Risk Factors of Stunting

Jade Benjamin-Chung, Andrew N. Mertens, Esther Chung, Jeremy Coyle, Oleg Sofrygin, Nima Hejazi, Ivana Malenica, Alan E. Hubbard, Mark J. van der Laan, John M. Colford, Jr., Benjamin F. Arnold

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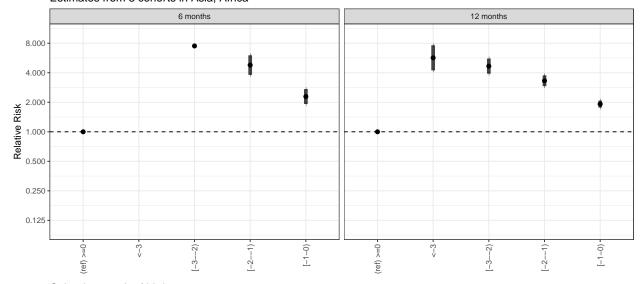
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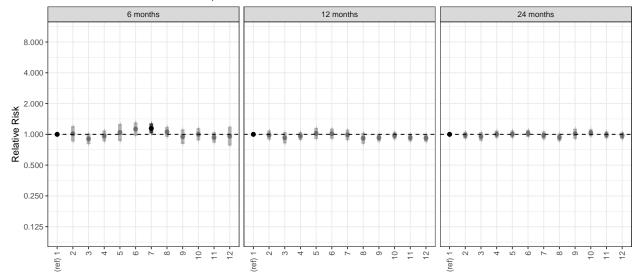
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Child characteristics

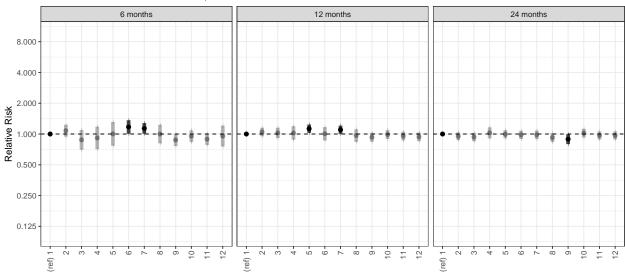
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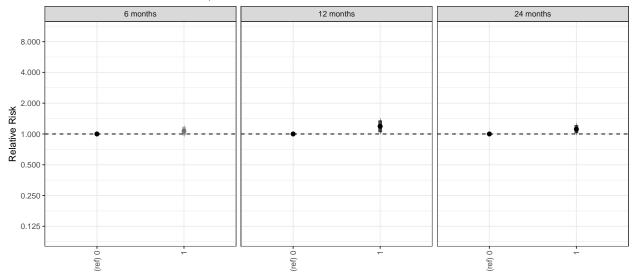
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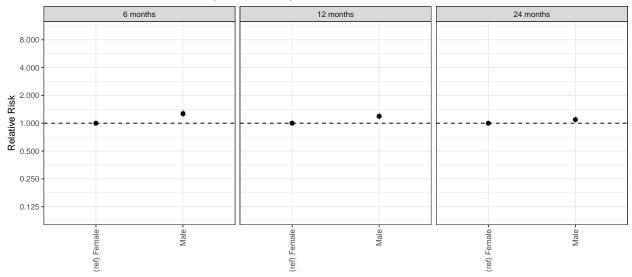
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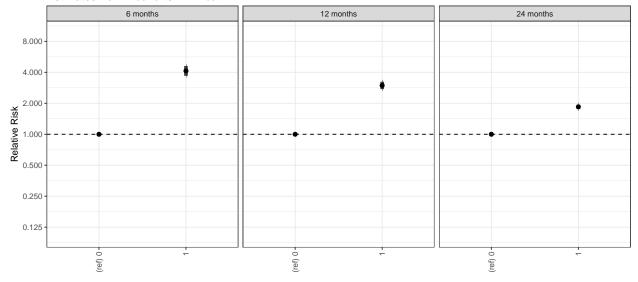
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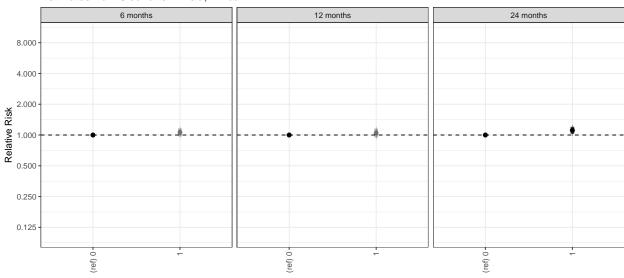
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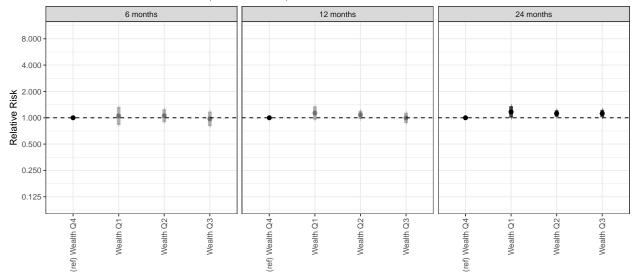


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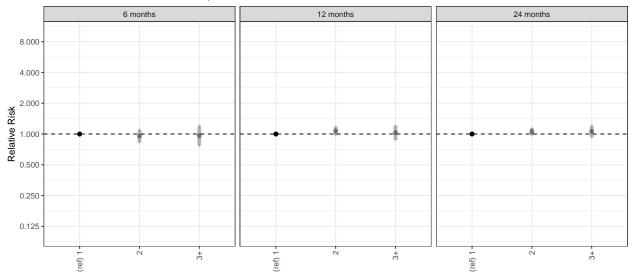


Household characteristics

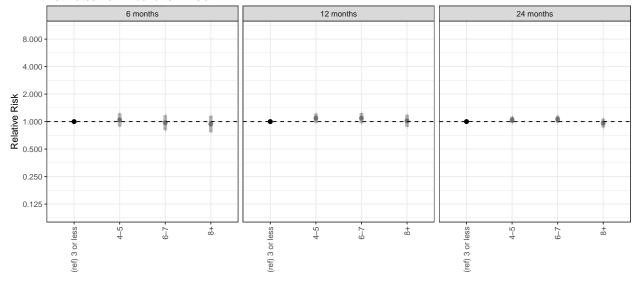
Asset based wealth index Estimates from 9 cohorts in Asia, Latin America, Africa



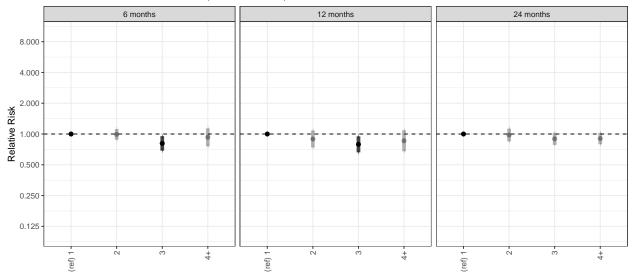
Number of children in the household under 5 years Estimates from 3 cohorts in Asia, Africa



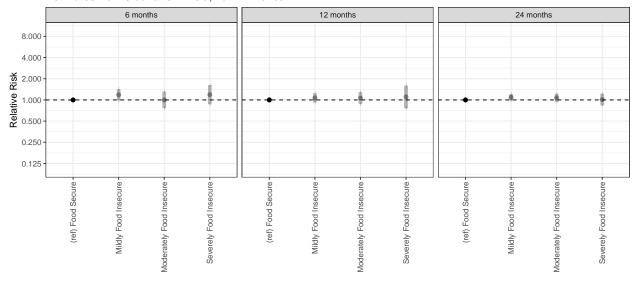
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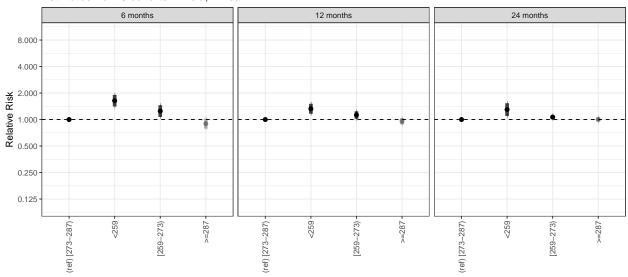


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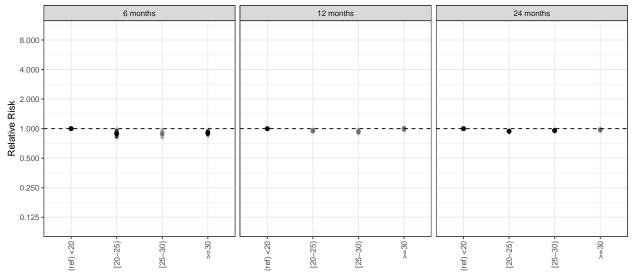


Maternal characteristics

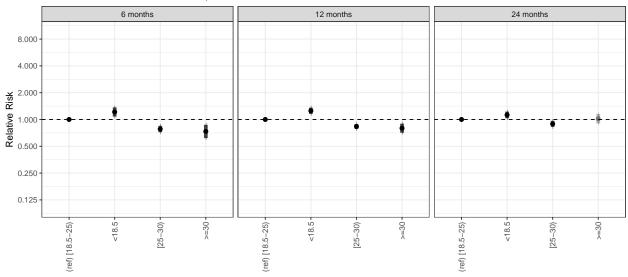
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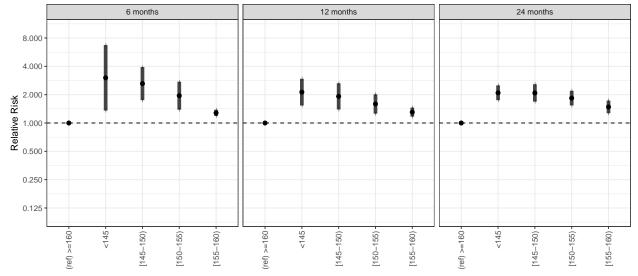
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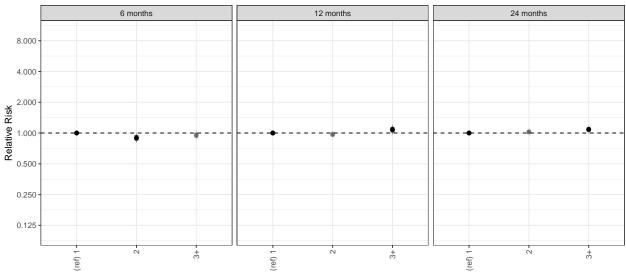
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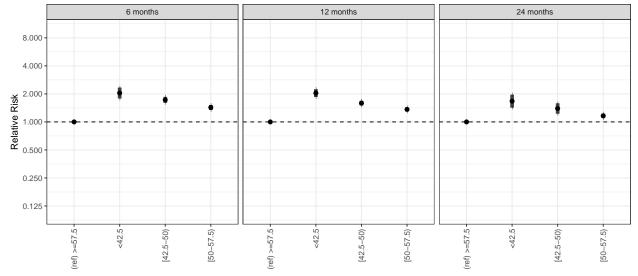
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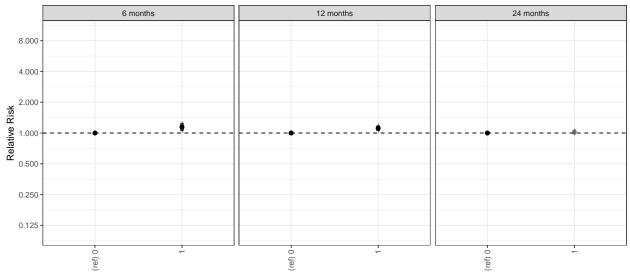
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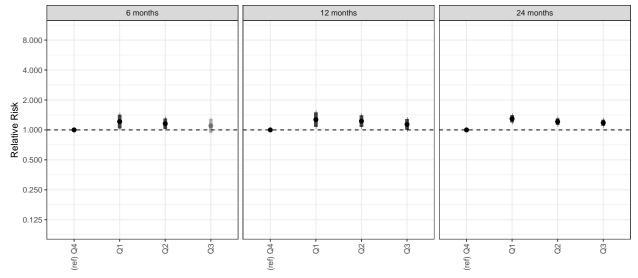
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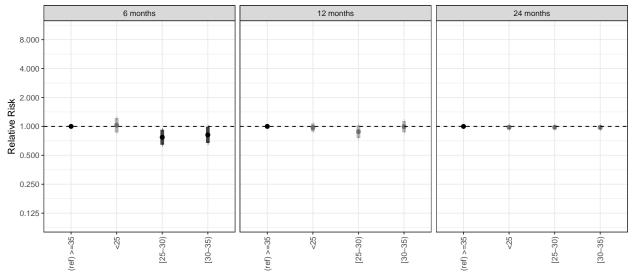


Mother's education Estimates from 14 cohorts in Asia, Latin America, Africa

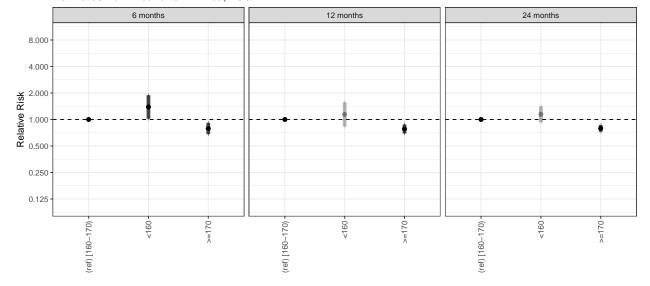


Paternal characteristics

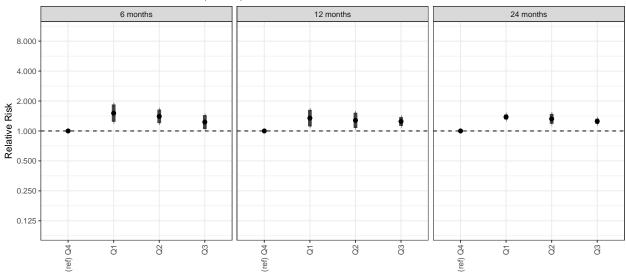
Father age Estimates from 3 cohorts in Latin America, Asia, Africa



Father height Estimates from 2 cohorts in Africa, Asia



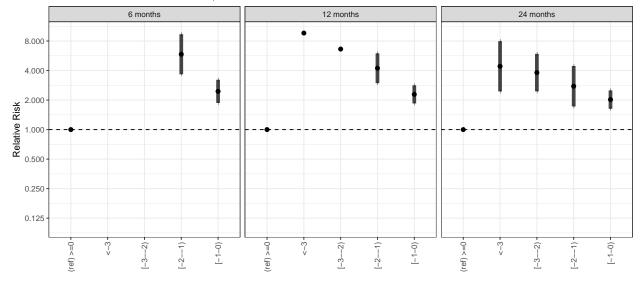
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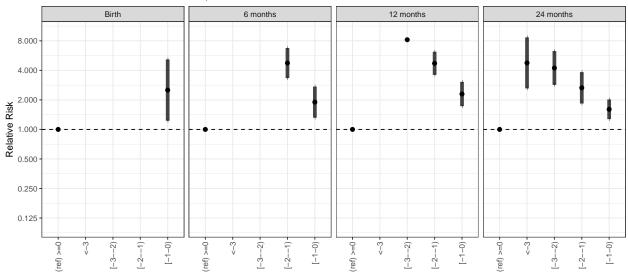
Point prevalence of severe stunting

Child characteristics

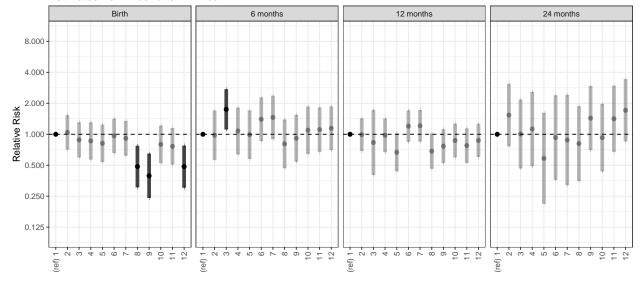
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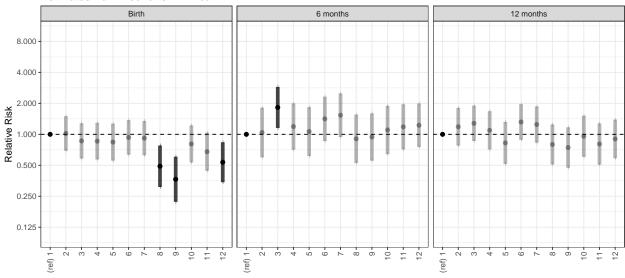
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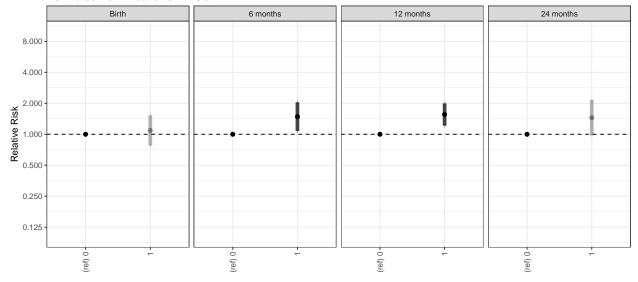
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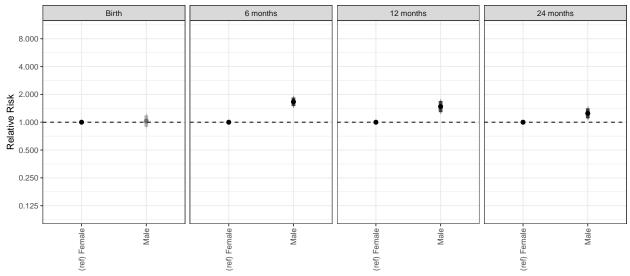
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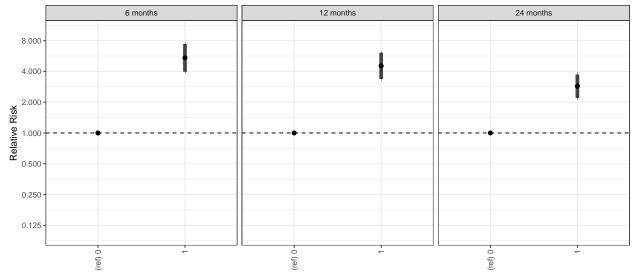
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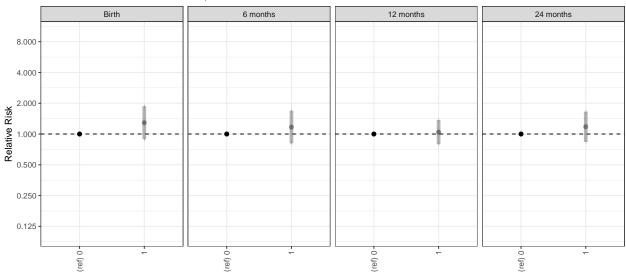
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Stunted at enrollment Estimates from 8 cohorts in Asia, Latin America, Africa

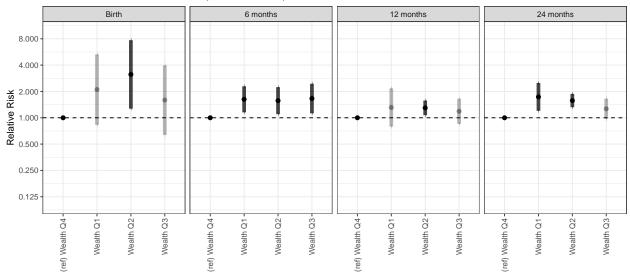


Vaginal delivery Estimates from 4 cohorts in Asia, Africa

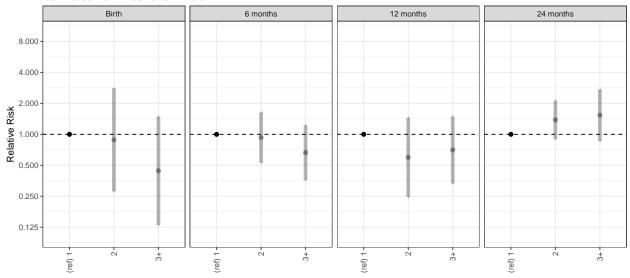


Household characteristics

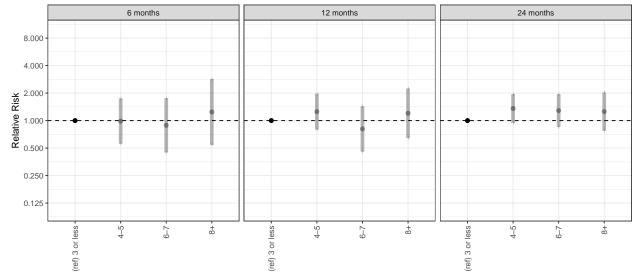
Asset based wealth index Estimates from 6 cohorts in Asia, Latin America, Africa



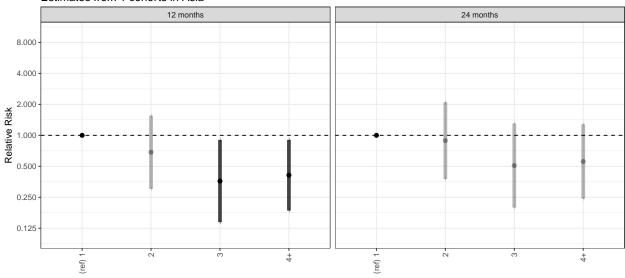
Number of children in the household under 5 years Estimates from 1 cohorts in Asia



Number of people in the household Estimates from 1 cohorts in Africa

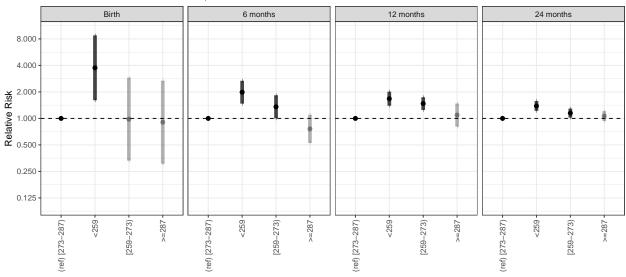


Number of rooms in household Estimates from 1 cohorts in Asia

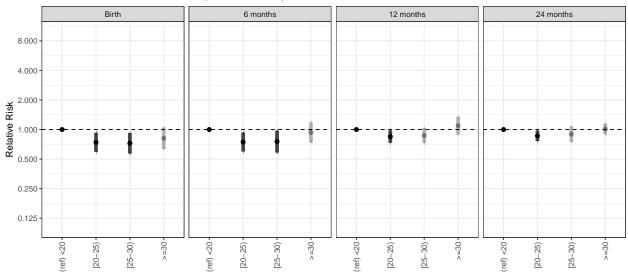


Maternal characteristics

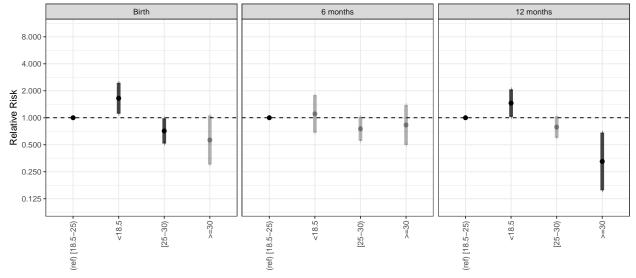
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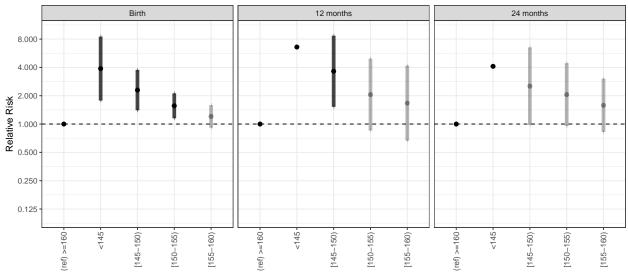
Maternal age Estimates from 9 cohorts in Asia, Latin America, Africa



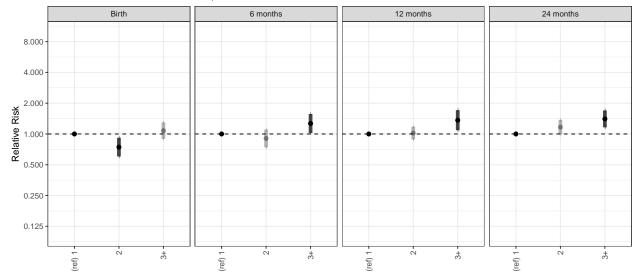
Maternal BMI Estimates from 1 cohorts in Africa



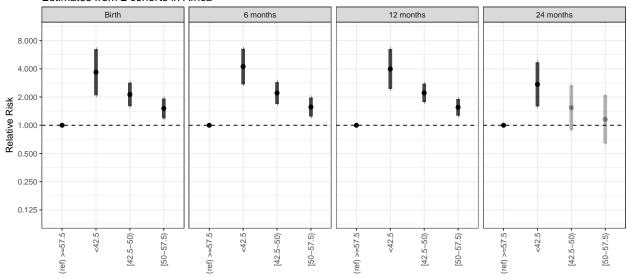
Maternal height Estimates from 3 cohorts in Asia, Latin America



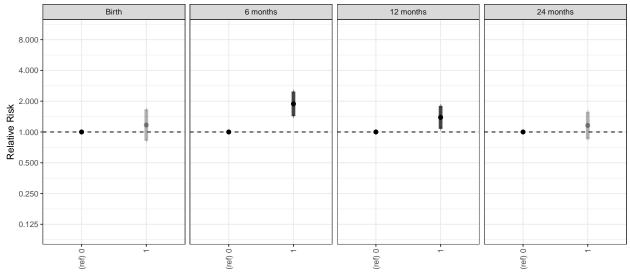
Maternal parity Estimates from 3 cohorts in Asia, Africa



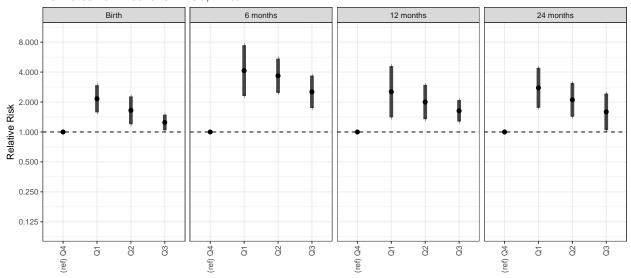
Maternal weight Estimates from 2 cohorts in Africa



Mother is unmarried Estimates from 3 cohorts in Latin America, Africa

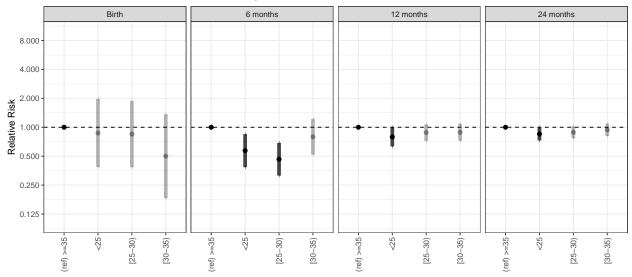


Mother's education Estimates from 4 cohorts in Asia, Africa

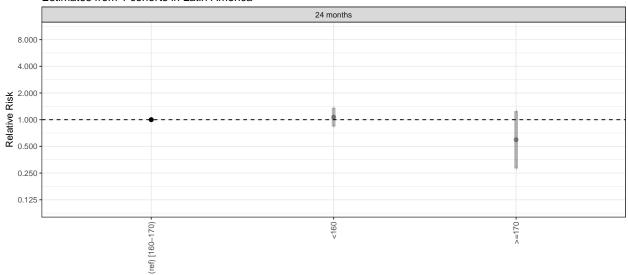


Paternal characteristics

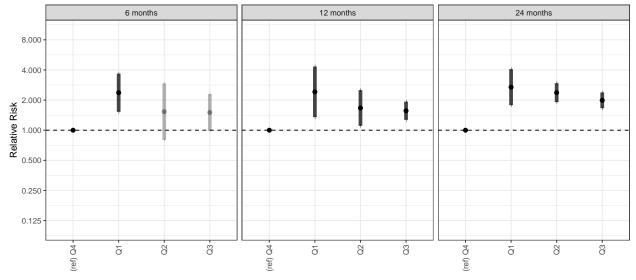
Father age Estimates from 2 cohorts in Latin America, Asia



Father height Estimates from 1 cohorts in Latin America



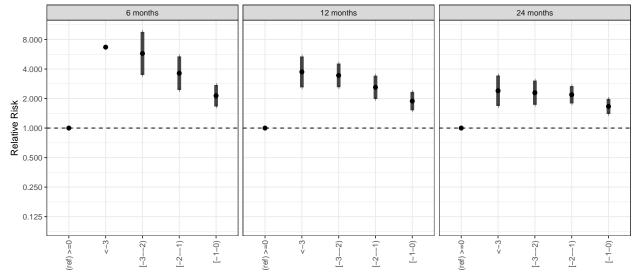
Father's education Estimates from 2 cohorts in Asia



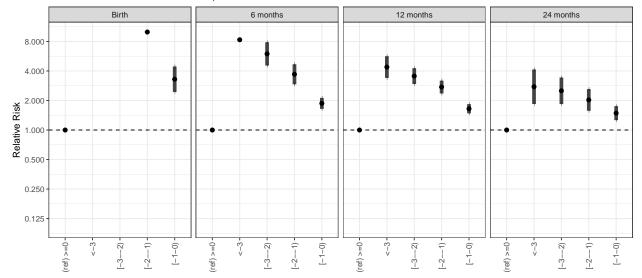
Point prevalence of stunting

Child characteristics

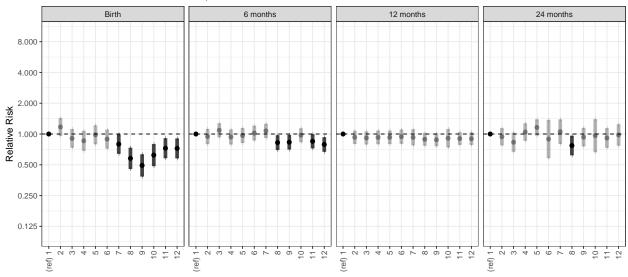
Birth length Estimates from 4 cohorts in Asia, Africa



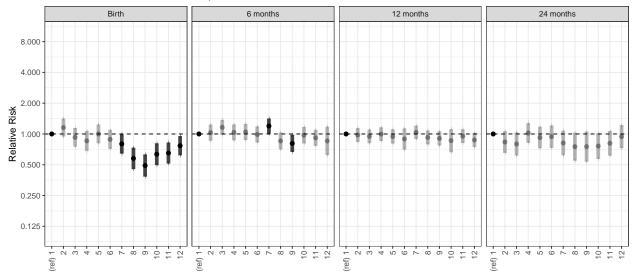
Birthweight Estimates from 2 cohorts in Asia, Africa



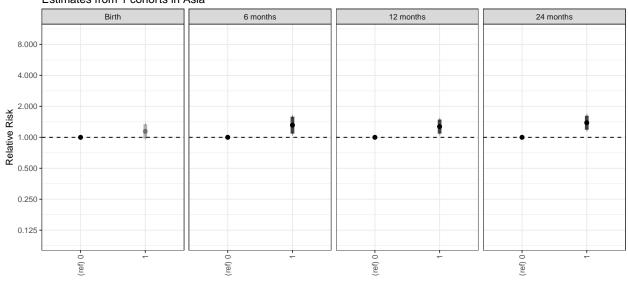
Calendar month of birth Estimates from 7 cohorts in Asia, Africa



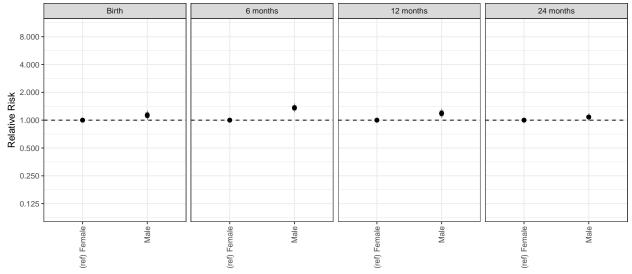
Calendar month of measurement Estimates from 6 cohorts in Asia, Africa



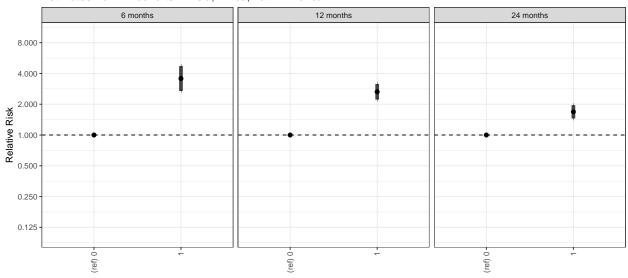
Child delivered at home Estimates from 1 cohorts in Asia



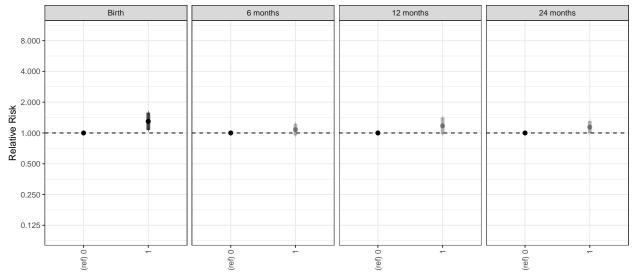
Child's sex Estimates from 14 cohorts in Asia, Latin America, Africa



Stunted at enrollment Estimates from 14 cohorts in Asia, Africa, Latin America

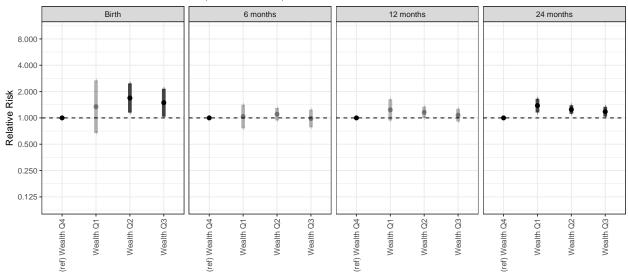


Vaginal delivery Estimates from 6 cohorts in Asia, Africa

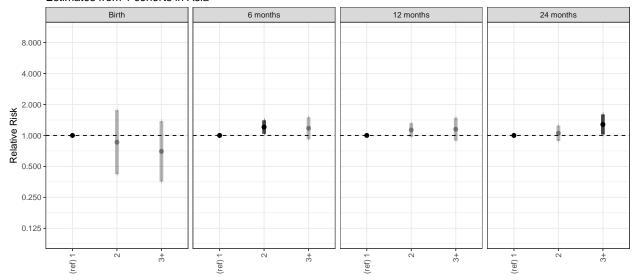


Household characteristics

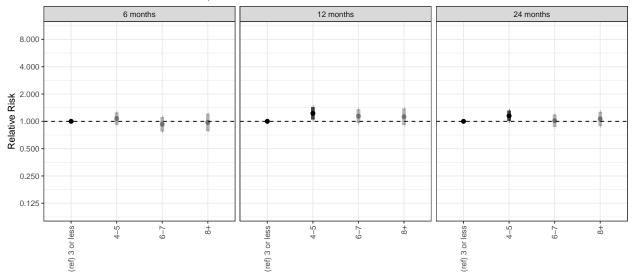
Asset based wealth index Estimates from 8 cohorts in Asia, Latin America, Africa



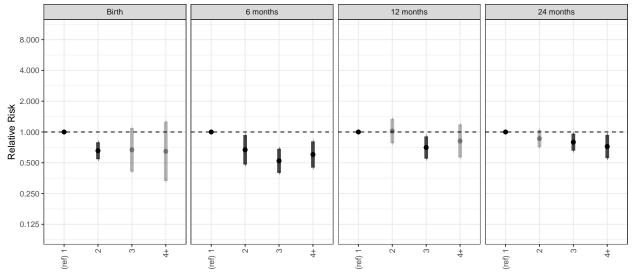
Number of children in the household under 5 years Estimates from 1 cohorts in Asia



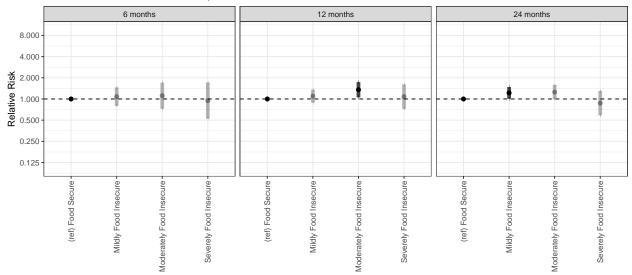
Number of people in the household Estimates from 5 cohorts in Asia, Africa



Number of rooms in household Estimates from 8 cohorts in Asia, Latin America, Africa

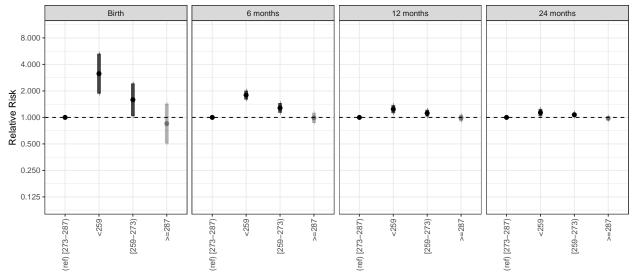


USAID Household Food Insecurity Access Scale (HFIAS) category Estimates from 3 cohorts in Asia, Latin America

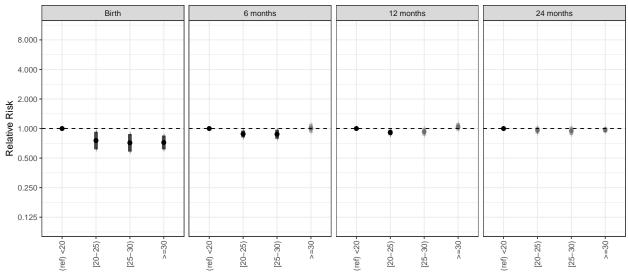


Maternal characteristics

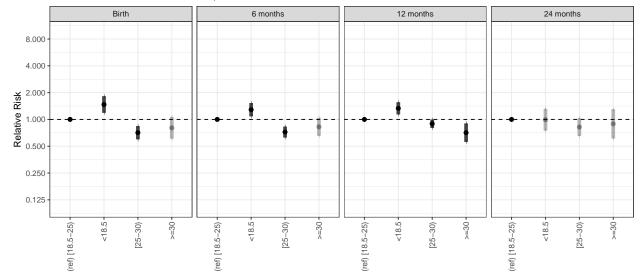
Gestational age at birth Estimates from 7 cohorts in Asia, Latin America, Africa



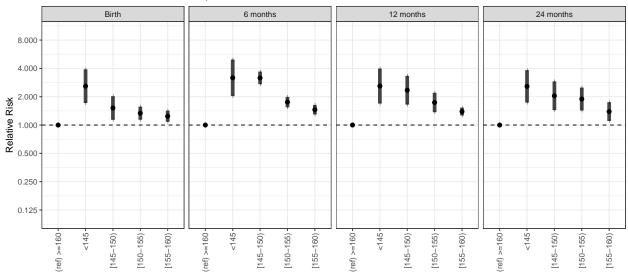
Maternal age Estimates from 17 cohorts in Asia, Latin America, Africa



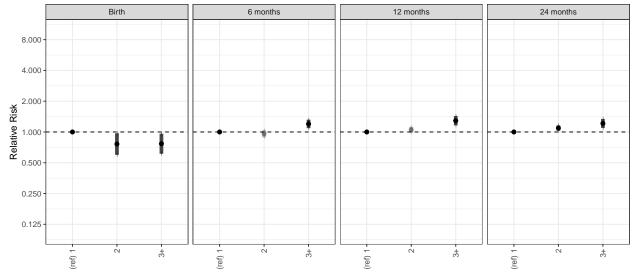
Maternal BMI Estimates from 2 cohorts in Asia, Africa



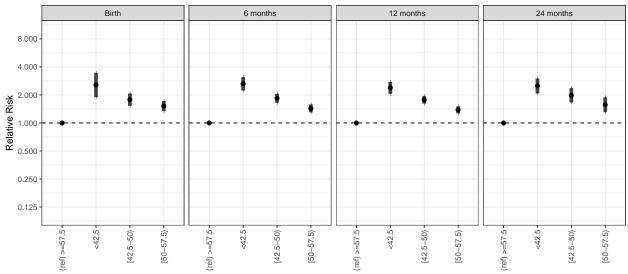
Maternal height Estimates from 2 cohorts in Asia, Africa



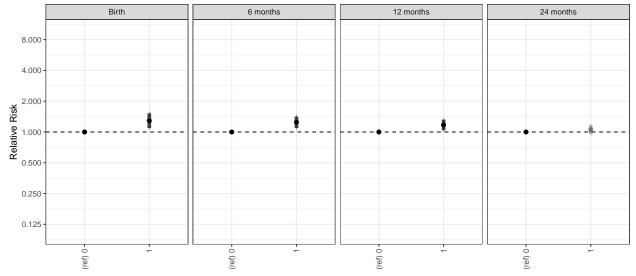
Maternal parity Estimates from 4 cohorts in Asia, Africa



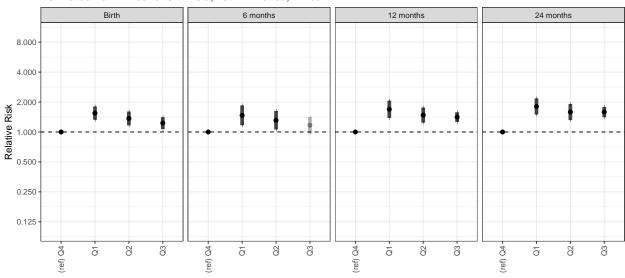
Maternal weight Estimates from 7 cohorts in Africa, Asia, Latin America



Mother is unmarried Estimates from 7 cohorts in Latin America, Asia, Africa

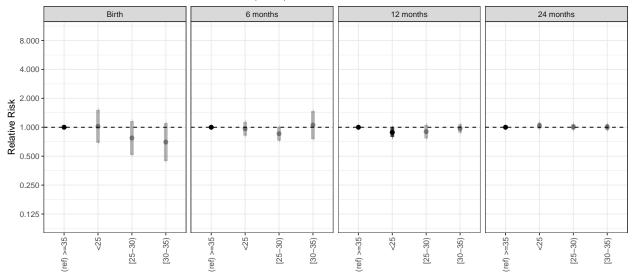


Mother's education Estimates from 11 cohorts in Asia, Latin America, Africa

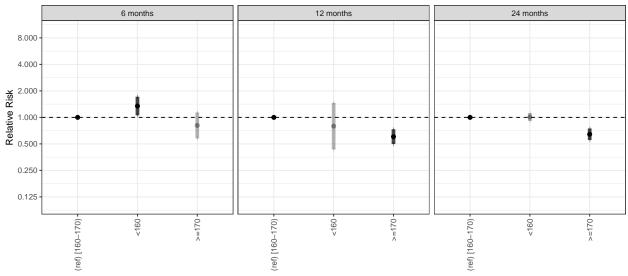


Paternal characteristics

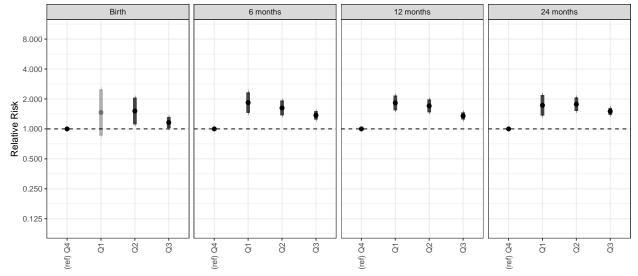
Father age Estimates from 4 cohorts in Latin America, Asia, Africa



