

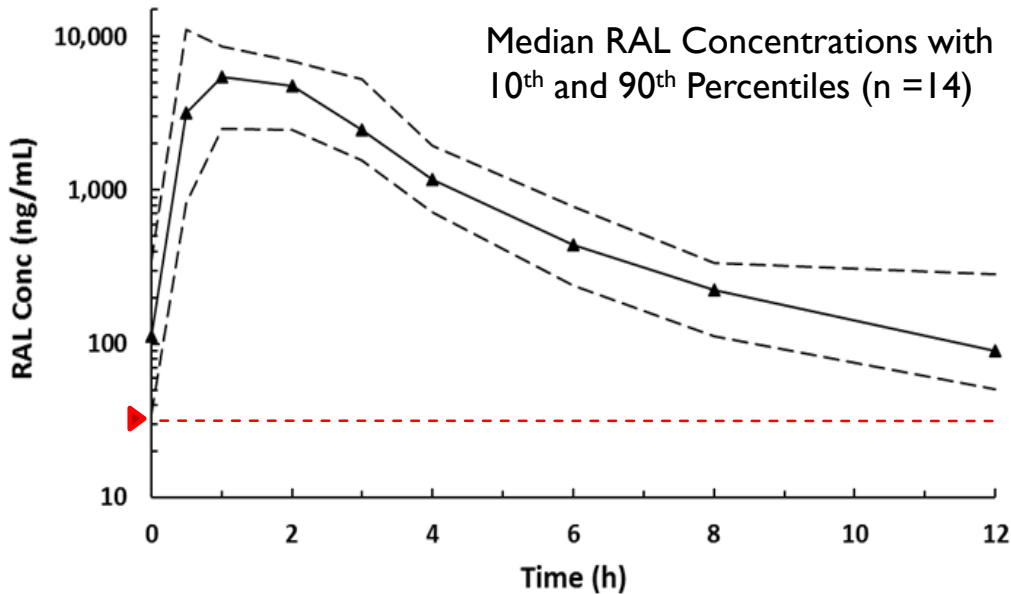
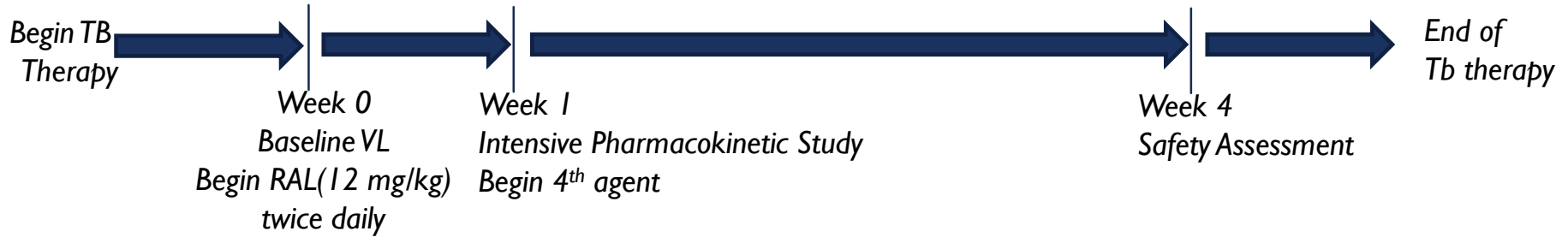
IMPAACT P1101: PHASE I/II STUDY OF RALTEGRAVIR CONTAINING REGIMEN IN HIV/TB CO-TREATED CHILDREN AGED 6 TO <12 YEARS

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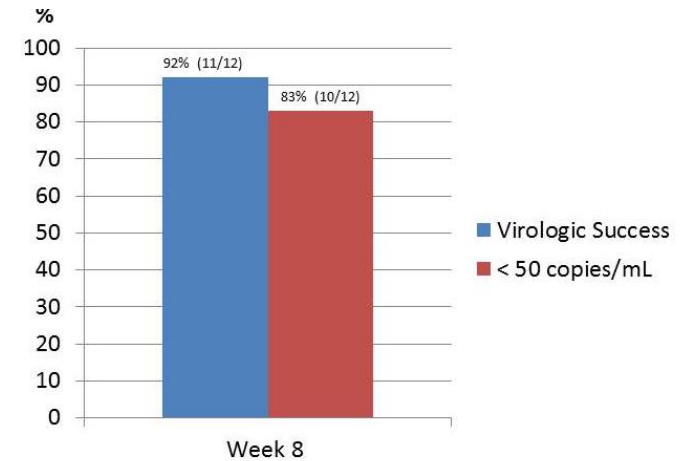
STUDY RATIONALE

- HIV/Tb co-infection commonly encountered
- Rifampicin (RIF) induces CYP3A4 and phase II enzymes such as UDP-glucuronosyltransferases, altering the hepatic metabolism of many drugs (including ARVs)
- ARTs are needed that are well tolerated, potent, and have minimal interactions with Rifampicin-containing TB therapy
 - Current options: Efavirenz, “superboosted” lopinavir/ritonavir, 3 NRTIs*
- RIF enhances glucuronidation and clearance of Raltegravir (RAL)
 - In adults, doubling the dose of RAL when given in conjunction with RIF partially overcame this PK interaction → adequate RAL plasma C_{max} and AUC (no safety concerns)**

Pharmacokinetics and Virological Responses in $\geq 6-12$ yo



Virological Responses (As Treated Analysis (n = 12))



Note: Week 8 Log₁₀HIV-RNA Change from Baseline: Median: -2.78, IQR (-3.41,-2.09).

PK Results

GM AUC _{12h}	38.8 μM-h	(CV=38%)	Target: 14-45 μM-h
GM C _{12h}	228 nM	(CV=78%)	Target: ≥ 75 nM (33ng/ml)

Virologic Success:

≥ 1 log₁₀ drop in plasma HIV RNA copies/ml from baseline Or

HIV RNA ≤ 400 copies/mL at Week 8