of patients is but the tip of the iceberg of dismal quality care.
- →organizational forms (best practices) adopted and adapted from elsewhere become a strategy to camouflage deeper dysfunction.

The culture of the health services for treating HIV was far more open to innovation.

→ The push for integration in the face of stagnating resources and increasing demand may now force the HIV community to confront the deeper challenges of implementation that have been so disastrously ignored in maternal health.



#### RESEARCH ARTICLE

**Open Access** 

# Experiences of health care providers with integrated HIV and reproductive health services in Kenya: a qualitative study

**Methods**: Semi-structured in-depth interviews were conducted with 32 frontline clinical officers, registered nurses, and enrolled nurses in Kitui district (Eastern province) and Thika and Nyeri districts (Central province) in Kenya.

#### **Results:**

At personal level, providers valued skills enhancement, more variety and challenge in their work, better job satisfaction through increased client-satisfaction.

However, they also felt that their salaries were poor, they faced increased occupational stress from: increased workload, treating very sick/poor clients, and less quality time with clients.

# Cost, cost-efficiency and cost-effectiveness of integrated family planning and HIV services

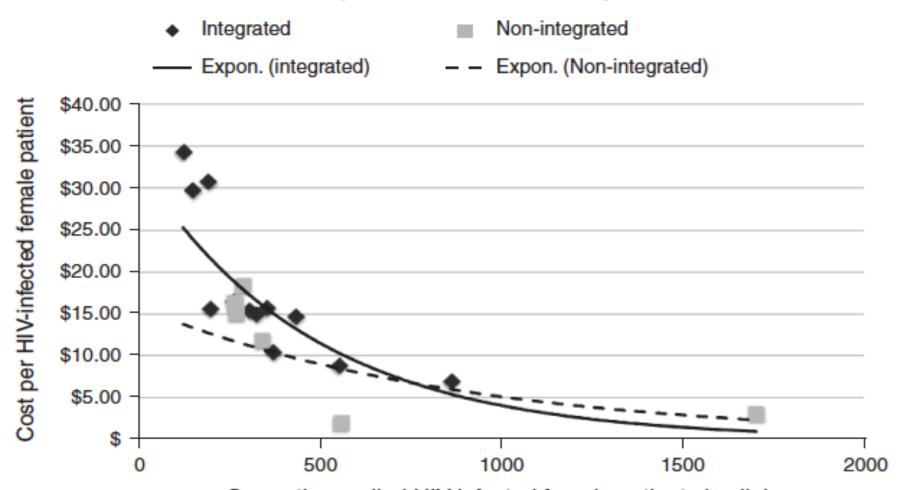
Starley B. Shade

**Setting:** Twelve health facilities in Nyanza, Kenya were randomized to integrate family planning into HIV care and treatment; six health facilities were randomized to (nonintegrated) standard-of-care with separately delivered family planning and HIV services.

Main outcome measures: We assessed costs, cost-efficiency (cost per additional use of more effective family planning), and cost-effectiveness (cost per pregnancy averted) associated with the first year of integration of family planning into HIV care. More effective family planning methods included oral and injectable contraceptives, subdermal implants, intrauterine device, and female and male sterilization.