Father height Estimates from 3 cohorts in Latin America, Africa, Asia



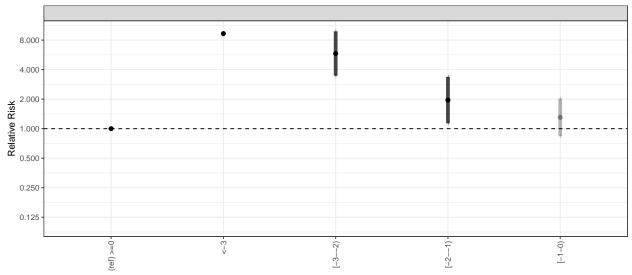
Father's education Estimates from 3 cohorts in Asia, Africa



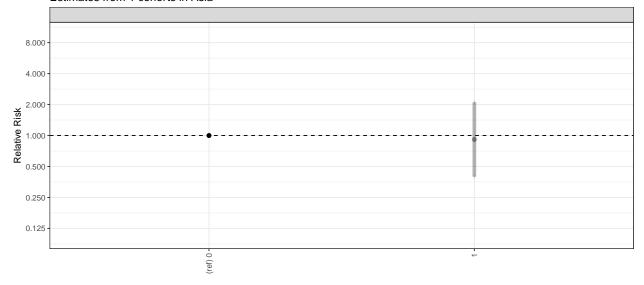
Proportion of children who were stunted between birth and 3 months who recovered by 24 months

Child characteristics

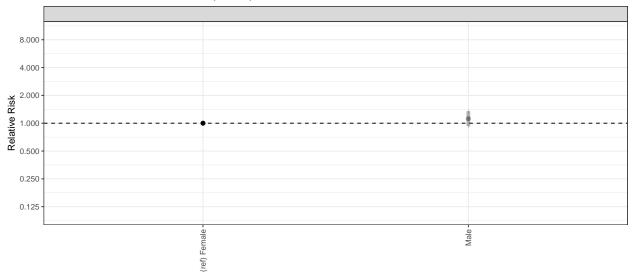




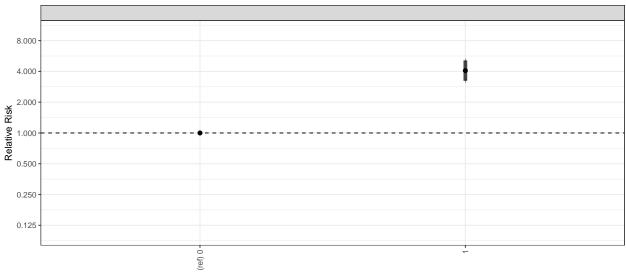
Child delivered at home Estimates from 1 cohorts in Asia

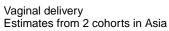


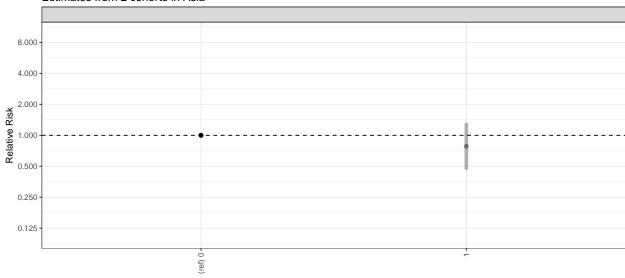
Child's sex
Estimates from 11 cohorts in Asia, Africa, Latin America



Stunted at enrollment Estimates from 5 cohorts in Asia, Africa, Latin America

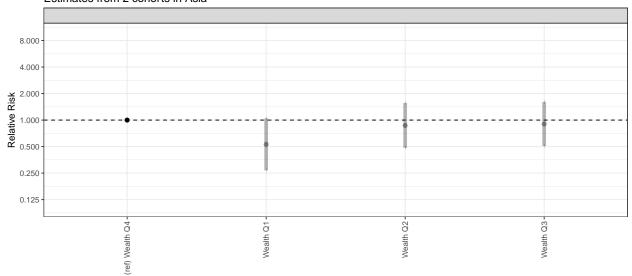




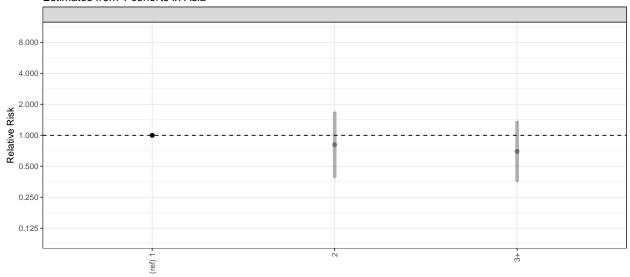


Household characteristics

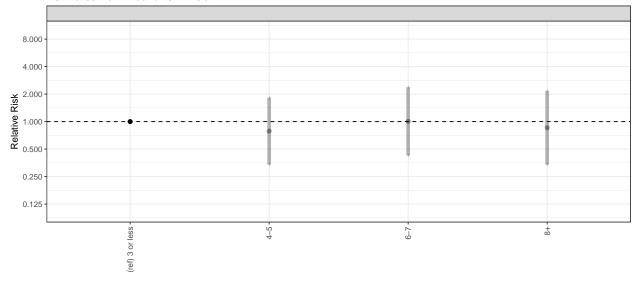
Asset based wealth index Estimates from 2 cohorts in Asia



Number of children in the household under 5 years Estimates from 1 cohorts in Asia

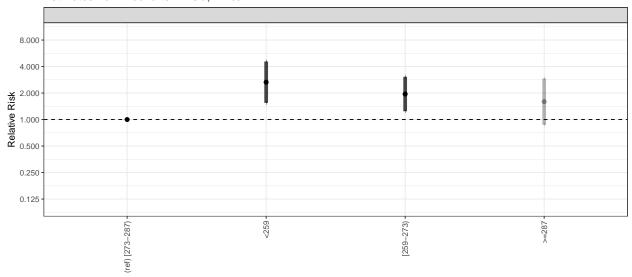


Number of people in the household Estimates from 1 cohorts in Asia

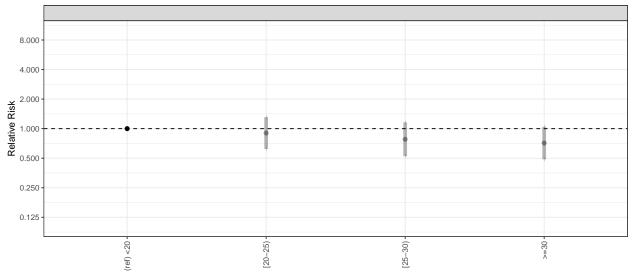


Maternal characteristics

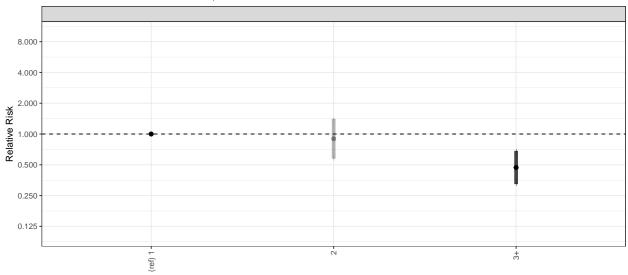
Gestational age at birth Estimates from 2 cohorts in Asia, Africa



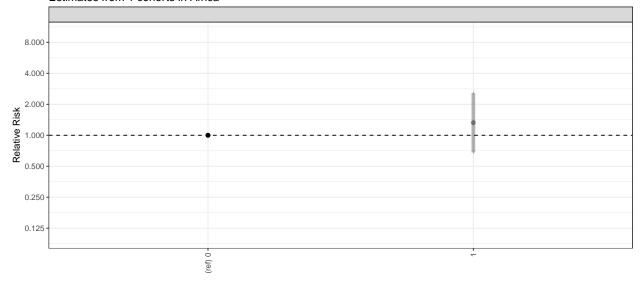
Maternal age Estimates from 3 cohorts in Africa, Latin America, Asia



Maternal parity Estimates from 2 cohorts in Africa, Asia



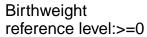
Mother is unmarried Estimates from 1 cohorts in Africa

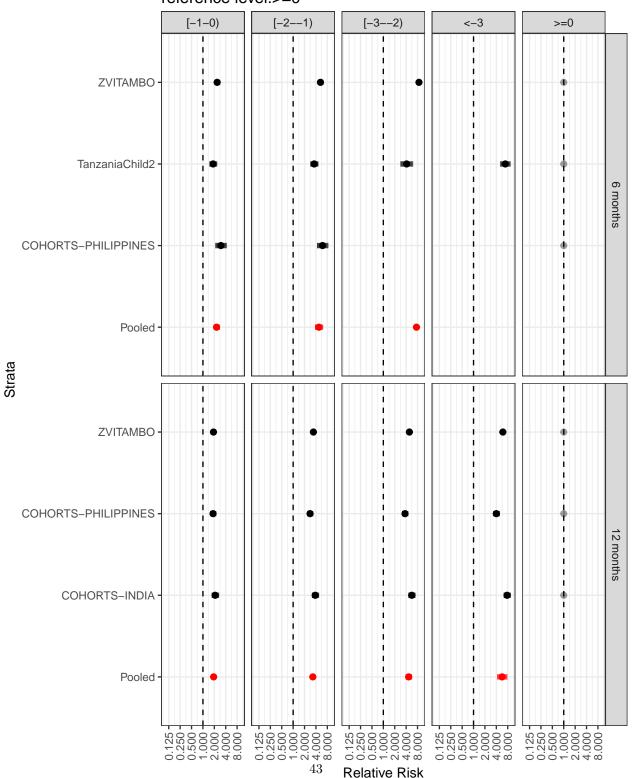


Appendix 1 - Relative Risk Forest Plots

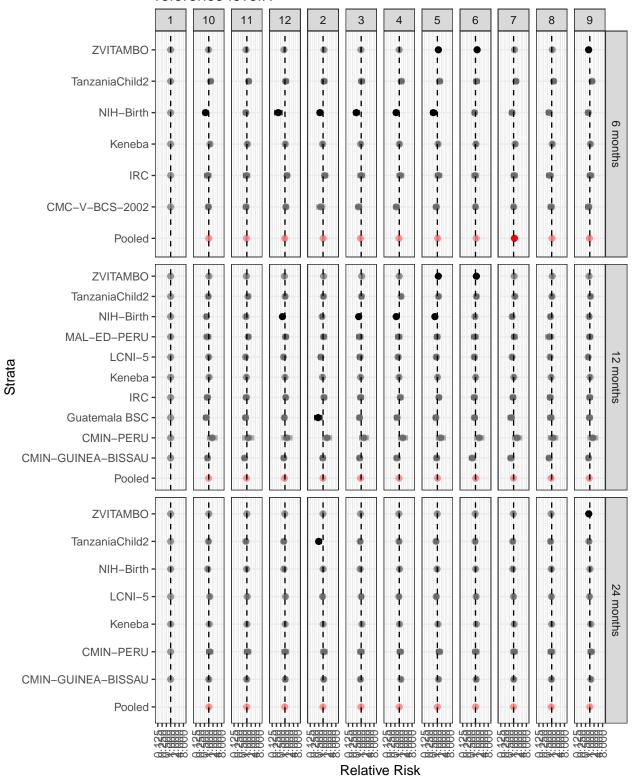
Cumulative incidence of stunting

Child characteristics

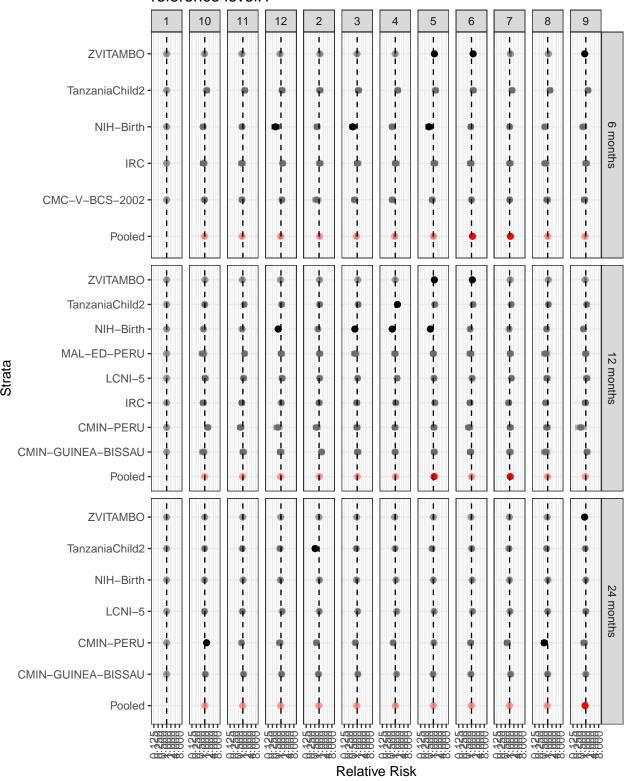




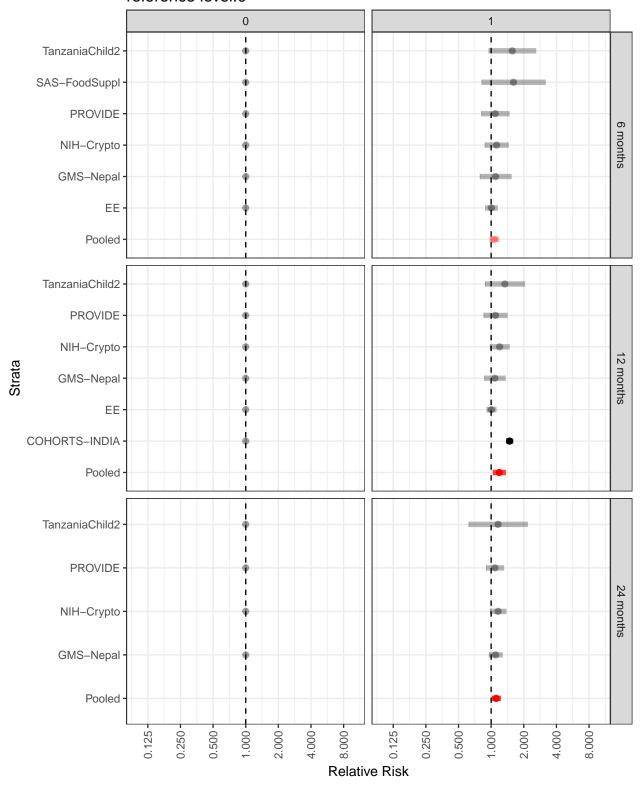
Calendar month of birth reference level:1



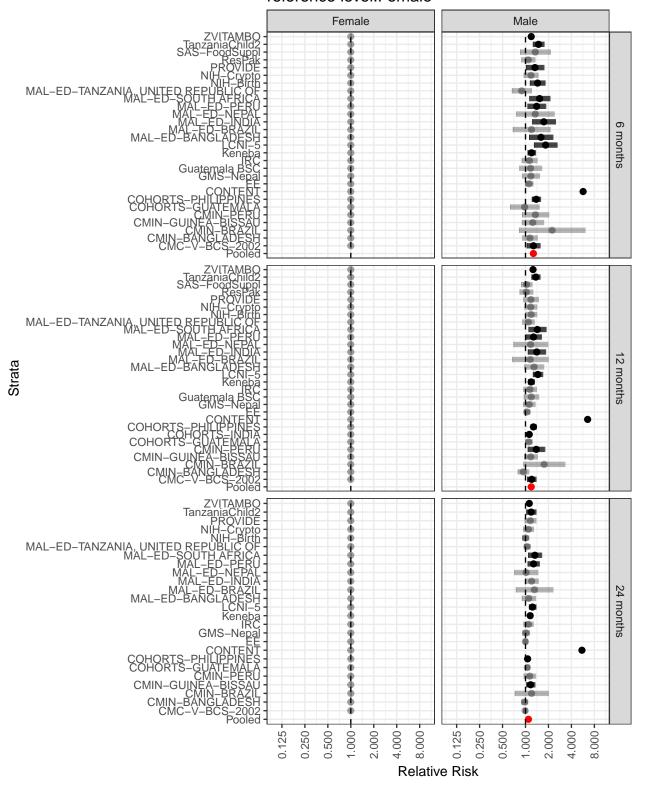
Calendar month of measurement reference level:1



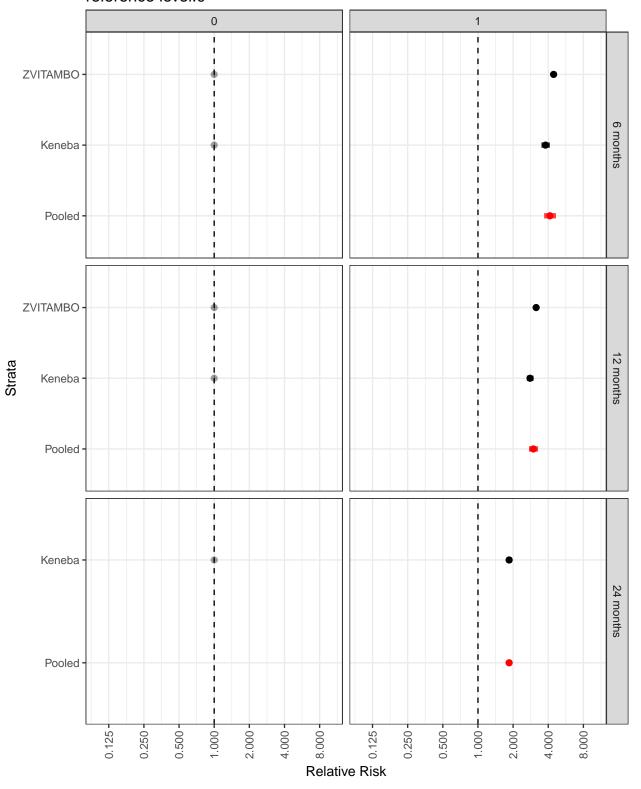
Child delivered at home reference level:0



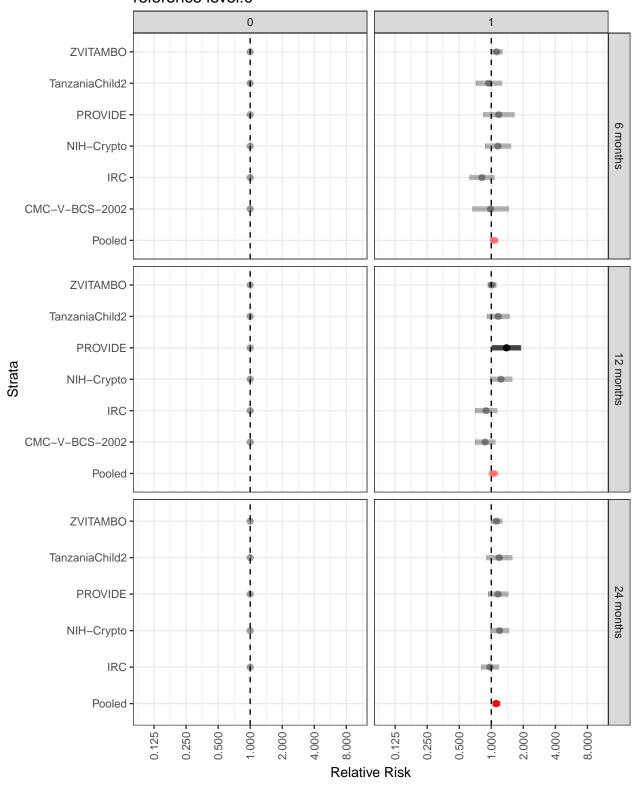
Child's sex reference level:Female



Stunted at enrollment reference level:0

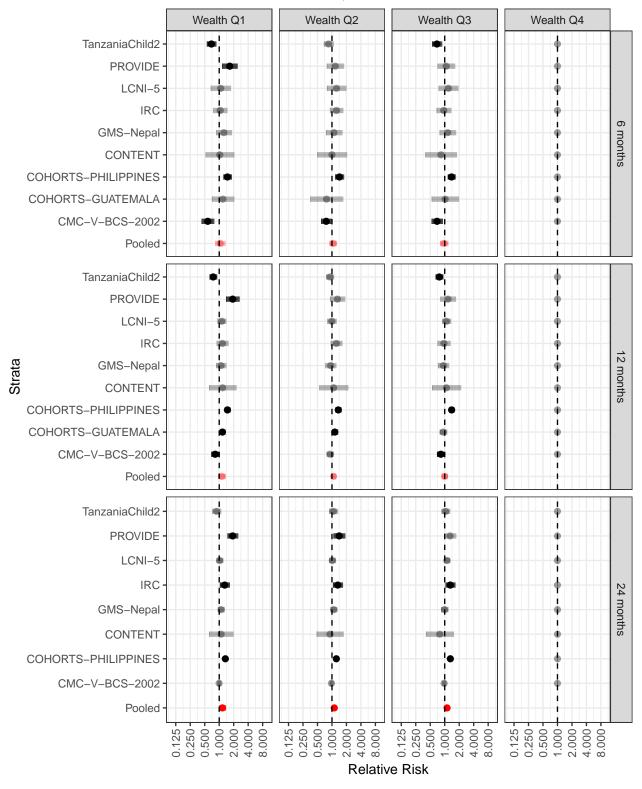


Vaginal delivery reference level:0

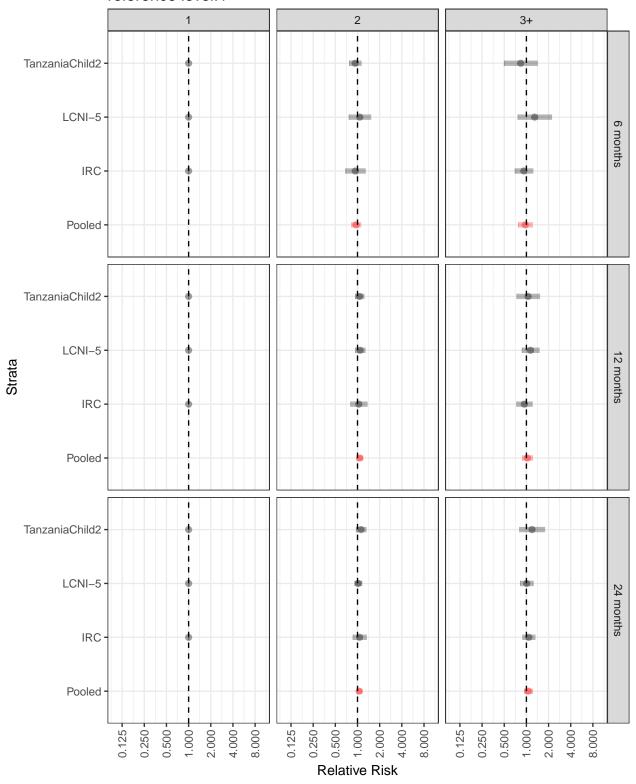


Household characteristics

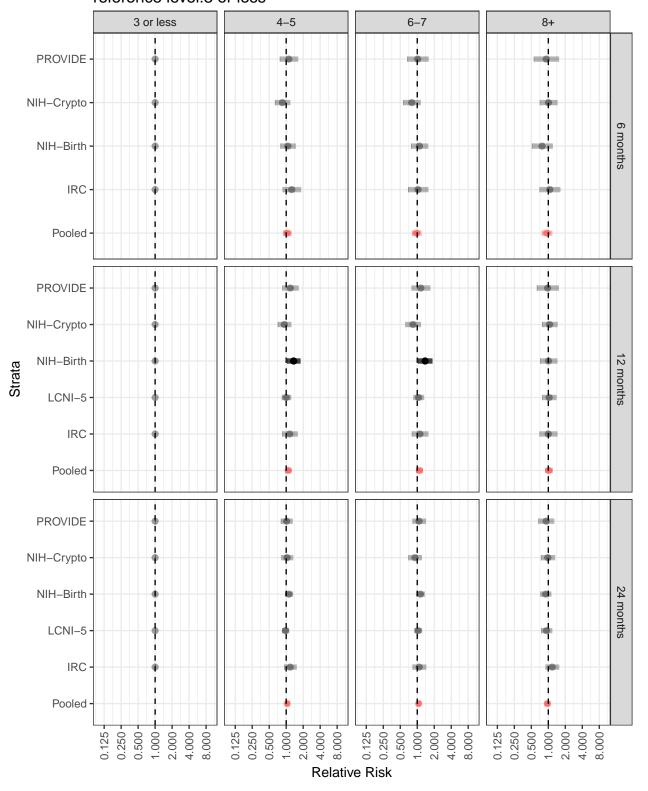
Asset based wealth index reference level: Wealth Q4



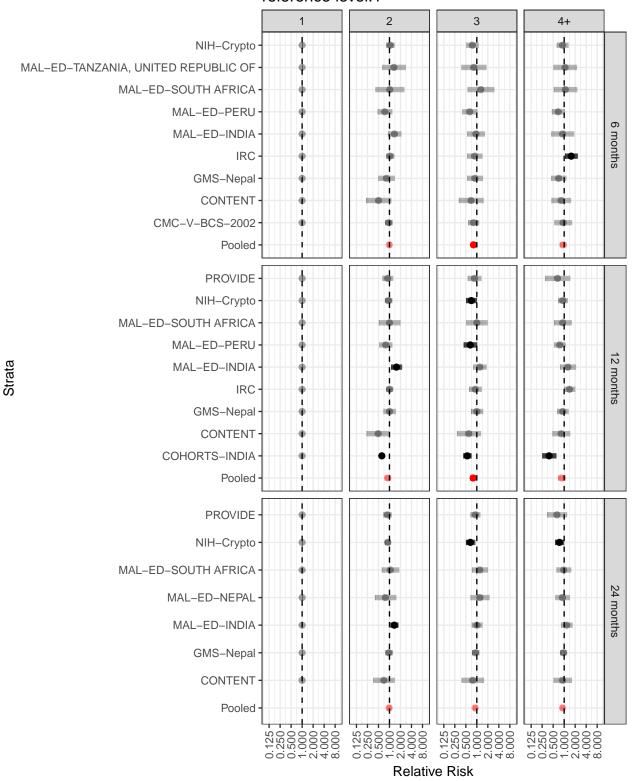
Number of children in the household under 5 years reference level:1



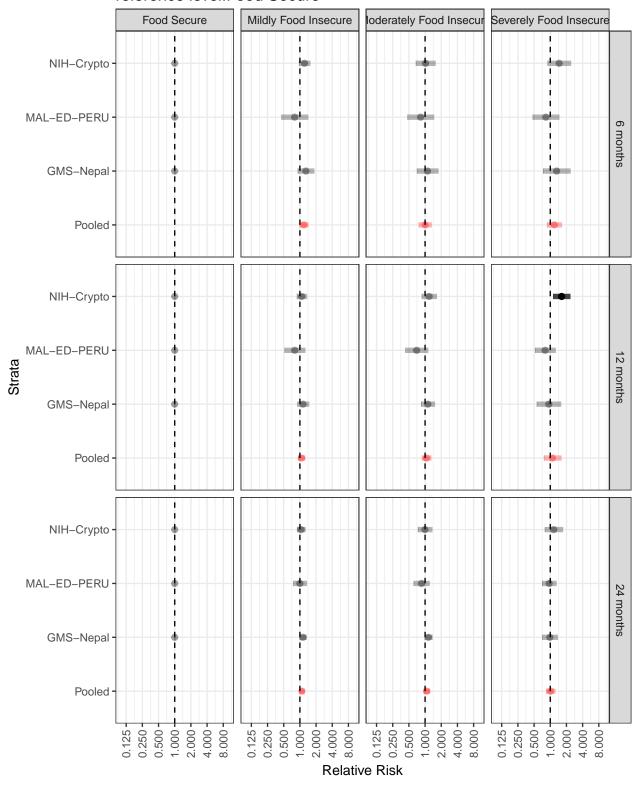
Number of people in the household reference level:3 or less



Number of rooms in household reference level:1

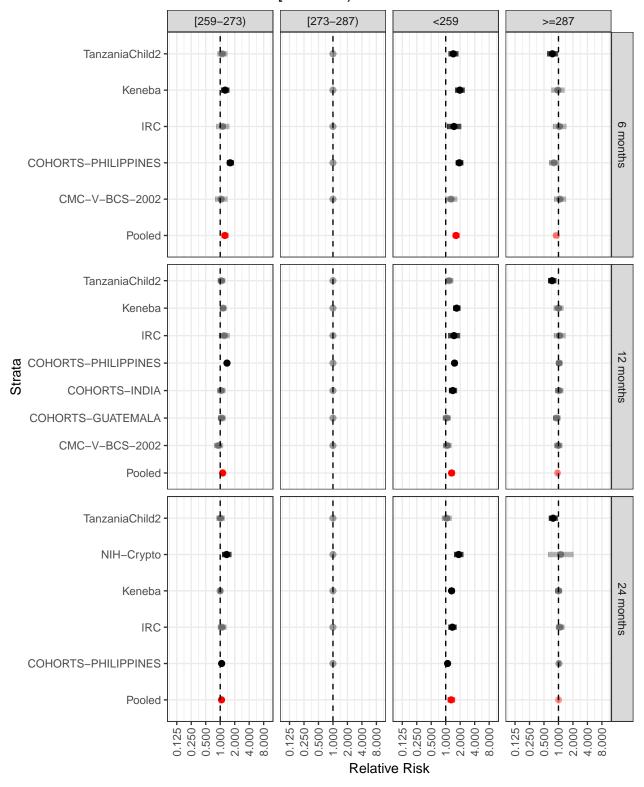


USAID Household Food Insecurity Access Scale (HFIAS) category reference level:Food Secure

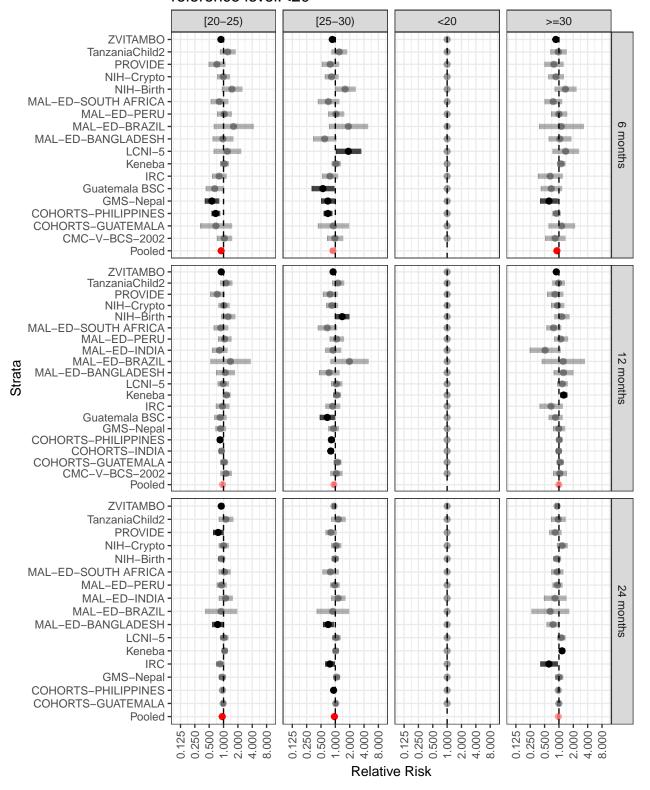


Maternal characteristics

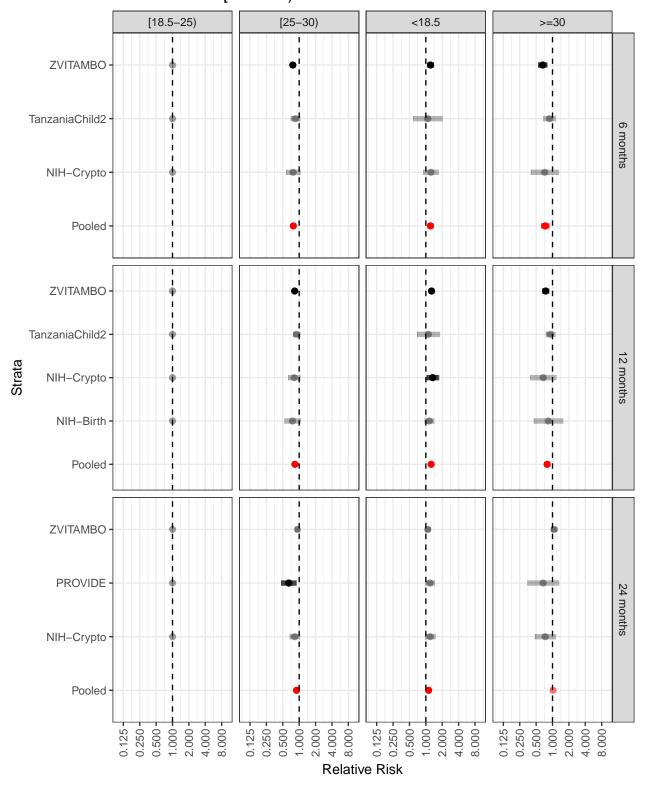
Gestational age at birth reference level:[273–287)



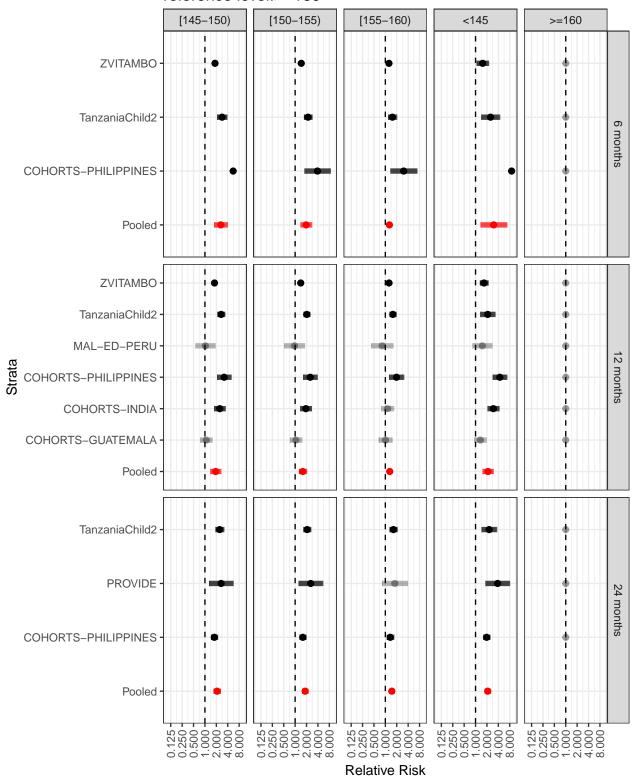
Maternal age reference level:<20



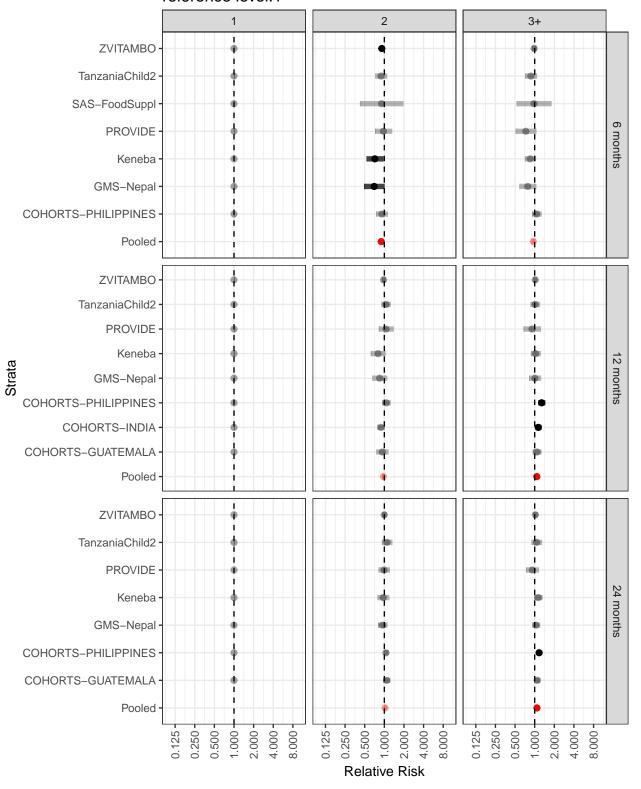
Maternal BMI reference level:[18.5–25)



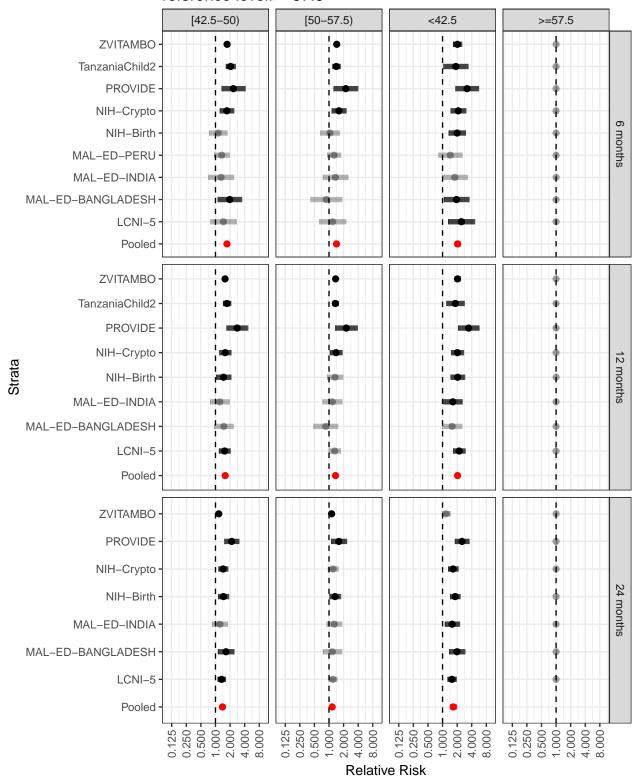
Maternal height reference level:>=160



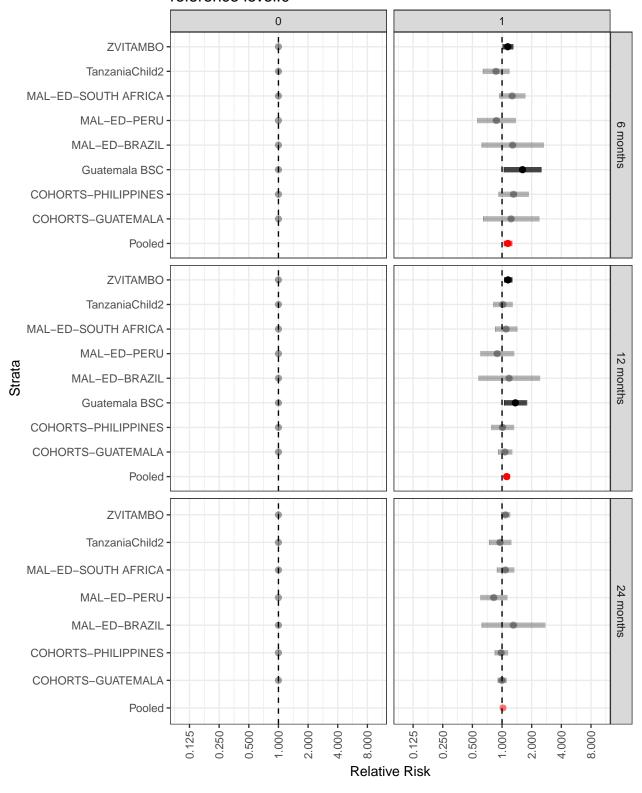
Maternal parity reference level:1



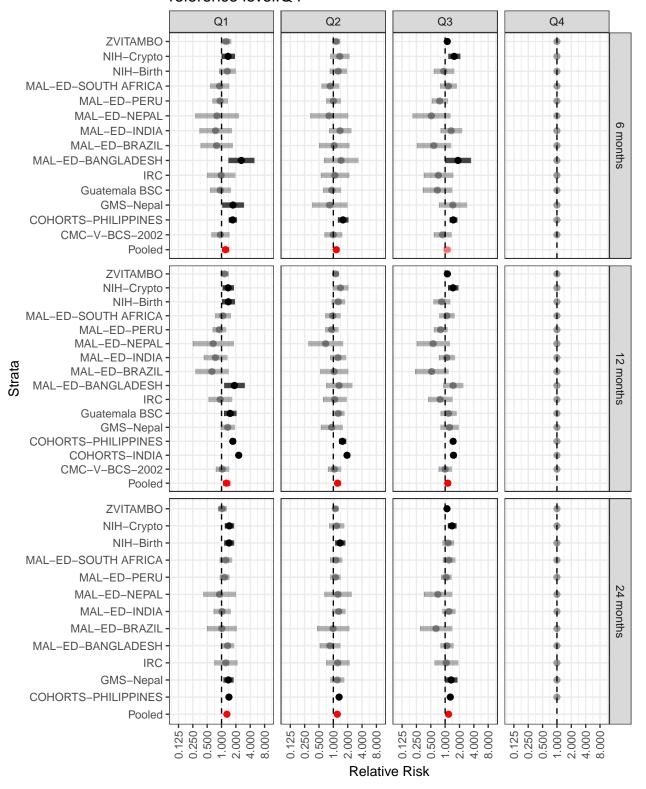
Maternal weight reference level:>=57.5



Mother is unmarried reference level:0

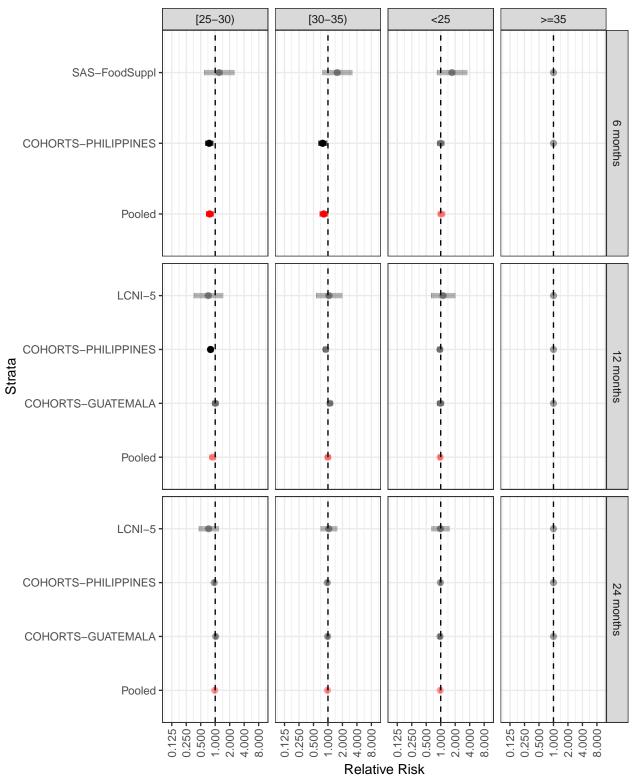


Mother's education reference level:Q4

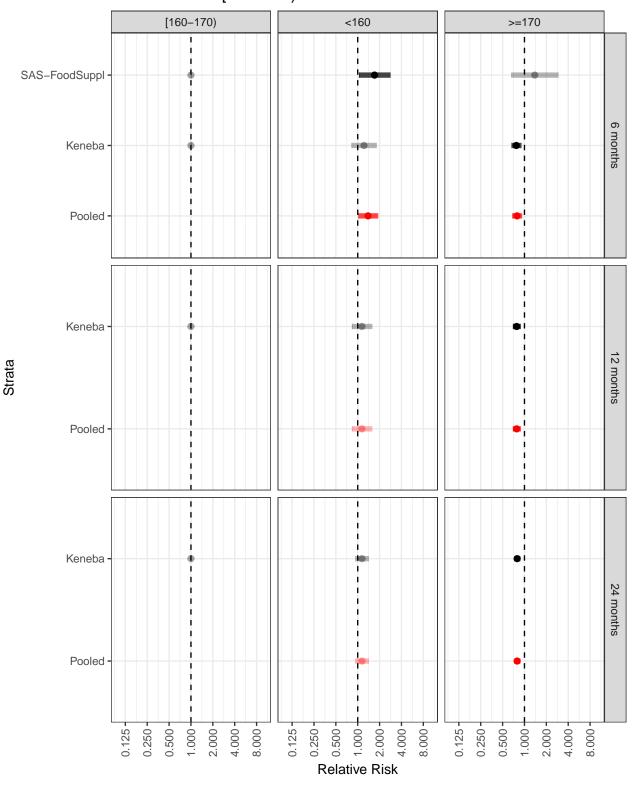


Paternal characteristics

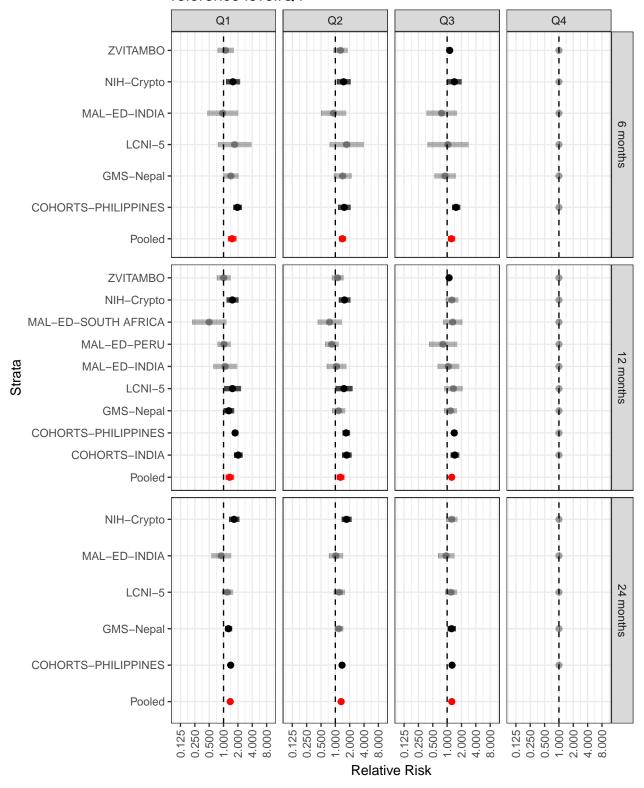
Father age reference level:>=35



Father height reference level:[160–170)

