Is rapid ART right for all?



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www.i-Base.info

Disclosure

No personal financial conflict of interest

Introduction

- Community perspective
- No personal link to this research
- Rapid = same-day, next day, within a week
- Right for all = right for most people
 (better definition with listed exceptions)
- Individual not population-based



Individual vs populationbased medicine

- Healthcare in the UK is still largely based on individualised medicine even when economic costs govern access to treatment and care.
- Rapid-ART is different to public health policies: Test & Treat [1, 2] and Option B+ [3].
- Urgent ART: late pregnancy, newborns, late dx

1. Velasco-Hernandez et a. Lancet Inf Dis (2002); 2. Granich et al. Lancet (2008); 3. WHO (2012).

1. US DHHS guidelines; archive at aidsinfo.nih.gov

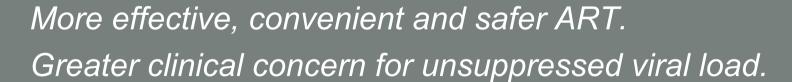
Background

Treatment guidelines have varied over the last 20 years with thresholds linked to better ART. [1]

1998 2000 2002 2005 2009 2015

<500 <350 <200 <350 <500 All (any CD4)

START study



San Francisco – 2015

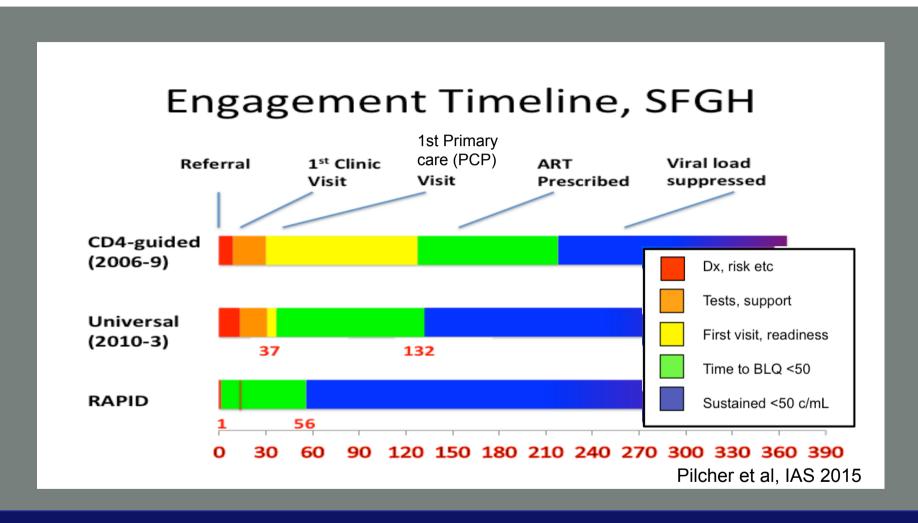
Same-day ART vs historical control. Enrolled 2013–14.

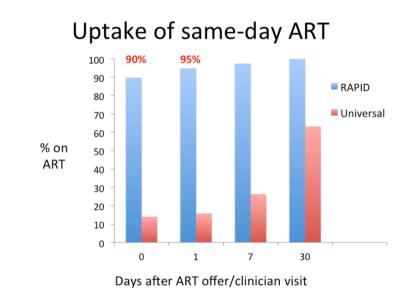
- N=39 (92% men)
- Same day referral compressing timeline for care.



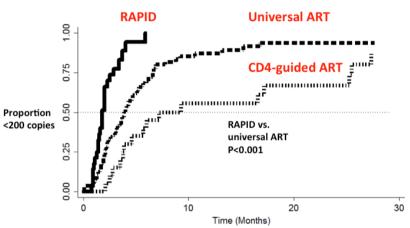


Pilcher et al, IAS 2015





Time to VL suppression by ART initiation strategy: SFGH 2006-2014



High engagement and acceptance. Integrase-based ART.

Pilcher et al, IAS 2015

56 Dean St - Pilot 2017

- <48 hours for first apt (vs 14 day)
- Offer same day ART before CD4, VL, resistance, HLA, RITA, STI/HBV etc.
- PI/b + TDF/FTC but switch away from PI/b asap.



Whitlock G et al, BHIVA 2017

56 Dean St - 2017

127 new HIV diagnoses

Characteristic	
Age (mean, y)	34
Sex: Male of which, MSM	100% (127/127) 98% (125/127)
Recent infection (RITA) %	50% (58/116)
Baseline CD4 (median, IQR) cells/mm ³	466 (310 - 578)
Baseline VL (median, IQR) cpm	72,000 (24,000 – 290,000)
VL > 1million cpm	14%

N* (%)
28 (24%)
30 (26%)
20 (17%)
37 (32%)

^{*}Includes the 26 who do not start at 1st appt and subsequently start

Whitlock G et al, BHIVA 2017

56 Dean St - 2017

75% (89/118) started ART at first apt. 26/28 deferrals started within 1 month ART: 24% <48 h and 28% <7 days 54% - PI/b, 29% INSTI; 10% NNRTI But 28/118 - \geq 1 primary resistance 54/55 (with 3 mo data) - <200 c/mL Med. 61 days (44-117) to undetectable.