# Cost, cost-efficiency and cost-effectiveness of integrated family planning and HIV services

Cost per HIV-infected woman by clinic size



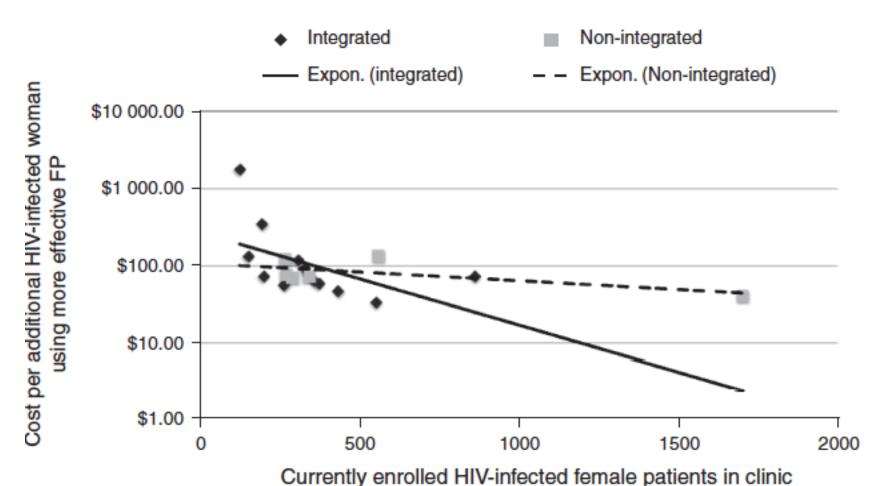
Currently enrolled HIV-infected female patients in clinic

AIDS 2013, 27 (Suppl 1):S87-S92

# Cost, cost-efficiency and cost-effectiveness of integrated family planning and HIV services

Cost per additional HIV-infected woman Using more-effective FP by clinic size

AIDS 2013, 27 (Suppl 1):S87-S92





# **Integration and efficiency gains**S.Sweeney (2012)

- 1. HIV and TB SRH services : Address co-infections ; similar health services levels and may affect the same persons.
- 2. Low marginal cost of integrated services: Clinic space exists and staff have much of the knowledge and skills
- 3. HIV services may be valued by clients seeking general services and PLWHIV may have other unmet health needs.
- 4. Low correlation in existing demand : clients seeking other health services may not seek HIV-related services independently.



# **Integration and efficiency gains**S.Sweeney (2012)

- 1. A number of integrated HIV services have been shown to be cost-effective.
- 2. Little is known about the comparative efficiency of differing integration models.
- 3. Evidence gaps remain on economic impact of integration for HIV care and services for populations at higher risk of HIV exposure.
- 4. Further research is necessary to identify efficiency gains from integration beyond teh service level and economic gains to HIV users.



## **Agenda**

- 1. Some definitions
- 2. A patient perspective
- 3. A health system perspective
- 4. Solthis approach



### **Our goal**

### **Health System Strenghtening**

Solthis provides capacity building for healthcare systems in order to facilitate high quality, accessible and sustainable treatment for people living with HIV/AIDS in developing countries

#### High quality:

Decrease the mortality and number of patient' lost-to-follow-up

#### **Accessible:**

Decentralization into isolated areas, increase patients under treatment and receiving free of charge care

#### **Sustainable:**

Work on local and professionnal capacity building



### Intervention strategy

#### 5 priority functions in healthcare systems



- Healthcare providers (medical and paramedical)
- Laboratories and other technical platforms
- Pharmacies (procurement, supply chain management, dispensation)
- Health information systems (management of health data)
- Coordination bodies



#### Systemic level

- National health and HIV policies, standards and protocols
- Role of the health authorities (Ministry of Health, Regional authorities etc...)
- Practices and values, incentives

#### **Health centers level**

- -Material conditions, infrastructure
- Work organization
- Patients management
- Role of the hierarchy



#### Health workers level

- Skills
- Self confidence, legitimacy, motivation

### A Systemic approach

Expertise to improve policies, standards and protocols

Support for the patient management reorganization, tasks distribution

Needs evaluation, material and furniture set up, rehabilitations, equipment supply

Training
Technical support in daily practice





# Integrating HIV data in the national health system



Depuis fin 2011, l'Initiative 5%, deuxième modalité de la contribution de la France au Fonds mondial de lutte contre le sida, la tuberculose et le paludisme, appuie les pays, notamment francophones, dans la conception, la mise en œuvre et le suivi-évaluation des subventions allouées par le Fonds mondial.

