

IPT during infancy has no adverse effect on growth among HEU children

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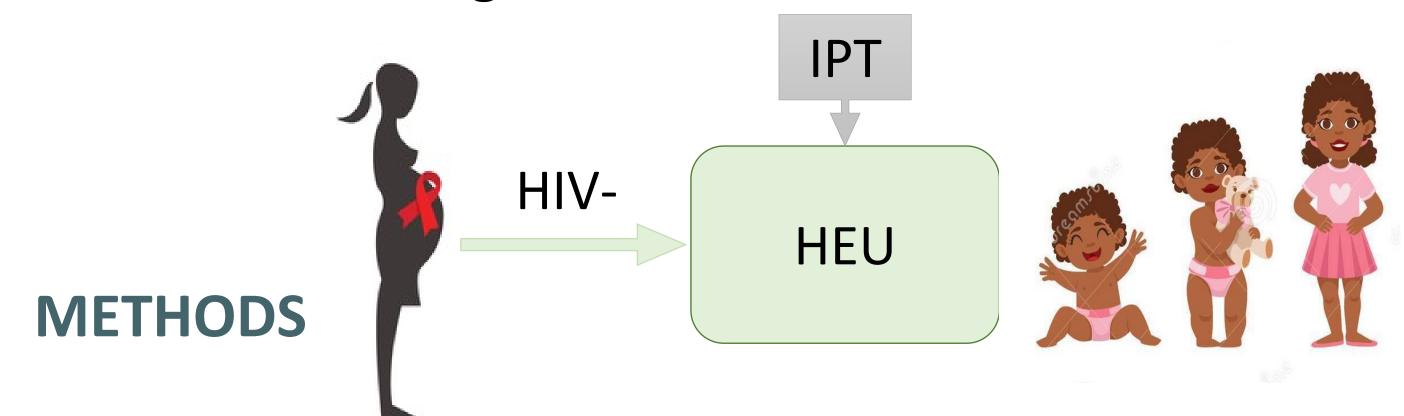




BACKGROUND

Isoniazid preventive therapy (IPT) decreases risk of tuberculosis (TB) disease.

In a recent randomized trial (RCT), we assessed IPT effects on infant growth.



- The infant TB Infection Prevention Study (iTIPS) trial was a non-blinded RCT among HIV-exposed uninfected (HEU) infants (150 vs 150) in Kenya.
- Participants: Infants 6-10 weeks, aged birthweight >2.5 kg, and gestation >37 weeks
- Infants in the IPT arm received 10 mg/kg isoniazid daily for 12 months, while the control arm received no intervention.
- Post-trial observational follow-up continued through 24 months of age.
- used intent-to-treat linear mixed-effects models to compare growth rates:
- Weight-for-age z-score [WAZ], height-for-age z-score [HAZ], and weight-for-height z-score) between trial arms

Global WACh

Woman : Adolescent : Child : health

RESULTS

- There were no growth differences between trial arms, including in sex-stratified analyses.
- In longitudinal linear analysis, mean WAZ, HAZ, and WHZ z-scores were similar between arms.
- Infants in the IPT arm had a higher monthly WHZ increase (\beta to 24 months 0.02 [95% CI:0.01, 0.04]) than the no-IPT arm.

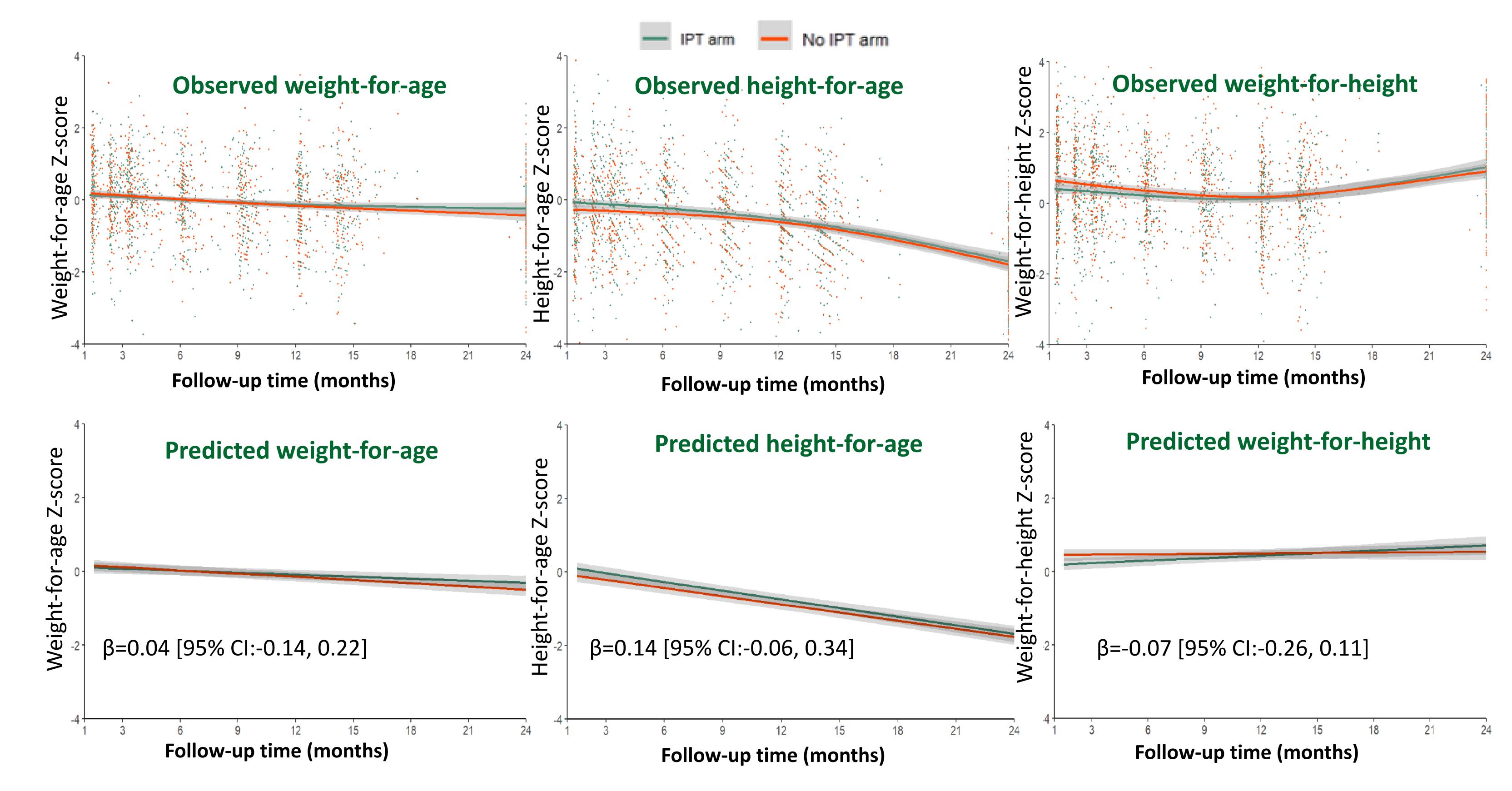


Figure: Scatter plots of change in WAZ, HAZ, and WHZ, over time by the randomized arm

CONCLUSIONS

IPT administered to HEU infants without known TB exposure did not significantly impact growth outcomes in the first two years of life.

ACKNOWLEDGEMENT:





