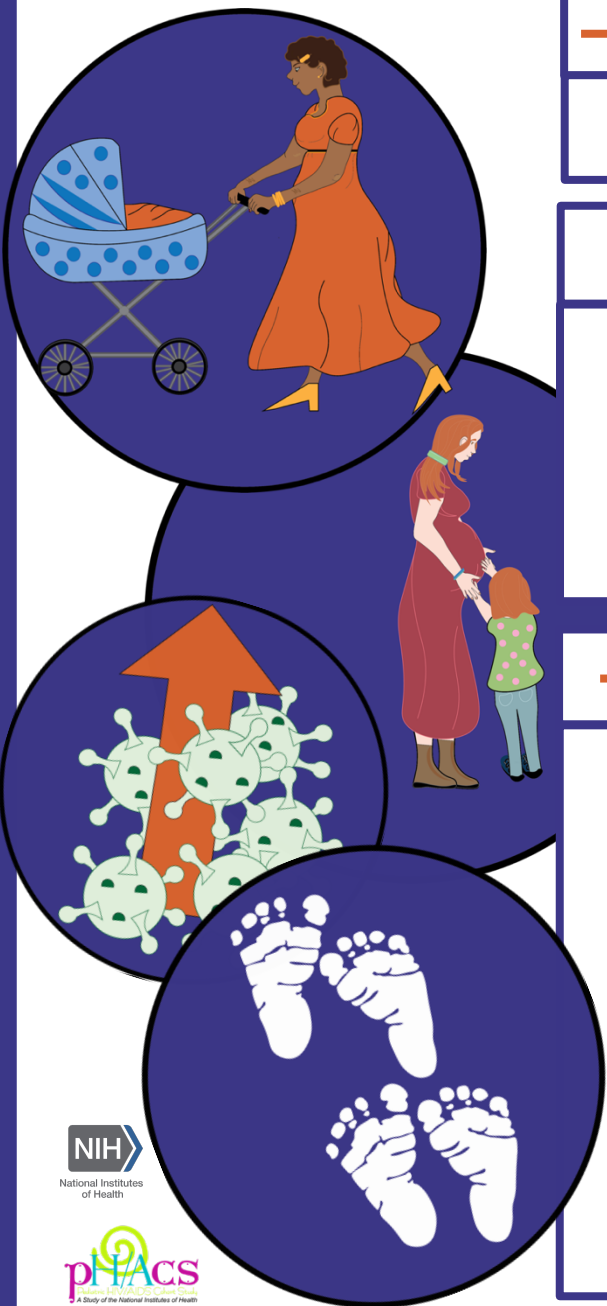


# ARVs and Early Birth in Women in SMARTT with Multiple Pregnancies

- **Previous studies suggest a connection** between some HIV medications and risk of premature (early) birth.
- We wanted to **see if** among women with multiple pregnancies, **there was a connection between babies being born premature**, and use of **newer medications**, such as integrase inhibitors.



## WHO PARTICIPATED

- **736 women in SMARTT** with more than one child enrolled at birth.

## WHAT WE DID

- We **looked at viral load and CD4 count of mothers** with HIV who had multiple pregnancies. We **focused on the time** during pregnancy and shortly after birth.
- We also looked at the **association** between use of **HIV medications and premature births** in mothers with multiple pregnancies.

## WHAT WE FOUND

- While most women in our study had suppressed viral load late in pregnancy, **many had higher (detectable) viral loads early in their next pregnancy.**
- The women who took **protease or integrase inhibitors in their first trimester were more likely to give birth early.** We don't know exactly why.
- **We need more research** to look at these medications and the risk for premature birth.
- It is also **important to support mothers** in their adherence to HIV medication after pregnancy.



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O'Brien BE, Williams PL, Huo Y, et al. Repeat Pregnancies Among US Women Living With HIV in the SMARTT Study: Temporal Changes in HIV Disease Status and Predictors of Preterm Birth. *J Acquir Immune Defic Syndr*. 2020;85(3):346-354. PMID: 32701825