RV397:

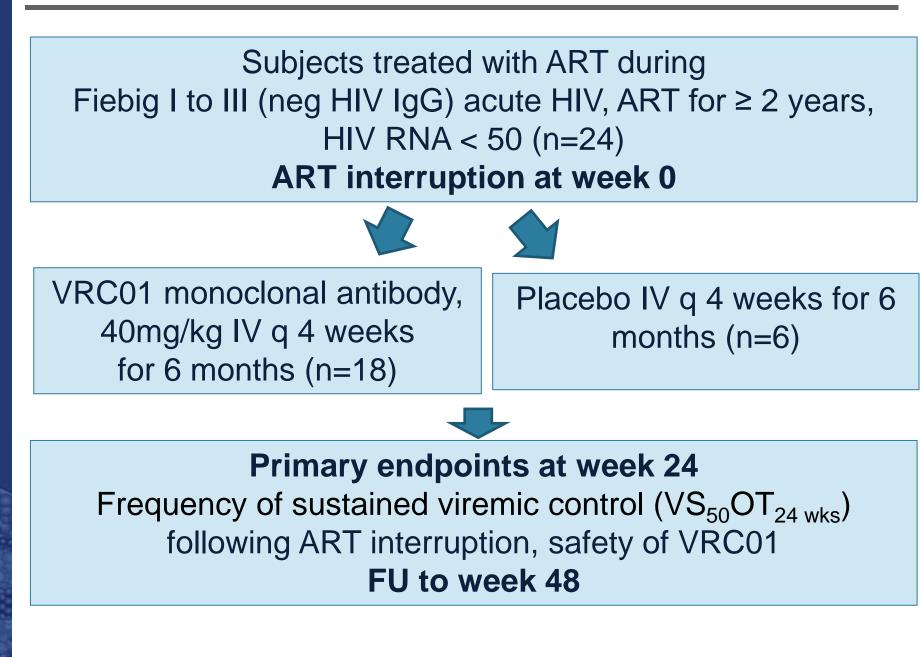
Therapeutic Efficacy of Broadly Neutralizing HIV-1 Specific Monoclonal Antibodies in Thai Patients who Initiated Antiretroviral Therapy During Early Acute HIV Infection





Rationale for this Study

- The main goal is to evaluate
 - Viremic control < 50 copies/ml after interruption of ART in early treated acutely infected patients
 - Potential endpoint--VS_{LLD}OT_{weeks:} "Virologic Suppression Off Therapy" defined by lower limit of detection of assay for a duration of x weeks.
- Unique intervention
 - VRC01 broadly neutralizing antibody can suppress viremia
- Unique population
 - Early treated acutely infected subjects in the RV254/SEARCH010 study with extremely low HIV reservoir size



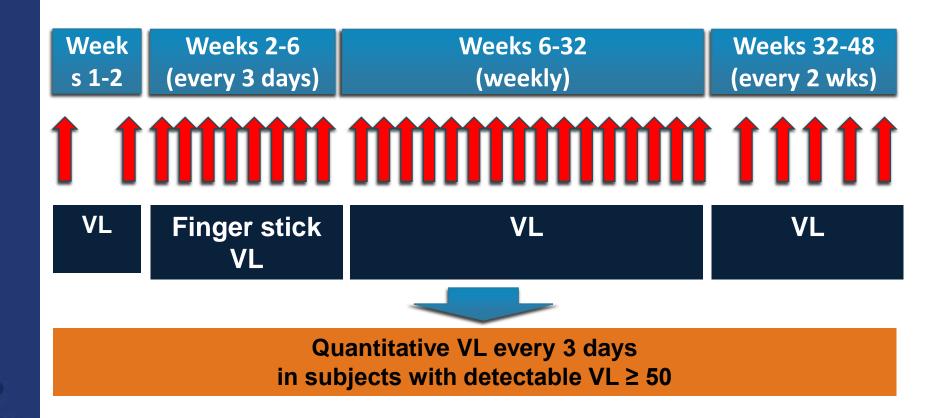
- Primary objectives
 - To evaluate the safety of VRC01 administration at the time of ATI.
 - To evaluate the efficacy of VRC01 in achieving sustained viremic control at 6 months following ATI.
- Secondary objectives: assess the impact of VRC01 on
 - Viral dynamics following ATI
 - Clinical characteristics of HIV infection following ATI
 - CD4 preservation following ATI
 - HIV reservoir replenishment and expression following ATI
 - Markers of immune activation following ATI

Population and Key Eligibility Criteria

- Recruited from the RV254 cohort at the Thai Red Cross in Bangkok, Thailand
 - > 18-50 years old
 - Started on ART during AHI (Fiebig I-III)
 - > Prescribed ART for ≥24 mo
 - ► HIV-1 RNA <50 copies/mL for ≥12 mo</p>
 - Undetectable integrated HIV DNA in PBMCs in the last 6 months
 - CD4 >400 cells/mm³
 - No HIV-related illness in last 6 months
- Exclusions: pregnancy, hepatitis B, hepatitis C, drug/alcohol abuse, psychiatric disorder

Viral Load Monitoring during Treatment Interruption

MHRP



Criteria for ART Resumption

- HIV-1 RNA >1,000 copies/mL on 2 consecutive determinations at least 3 days apart.
- HIV-1 RNA rise of ≥ 0.5 log₁₀copies/ml per day (if last HIV-1 RNA is above 1000 copies/mL)
- Any HIV-1 RNA >10,000 copies/mL
- CD4 <350 cells/mm³ twice over 2 weeks
- CD4 decline > 50% from baseline prior to ATI
- Clinical progression to CDC Category B or C disease
- Acute retroviral syndrome
- Pregnancy

- Study pause or termination
 - Automatic pause if one participant experiences a grade 5/probably or definitely related grade 4 event

- Protocol safety review team
 - Review all adverse events
 - Review aggregates of adverse events weekly

- Blinded, randomized study design is required
 - > Attribution of success due to VRC01 might be compromised
 - Enrolled subjects are early treated persons who have undetectable integrated HIV DNA; therefore, a likelihood of achieving viremic control following ART interruption regardless of intervention
- Analytic treatment interruptions can be performed safely
 - Close monitoring
 - Early resumption of ART