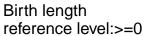


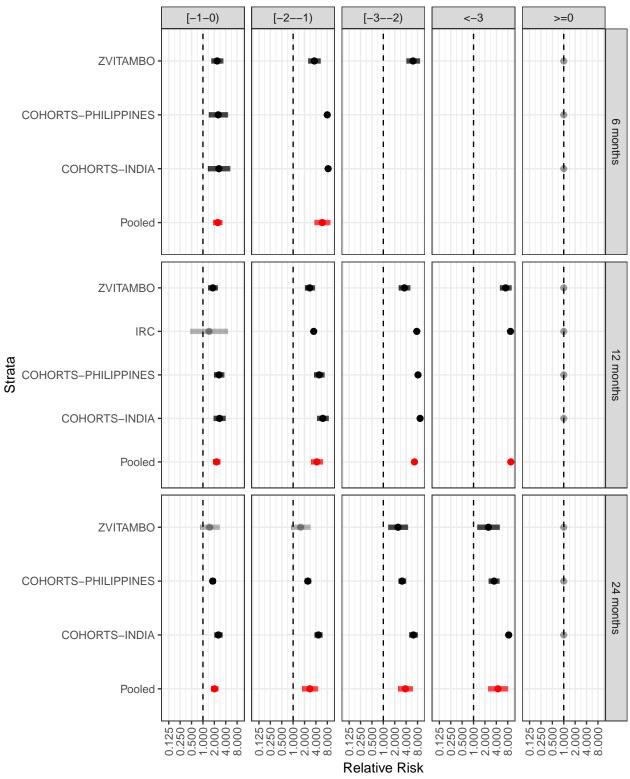
Father's education reference level:Q4

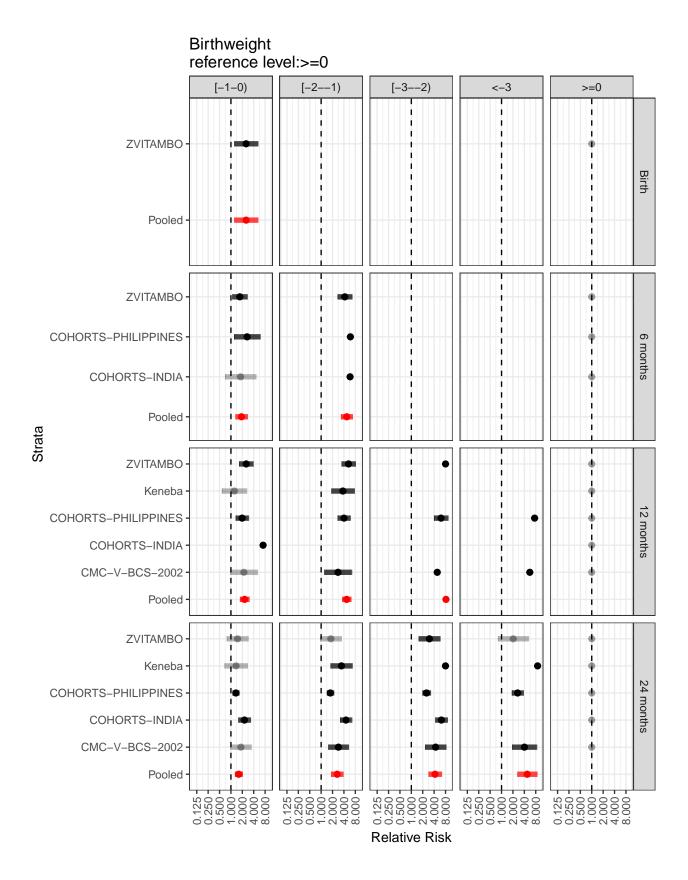


Point prevalence of severe stunting

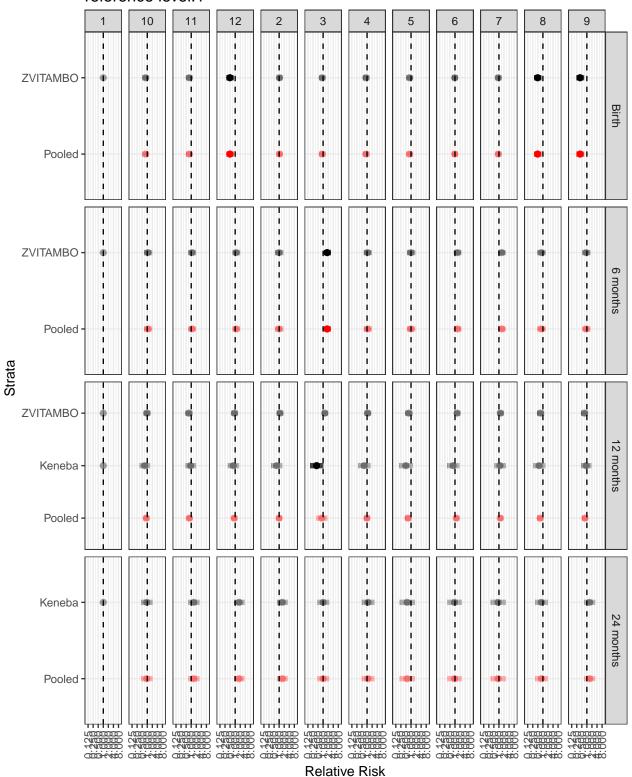
Child characteristics



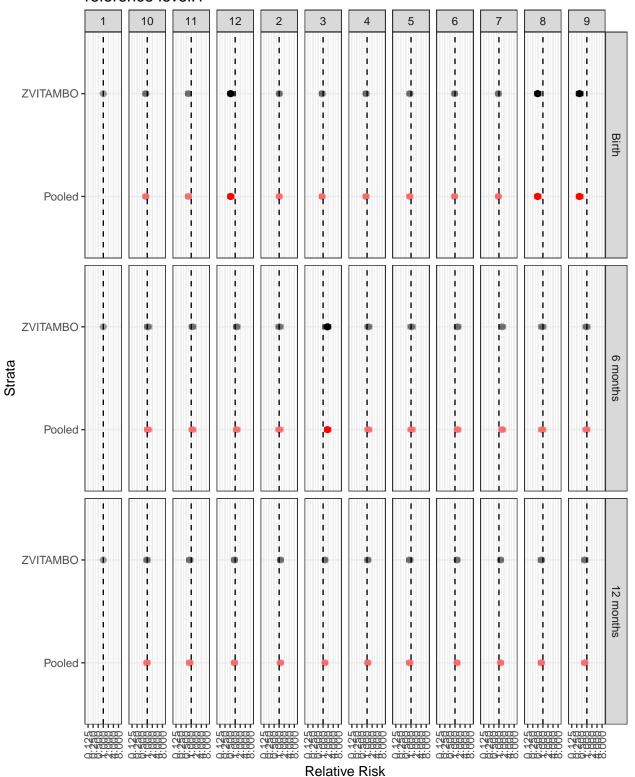




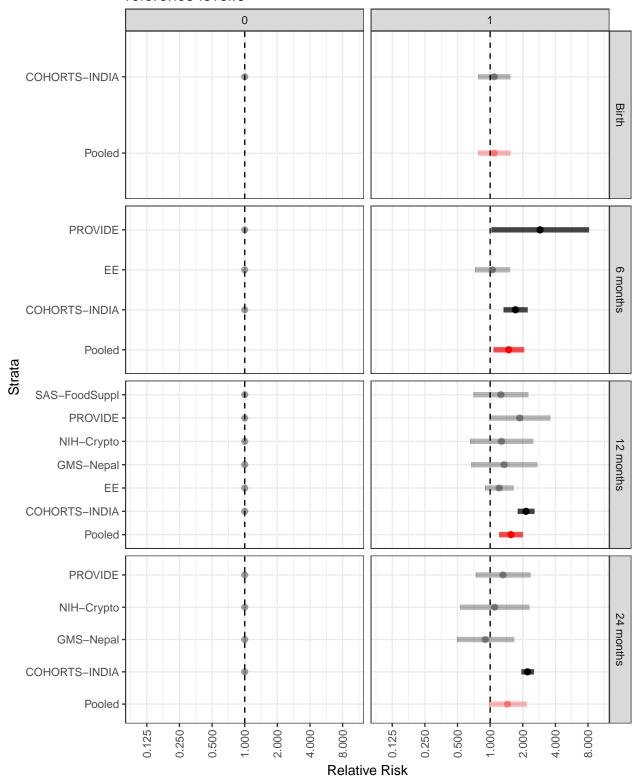
Calendar month of birth reference level:1



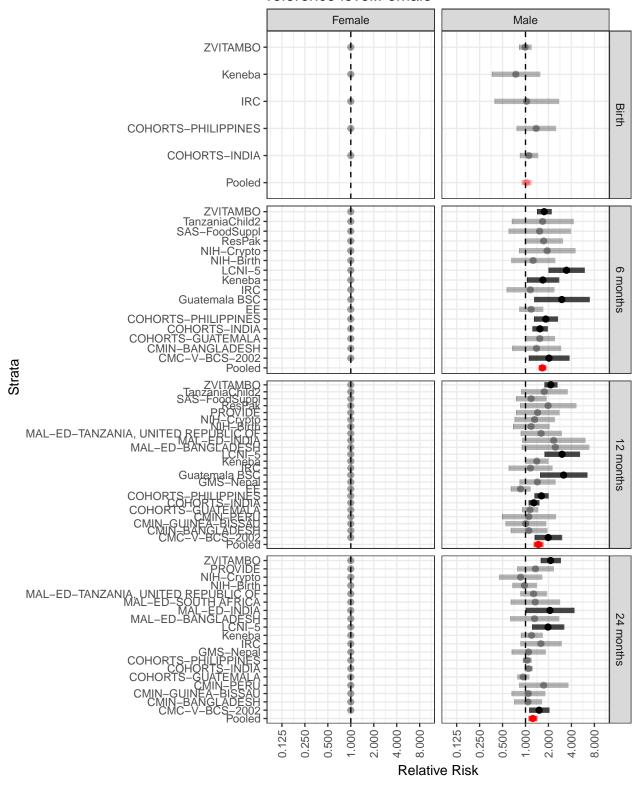
Calendar month of measurement reference level:1



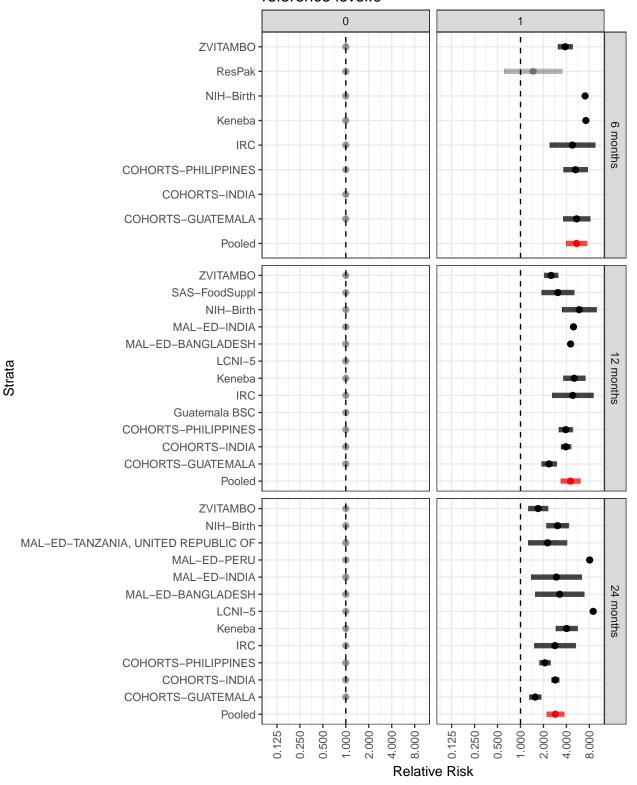
Child delivered at home reference level:0

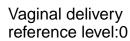


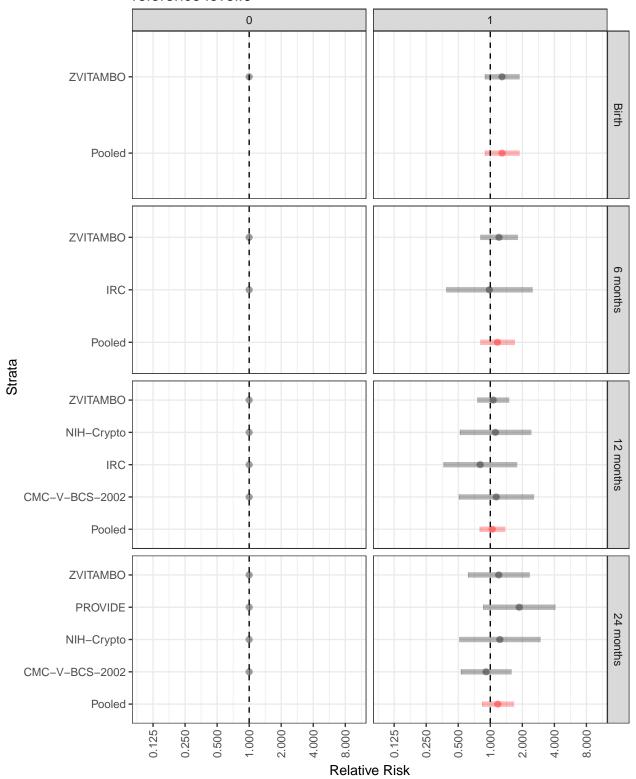
Child's sex reference level:Female



Stunted at enrollment reference level:0

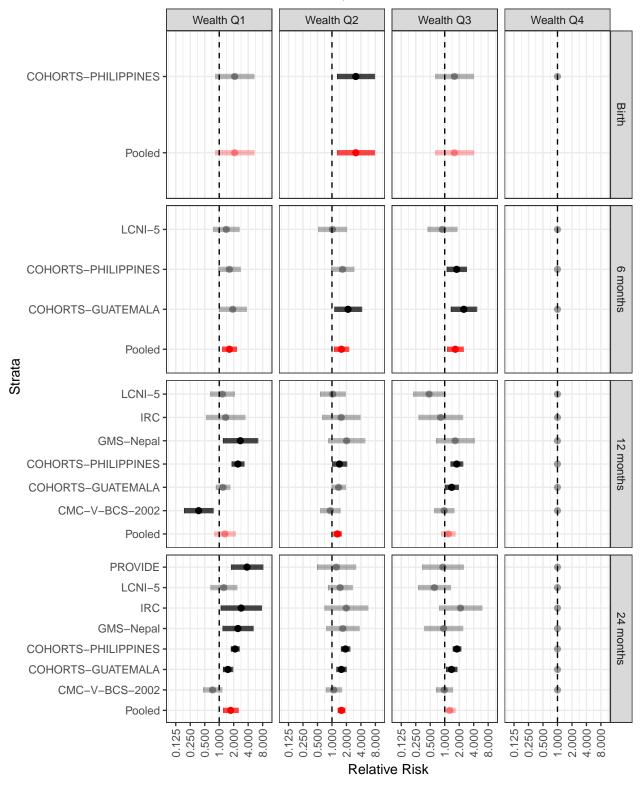




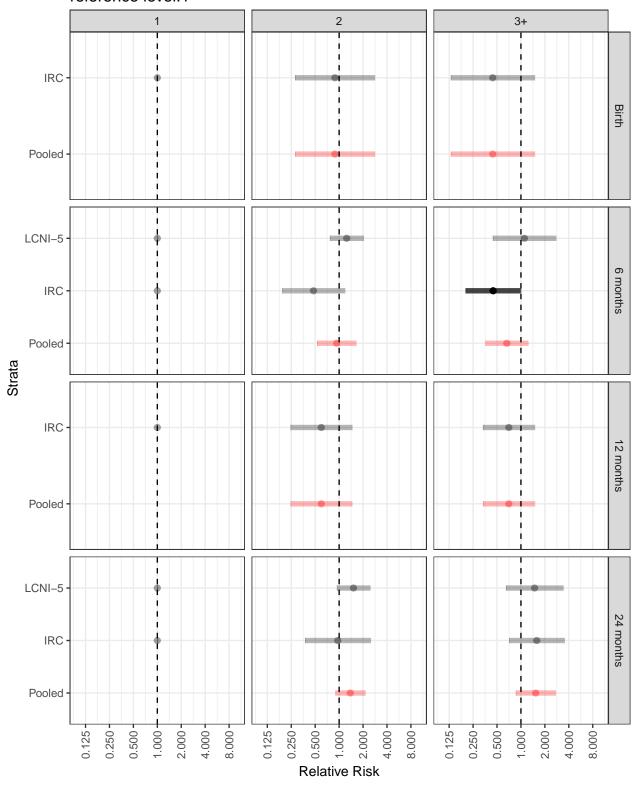


Household characteristics

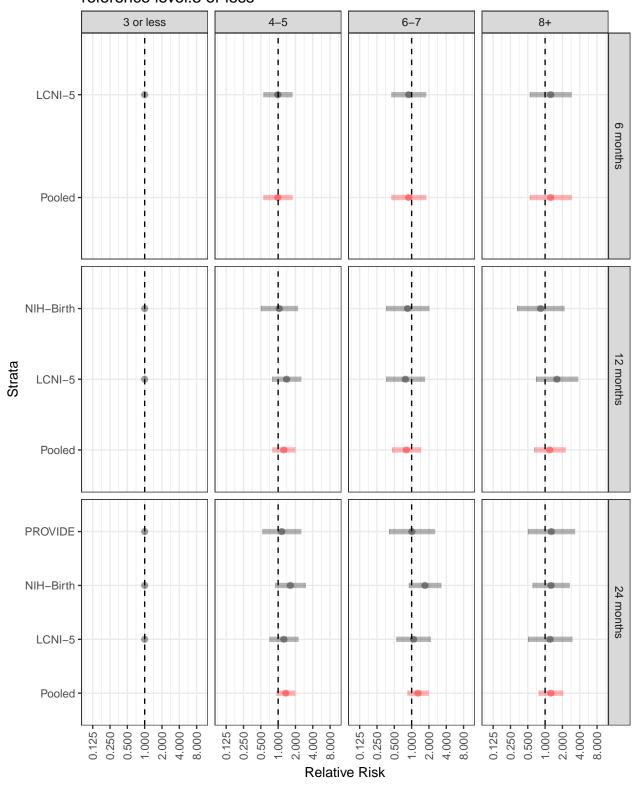
Asset based wealth index reference level: Wealth Q4



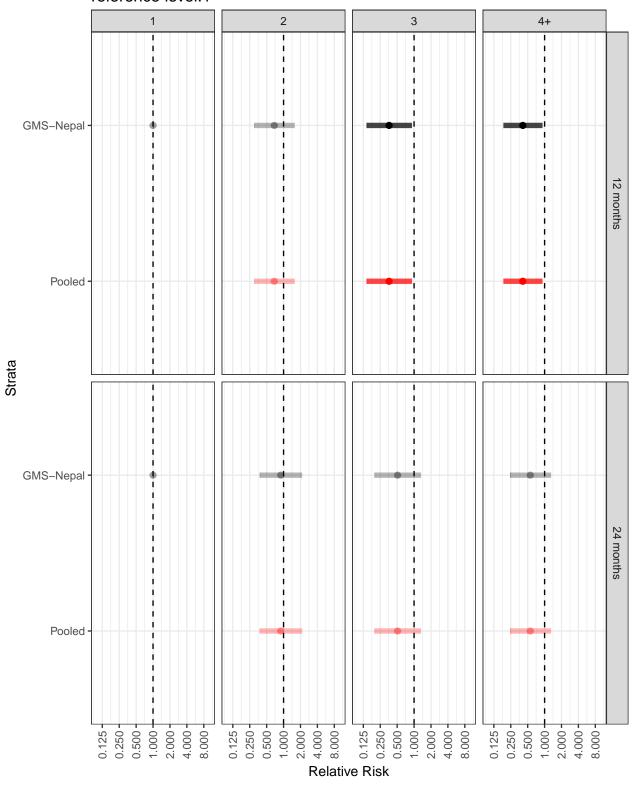
Number of children in the household under 5 years reference level:1



Number of people in the household reference level:3 or less

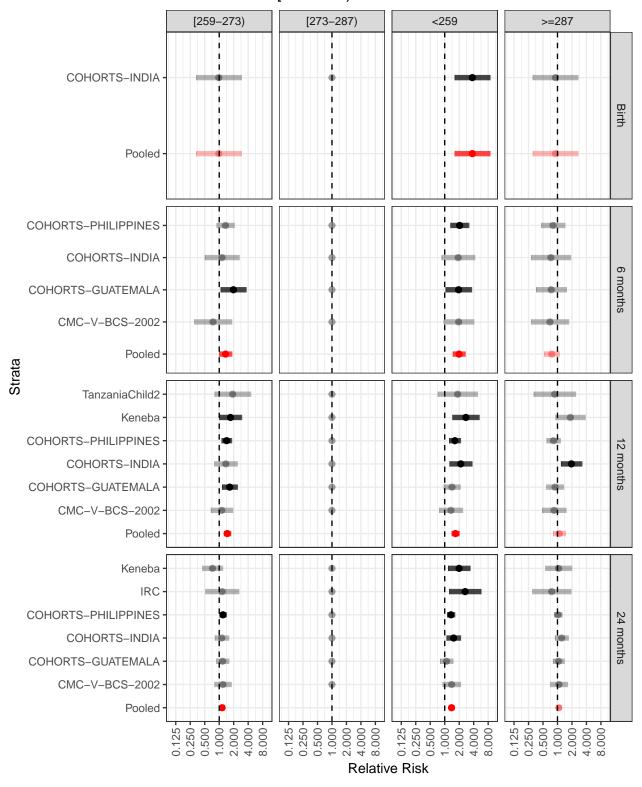


Number of rooms in household reference level:1

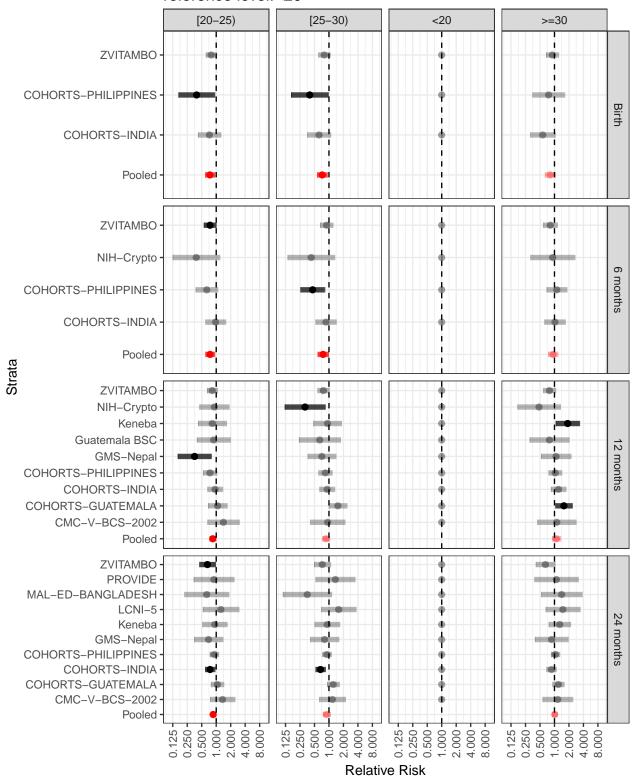


Maternal characteristics

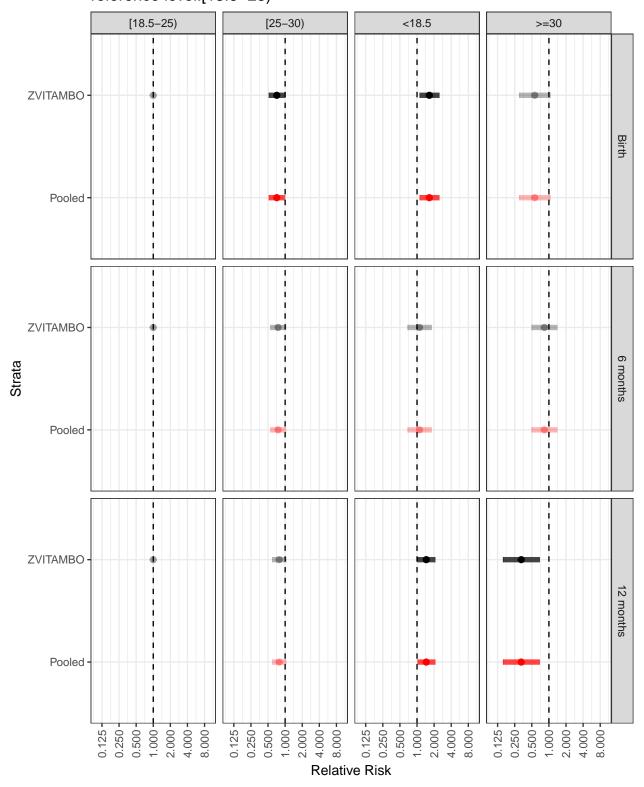
Gestational age at birth reference level:[273–287)

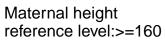


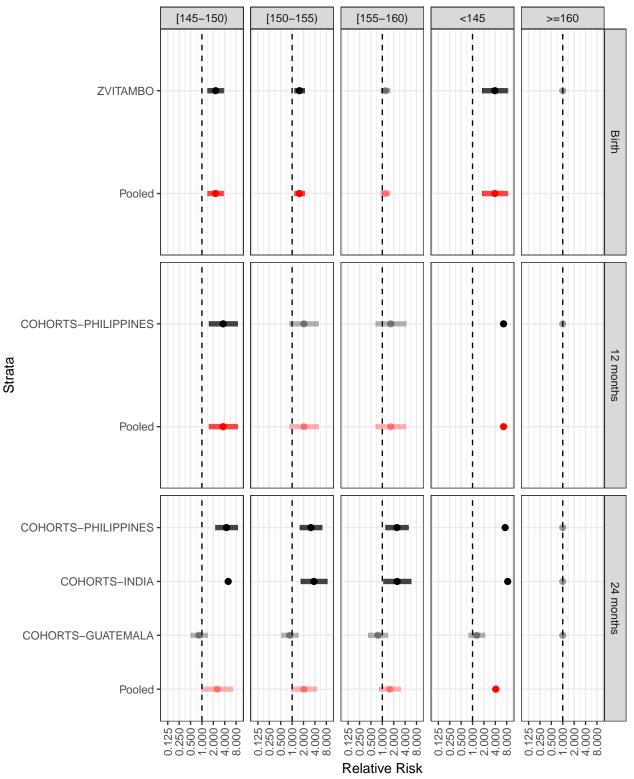
Maternal age reference level:<20



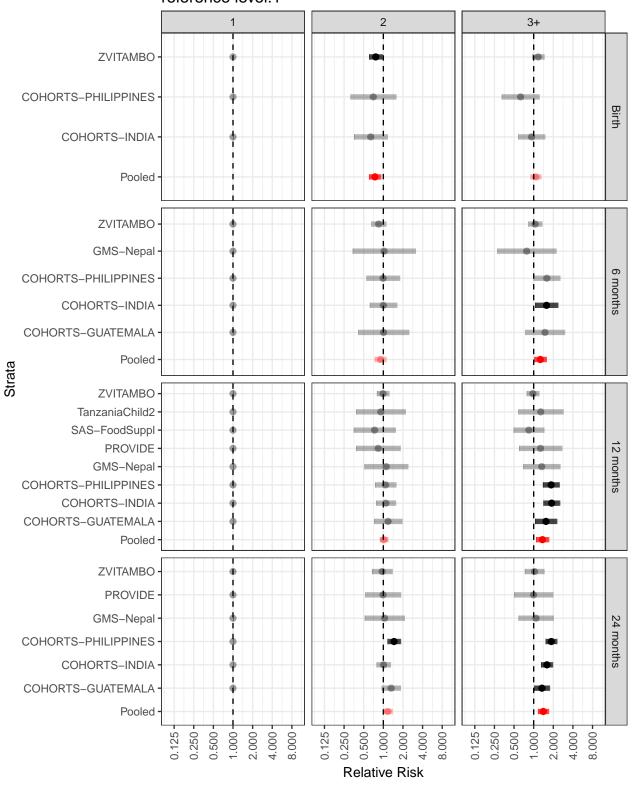
Maternal BMI reference level:[18.5–25)



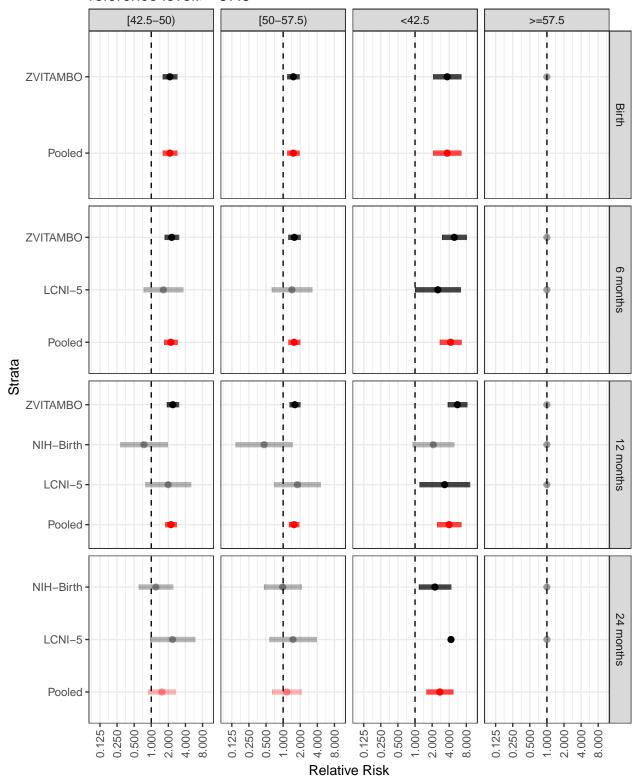




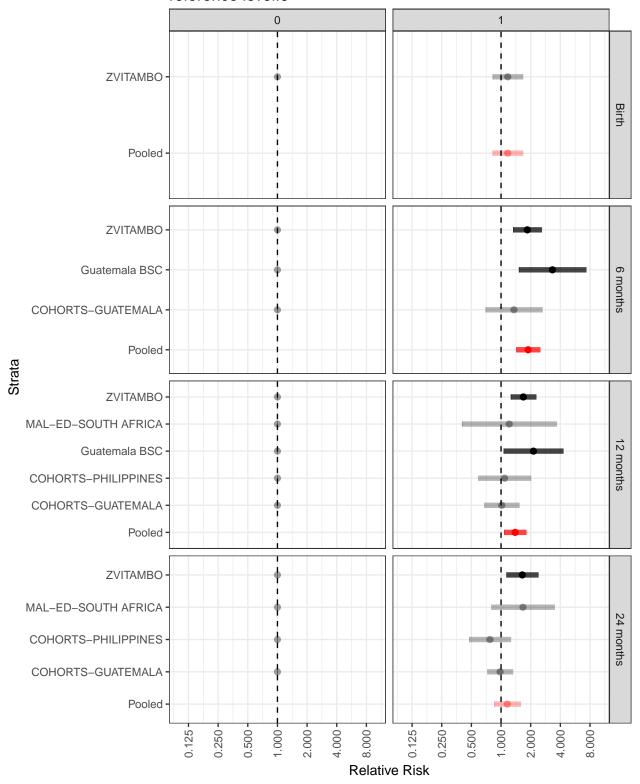
Maternal parity reference level:1



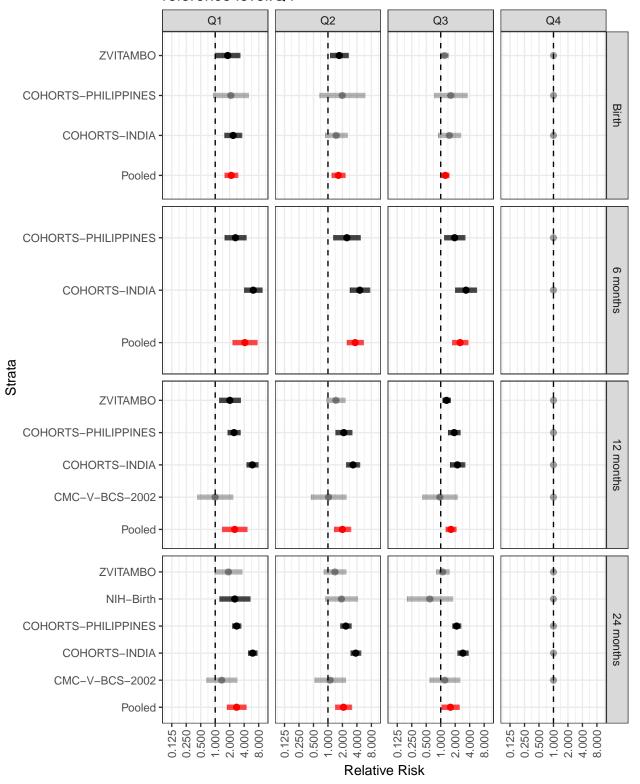
Maternal weight reference level:>=57.5



Mother is unmarried reference level:0

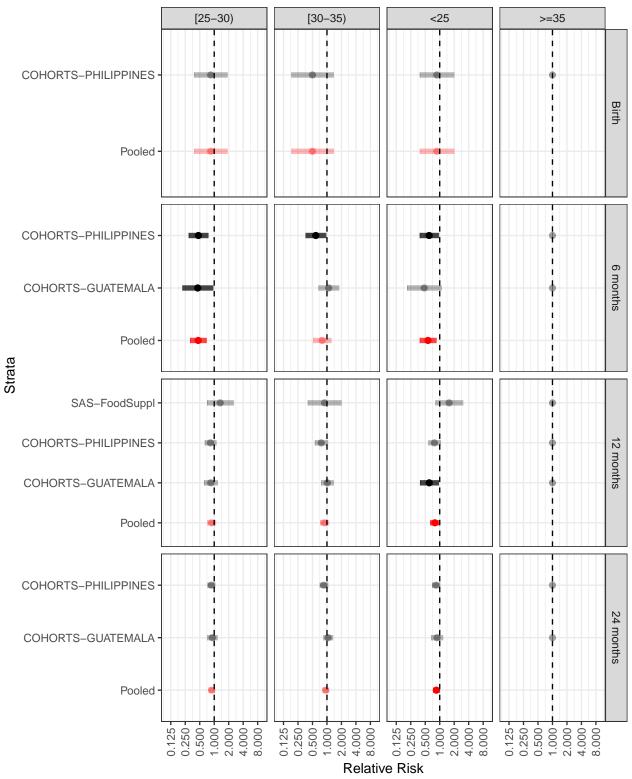


Mother's education reference level:Q4

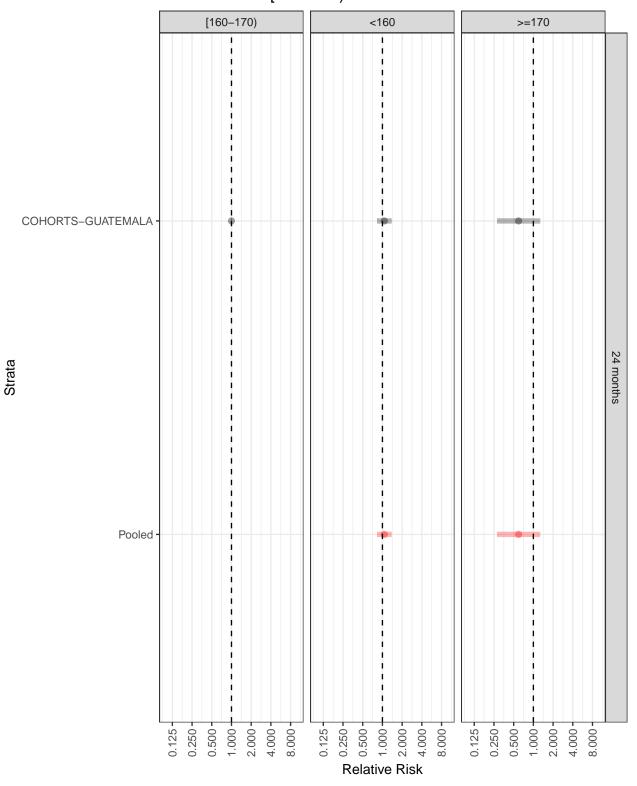


Paternal characteristics

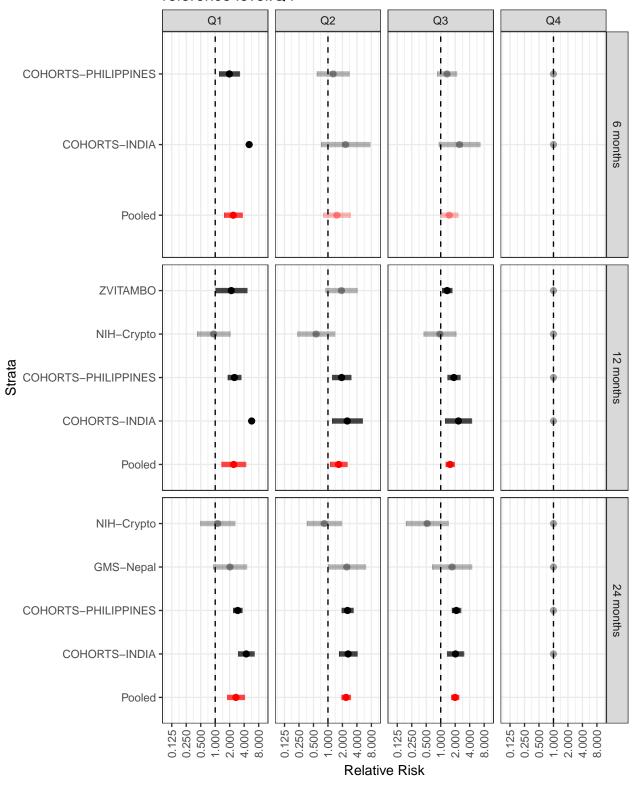
Father age reference level:>=35



Father height reference level:[160–170)

