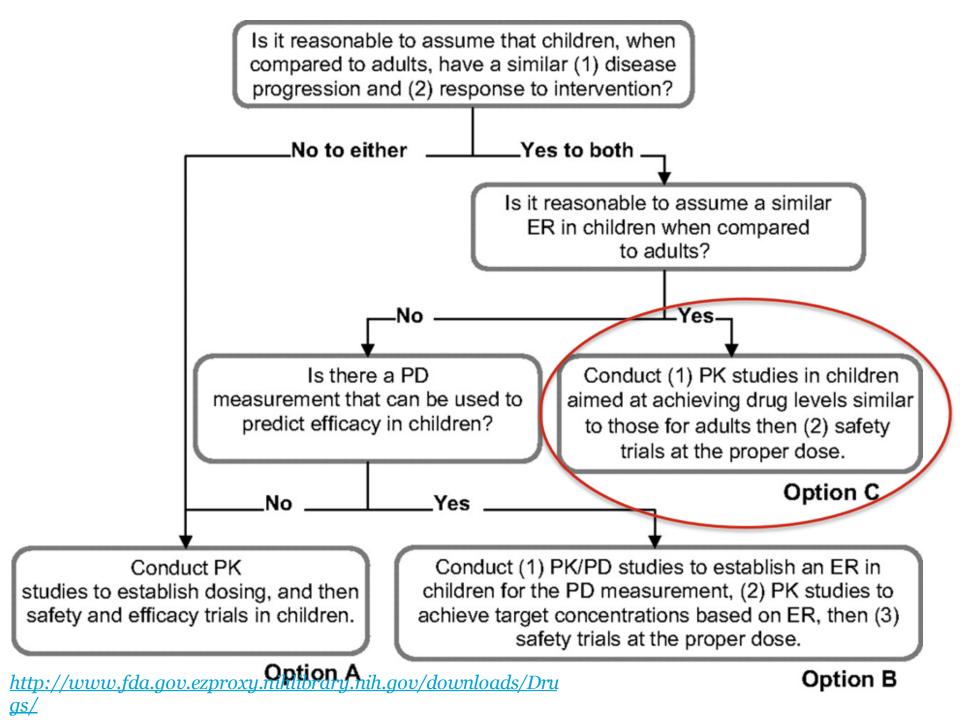
P1108 UPDATE

A PHASE I/II, OPEN-LABEL, SINGLE ARM STUDY TO EVALUATE THE PHARMACOKINETICS, SAFETY AND TOLERABILITY, OF BEDAQUILINE (BDQ) IN COMBINATION WITH OPTIMIZED INDIVIDUALIZED MULTIDRUG-RESISTANT TUBERCULOSIS (MDR-TB) ON IN HIV-INFECTED AND HIV-UNINFECTED INFANTS, CHILDREN AND ADOLESCENTS WITH MDR-TB DISEASE

> ANNEKE C. HESSELING 18 JUNE 2018 IMPAACT TBSC



PRIMARY OBJECTIVES

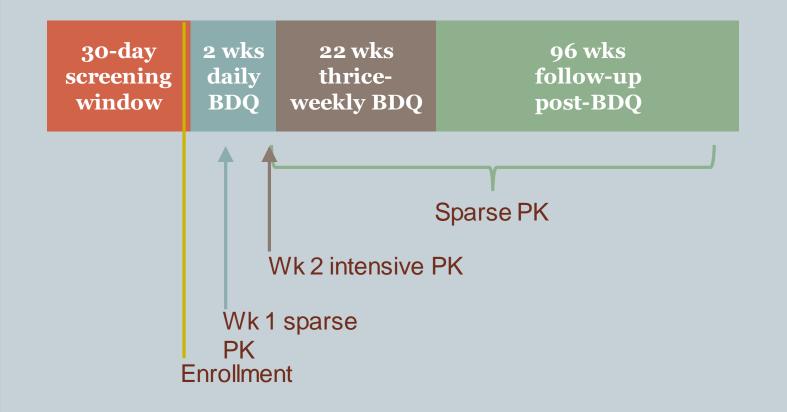
- 1. To determine the BDQ doses that achieve similar weekly exposure (area under the curve; AUC) of BDQ compared to adults taking BDQ at the standard recommended dose.
- 2. To evaluate the safety and tolerability of BDQ over 24 weeks from the initiation of study treatment

