



HIV PREVENTION TRIALS NETWORK

Sustained Treatment as Prevention: Unprotected sex and increases in virological suppression after HAART initiation among participants in HPTN 052

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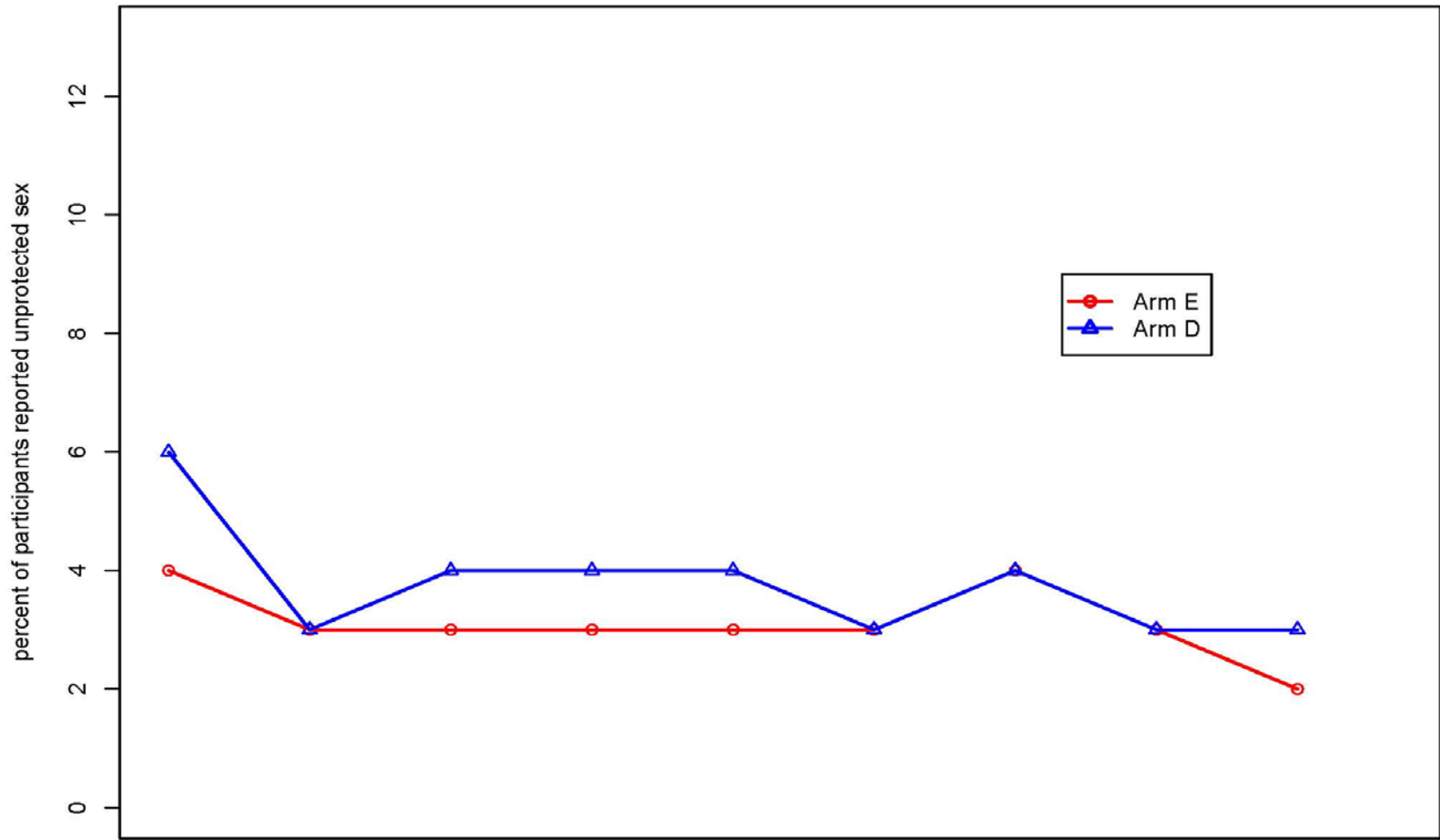
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HPTN 052 Methods