Dotée d'une enveloppe annuelle de 18 millions d'euros, l'Initiative 5% est mise en œuvre par France Expertise Internationale et pilotée par le Ministère des Affaires étrangères.

http://www.initiative5pour100.fr







Avec un cofinancement de la Fondation Bettencourt Schueller

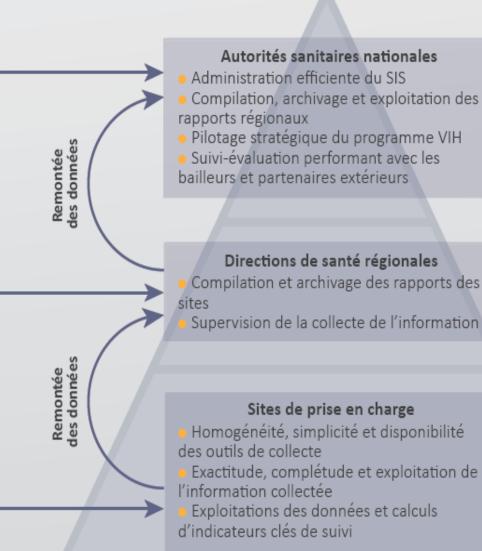
#### Action de CASSIS à chaque niveau de la pyramide sanitaire

- Développement de méthodes et outils pour l'analyse et l'exploitation de l'information et pour la gestion du SIS
- Appui à l'intégration du SIS VIH dans le Système National d'Information Sanitaire
- Renforcement des capacités pour la supervision du SIS: formations, manuels de procédures, supervisions conjointes
- Développement des méthodes et outils pour l'exploitation de l'information
- Consolidation du circuit et des outils de collecte de l'information: formations et accompagnement, mise en place d'outils informatiques et papiers
- > Renforcement des capacités d'analyse de l'information : formations, ateliers d'échange

# Résultats attendus à chaque niveau de la pyramide sanitaire

Rétro information

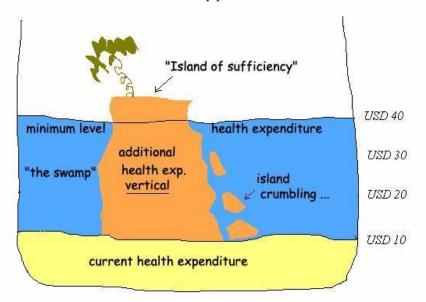
Rétro information



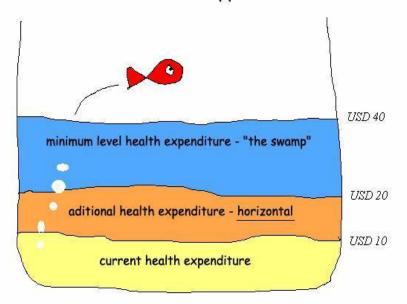


# To conclude...

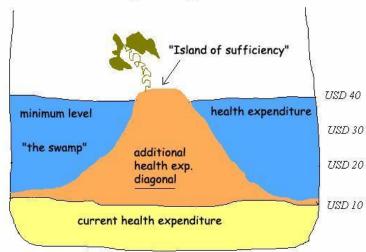
#### The "vertical approach"



#### The "horizontal approach"



The "diagonal approach"





### The Value of Science in Integration of Services

The Journal of Infectious Diseases 2012;205:S1-3

Anne Schuchat<sup>1</sup> and Kevin M. De Cock<sup>2</sup>

<sup>1</sup>National Center for Immunization and Respiratory Diseases and <sup>2</sup>Center for Global Health, Centers for Disease Control and Prevention, Atlanta, Georgia

Critics who insist that immunization programs are too vertical must accept that health systems are only strengthened when a specific program, be it for HIV, tuberculosis, or any other important challenge, scales up and tackles the then-apparent need for integrating services.

Theoretical discussion of health systems strengthening has yielded few tangible results, and the moral authority lies with those who act.