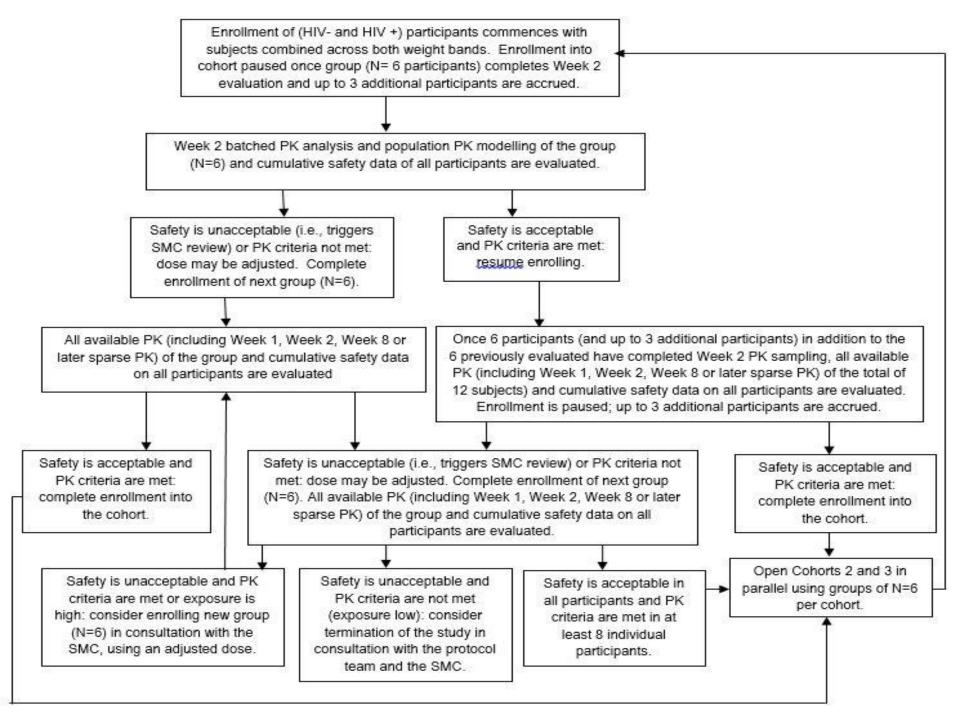
SECONDARY AND EXPLORATORY OBJECTIVES

Secondary Objectives:

- 1. To evaluate the PK of BDQ over the 24-week dosing period, by HIV status.
- 2. To describe the long-term safety and tolerability of BDQ over a 120-week (30-month) total follow-up period, by HIV status.
- 3. To describe BDQ concentrations following BDQ treatment discontinuation at 24 weeks, from study Weeks 24 to 120, by HIV status.
- 4. To describe the MDR-TB treatment response up to 120 weeks from the initiation of the study, by HIV status

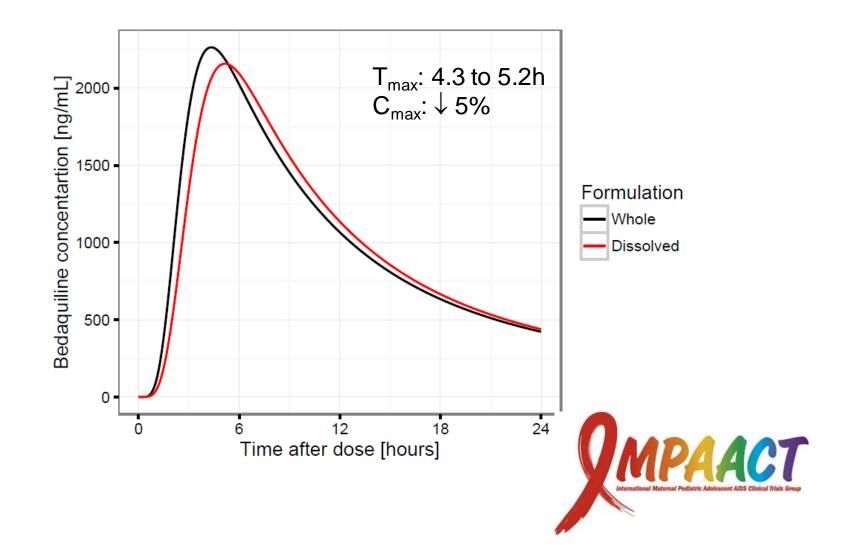
IMPAACT P1108





Cohort	Age and Weight	BDQ Dosing
Cohort 1	≥ 6 to < 18 years ≥30 kg	400 mg once per day for two weeks
up to 24 participants to achieve		then 200 mg three times per week for 22 weeks
18 evaluable	≥ 6 to < 18 years ≥ 15 to <30 kg	200 mg once per day for two weeks
(nine in each weight		then 100 mg three times per week
band)	210 10 00 kg	for 22 weeks
Cohort 2 up to 24 participants to	\geq 2 to < 6 years	Calculated using model-based
achieve	≥7 kg	dose selection
18 evaluable Cohort 3		
up to 24 participants to	≥ 0 to < 2 years	Calculated using model-based
achieve	≥3 kg	dose selection
18 evaluable	-	

Impact of dissolving on a typical bedaquiline $PK p_{8}r_{8}ofile$



Enrolment status

- Opened Q4 2018: 9 participants enrolled : 7 from Desmond Tutu TB Centre, 2 from PHRU Matlosana CRS.
- In April 2018, accrual temporarily paused for an interim look at the PK and safety data.
- Reviewed available evaluable PK (evaluable for this analysis is defined as having week 2 PK data) and safety data and determined that a dose modification for the study drug was not needed per protocol
- Study re-opened on May 8, 2018, to accrue into Cohort 1; PK and safety interim analysis will be done after 12 participants have week 2 PK data available in this cohort

Baseline characteristics: first interim analysis:

- 60% Black Non-Hispanic (African)
- All HIV-uninfected to date
- Ages: 6-17 years: median age at entry: 14 years
- Median weight and height at entry was 38 kilos and 156 cms respectively
- All 9 enrolled had bacteriologically confirmed TB (PTB) and started MDR-TB medication prior to study entry
- All had proof of at least RMR-TB

Next steps

- Complete n=12 in cohort 1 and complete formal safety and PK evaluation
- Data sharing with Janssen (CTA): C211
- Access to paediatric formulation
- Data shared with WHO (MDR TB guidelines)
- Open cohorts 2, 3 in parallel (5 sites), 2018