

Setting the stage:

How did the VOICE results impact future HIV prevention trials?

Optimization of Adherence after VOICE Meeting
September 1-2, 2015

VOICE Development (2006-2009)

- Success of treatment roll-out in Africa
 - Adherence higher than anticipated
- Empowerment of women
 - Putting control of HIV prevention in women's hands
- Insufficiency of “ABC”-based prevention efforts
- Good safety profile of tenofovir-based treatment

VOICE Development (2006-2009)

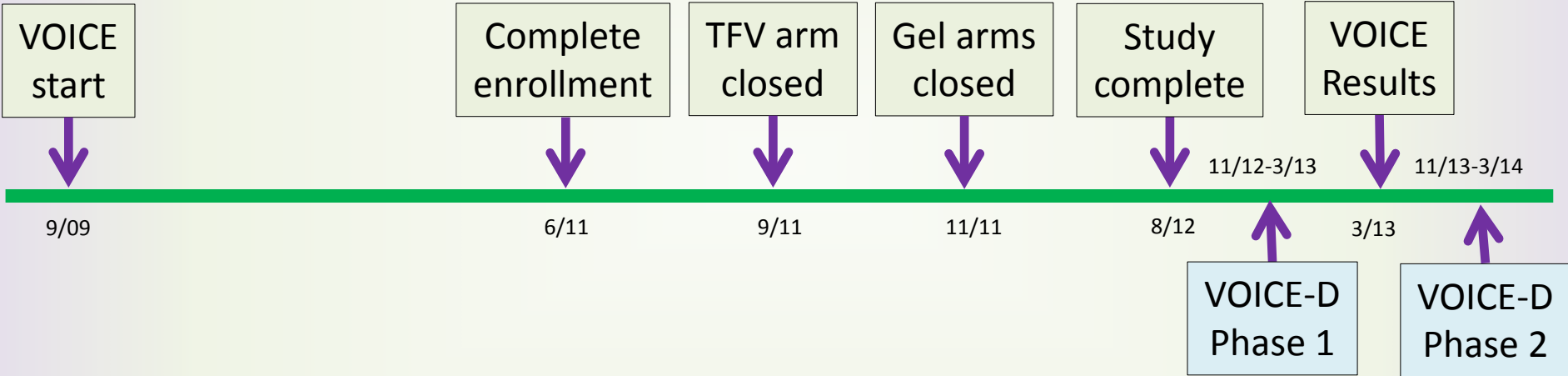
Trials completed

- HPTN-035
- MDP-301
- Carragard
- MIRA
- Cellulose Sulfate

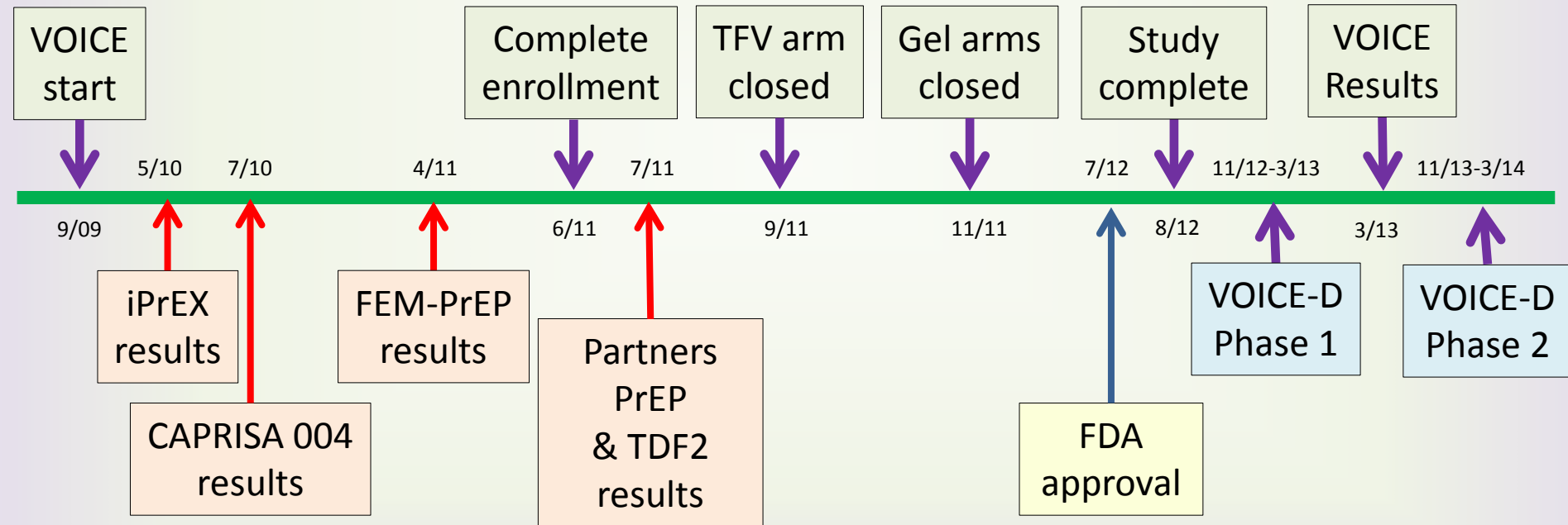
Trials initiated

- iPrEX
- Partners PrEP
- TDF2
- CAPRISA 004
- FEM-PrEP

Key events



Key events



VOICE Outcomes

- Women enrolled in the trial: 5029 women in 21 months
- They kept coming back:
 - 95% of PY retained, 91% followed to termination visit
- They reported high adherence:
 - 90% adherence by FTFI, 88% by ACASI
- They returned the correct amounts of unused product:
 - 86% adherence by returned product counts
- Their blood told a different story:
 - 25-30% of quarterly samples positive for tenofovir
 - >50% never had drug detected at any quarterly visit

Adherence Counseling in VOICE

- Focus on empowerment of women to make their own decisions and on overcoming individual barriers and challenges
- Evolved during study
 - Initially based on reconciling product returns and reported use
 - Focus on correct product use and reminder tools
 - Changed to a client-center counseling approach midway through study (VASP initiated in May 2011)
 - Focus on individual support needs and life context
 - Did not allow consideration of reported adherence
 - Sought to encourage honest reporting of product use

So what happened?

- Could not do PK testing until after study completion
 - Fear of unblinding
- Did not adequately address:
 - Lack of desire or willingness to use products
 - Other motivators to join a trial
 - Impact of outside influences
 - Degree of stigma

What was VOICE-D?

- Ancillary study conducted after VOICE
- Phase 1: 88 women
 - IDIs
 - Anal sex, reasons to join trial and barriers to product use
- Phase 2: 127 women
 - IDIs and focus groups
 - Showed women their drug detection category

High adherence/ High-level drug detection



A



B

Inconsistent adherence/ Occasional drug detection



C



D

Non adherence/ No drug detection



E

Note: Each tea pot represents the average overall adherence for a participant, based on all samples tested. Each tea cup represents a specimen/ time point and each group of tea cups depicts a representative adherence pattern for a sample participant. Full cups represent detectable drug, empty cups represent no drug detected.

What did we hope to learn from VOICE-D?

- Reasons women joined the trial