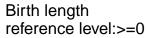


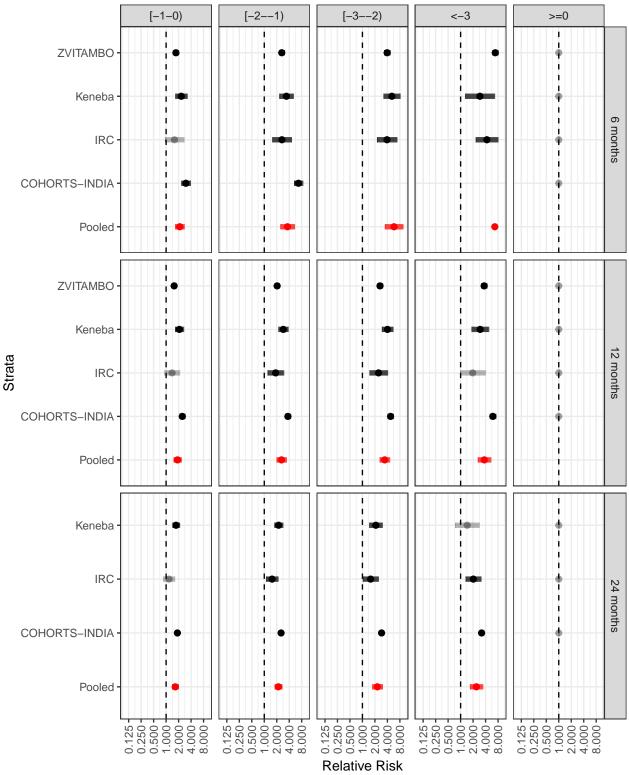
Father's education reference level:Q4

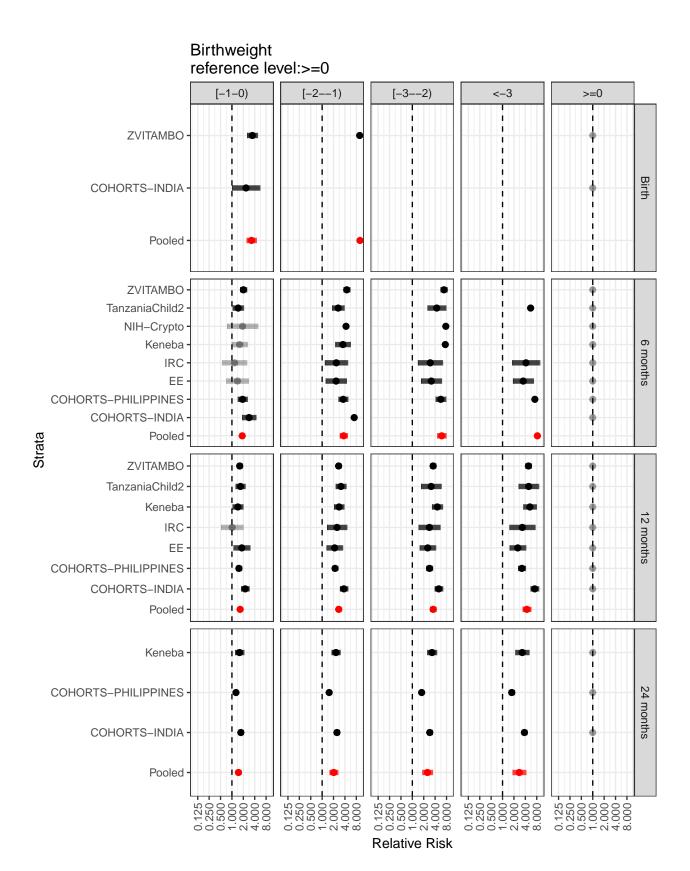


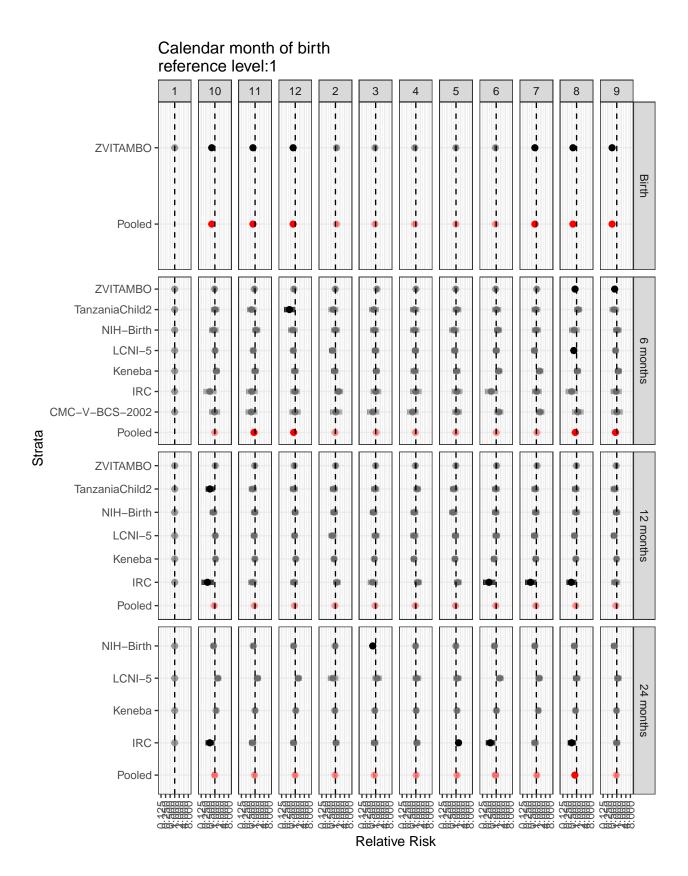
Point prevalence of stunting

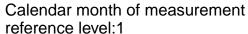
Child characteristics

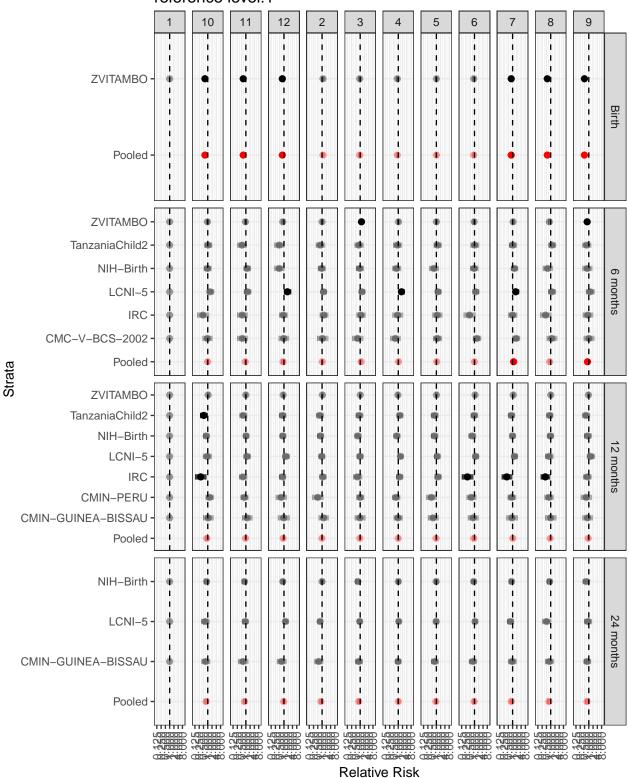




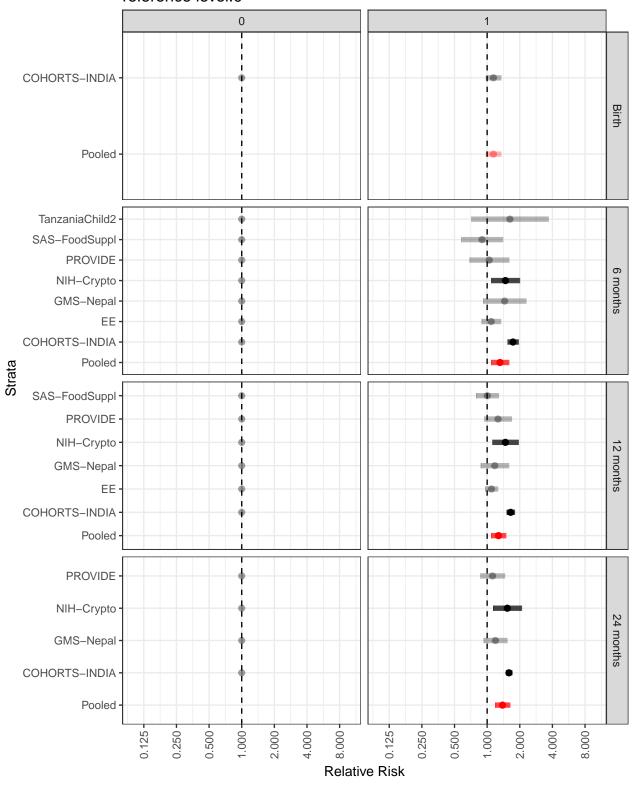




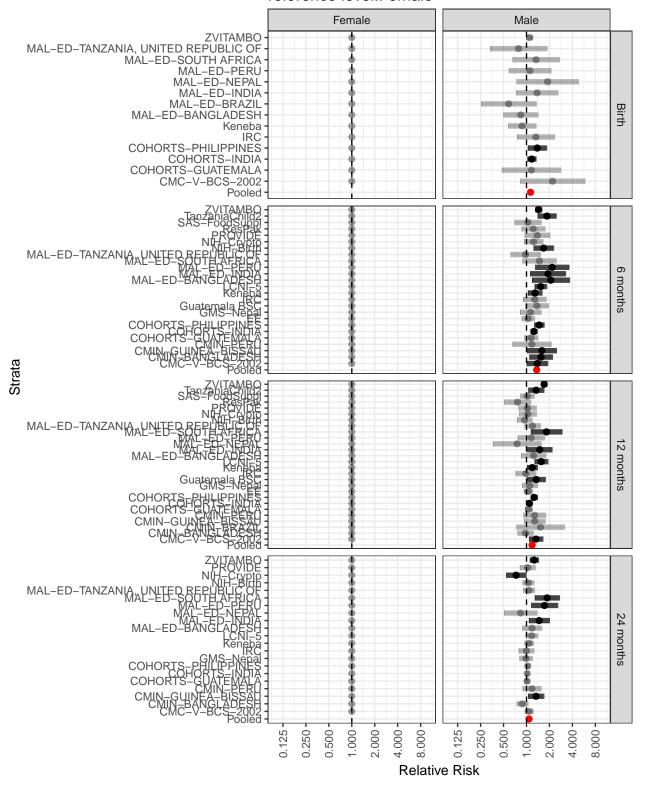




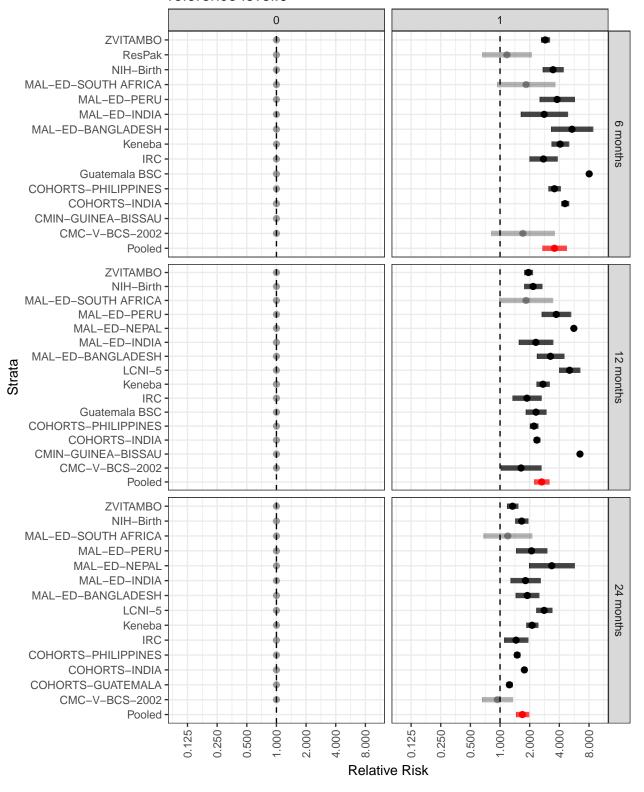
Child delivered at home reference level:0

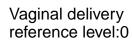


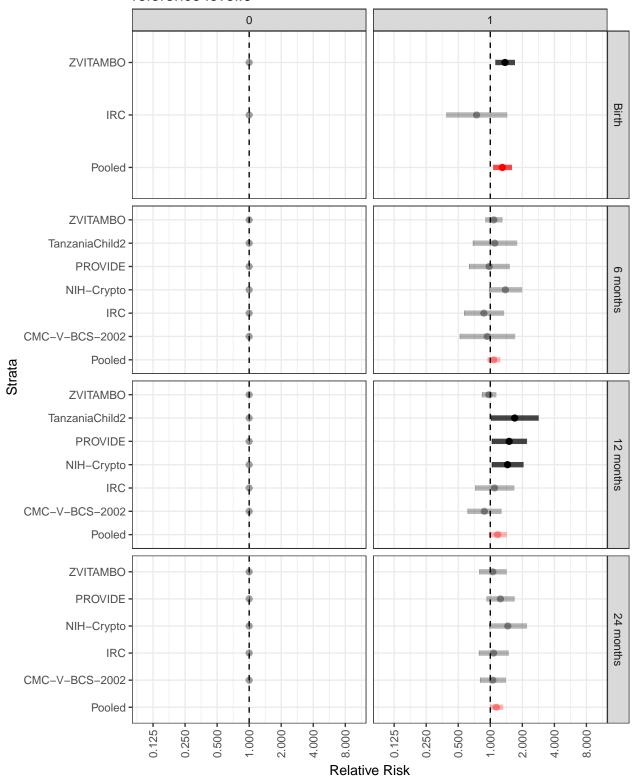
Child's sex reference level:Female



Stunted at enrollment reference level:0

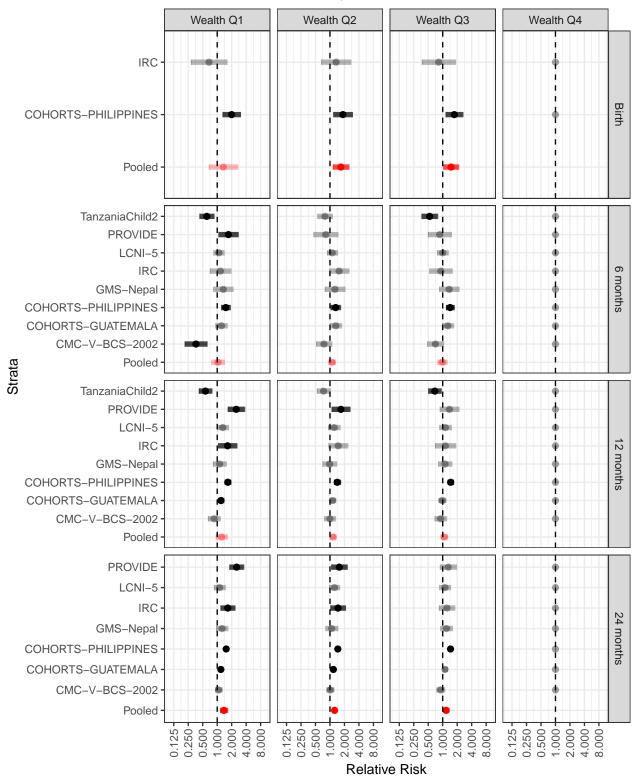




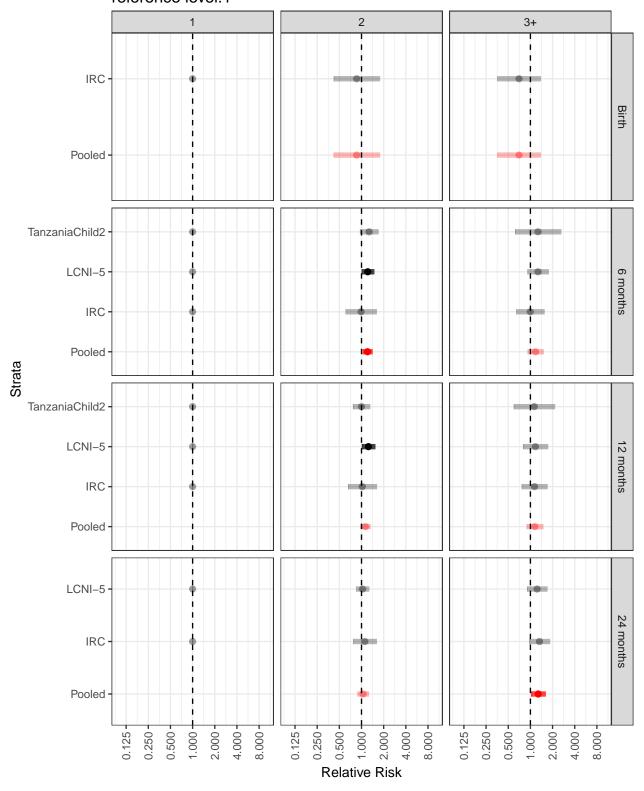


Household characteristics

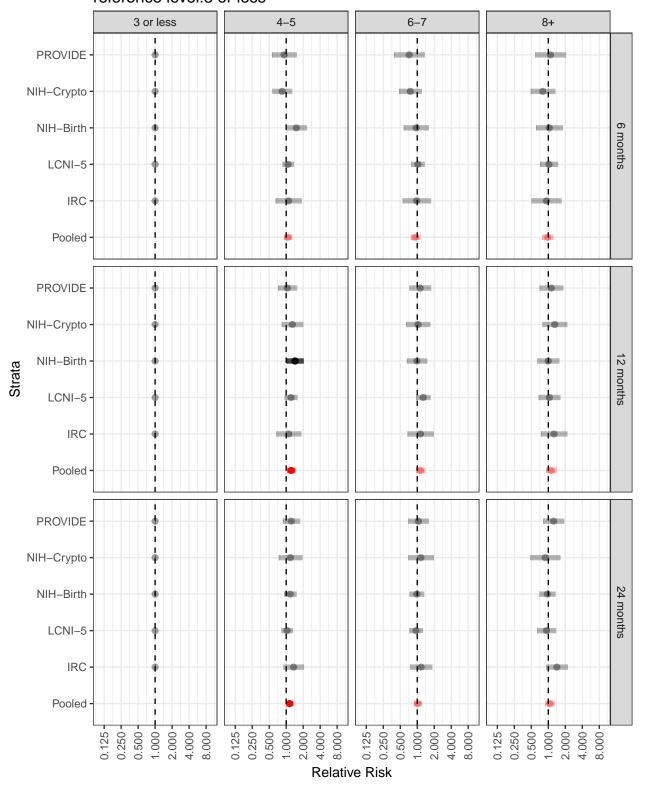
Asset based wealth index reference level: Wealth Q4



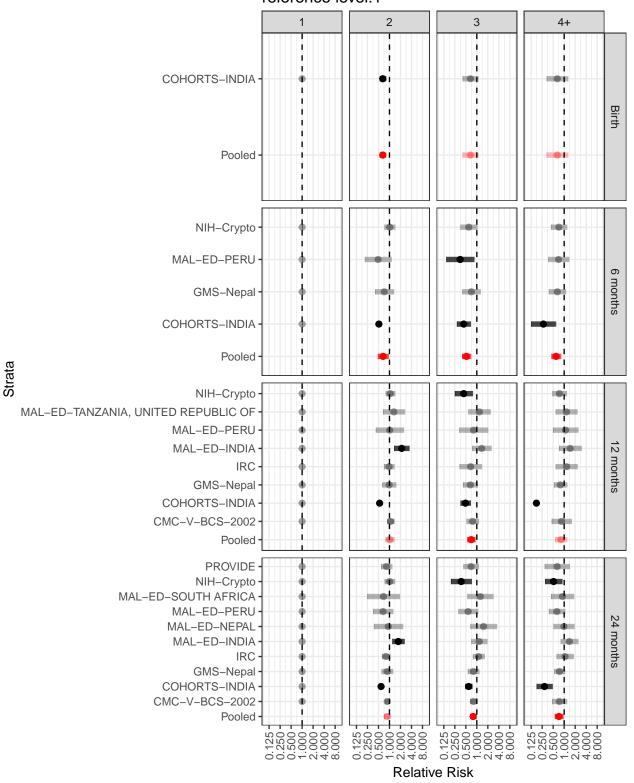
Number of children in the household under 5 years reference level:1



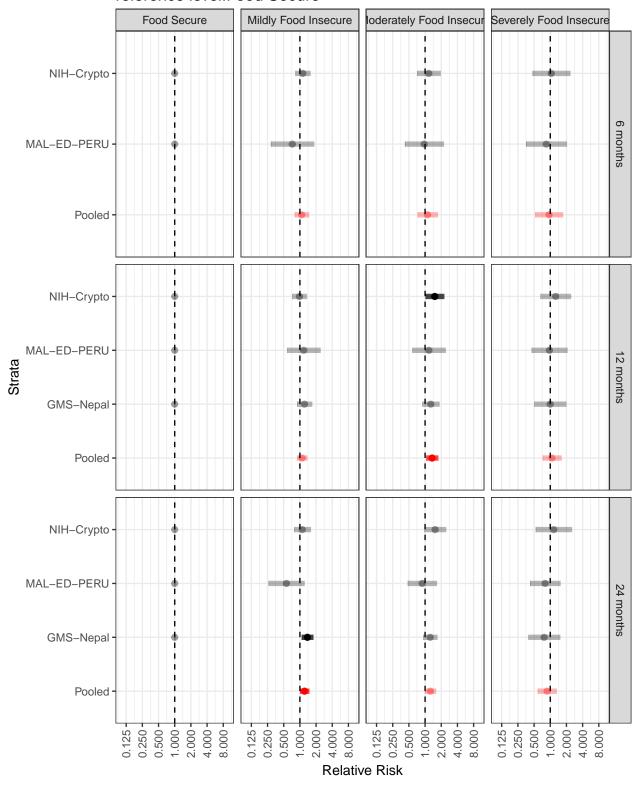
Number of people in the household reference level:3 or less



Number of rooms in household reference level:1

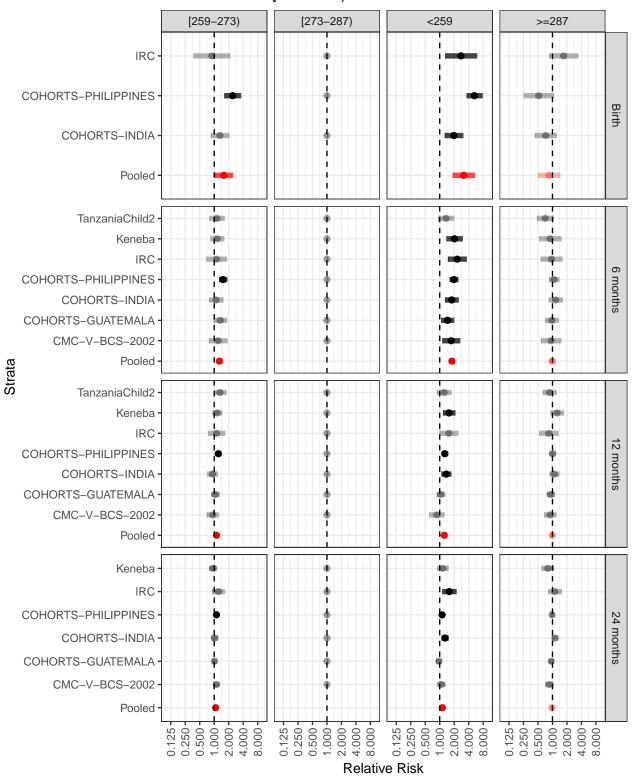


USAID Household Food Insecurity Access Scale (HFIAS) category reference level:Food Secure

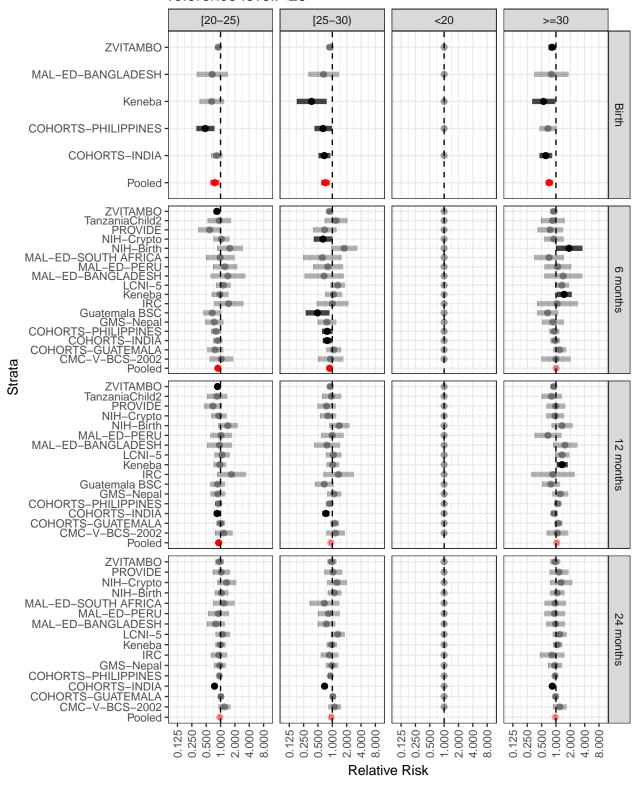


Maternal characteristics

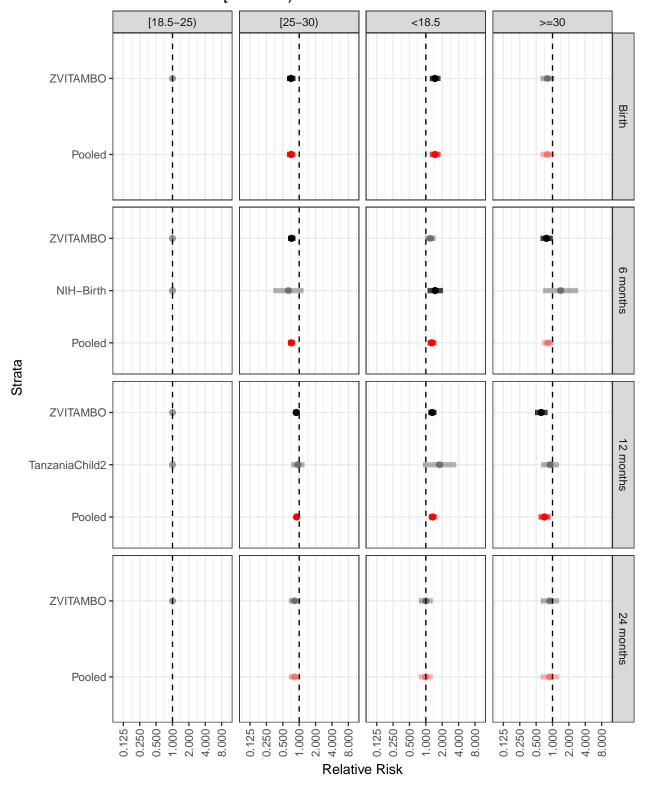
Gestational age at birth reference level:[273-287)

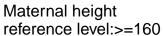


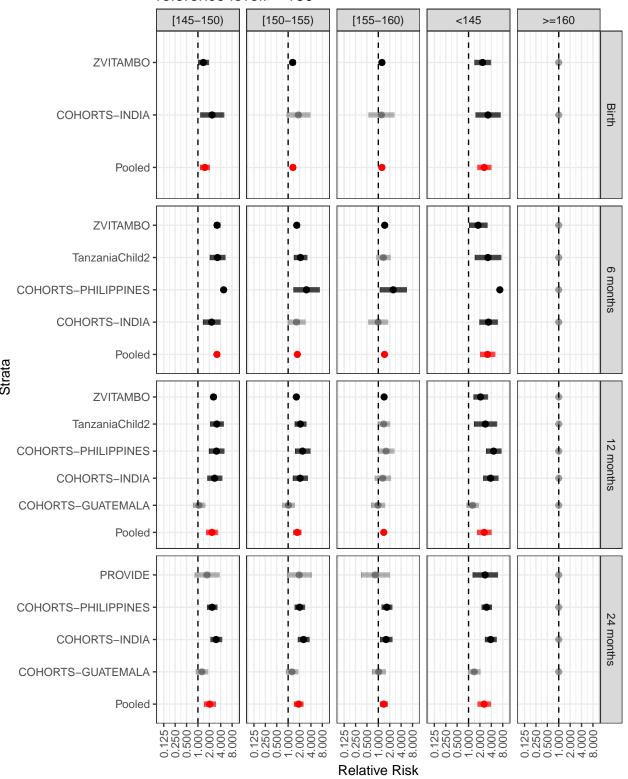
Maternal age reference level:<20



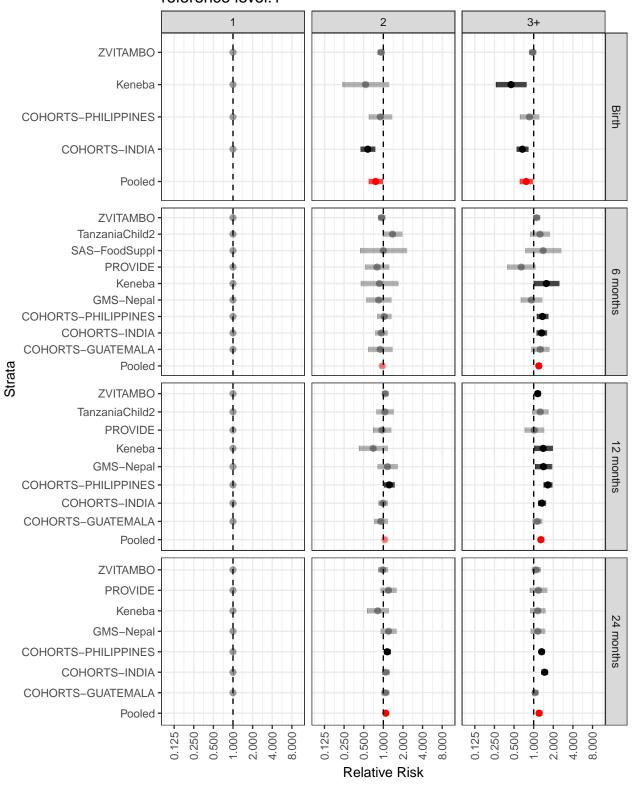
Maternal BMI reference level:[18.5–25)



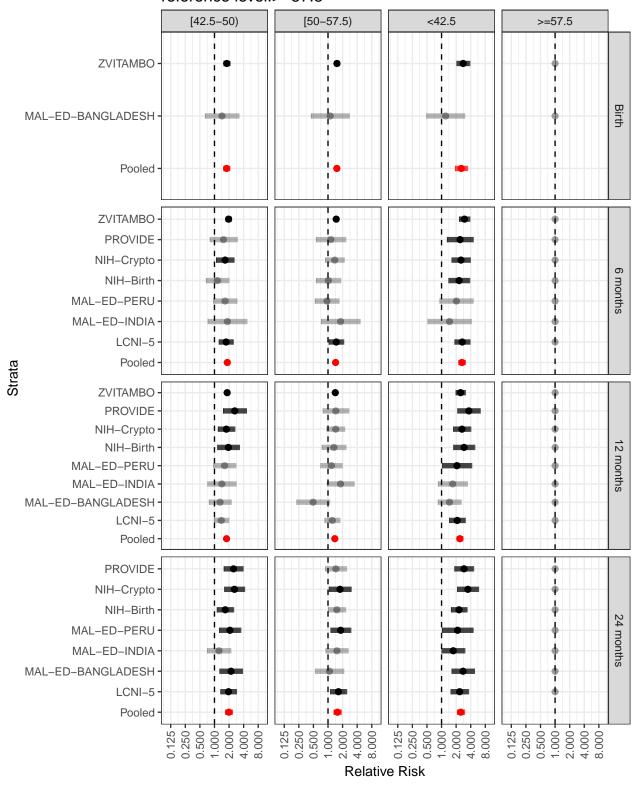




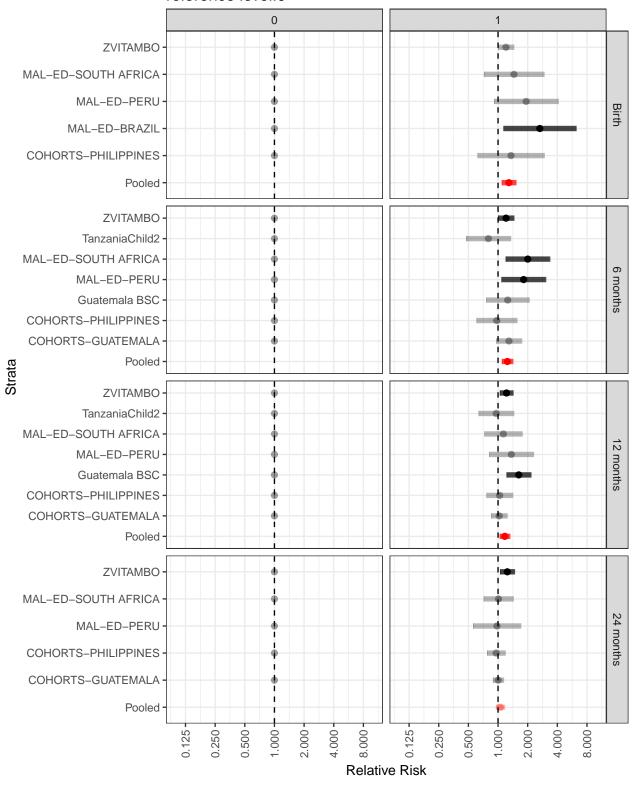
Maternal parity reference level:1



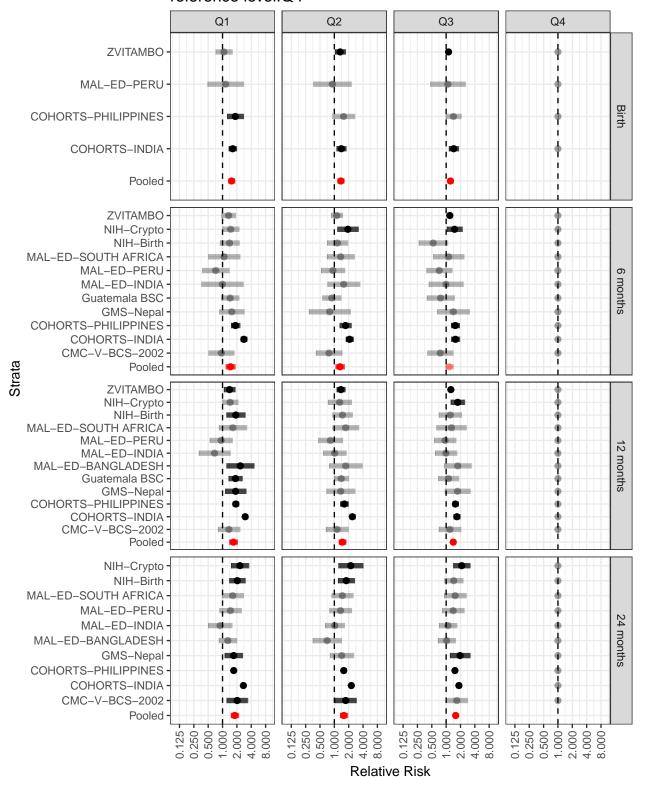
Maternal weight reference level:>=57.5



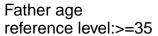
Mother is unmarried reference level:0

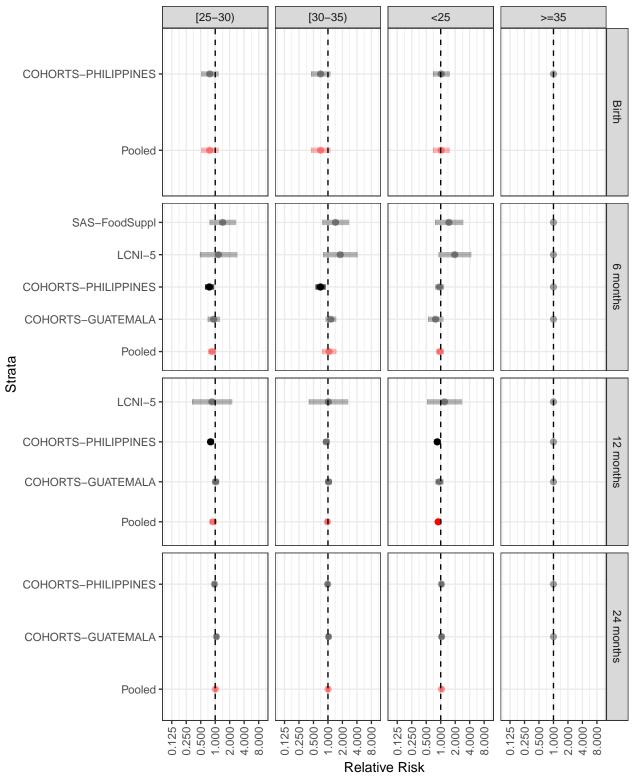


Mother's education reference level:Q4

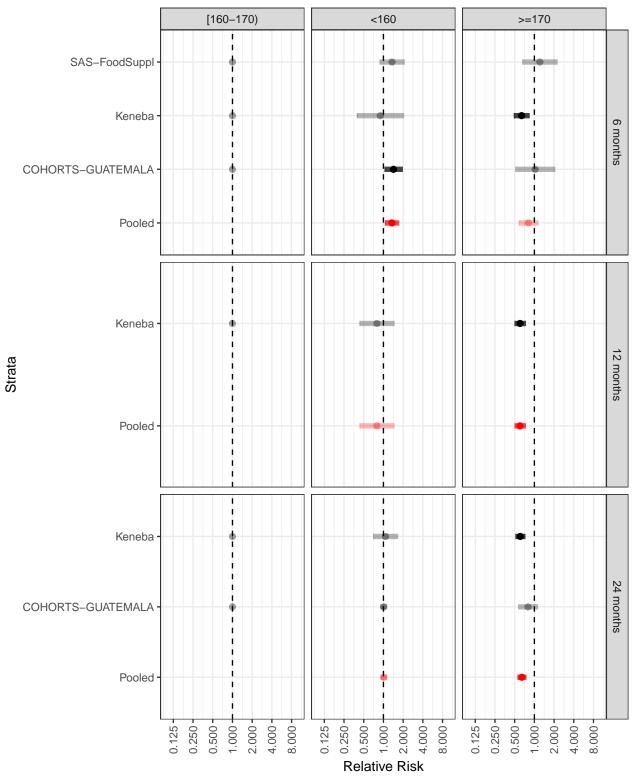


Paternal characteristics

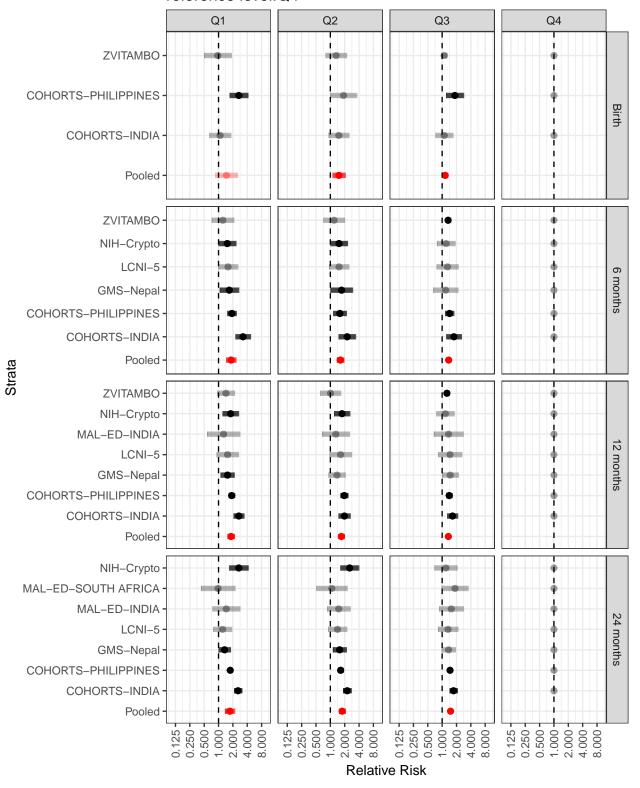




Father height reference level:[160–170)



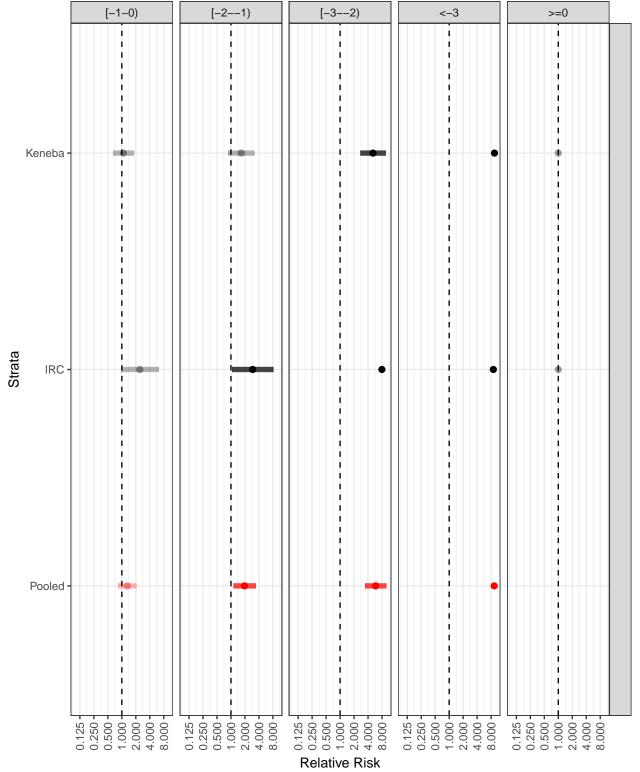
Father's education reference level:Q4



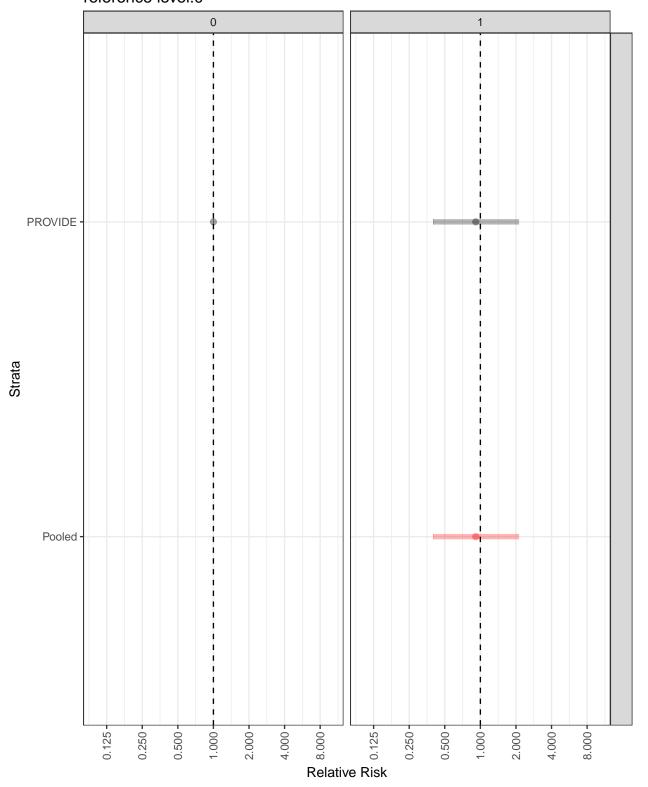
Proportion of children who were stunted between birth and 3 months who recovered by 24 months

Child characteristics

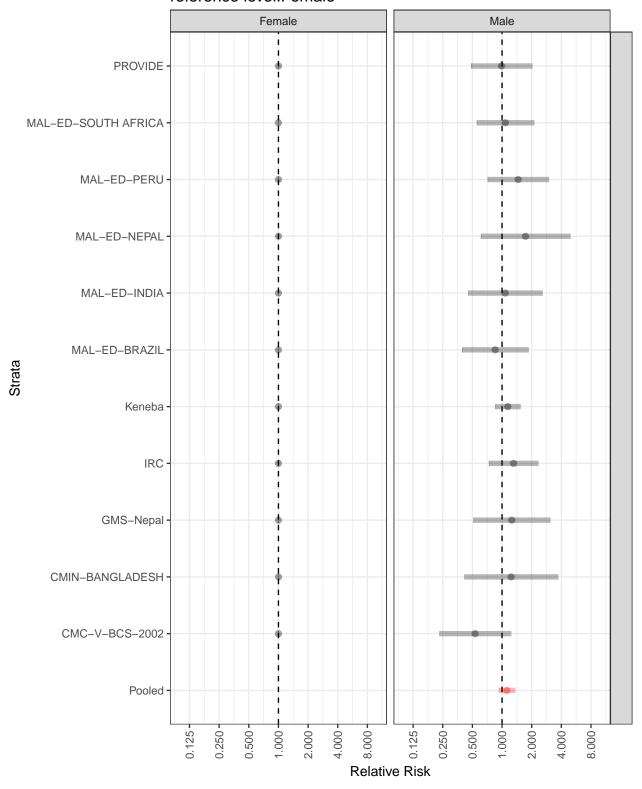
Birth length reference level:>=0



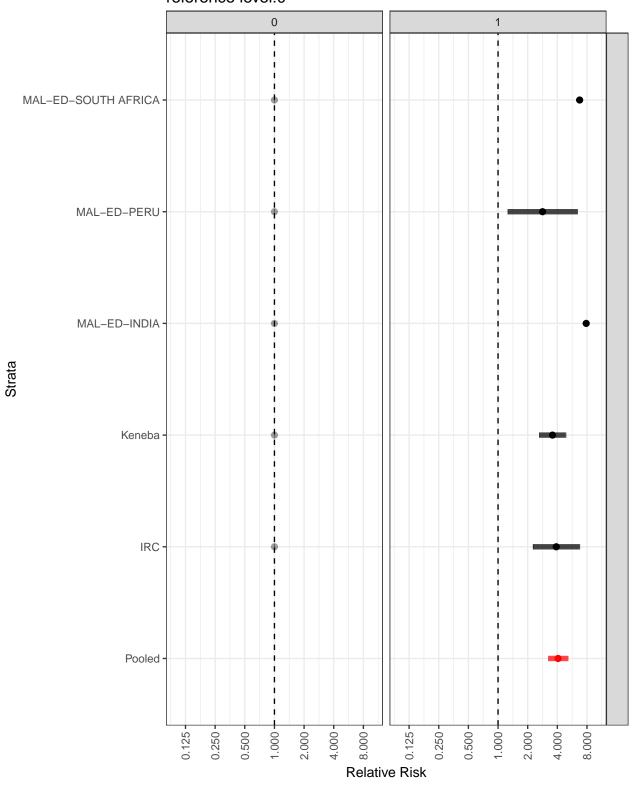
Child delivered at home reference level:0