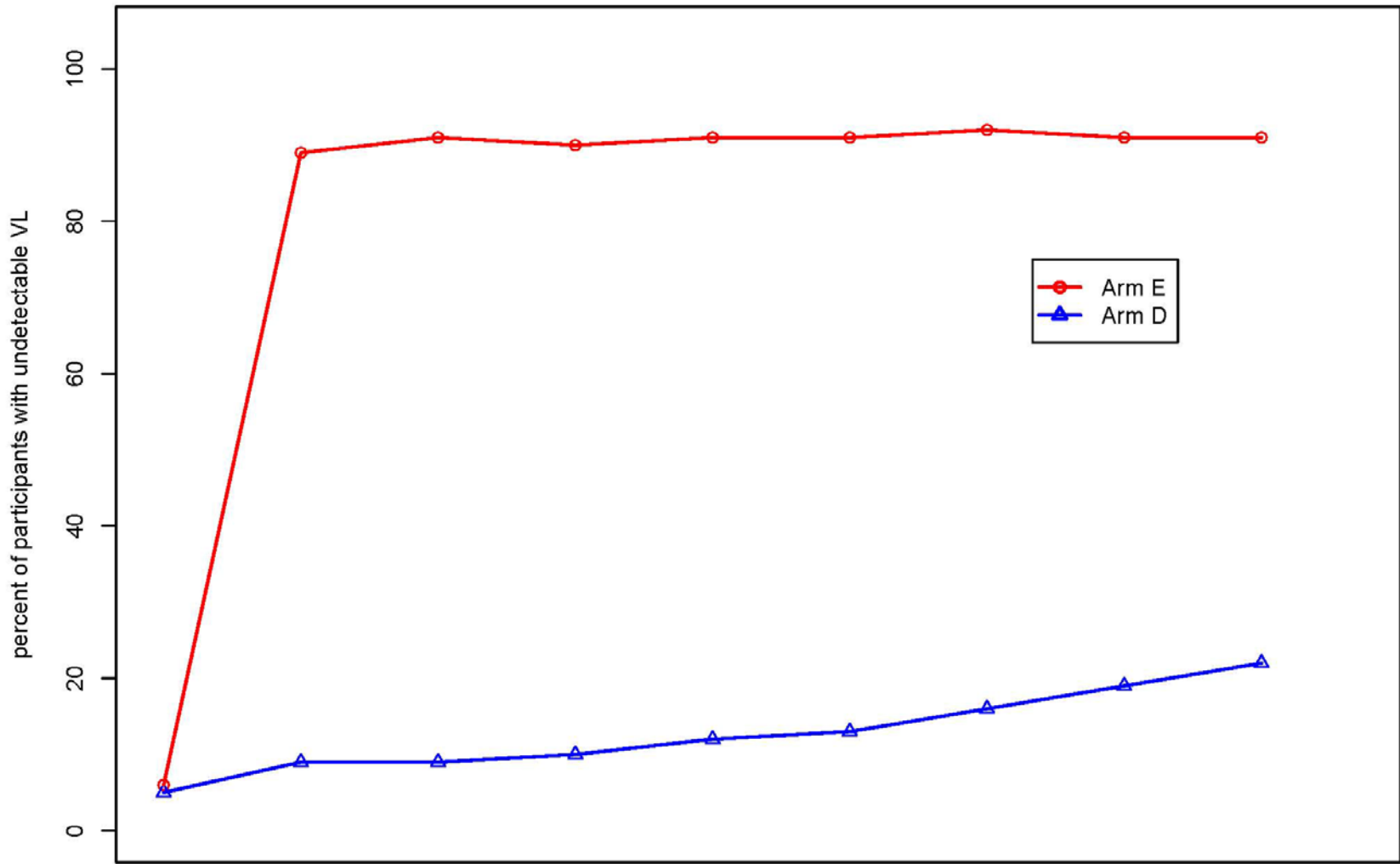
- HPTN 052 enrolled 1763 HIV-serodiscordant couples at 13 sites in 9 countries
- HIV+ pts with CD4 counts between 350 and 550 cells/mm³ were randomly assigned to start HAART either immediately (“Early” arm) or when their CD4 cell count was < 250 cells/mm³, or they developed an AIDS-defining illness (“Delayed” arm).
- The current analysis evaluated changes in sexual behavior and virological control over time
- GEE models assessed time trends of risk behaviors and compared the change between the two treatment arms, adjusting for baseline characteristics including gender, region, substance use, and HIV-1 RNA level.

HPTN052 – Percent of Heterosexual Participants Who Reported Unprotected Sex with Any Partner



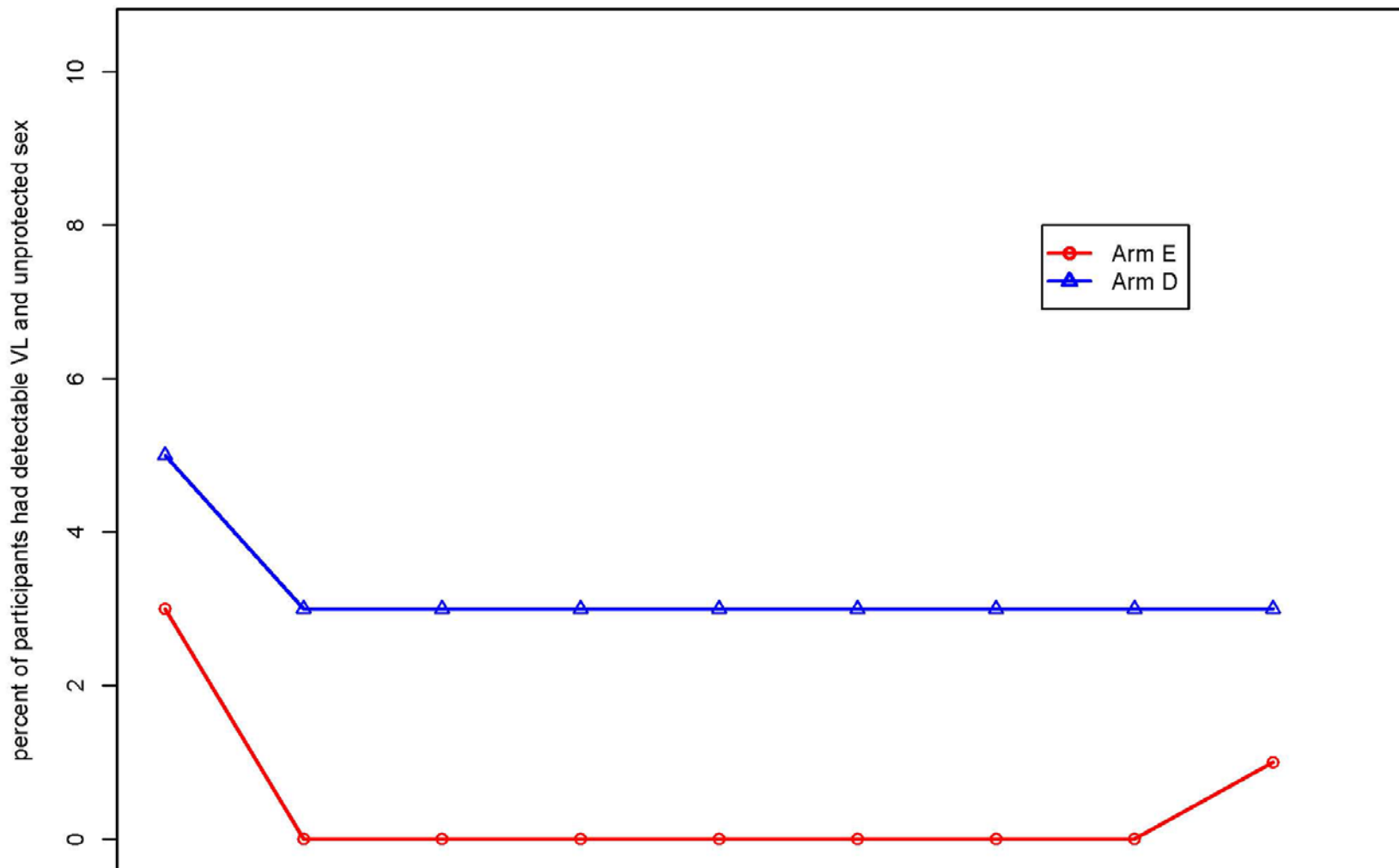
	Enrollment	Month 3	Month 6	Month 9	Month 12	Month 15	Month 18	Month 21	Month 24
Arm E	865	836	823	809	805	746	635	552	458
Arm D	855	828	826	821	806	742	649	562	463

HPTN052 – Percent of Participants with Undetectable VL



	Enrollment	Month 3	Month 6	Month 9	Month 12	Month 15	Month 18	Month 21	Month 24
Arm E	883	857	845	836	833	767	652	569	473
Arm D	873	851	845	846	830	761	672	578	478

HPTN052 – Percent of Heterosexual Participants Who Had Detectable VL and Reported Unprotected Sex



	Enrollment	Month 3	Month 6	Month 9	Month 12	Month 15	Month 18	Month 21	Month 24
Arm E	865	840	825	816	812	750	636	555	460
Arm D	855	829	826	822	807	741	651	563	463

Conclusions

- Self-reported unprotected sex decreased by 3 months and did not increase over 24 months follow-up
- Virological suppression approached 90% by 3 months and was sustained over 24 months
- By 24 months, only 1% of the pts who initiated HAART immediately had detectable plasma viremia and engaged in unprotected sex (potential transmitters) compared to 3% of the pts in the delayed arm (compared to 4-5% of both groups at the start of the study).
- Early initiation of HAART was associated with sustained virological suppression and behavior change, supporting the concept of “treatment as prevention.”

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- Site Staff

Thank You