- Reasons women wanted to appear adherent
- What happened to the unused product
- Biggest challenges to adherence
- Best motivators for adherence

What did we learn from VOICE-D?

- Phase 1
 - A lot about anal sex attitudes and practice
 - 3 papers published, lead author Zoe Duby
 - What “other women” in the study did
 - Discarding of products in pit latrines and trash
 - Use of gel as a skin and hair product
 - Challenges to product use
 - Rumors in waiting rooms (product “rotting” uterus and liver)
 - Impact of stigma, particularly for the tablets
 - Gel being too wet, causing accusations of infidelity

What did we learn from VOICE-D?

- Phase 2
 - Provision of individual PK results worked well
 - Acceptable
 - Understood
 - Promoted open discourse on product non-use
 - Motivators for enrollment were identified
 - Access to high quality health care, contraception, HIV/STI testing
 - Women openly discussed
 - How they counted and discarded “correct” amount of product
 - Why they wanted to stay in trial
 - Fear of side effects was most common adherence challenge reported, often fueled by:
 - Waiting room gossip/rumors
 - Medical research mistrust

What did we learn from VOICE-D?

- Why did women hide non-adherence?
 - Fear of being terminated from trial early
 - Fear of being labeled as HIV+
 - Did not want to lose access to health care services
 - Not wanting to disappoint clinic staff or be reprimanded by them
 - Not wanting to be labeled as a “failure”
 - It was easier than admitting non-use
 - No one would know it wasn't true
 - Reduced time in clinic due to decreased counselling pre-VASP
 - There were no negative consequences

What did we learn from VOICE-D?

- Common themes
 - Biologic monitoring of adherence with feedback was strongly recommended
 - Both phases of VOICE-D
 - All sites
 - All adherence categories
 - Participation in the trial was highly valued, product use was not
 - Stigma and fear of side effects were major barriers to product use
 - Using independent interviewers away from the trial site did not result in more honest reporting of product use in Phase 1
 - Providing women their own drug detection data triggered more open reporting and discussion in Phase 2

How did VOICE impact future trials?

- Biologic measures of adherence are crucial
 - While trial is ongoing
 - With feedback to sites (blinded)
- Desire to participate in trial is distinct from desire to use product
 - Women need to “desire” both HIV prevention and the products tested
- Women have many competing priorities
 - Products that require less effort may compete better
- External influences are key drivers
 - Empowering individual women isn’t enough (even with covert product)
 - Need to address peer, family and community attitudes and pressures
 - Male partner engagement/involvement is important and desired