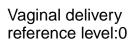


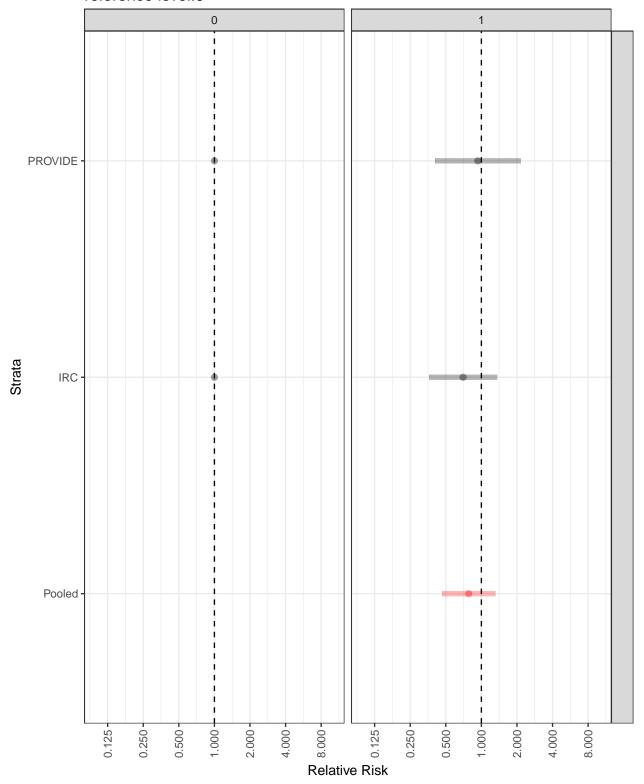
Child's sex reference level:Female



Stunted at enrollment reference level:0

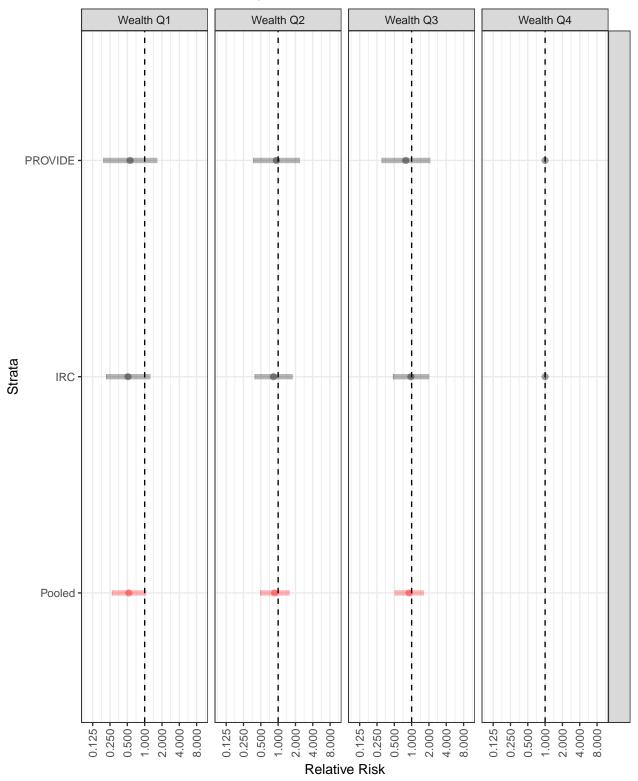






Household characteristics

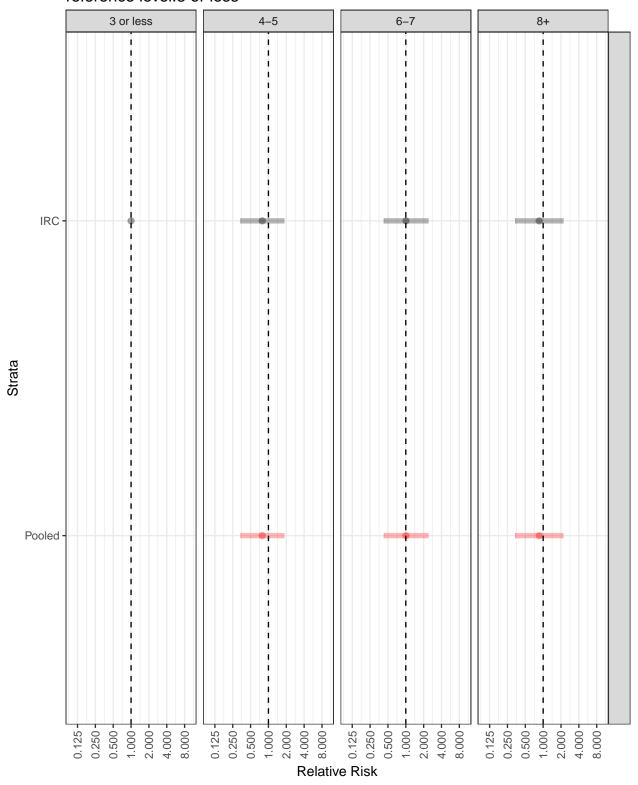
Asset based wealth index reference level: Wealth Q4



Number of children in the household under 5 years reference level:1

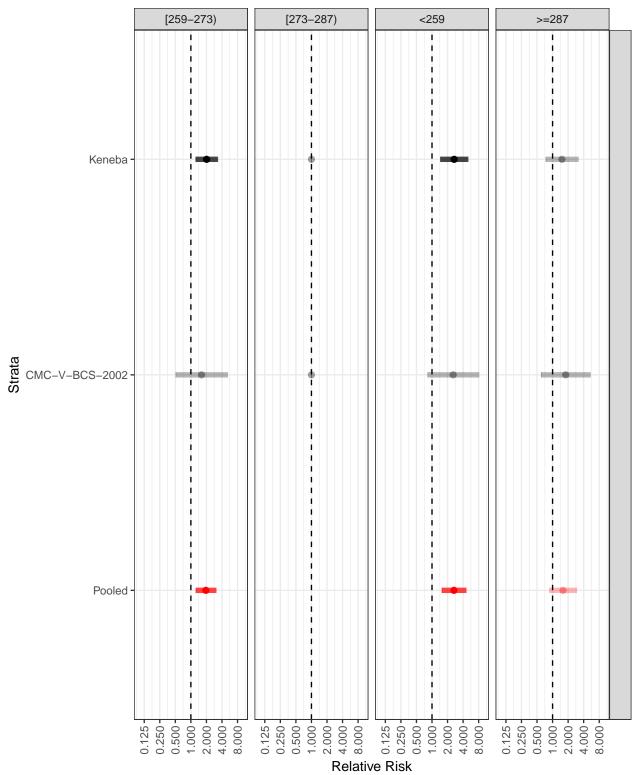


Number of people in the household reference level:3 or less

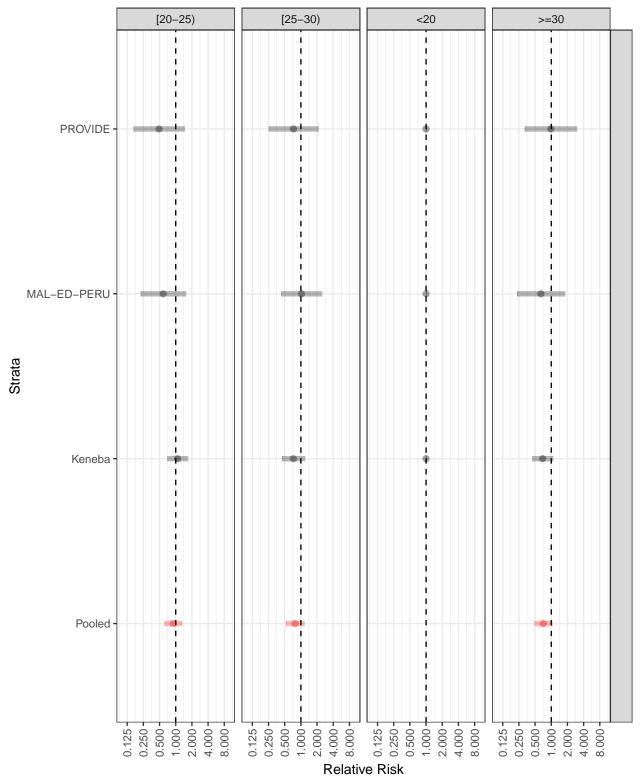


Maternal characteristics

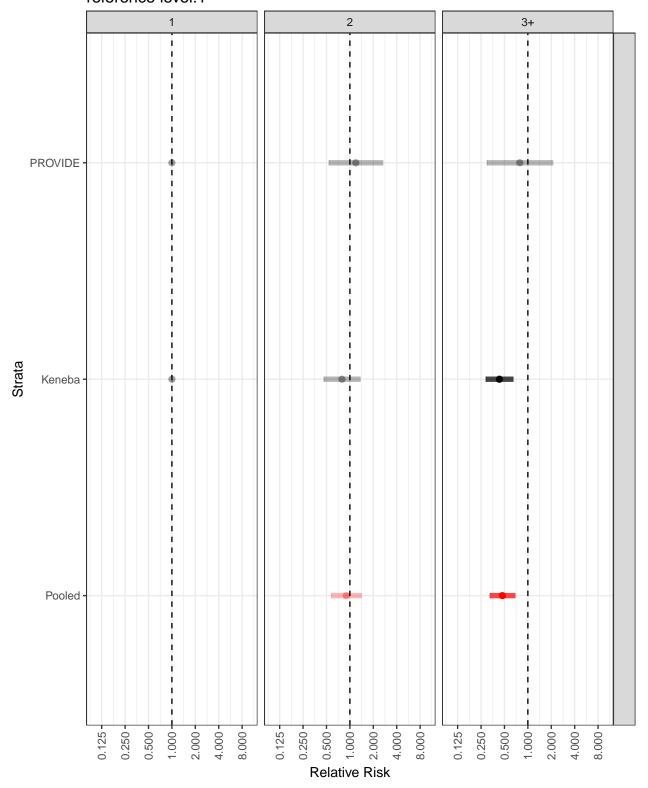
Gestational age at birth reference level:[273–287)



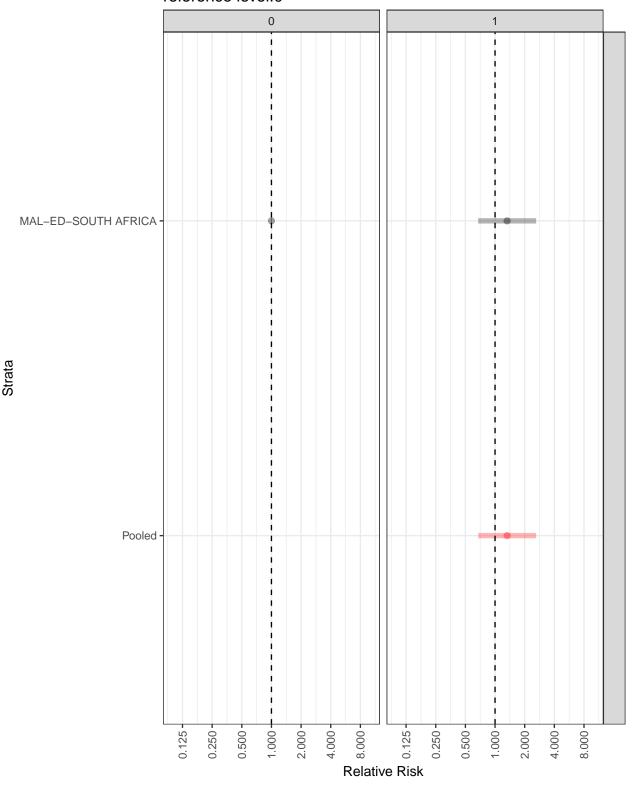
Maternal age reference level:<20



Maternal parity reference level:1



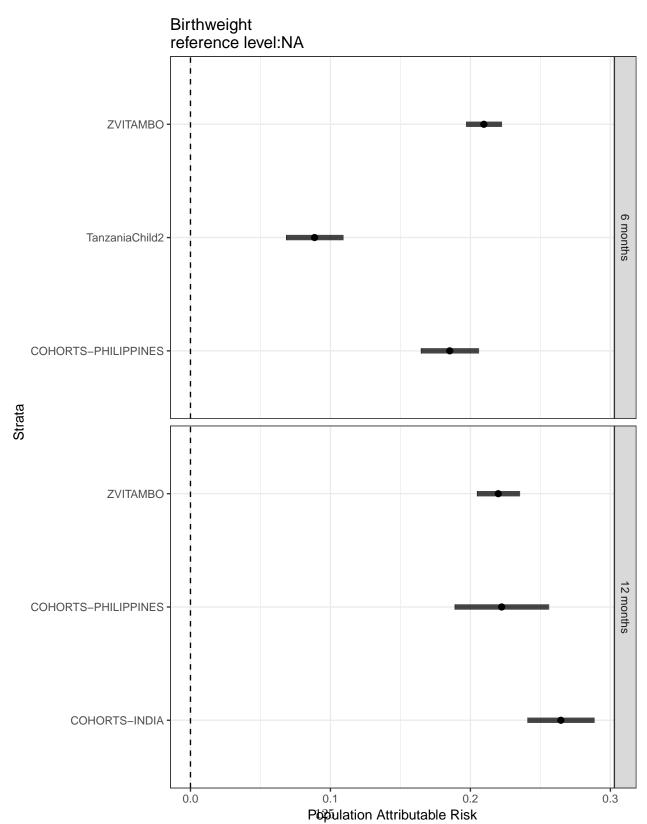
Mother is unmarried reference level:0



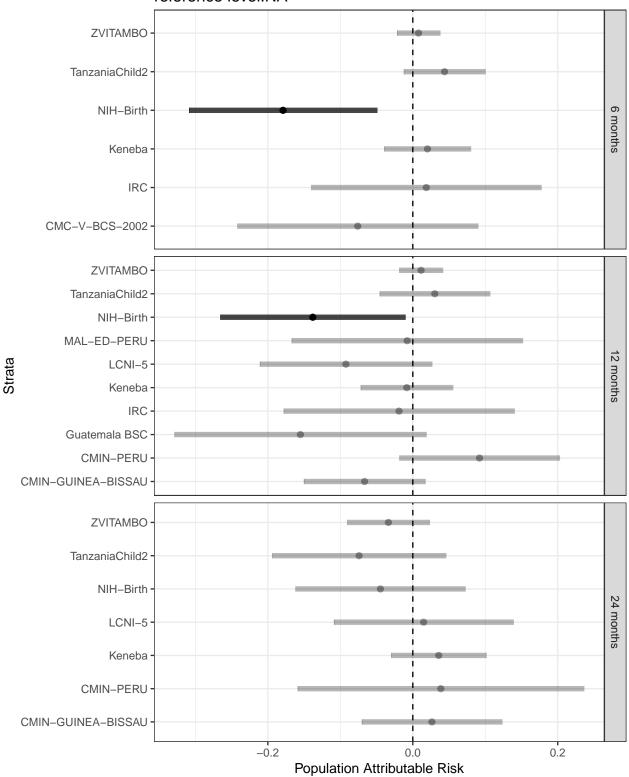
Appendix 2 - Population Attributable Risk Forest Plots

Cumulative incidence of stunting

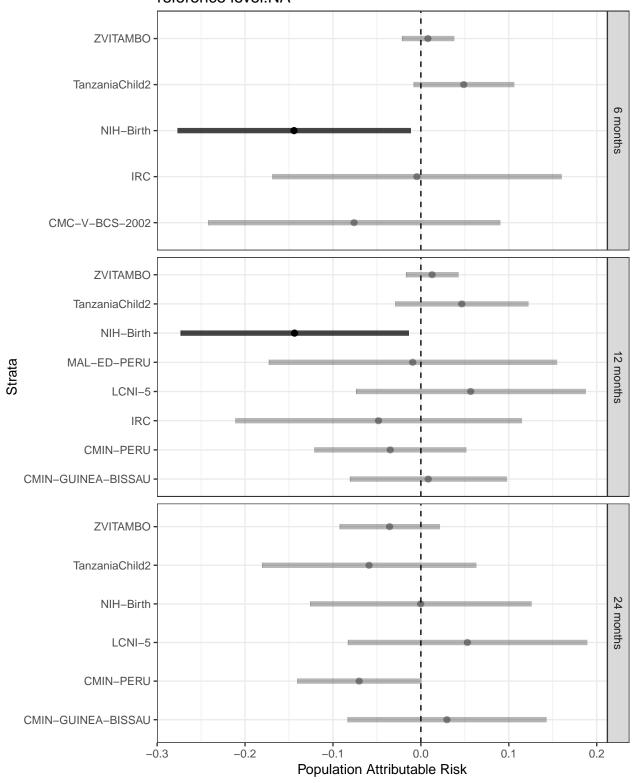
Child characteristics

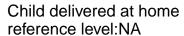


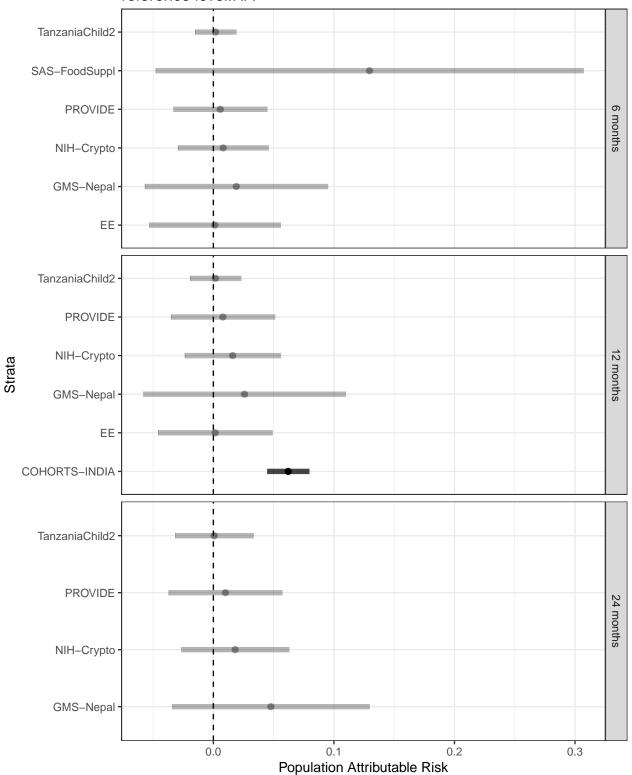
Calendar month of birth reference level:NA

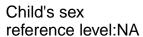


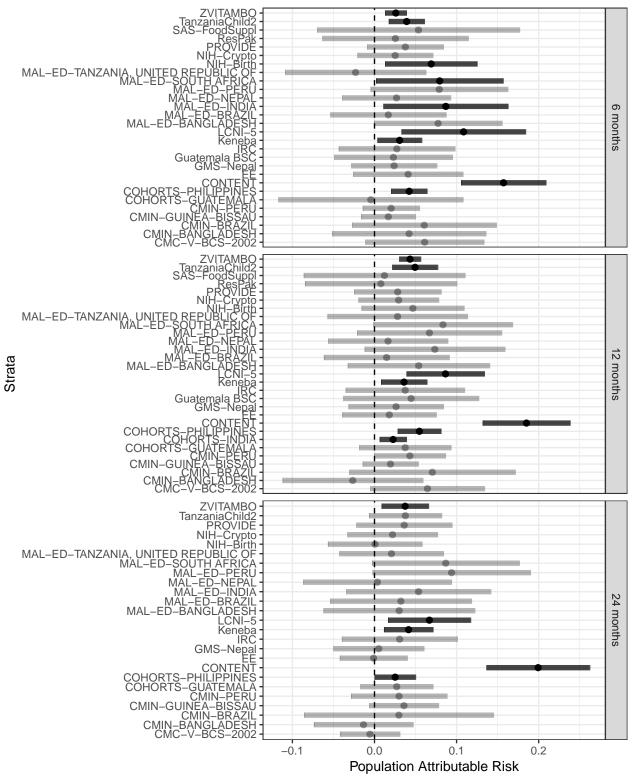
Calendar month of measurement reference level:NA

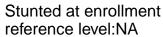


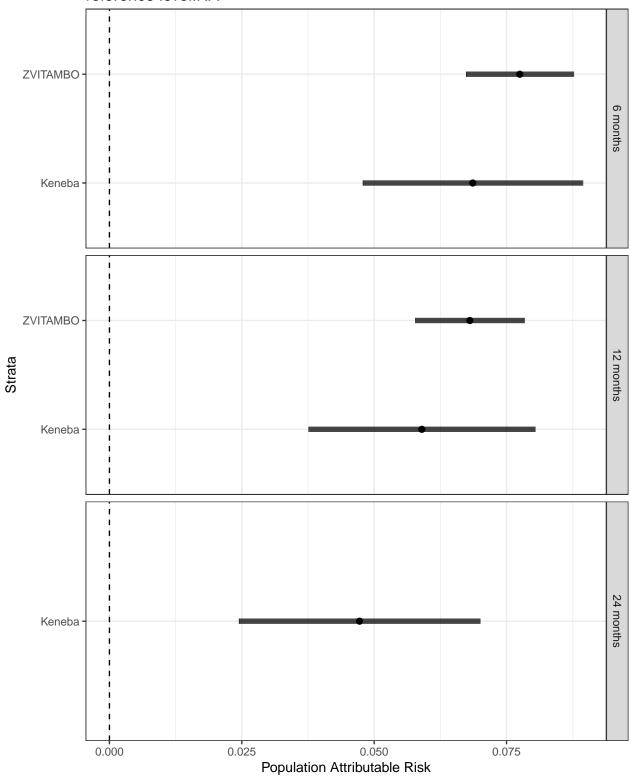


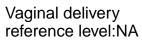


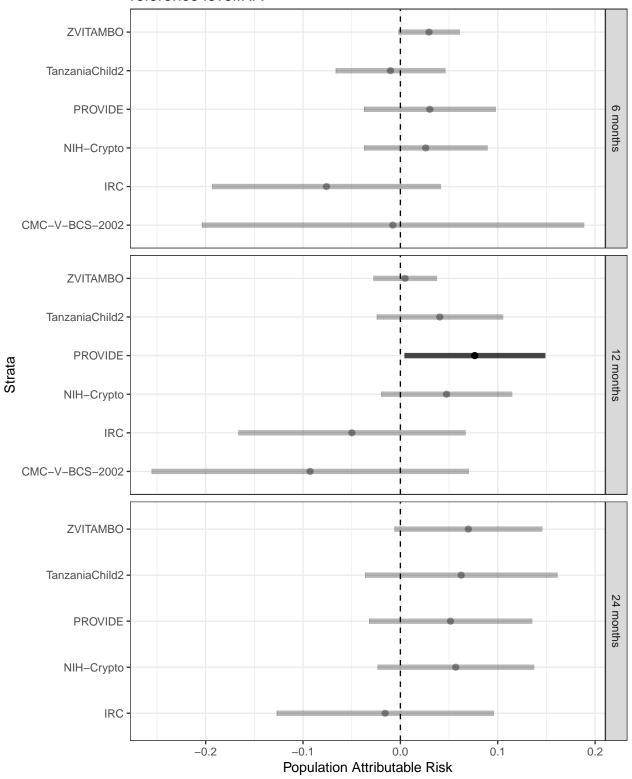






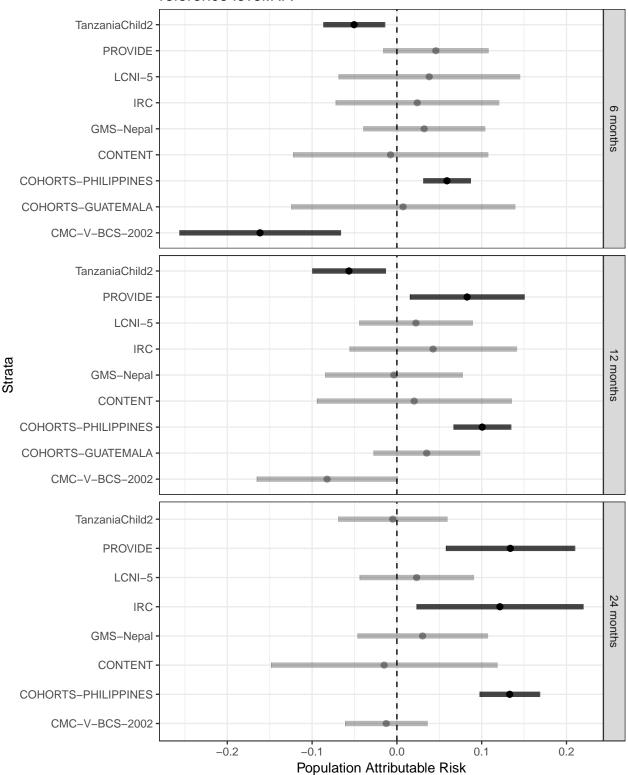




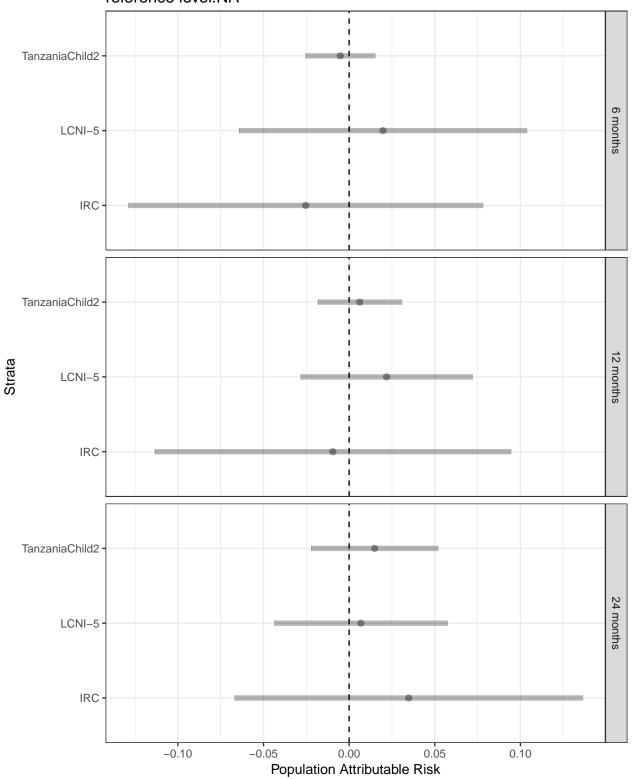


Household characteristics

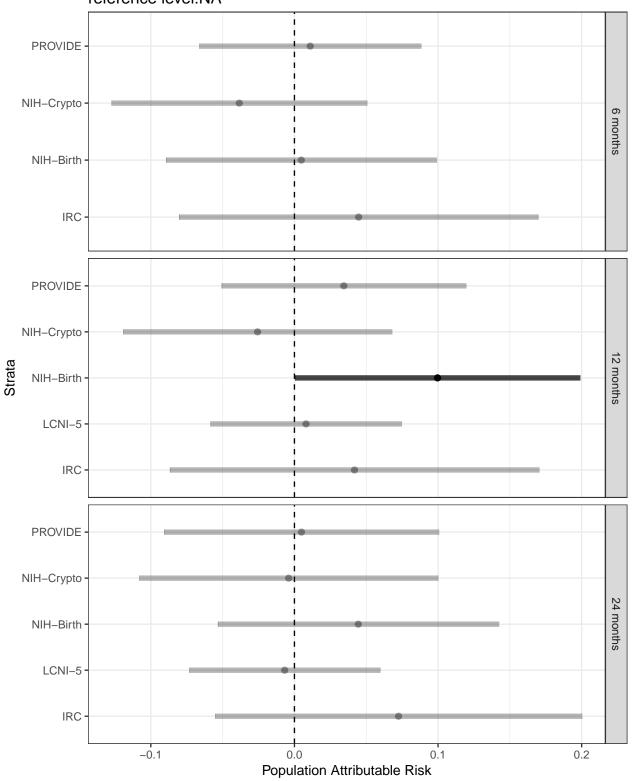
Asset based wealth index reference level:NA



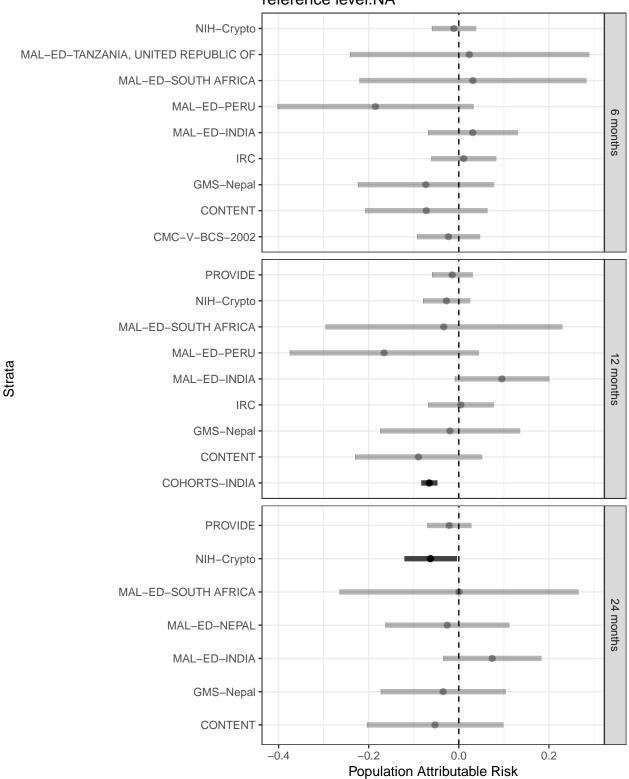
Number of children in the household under 5 years reference level:NA



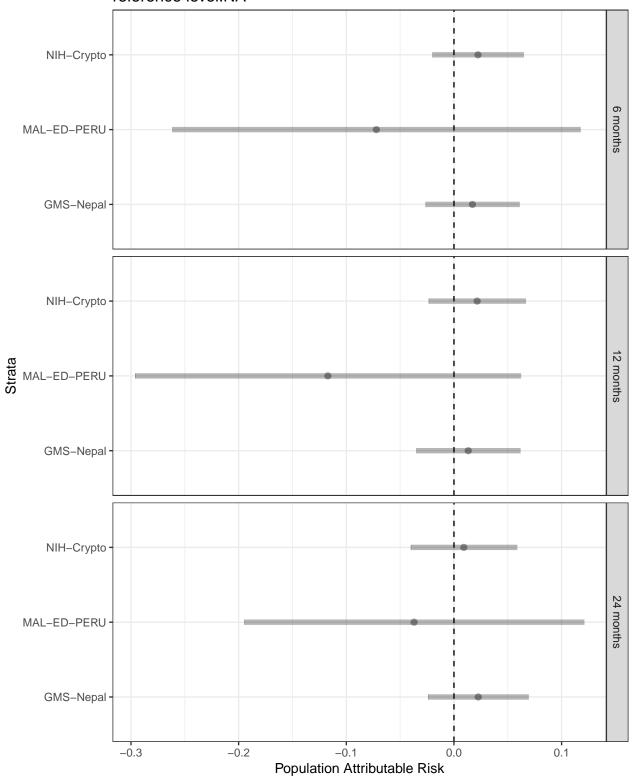
Number of people in the household reference level:NA



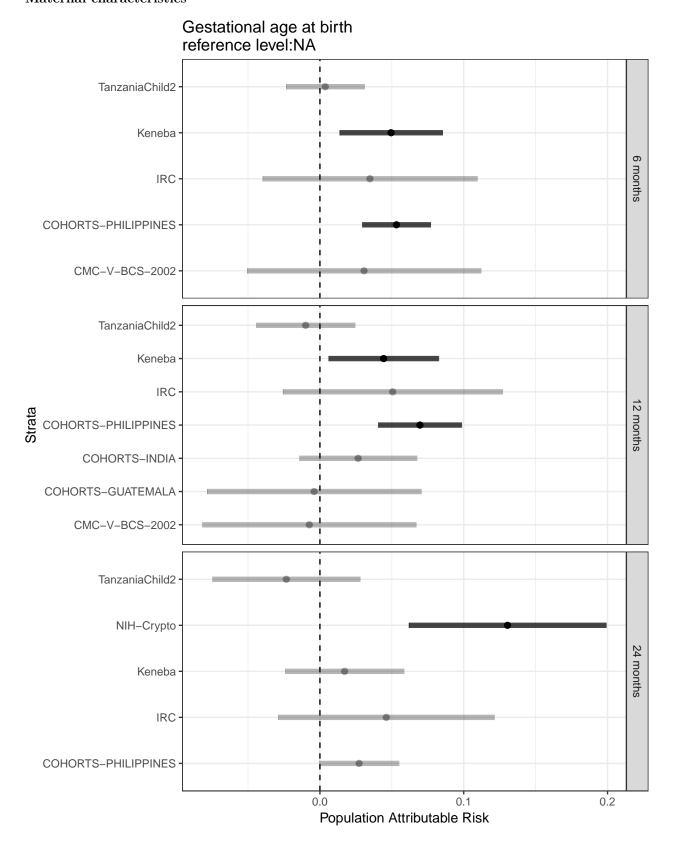
Number of rooms in household reference level:NA



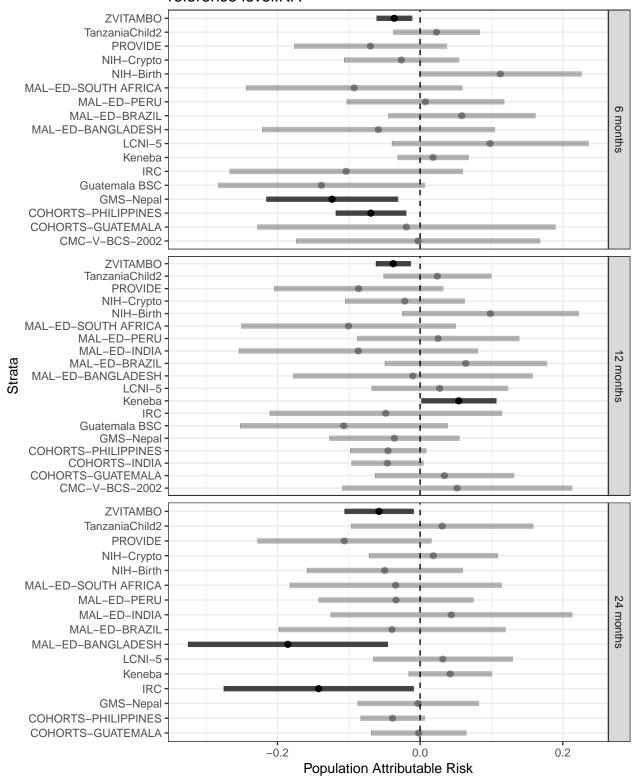
USAID Household Food Insecurity Access Scale (HFIAS) category reference level:NA

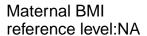


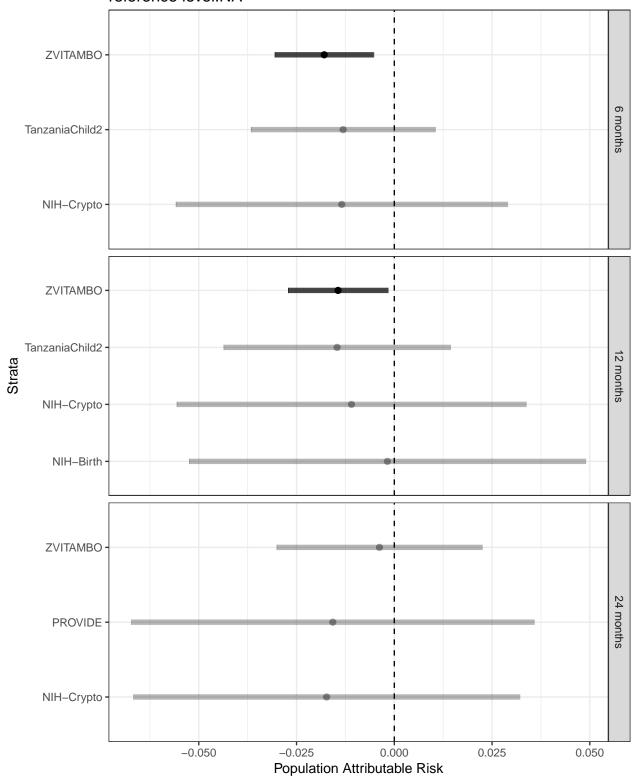
Maternal characteristics

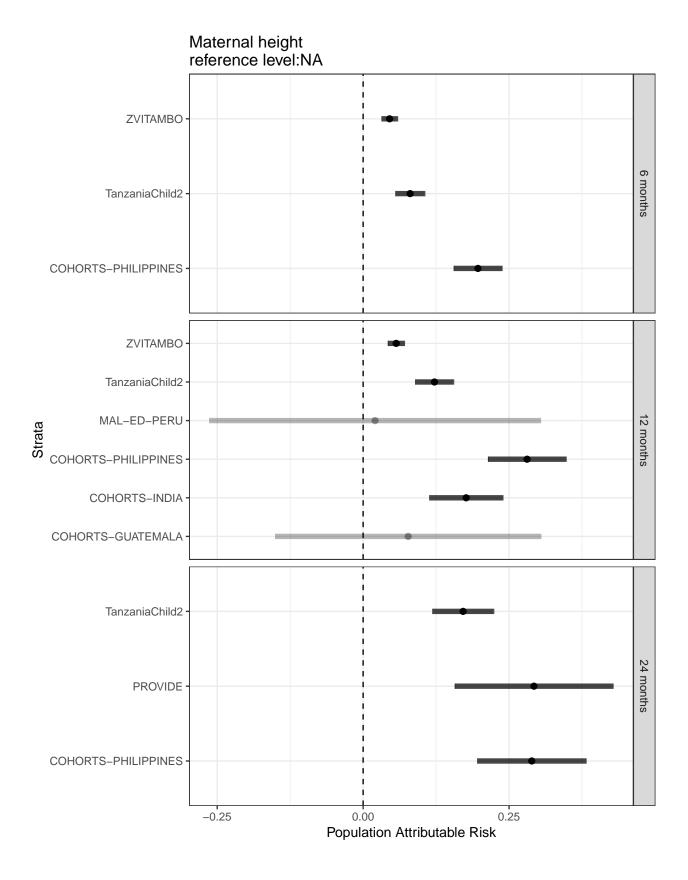


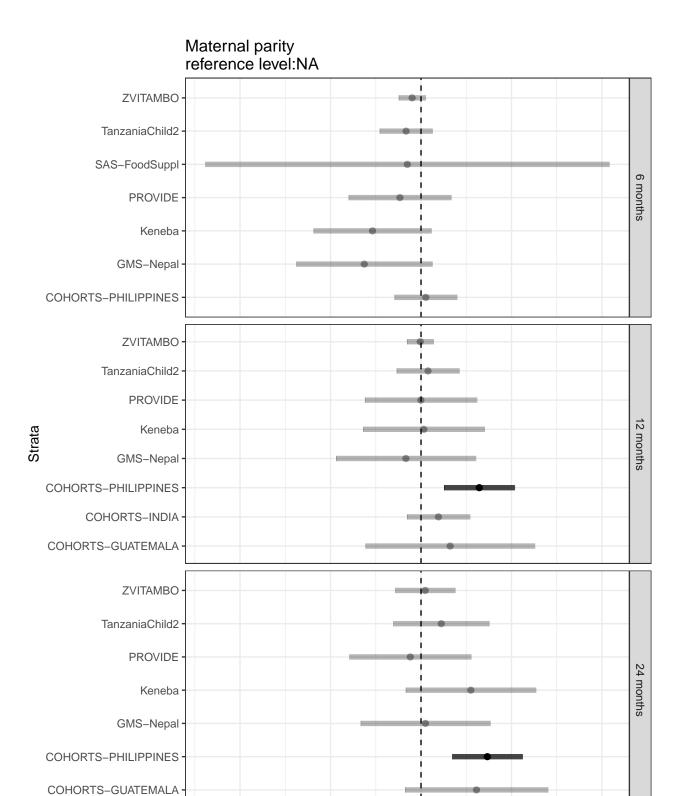
Maternal age reference level:NA











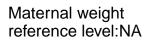
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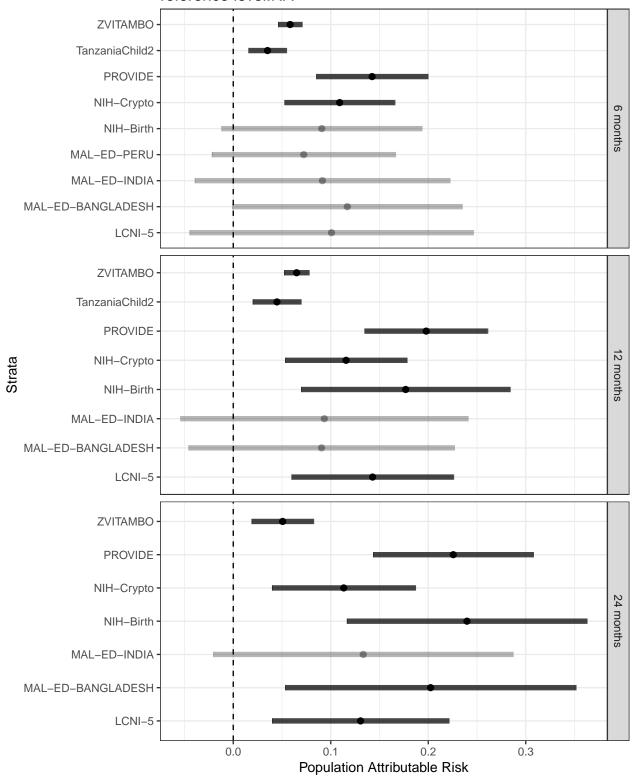
Population Attributable Risk