Whitlock G et al, BHIVA 2017

Community views 1

- HIV still has a life-changing impact.
- Most calls to i-Base even in 2015 want
 ART esp in primary HIV infection.
- ART can normalise HIV single pill.
- Experience with PrEP and PEP is common.
- U=U reduces worry about risk to partners.

Community views 2

- Shock of diagnoses high engagement.
- Period of stress.
- High level of interest and motivation.
- Reduce viral load >1 log in 2 days.
- Options to change and modify.
- Clinical benefits at all HIV stages.

San Francisco – 2013-2017

N=216 (92% men)

CD4: 441 (3 to 1905)

VL: 37,000 (0 to >10 million)

51% with substance use

48% major mental health dx

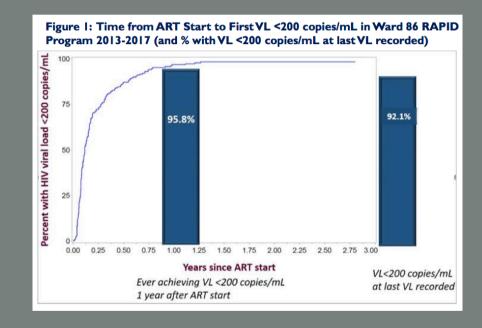
30% homeless or unstable housing



Coffey et al, CROI 2019

San Francisco – 2013-2017

Med, 1 year f/u (0 to 3.9) 92% <200 c/mL at 1 year 96% <200 c/mL over time 14% rebound >200 c/mL but most (78%) resuppressed.



Coffey et al, CROI 2019

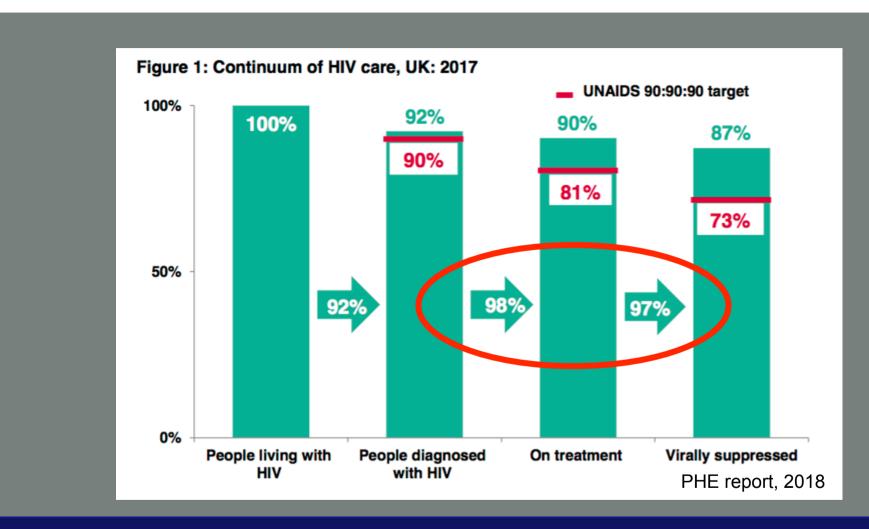
Cautions

- Both examples restructured services.
- BHIVA standards include comprehensive assessment with referral to other services.
- HIV nurse, HIV health advisor, doctor and peer support.
- Sexual health and mental health.
- Latent TB, CVD, BMI, fracture risk etc.



BHIVA機

BHIVA Standards (2016) and BHIVA Monitoring Guidelines (2019 update).



Exceptions to uptake

- Very few perhaps side effects with a high CD4 count (pipeline - injections, BNAbs?)
- Perhaps other serious complications? (TB)
- Perhaps social circumstances: time to process information, discuss with partners, fear of negative reactions.
- Benefits: signposting to support services

Informed choice

- Personal choice but an informed choice?
- Clinic as point of care for accurate info
- Treatment literacy.
- Uptake linked to community knowledge.
- Access to peer support
- Who is left out? [1]

1. Lee MJ et al. Int J STD AIDS (2019)

Conclusion

- Rapid ART can be an option for all.
- Acceptable and feasible in a high-income country with public health.
- ART is just part of care other services are still essential.
- Integrase inhibitors overcome drug resistance and can have fewer side effects.

Thanks

Polly Clayden Julie Fox

Angelina Namiba Sarah Fidler

Michelle Ross Nneka Nwokolo

Roy Trevelion Gary Whitlock

Questions?