0.1

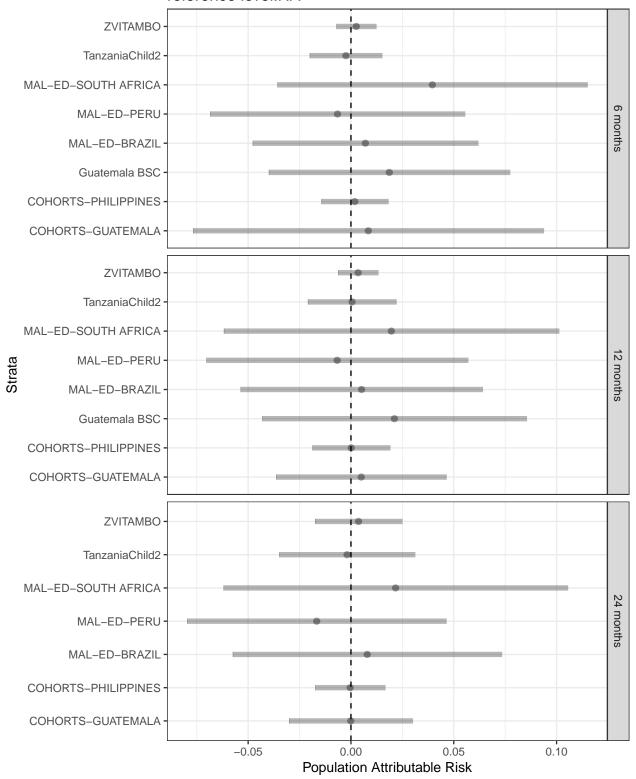
0.2

-0.2

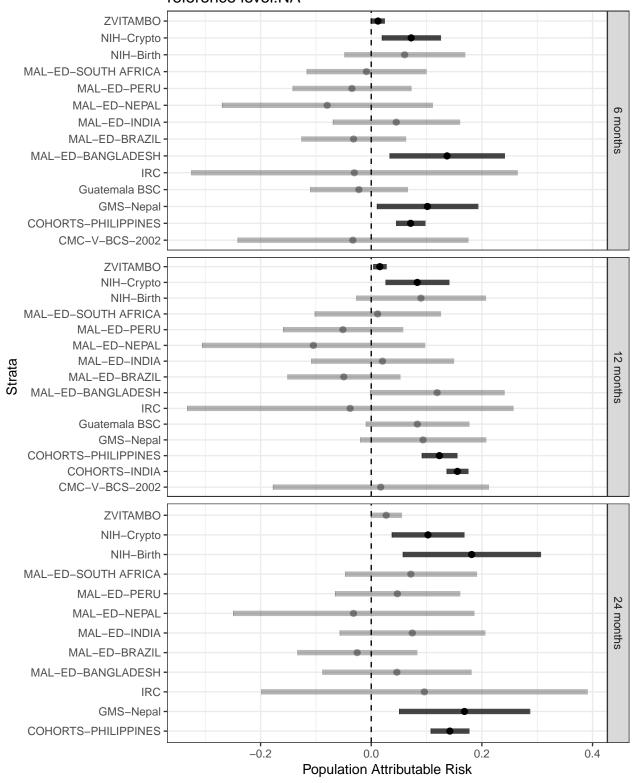




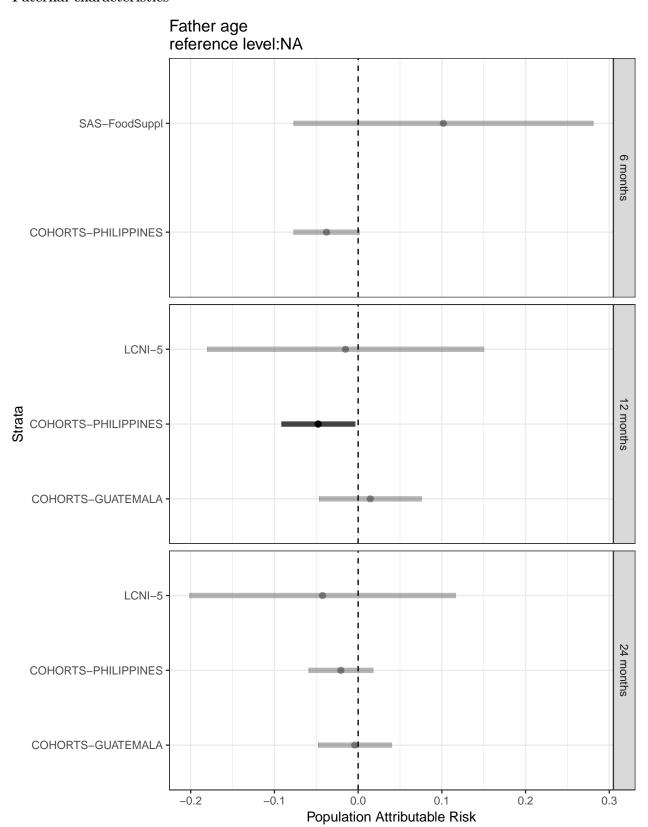
Mother is unmarried reference level:NA

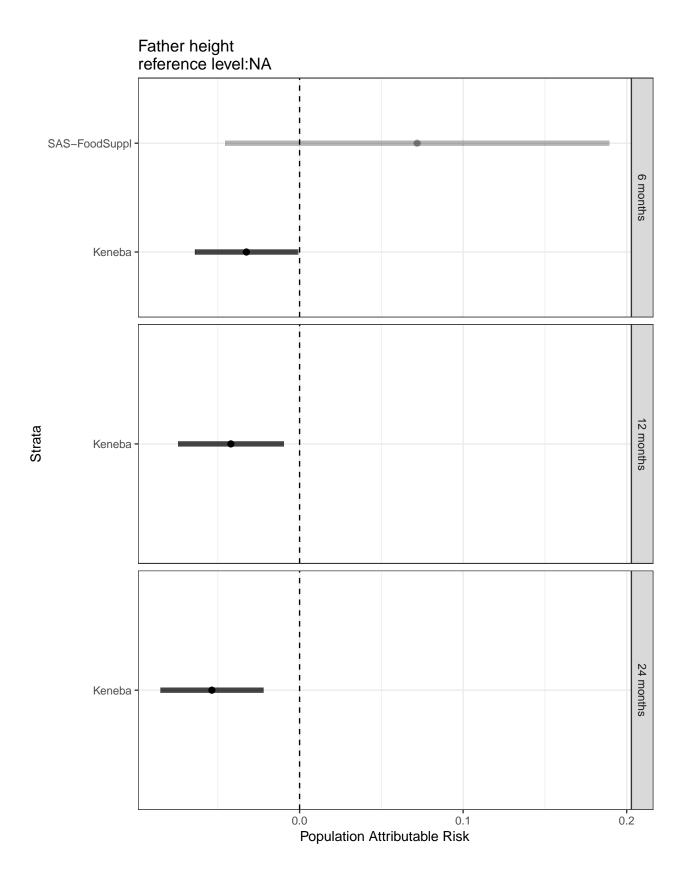


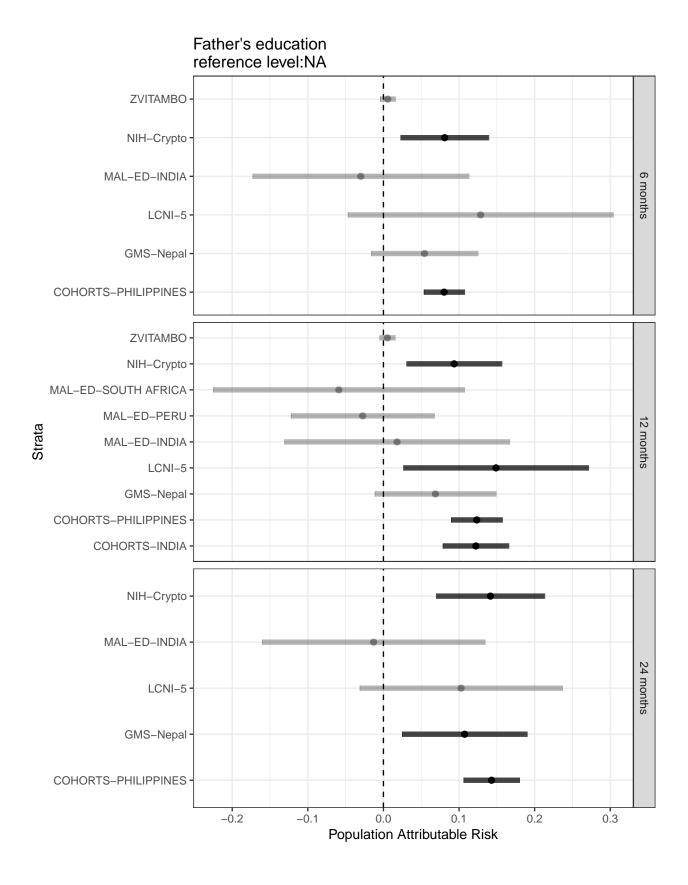
Mother's education reference level:NA



Paternal characteristics

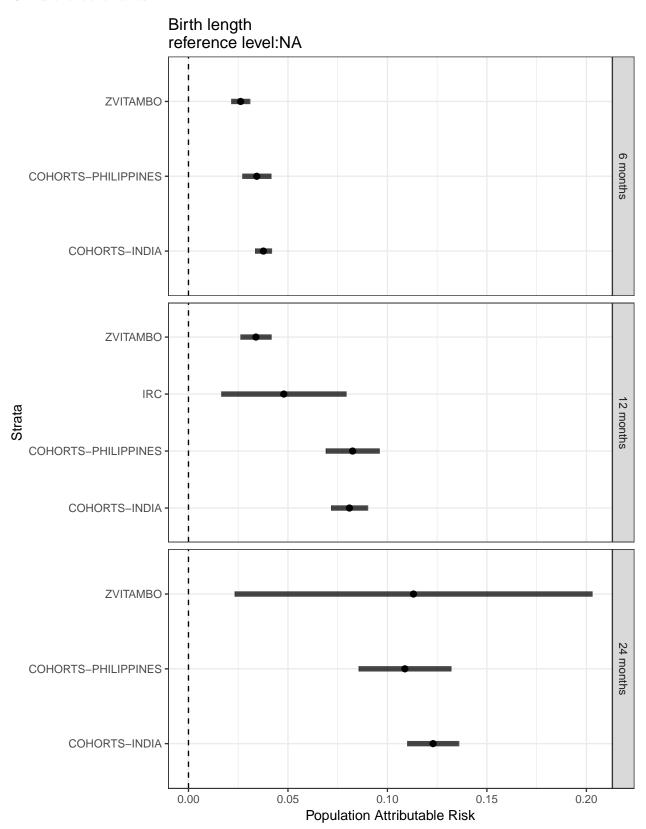


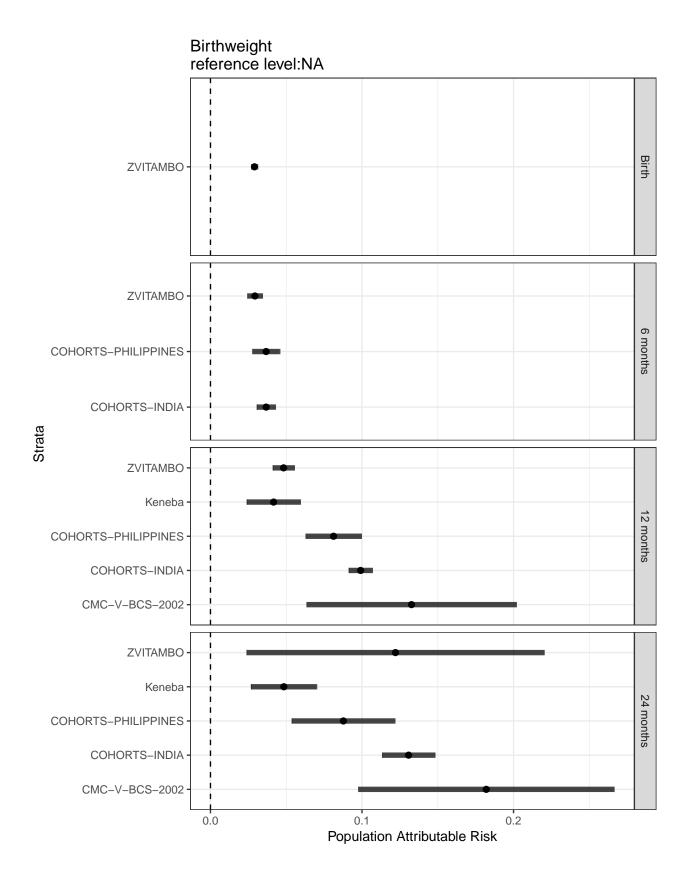




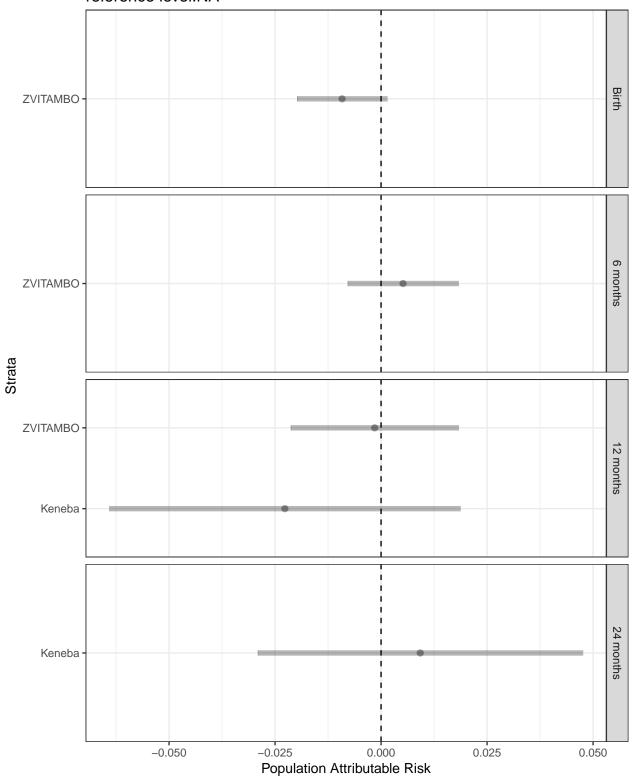
Point prevalence of severe stunting

Child characteristics

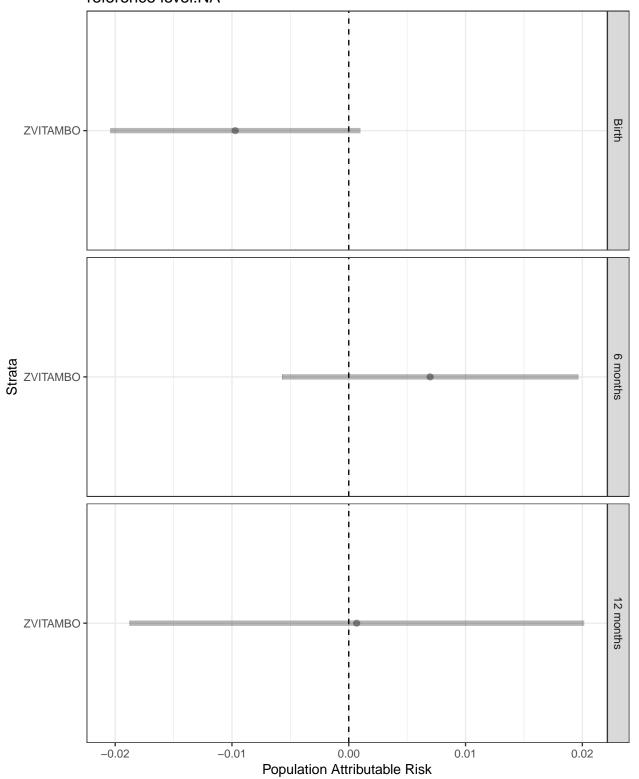


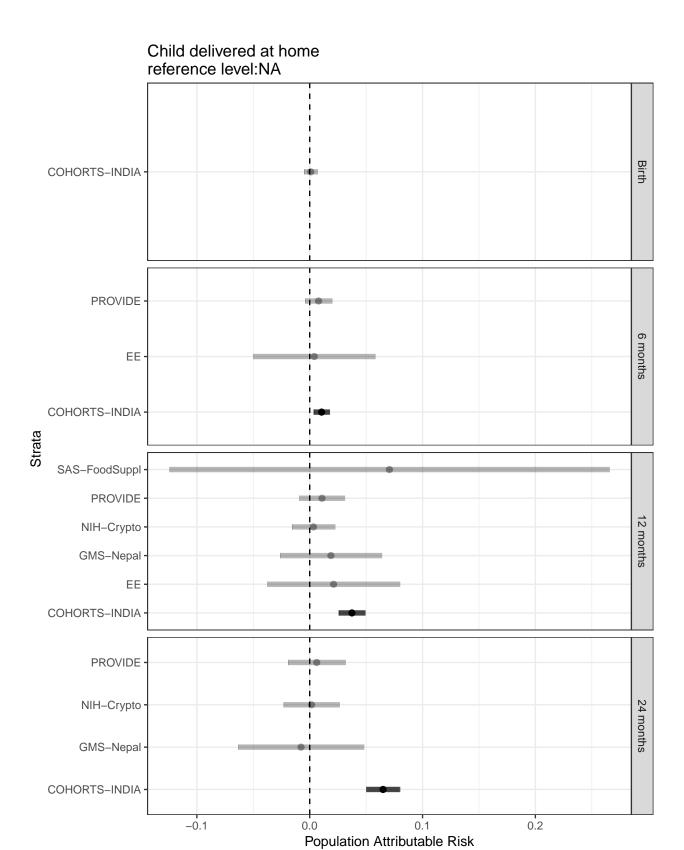


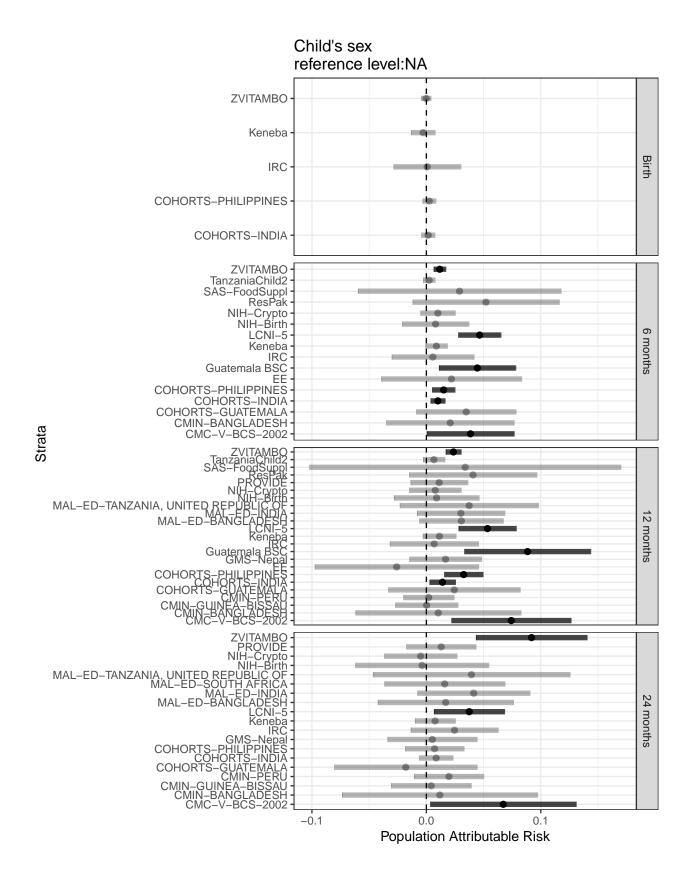
Calendar month of birth reference level:NA



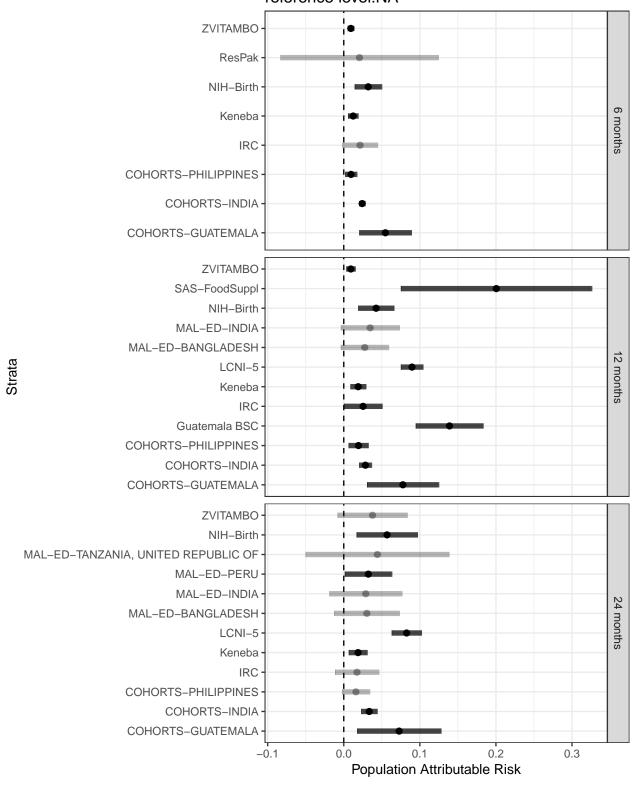
Calendar month of measurement reference level:NA

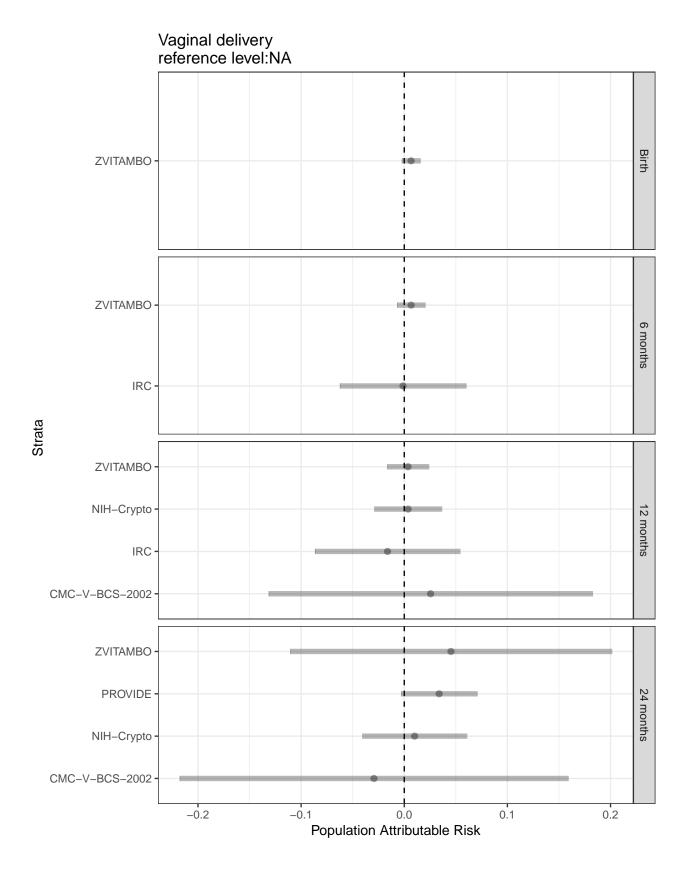






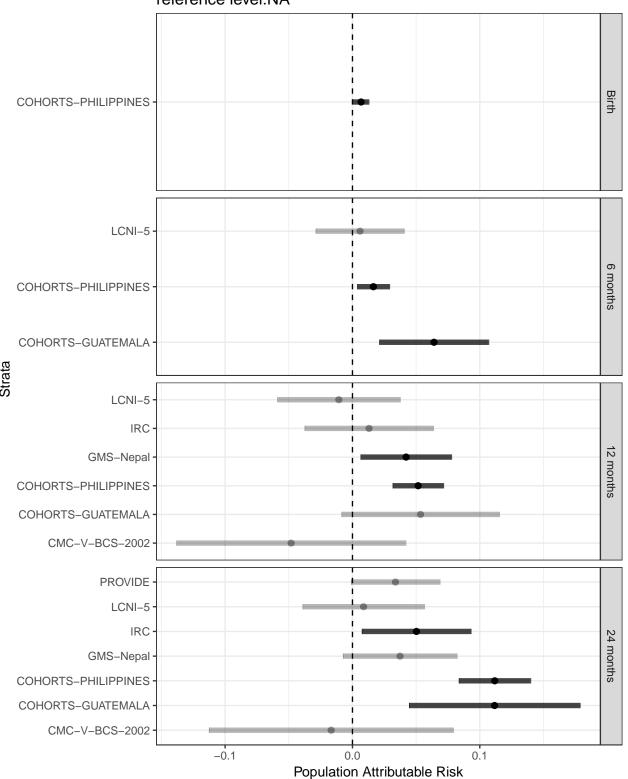
Stunted at enrollment reference level:NA



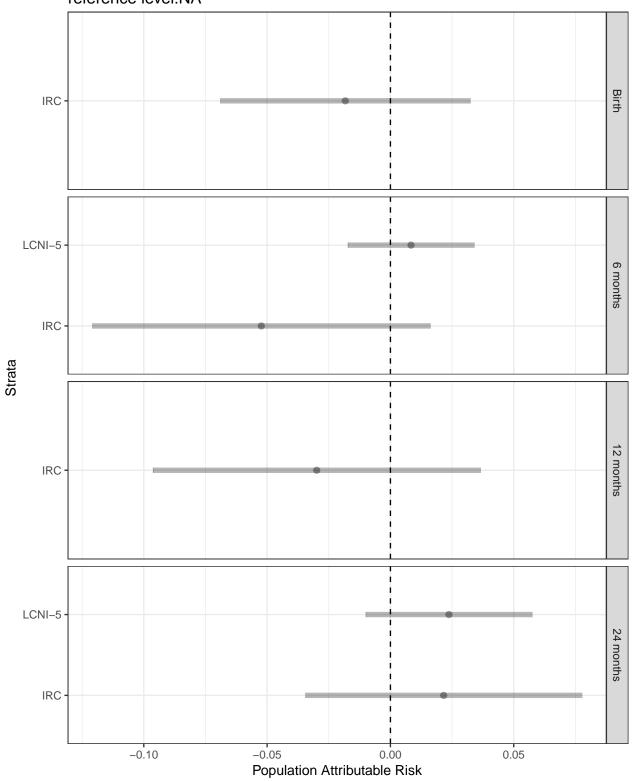


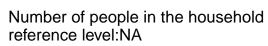
Household characteristics

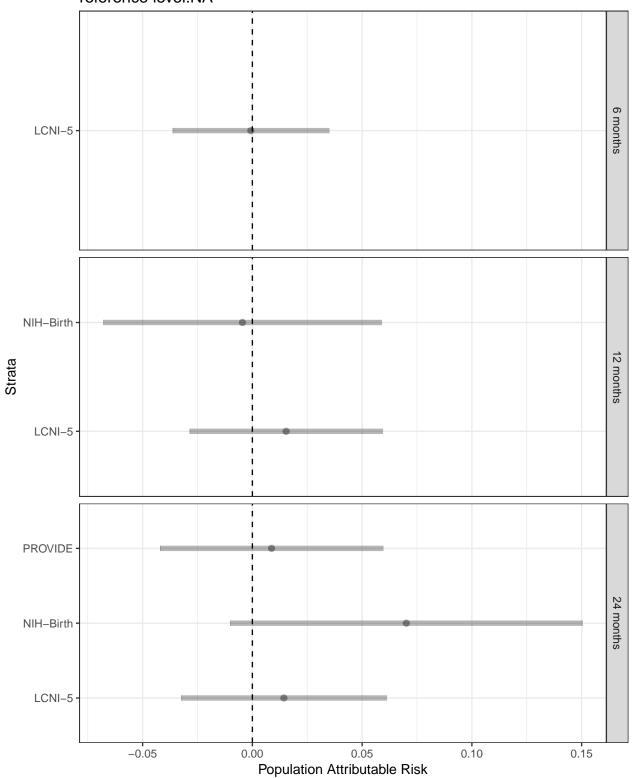
Asset based wealth index reference level:NA



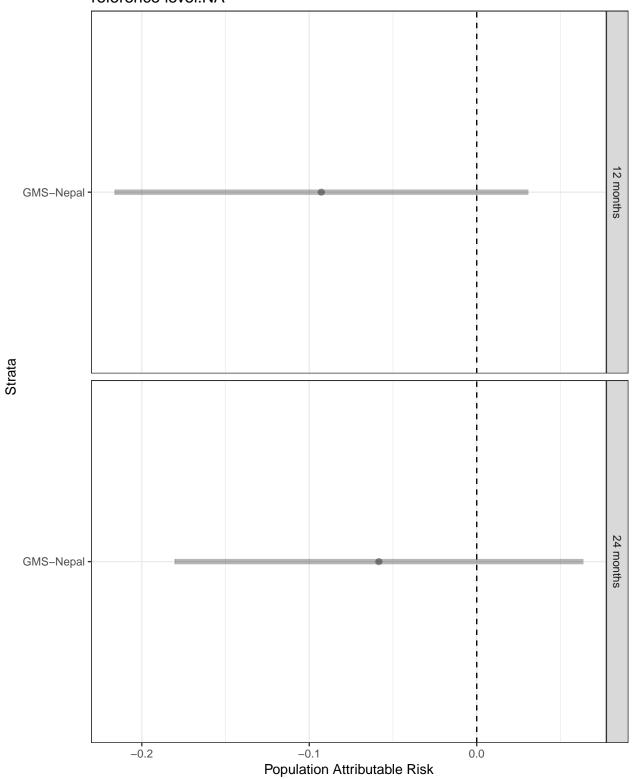
Number of children in the household under 5 years reference level:NA



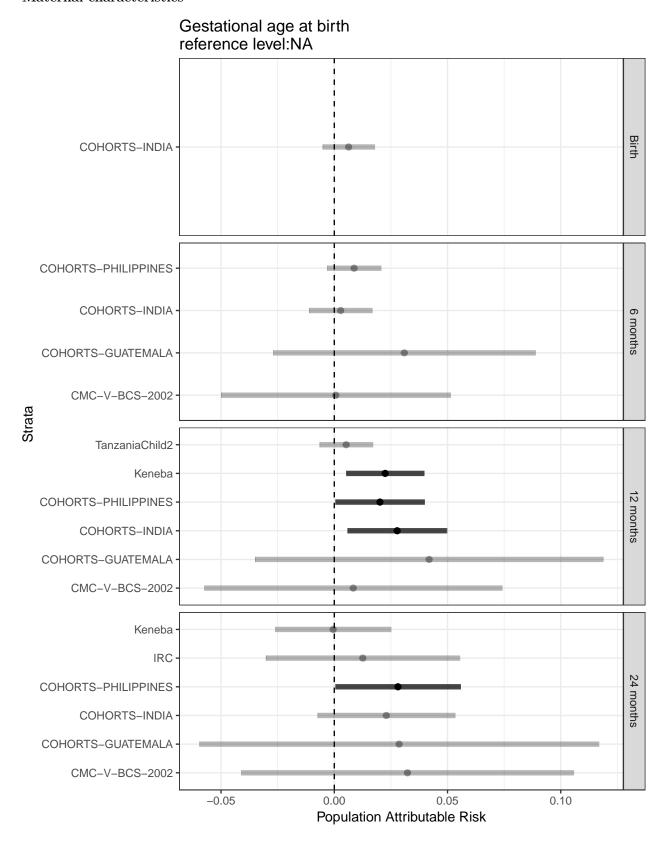


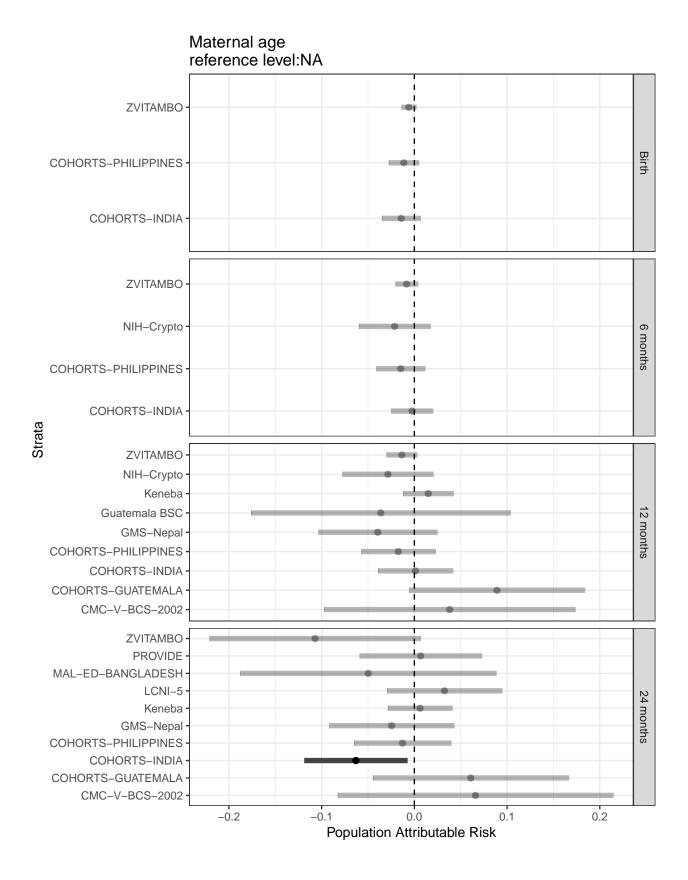


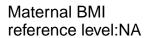
Number of rooms in household reference level:NA

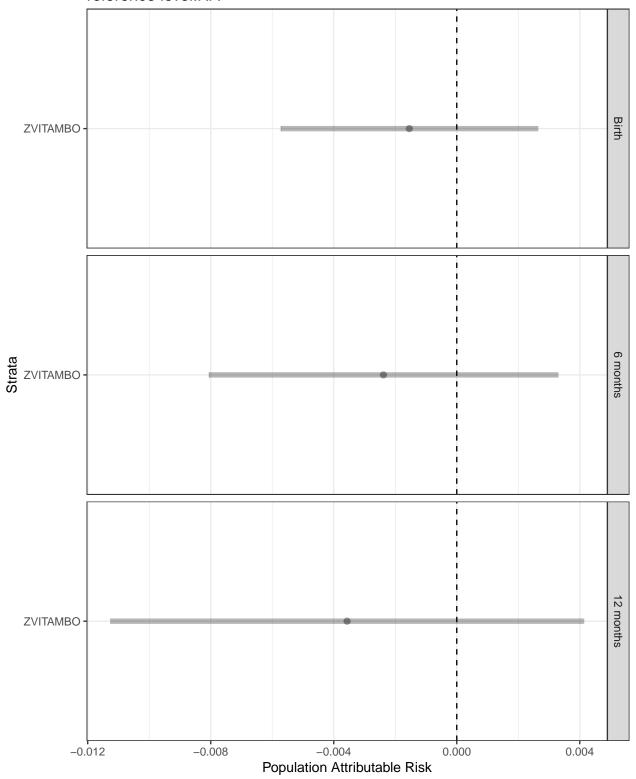


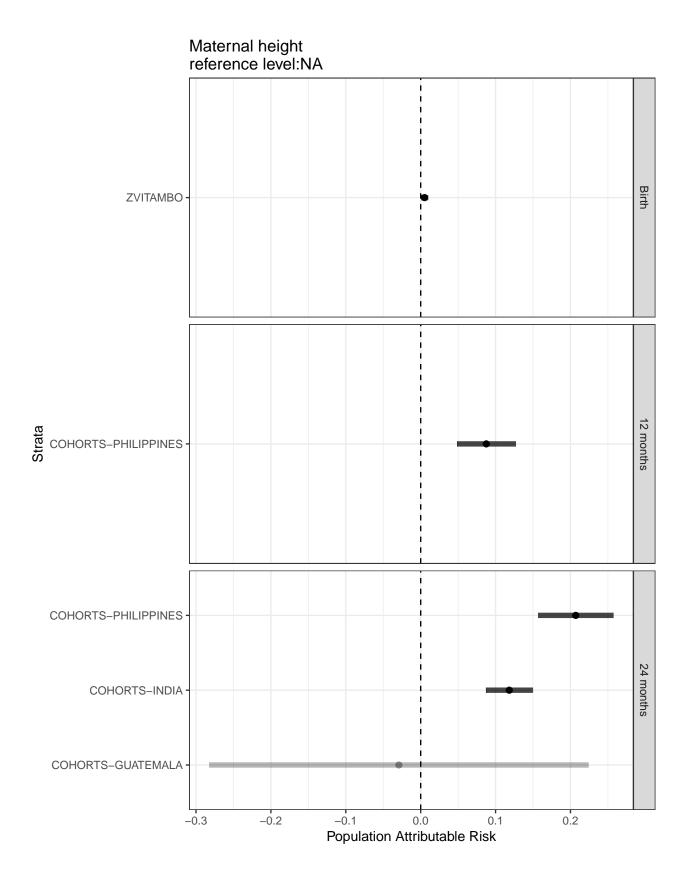
Maternal characteristics

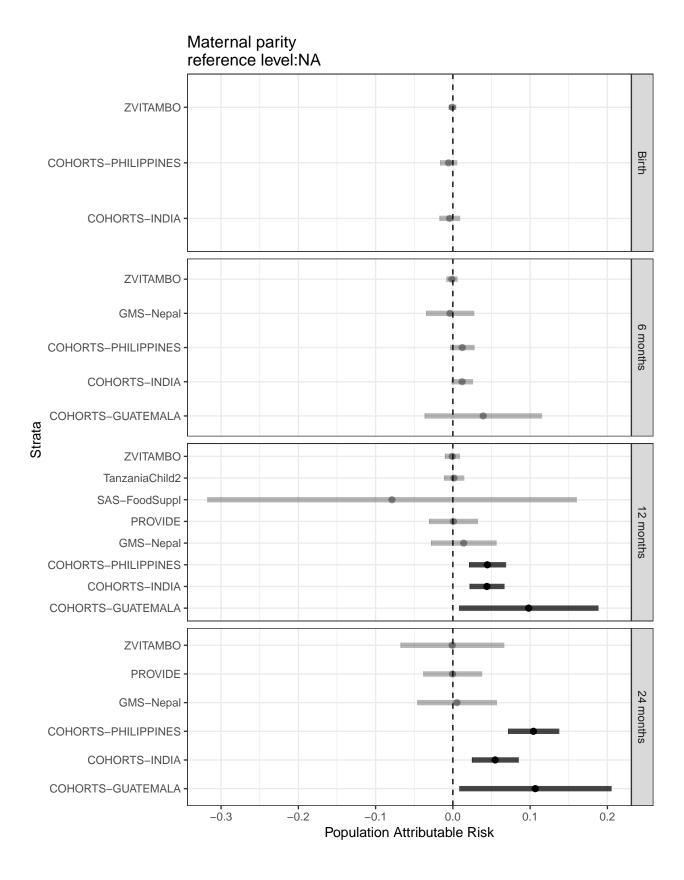


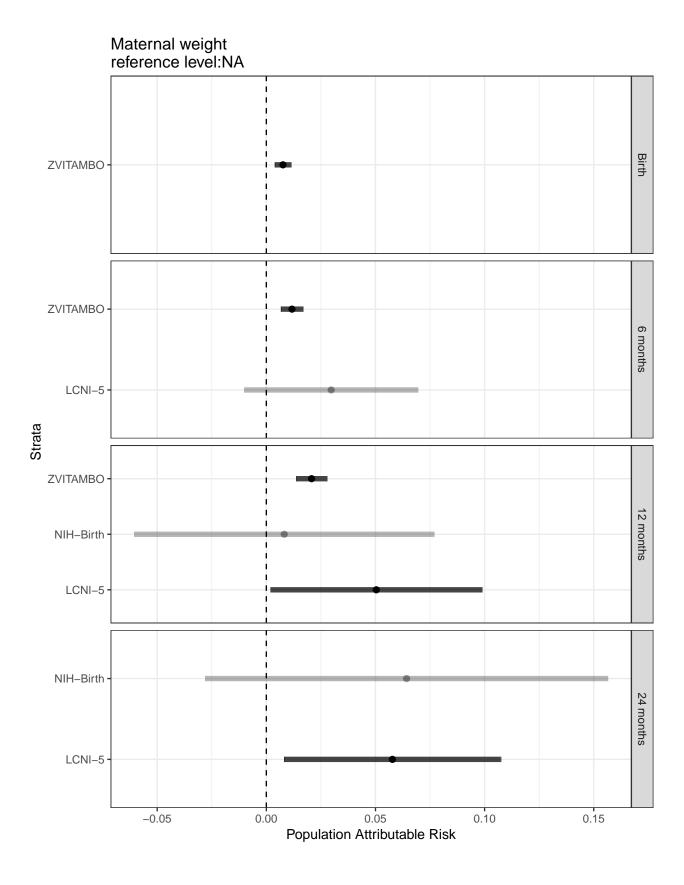


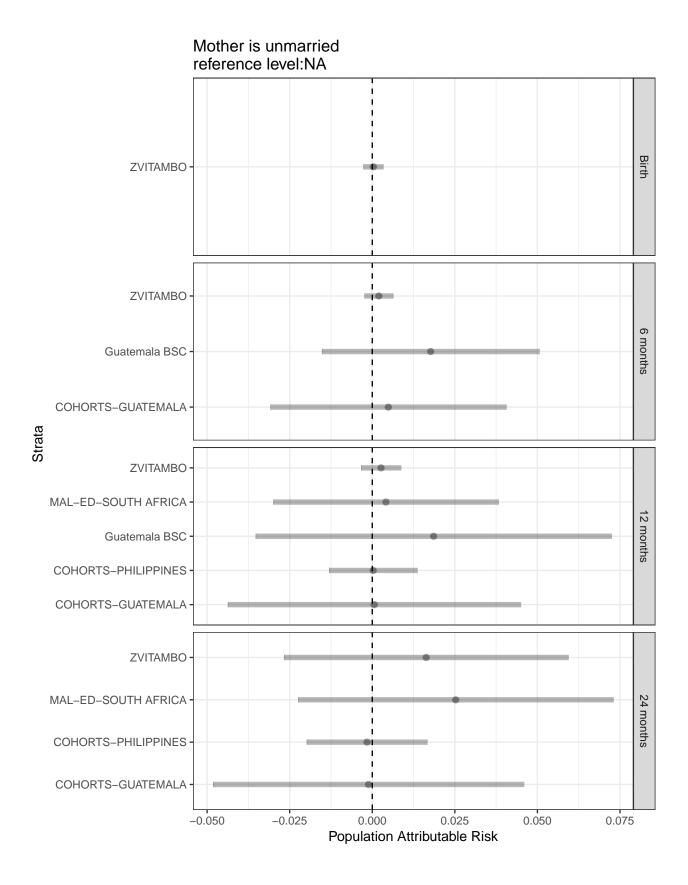


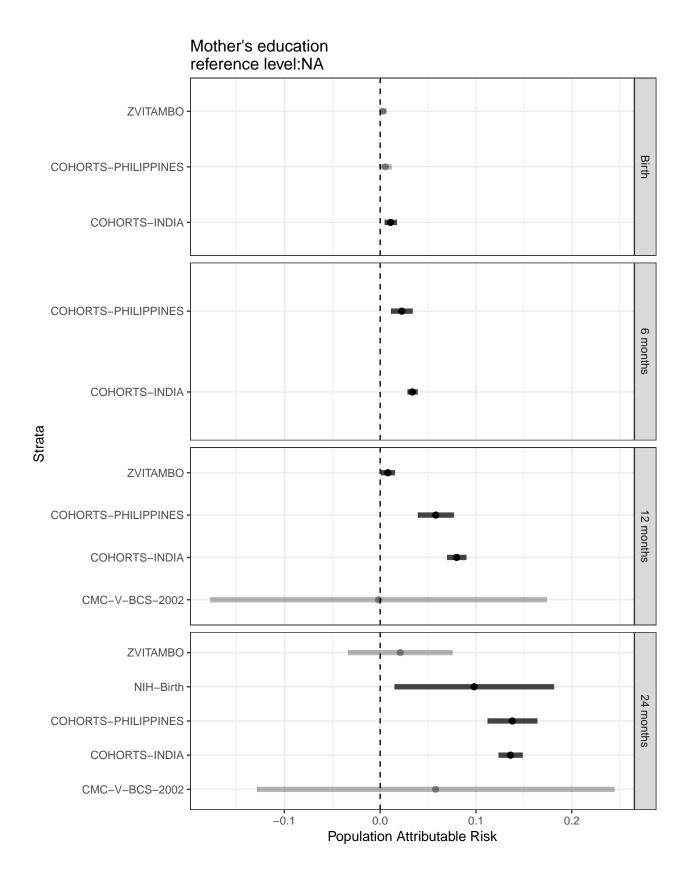




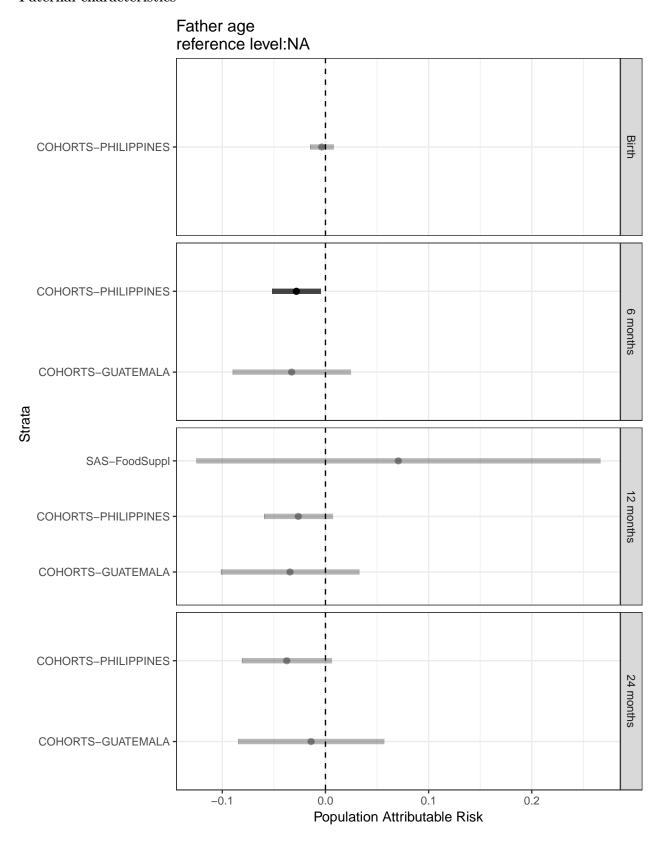


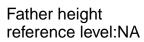


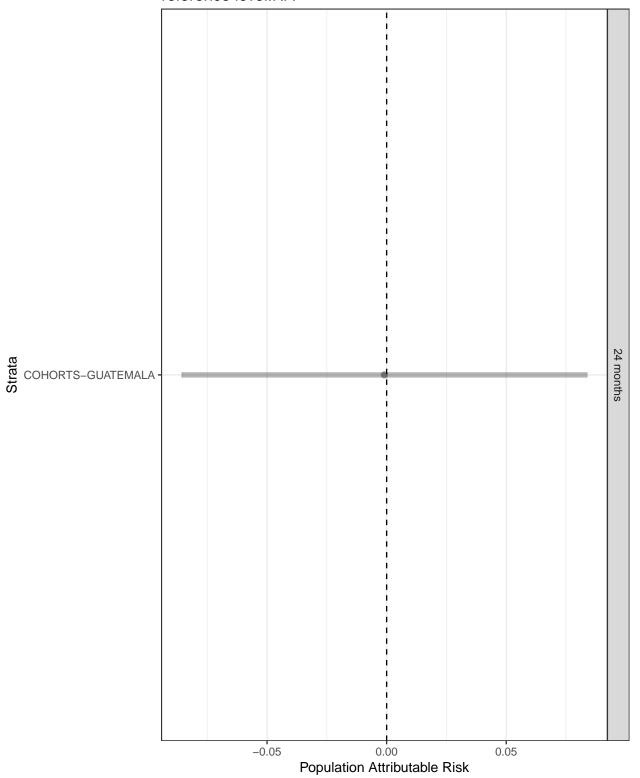


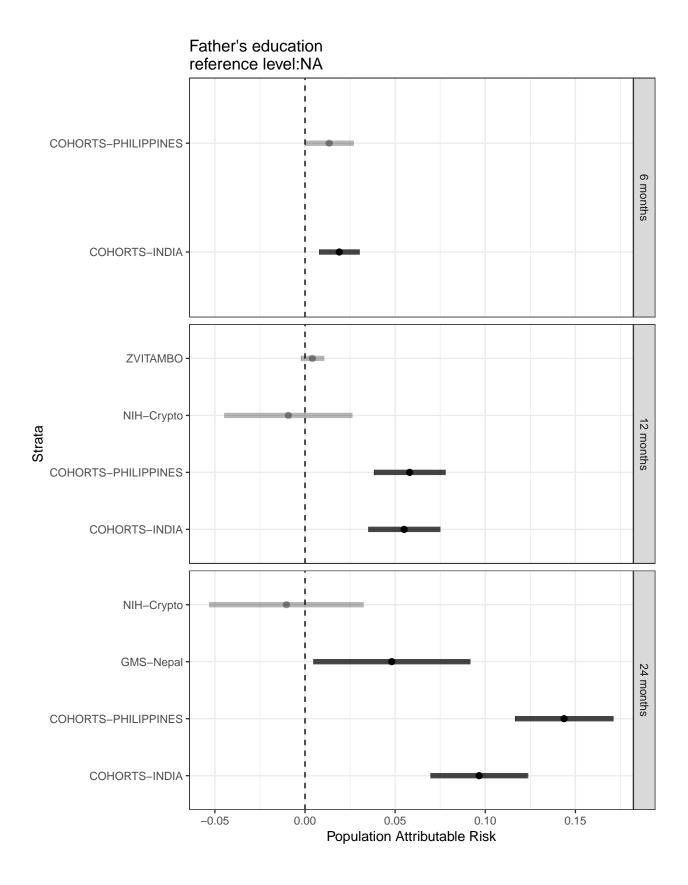


Paternal characteristics



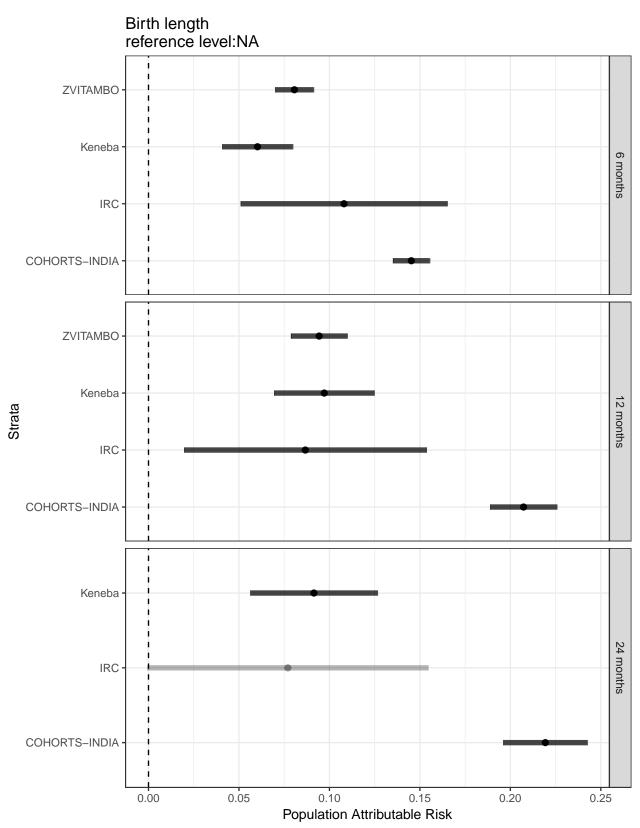


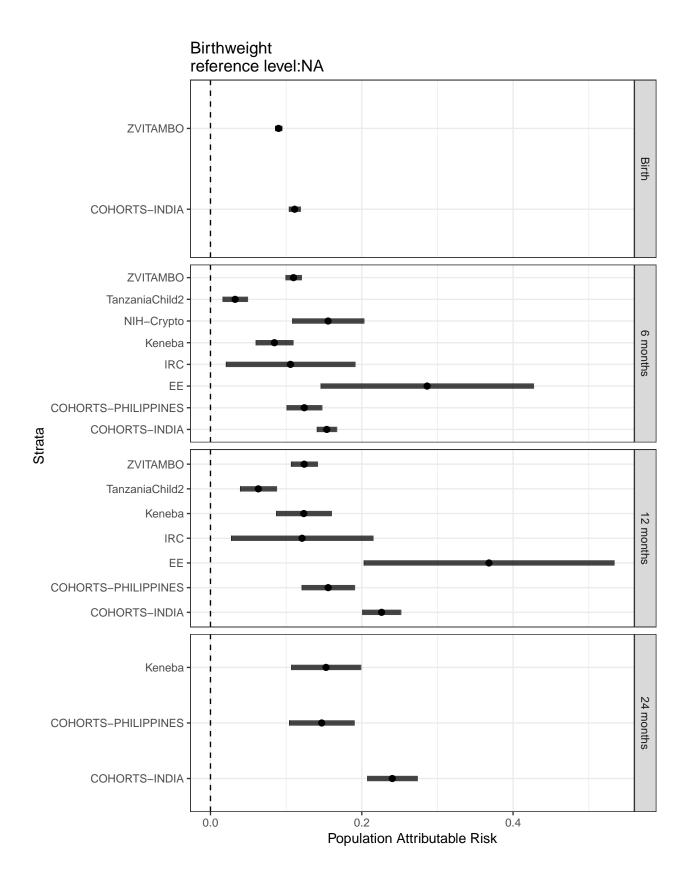


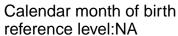


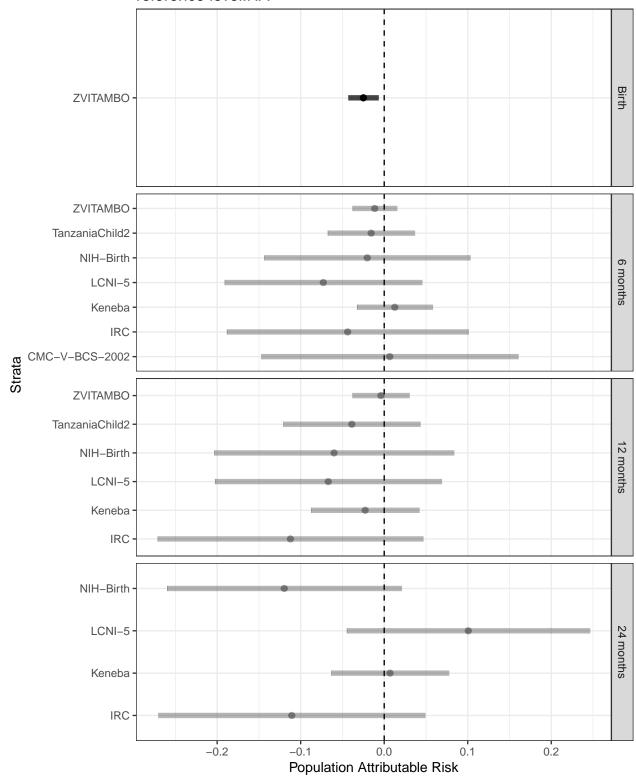
Point prevalence of stunting

Child characteristics

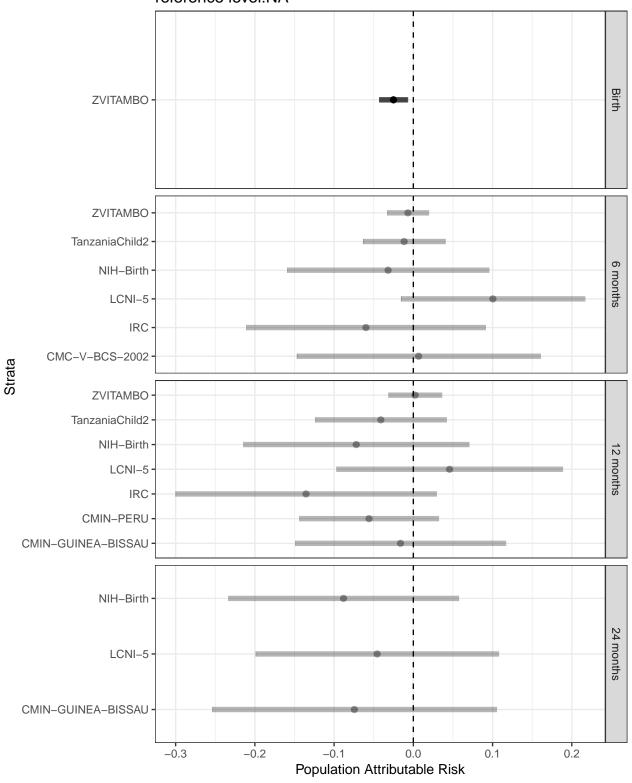




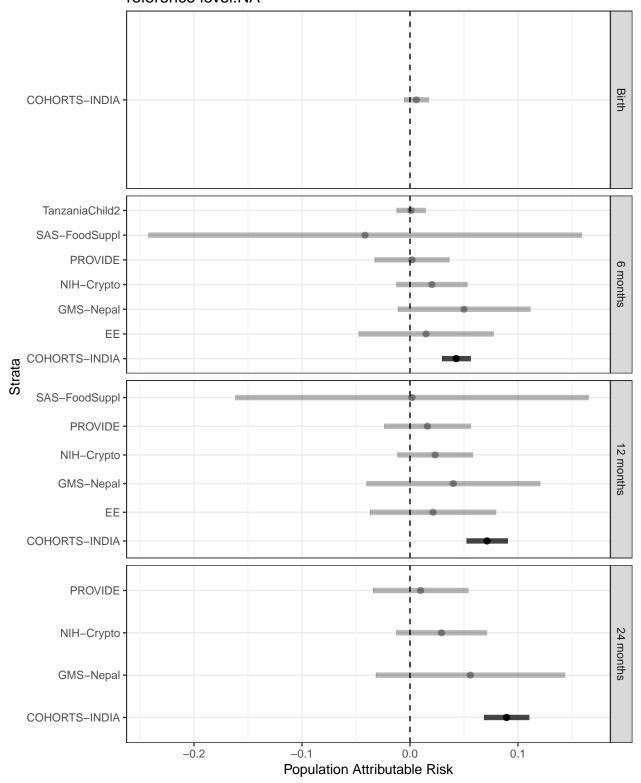




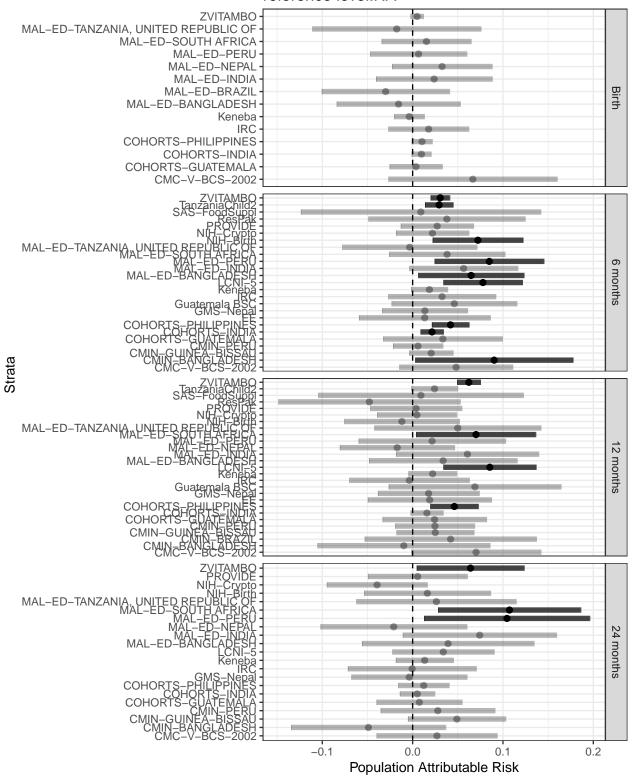
Calendar month of measurement reference level:NA



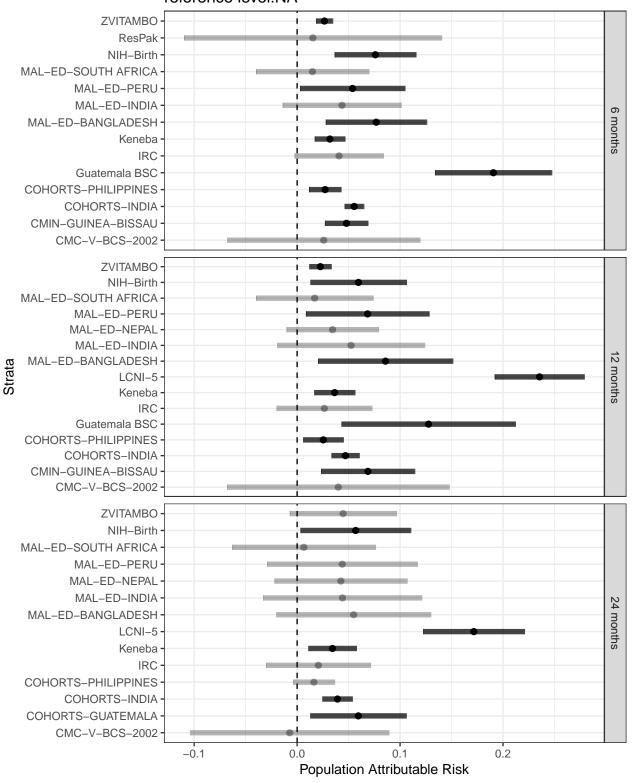
Child delivered at home reference level:NA

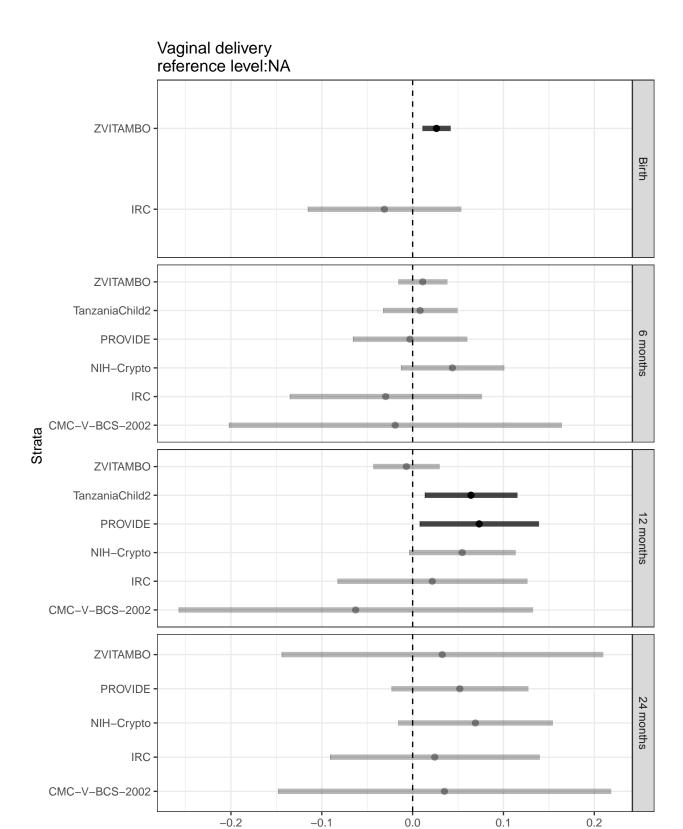


Child's sex reference level:NA



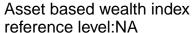
Stunted at enrollment reference level:NA

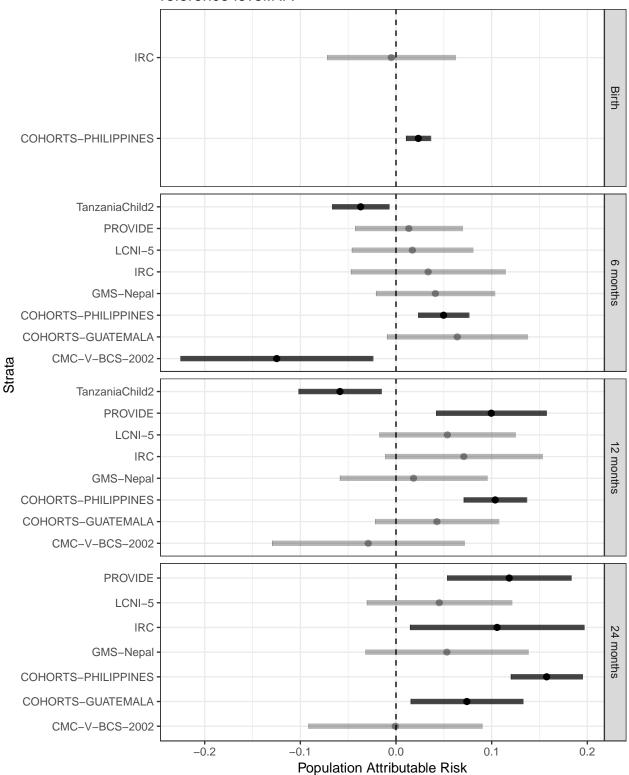




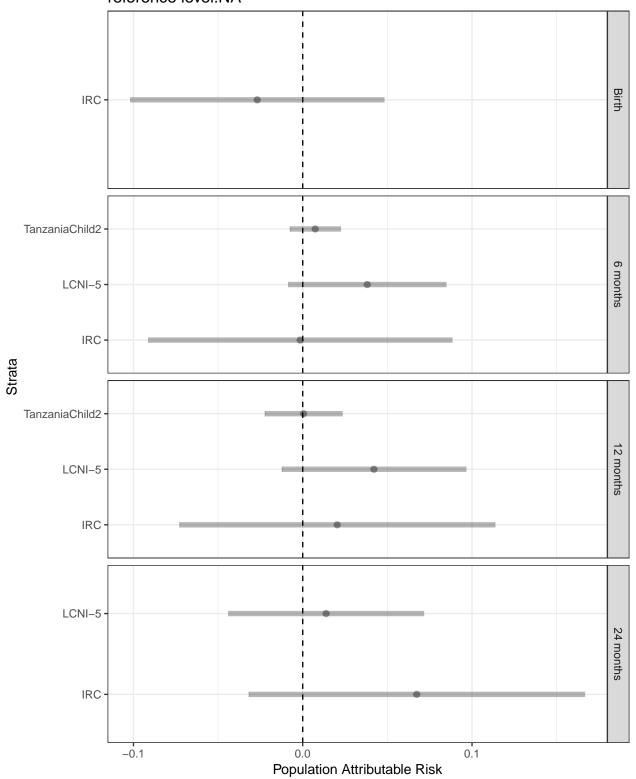
Population Attributable Risk

Household characteristics

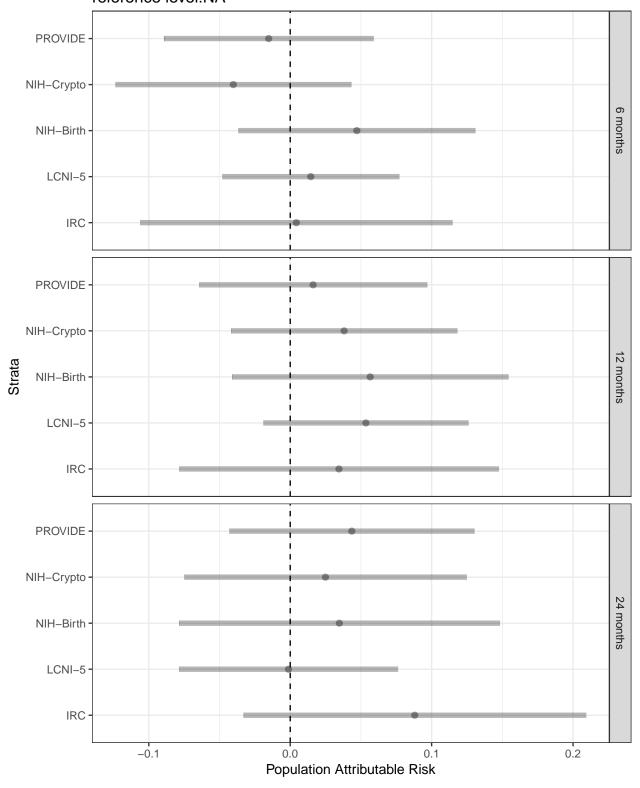


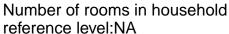


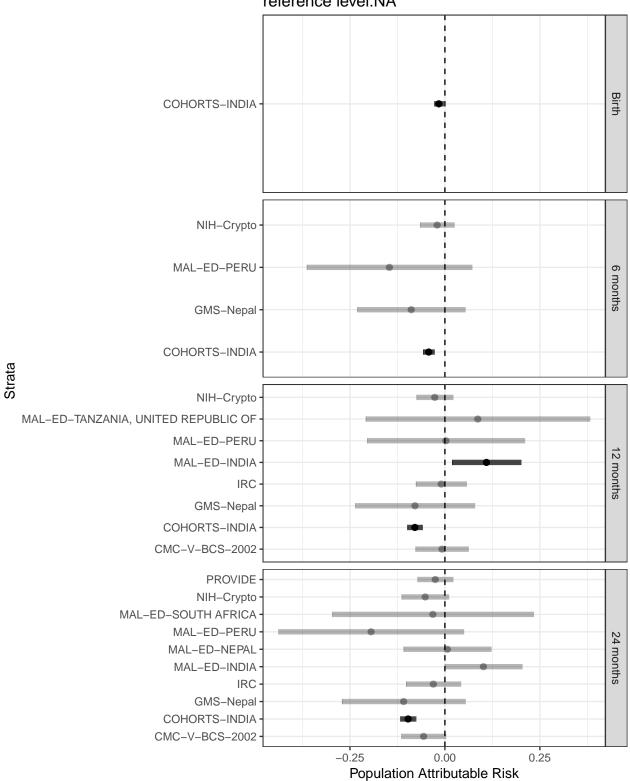
Number of children in the household under 5 years reference level:NA



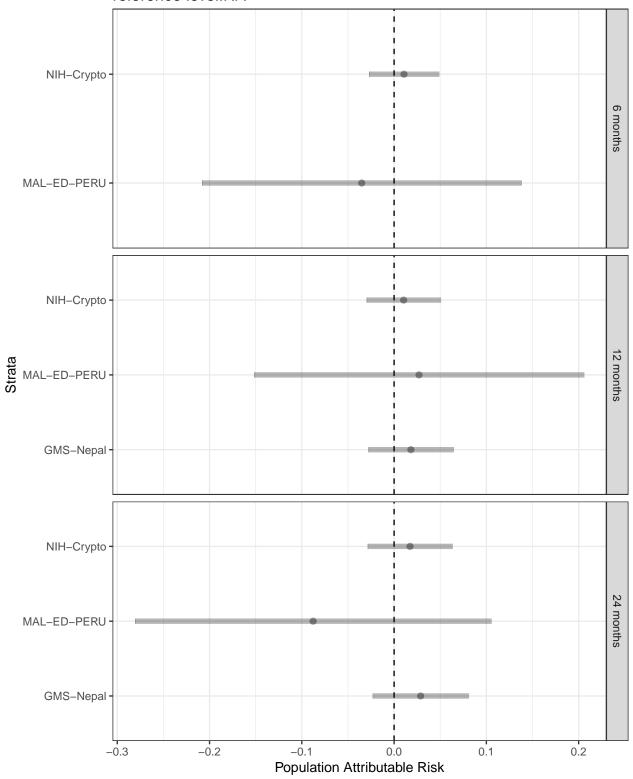
Number of people in the household reference level:NA







USAID Household Food Insecurity Access Scale (HFIAS) category reference level:NA



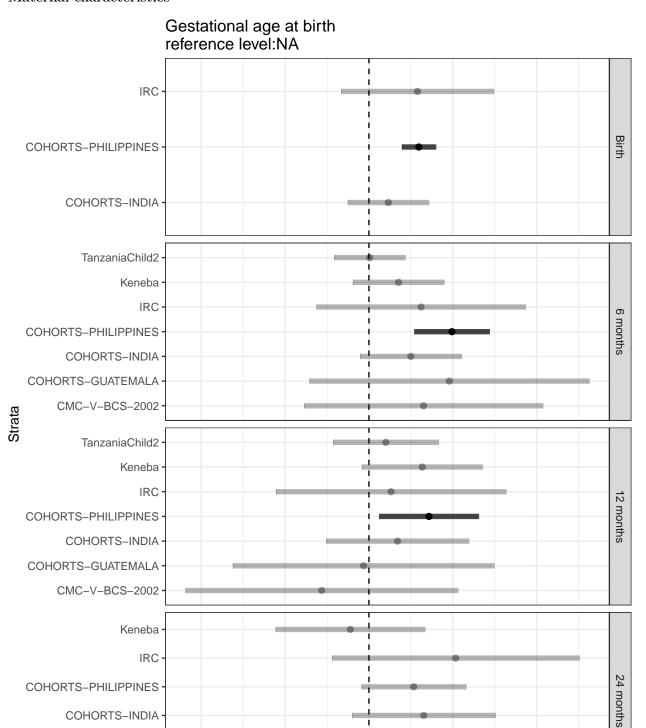
Maternal characteristics

COHORTS-INDIA

CMC-V-BCS-2002

-0.10

COHORTS-GUATEMALA



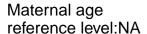
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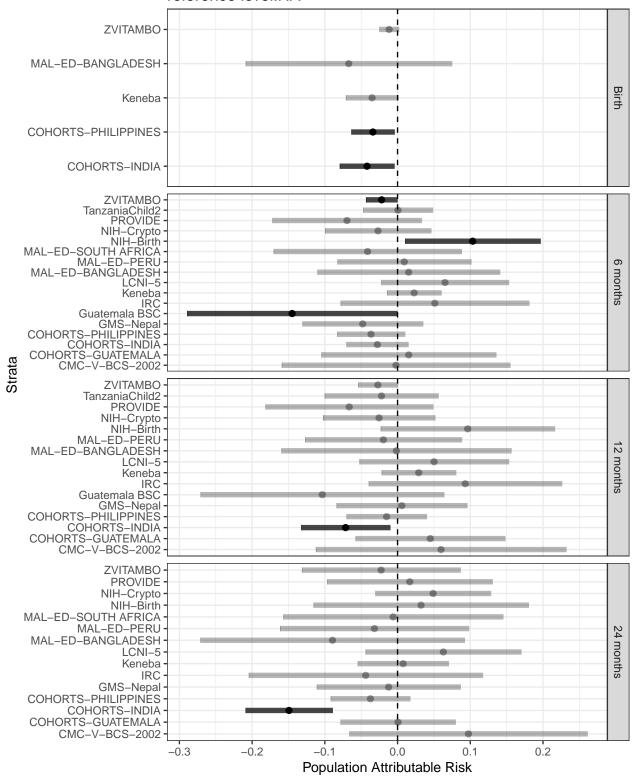
Population Attributable Risk

0.05

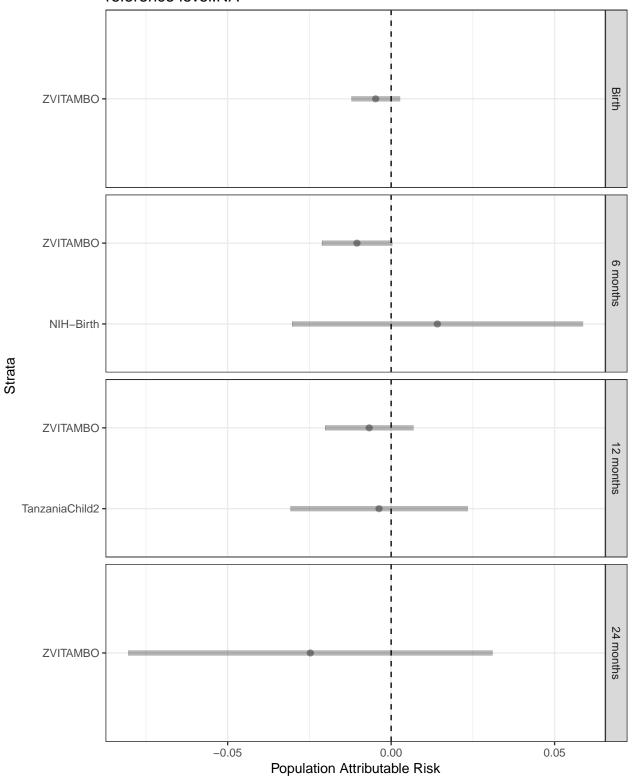
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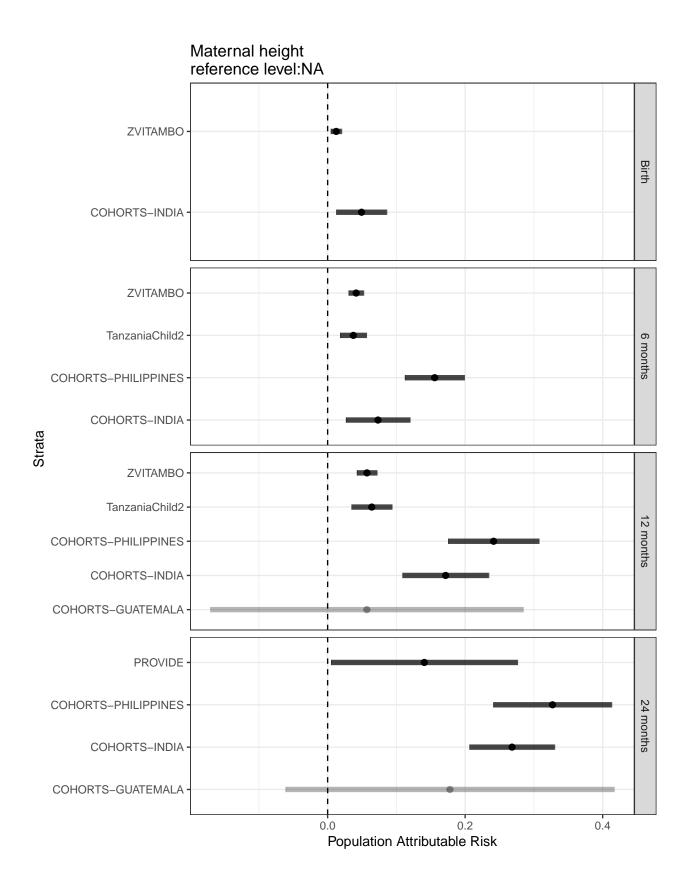
0.10

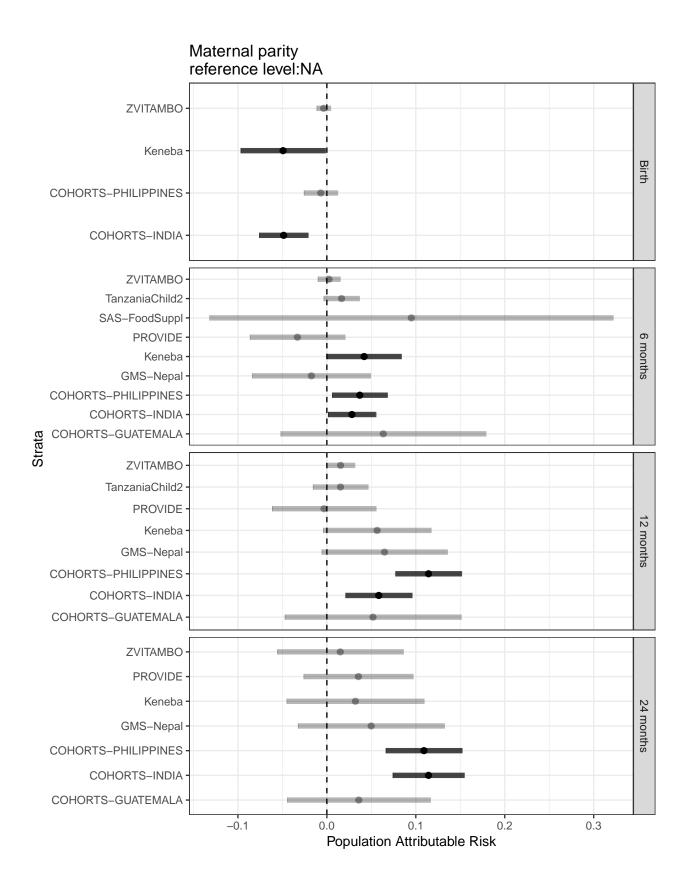


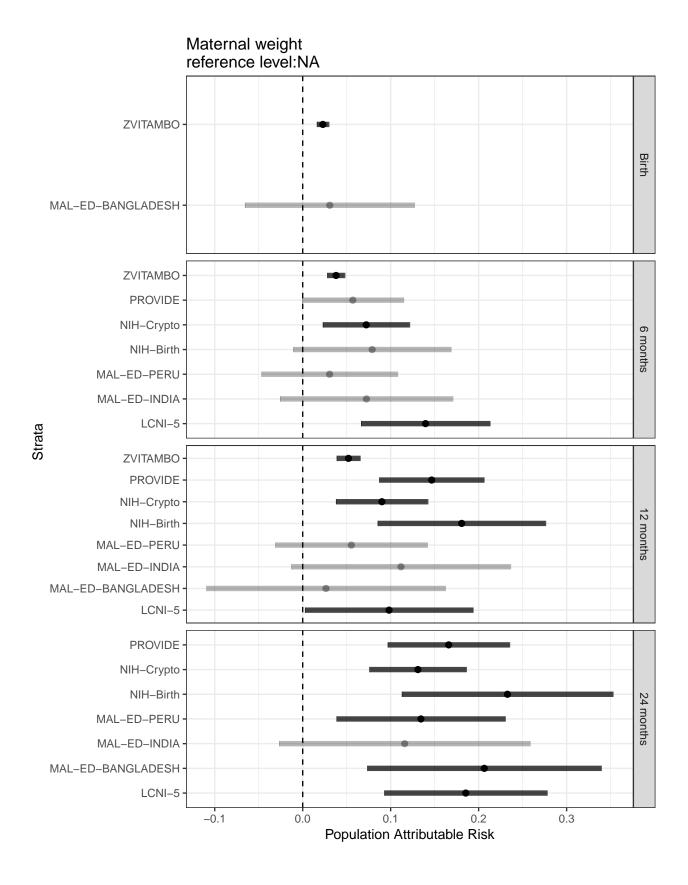




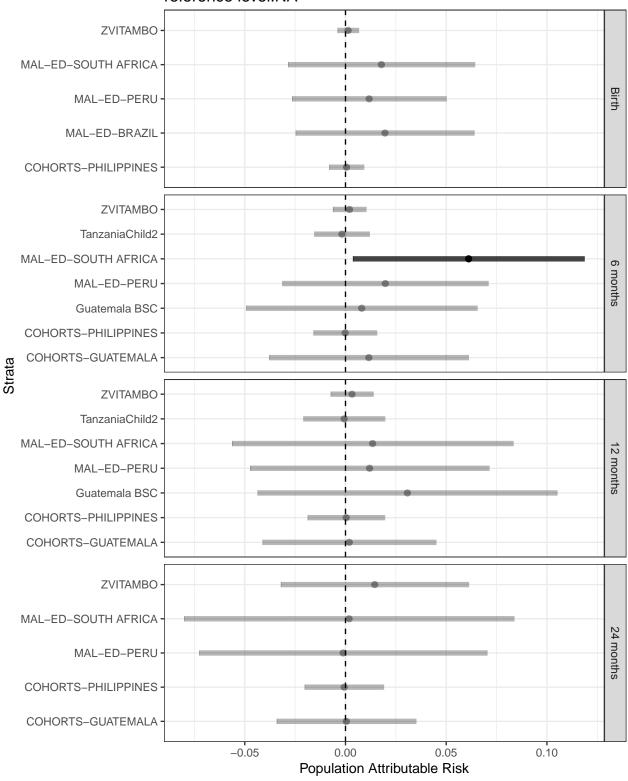


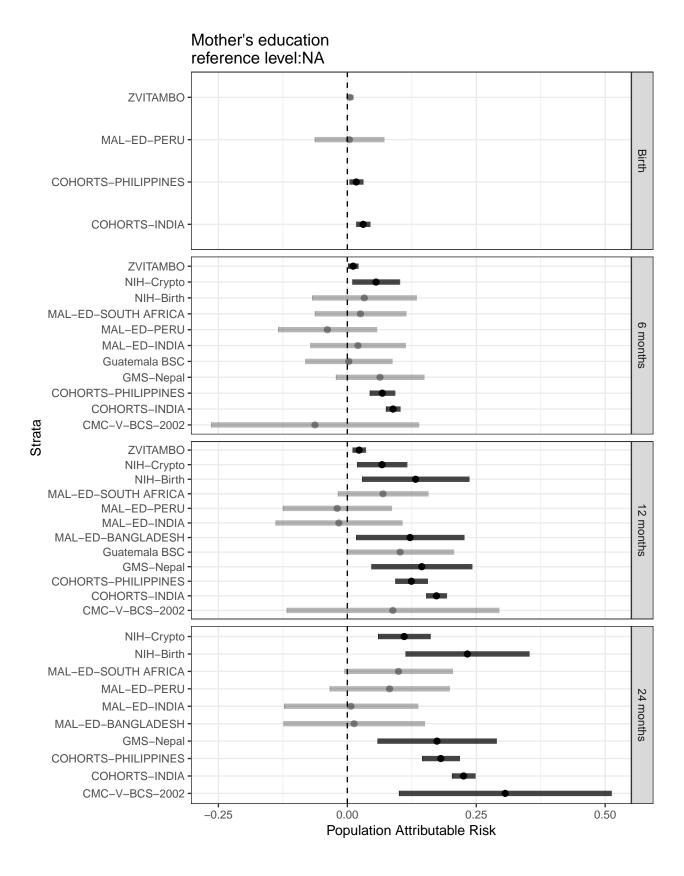




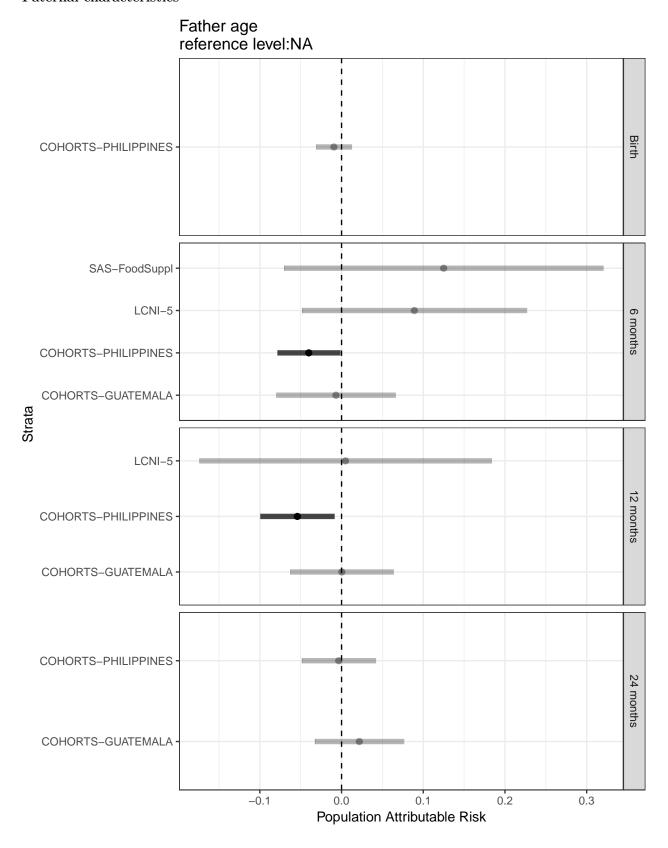


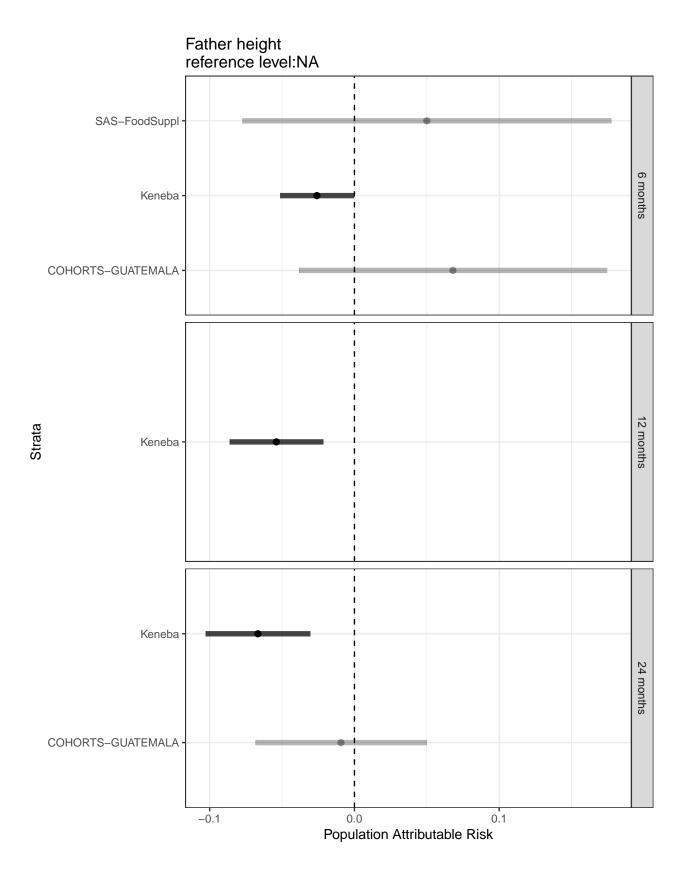
Mother is unmarried reference level:NA

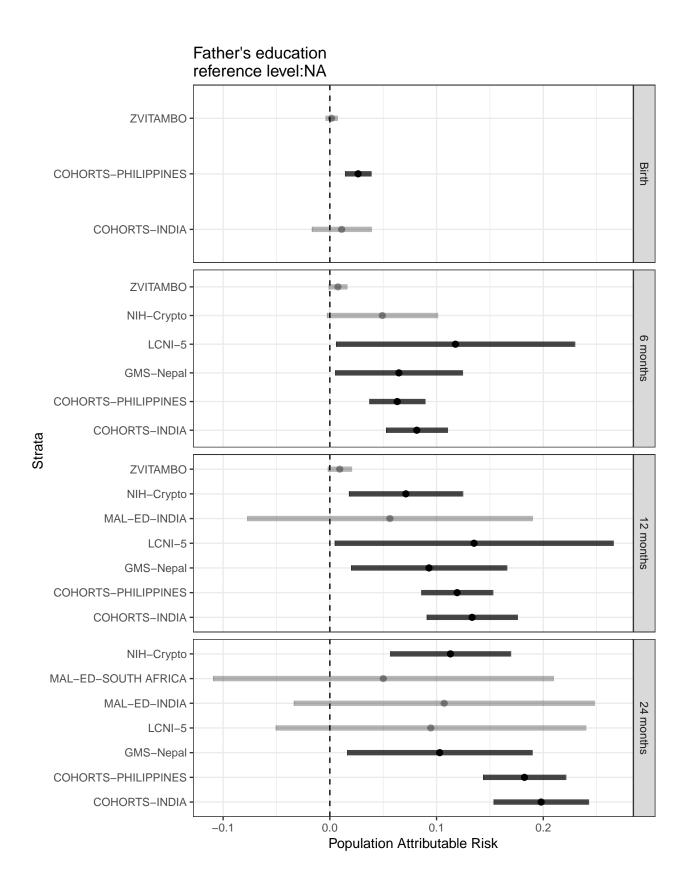




Paternal characteristics

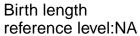


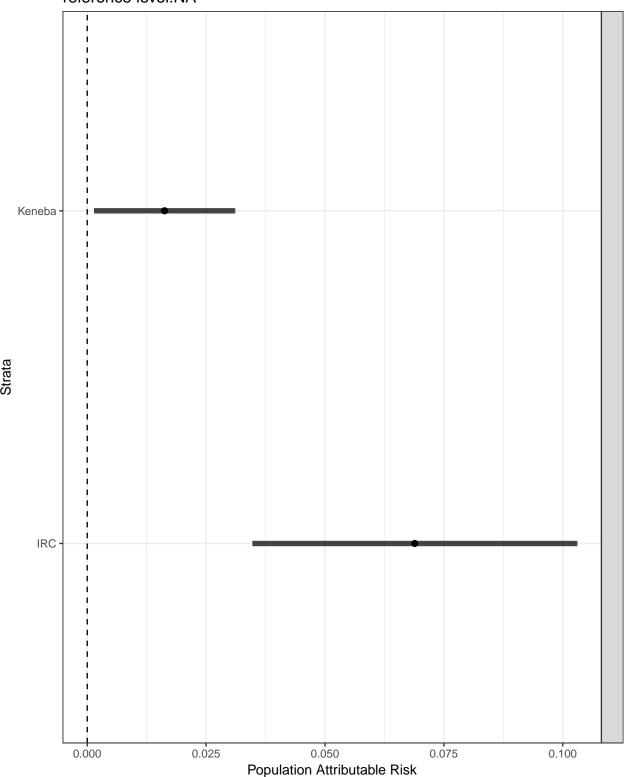




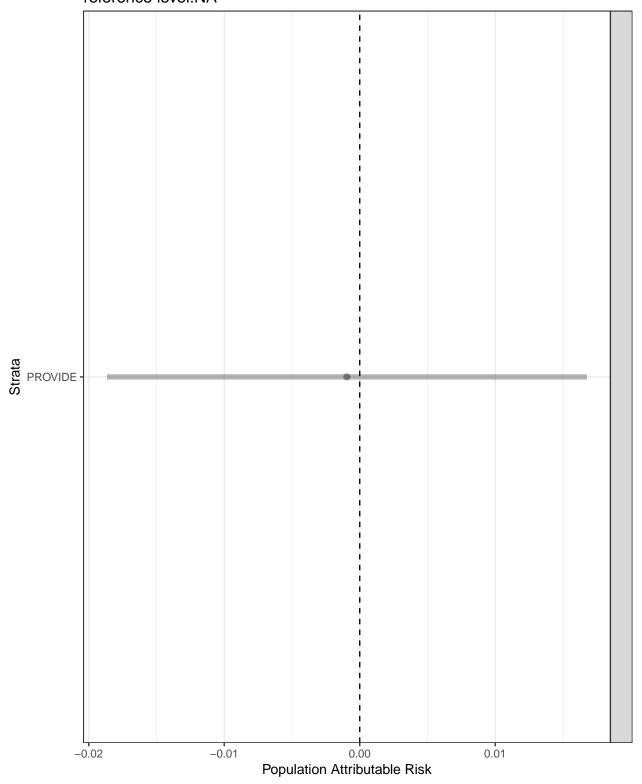
Proportion of children who were stunted between birth and 3 months who recovered by 24 months

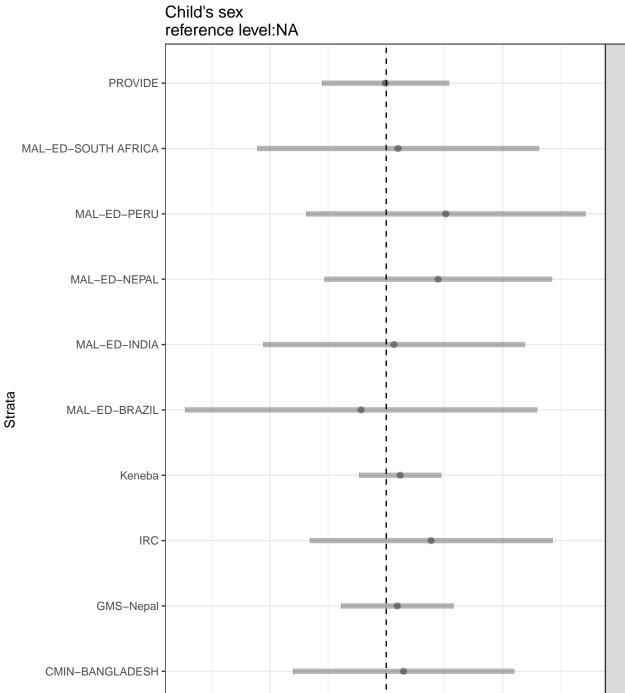
Child characteristics



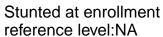


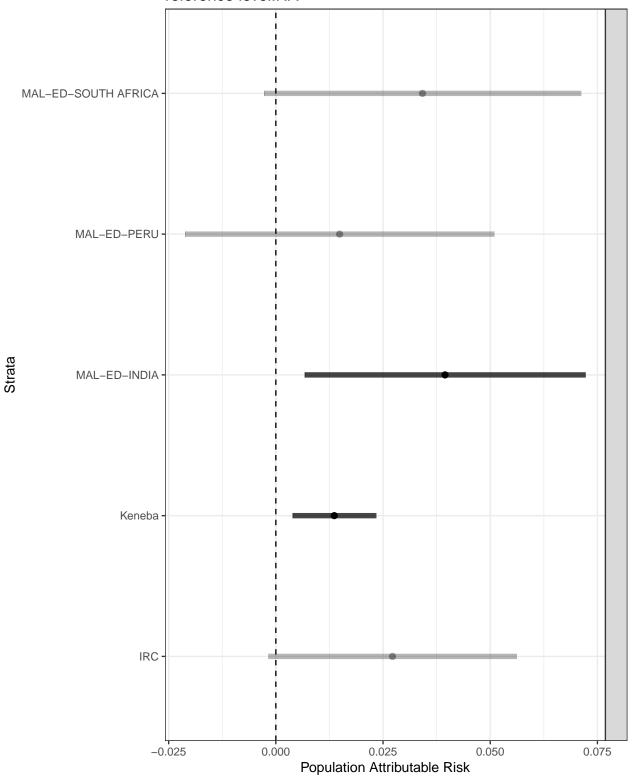
Child delivered at home reference level:NA

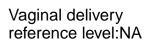


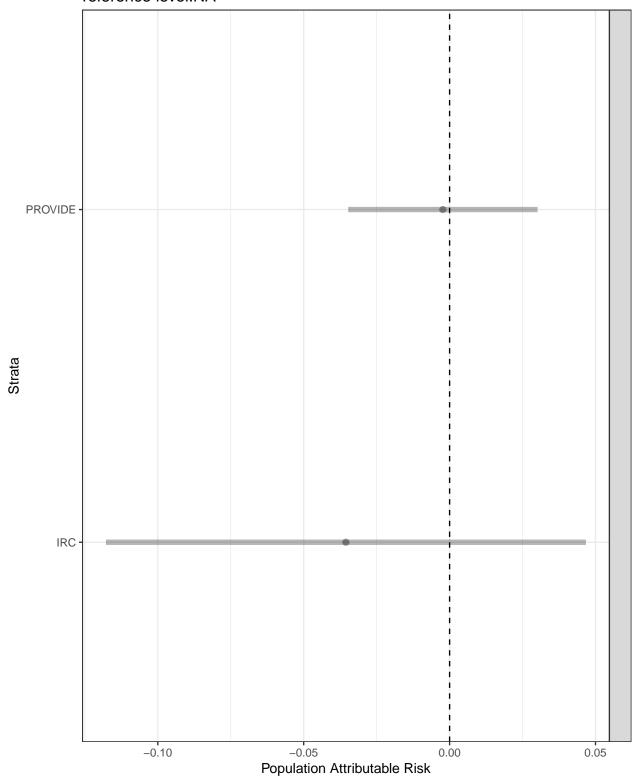


CMC-V-BCS-2002



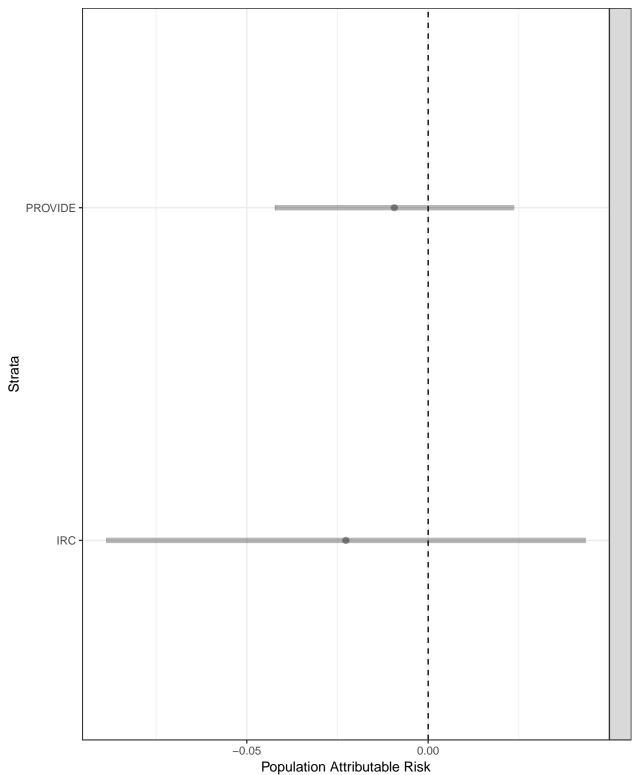




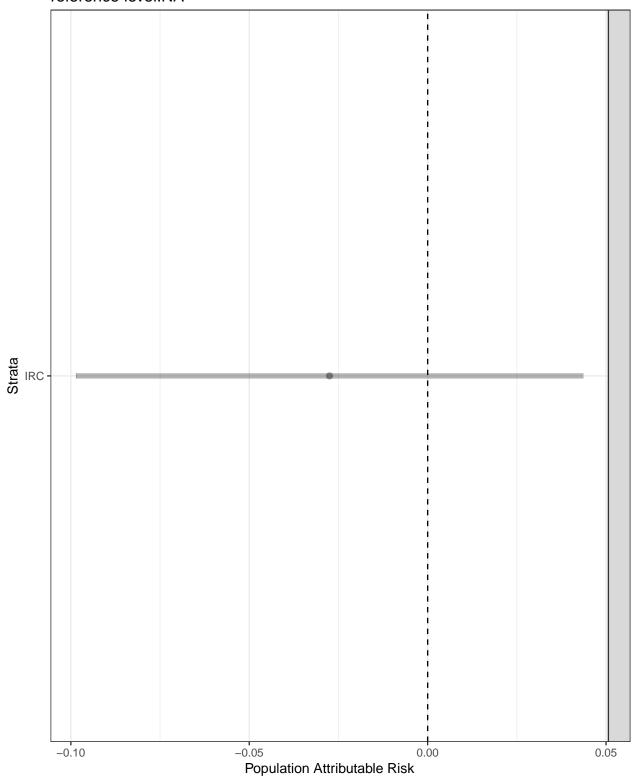


Household characteristics

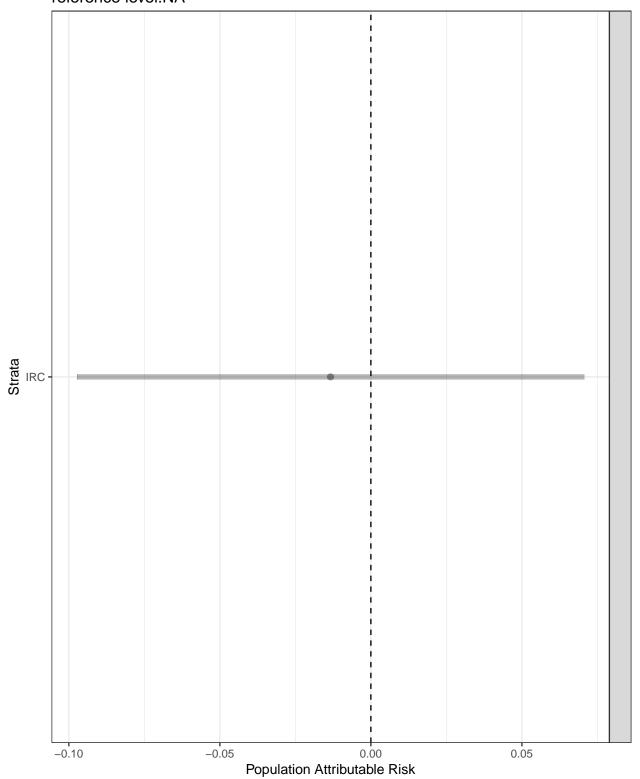
Asset based wealth index reference level:NA



Number of children in the household under 5 years reference level:NA

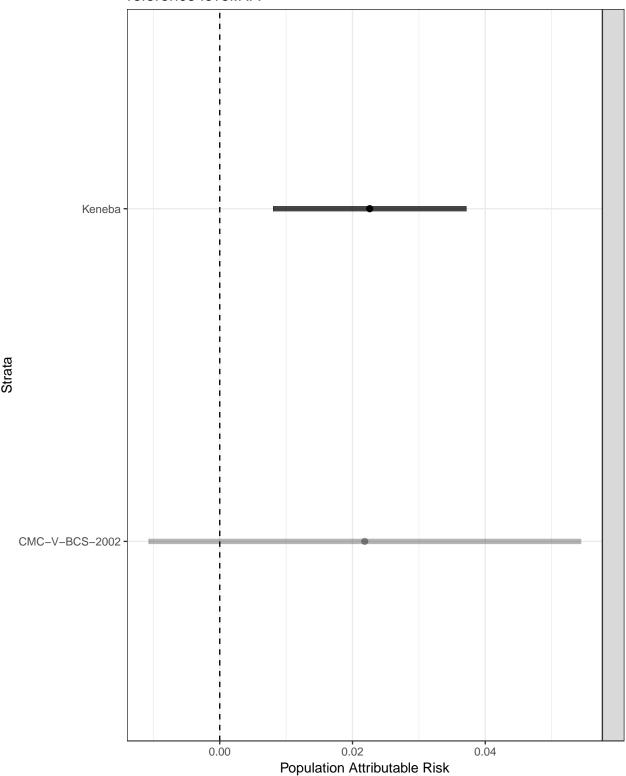


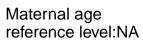
Number of people in the household reference level:NA

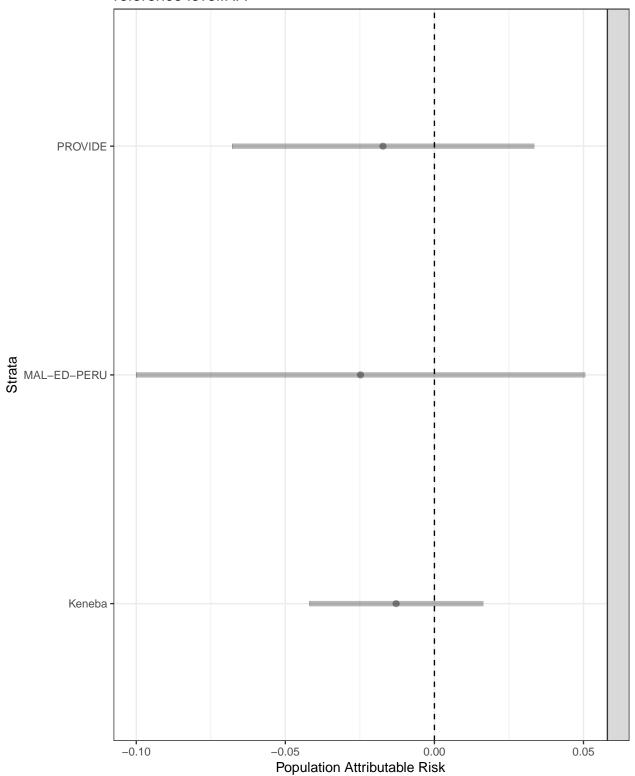


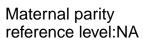
Maternal characteristics

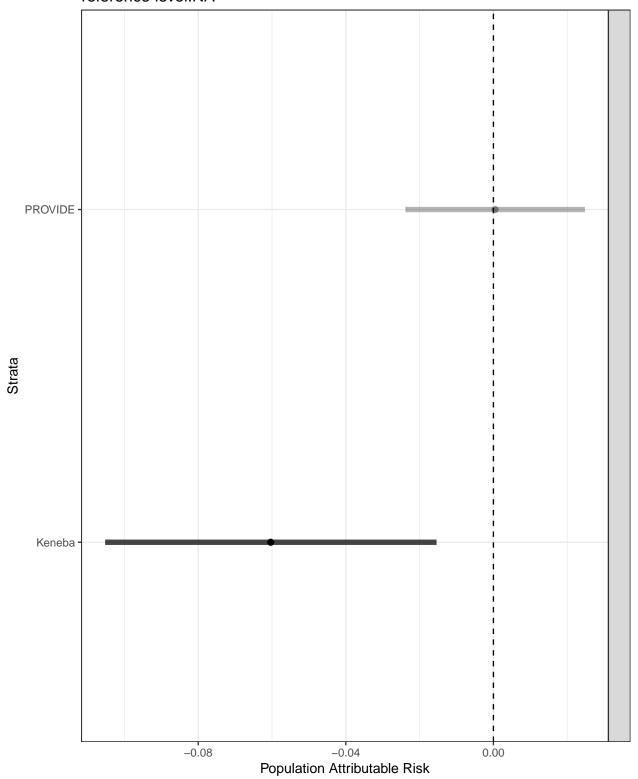
Gestational age at birth reference level:NA

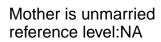


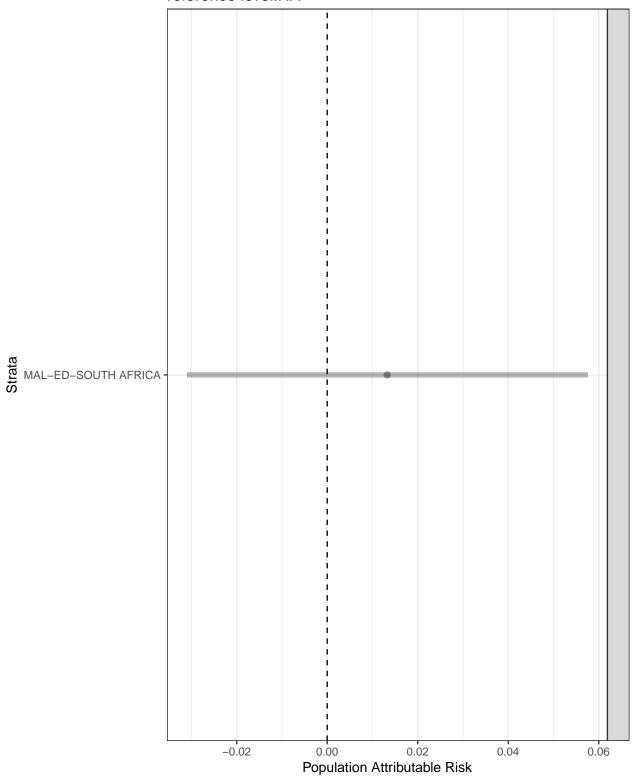








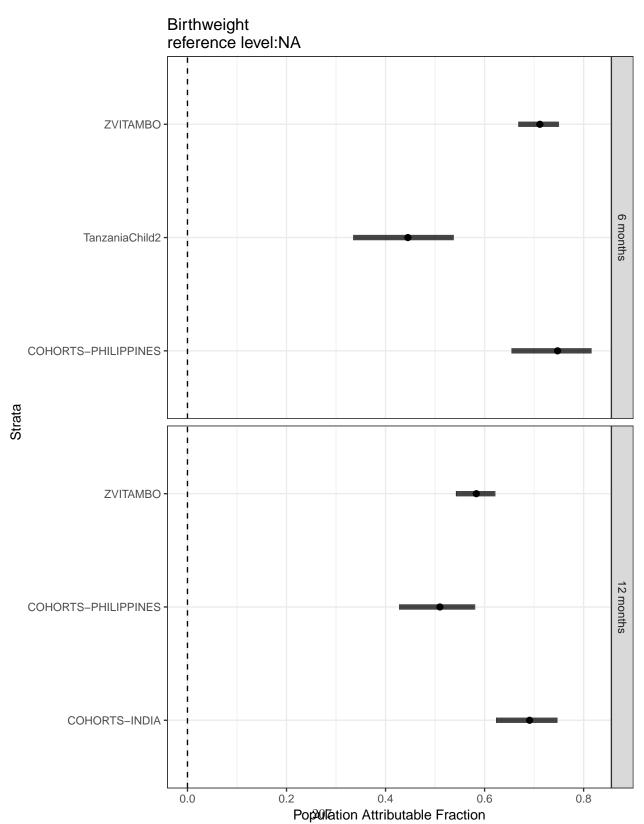




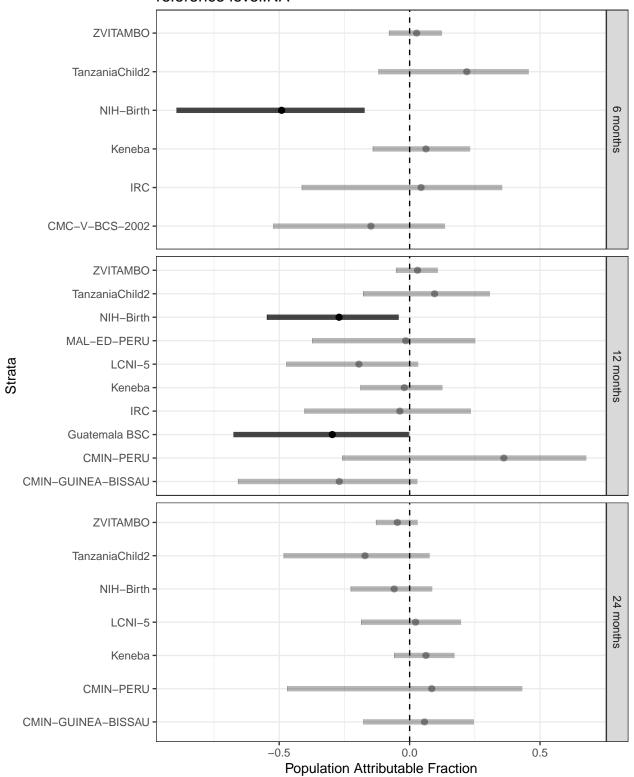
Appendix 3 - Population Attributable Fraction Forest Plots

Cumulative incidence of stunting

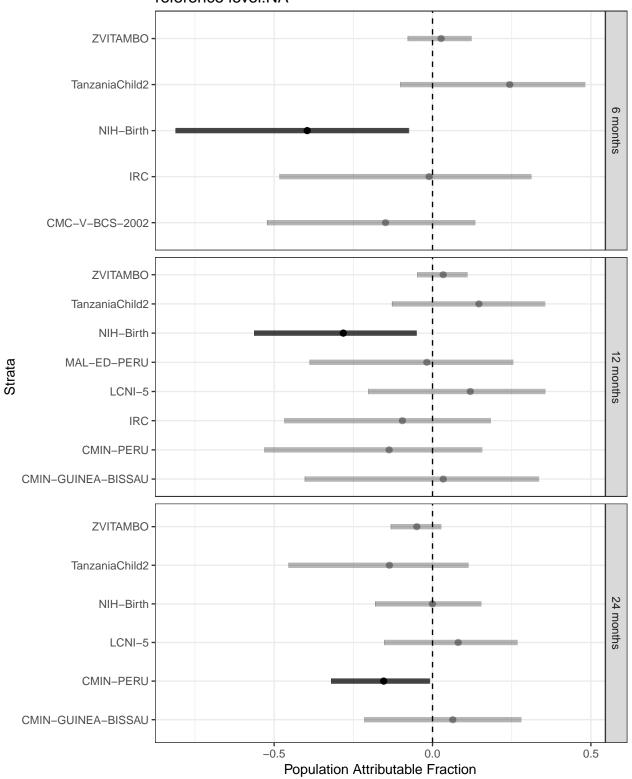
Child characteristics



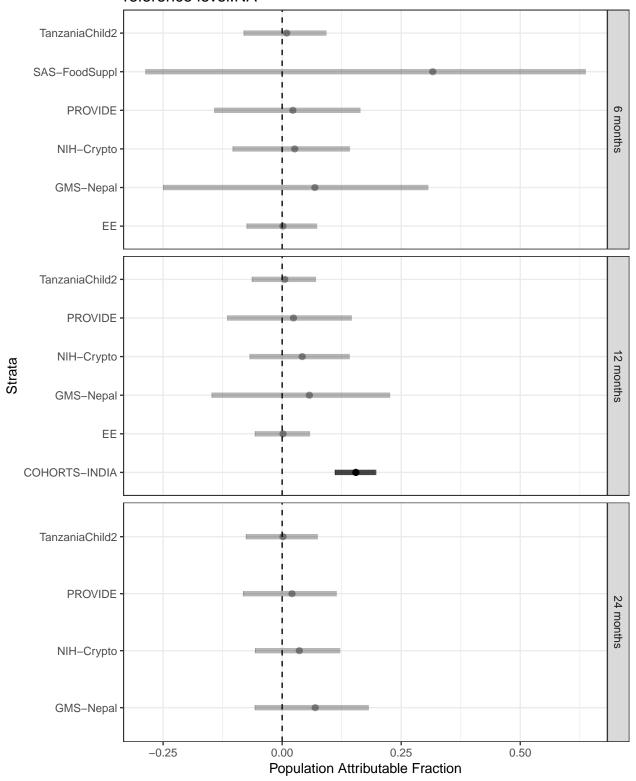
Calendar month of birth reference level:NA

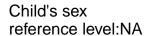


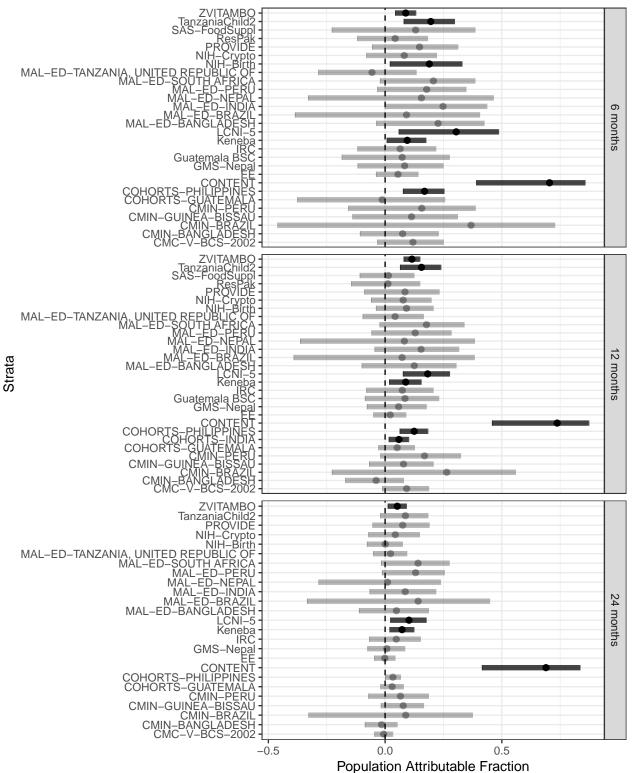
Calendar month of measurement reference level:NA

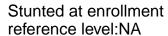


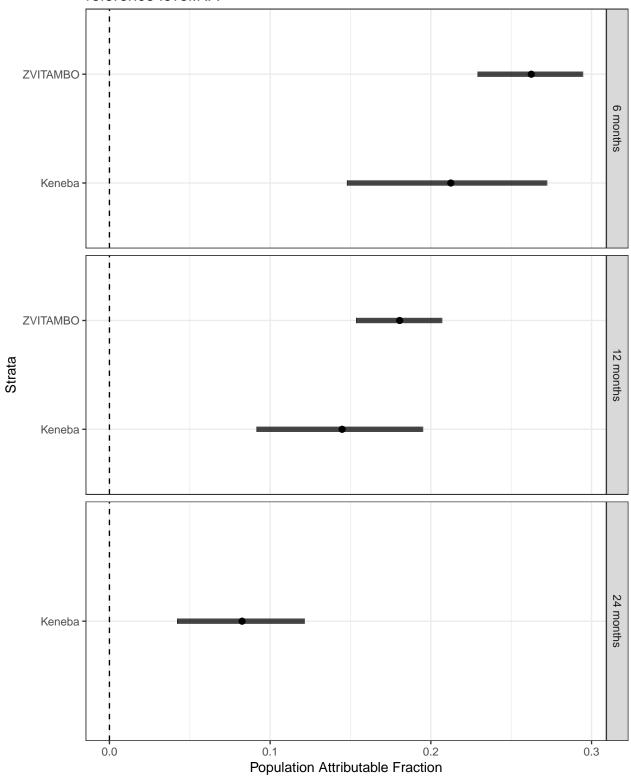
Child delivered at home reference level:NA

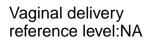


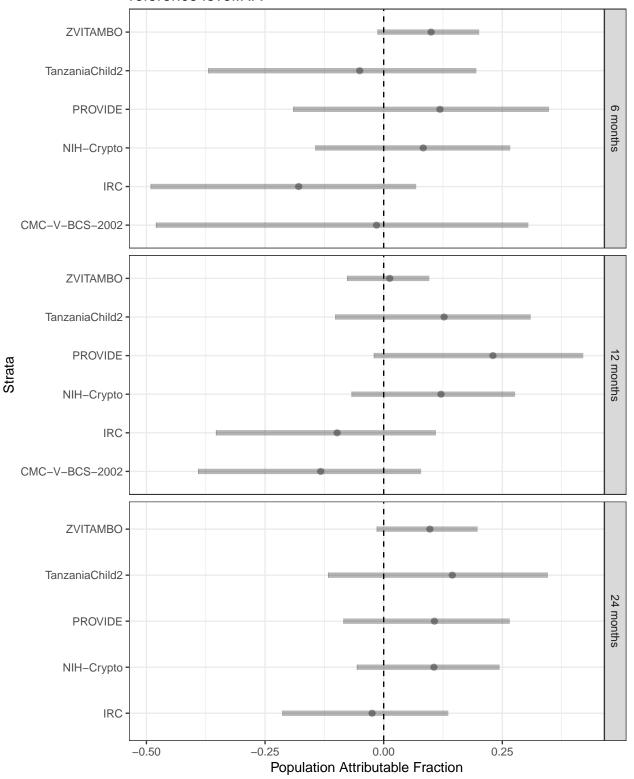






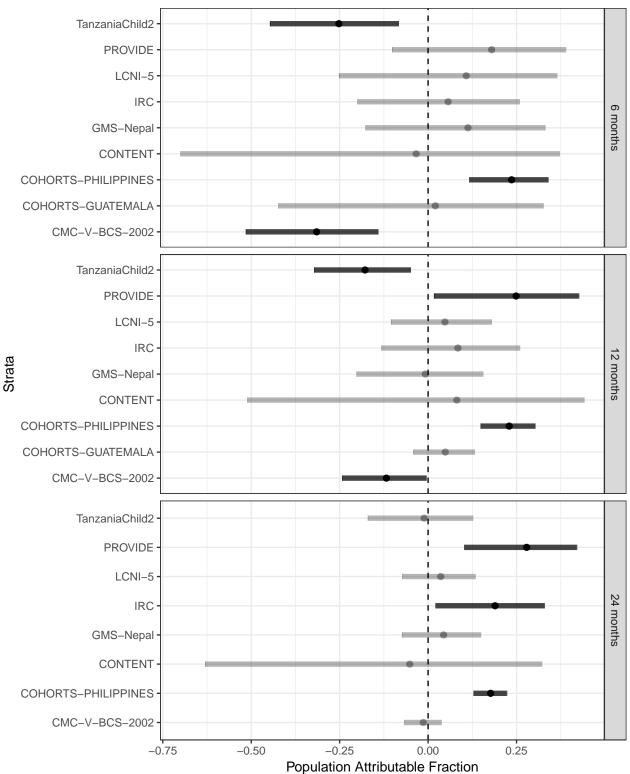




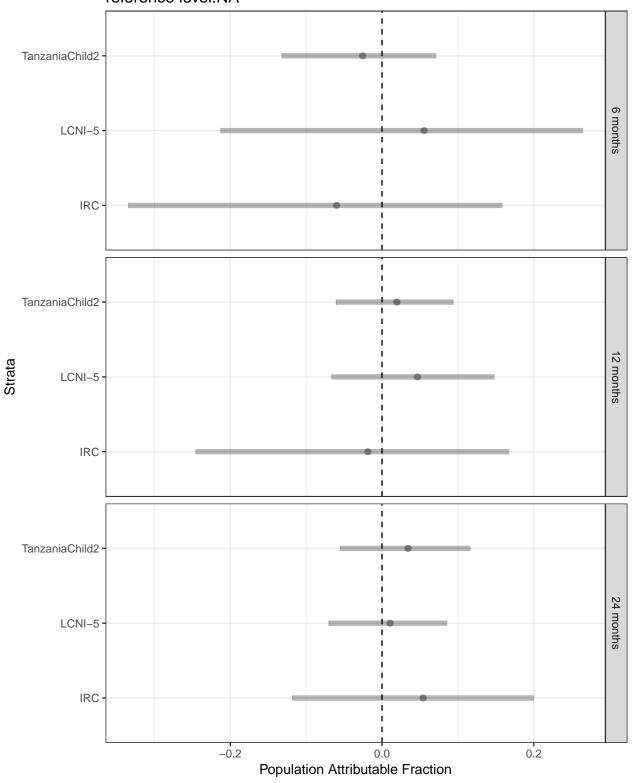


Household characteristics

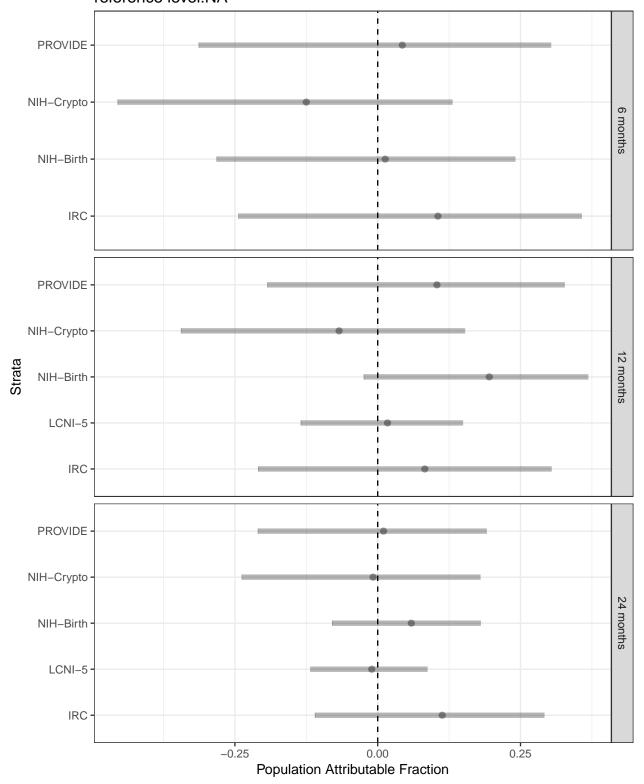
Asset based wealth index reference level:NA



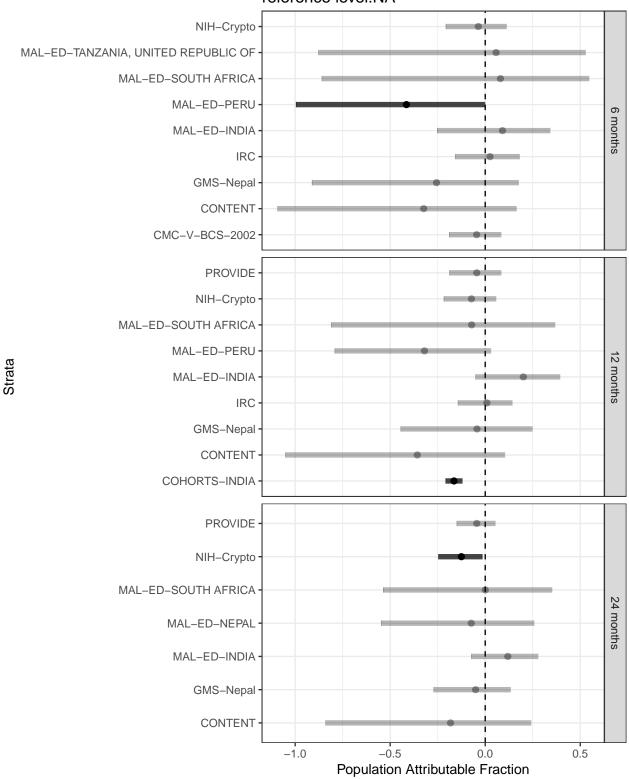
Number of children in the household under 5 years reference level:NA



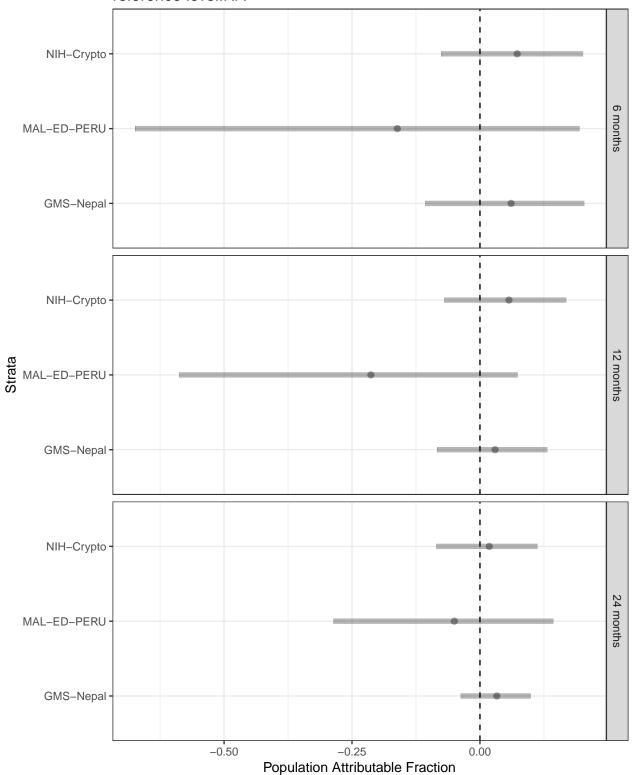
Number of people in the household reference level:NA



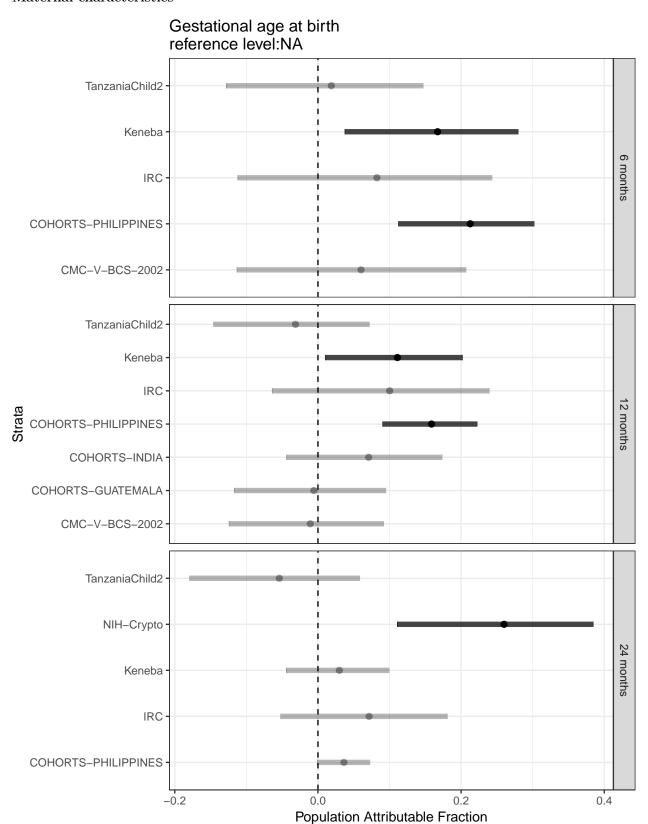
Number of rooms in household reference level:NA



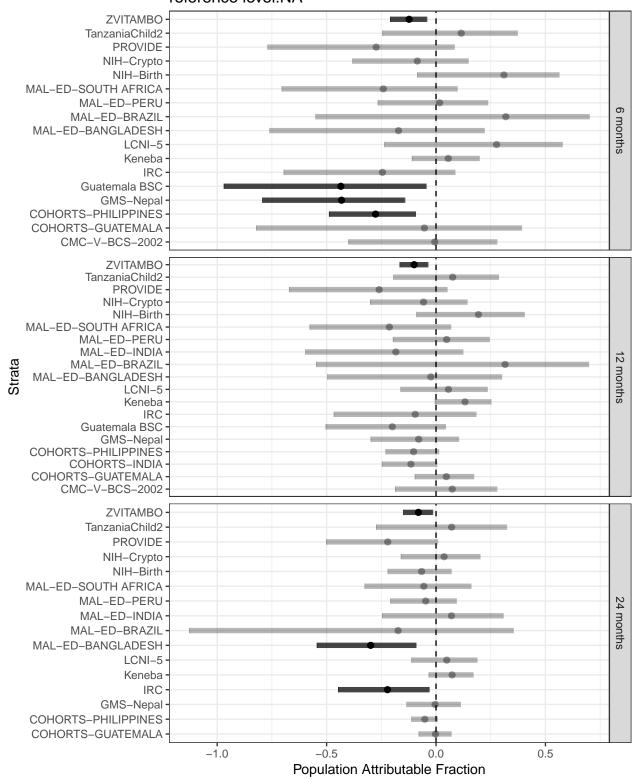
USAID Household Food Insecurity Access Scale (HFIAS) category reference level:NA



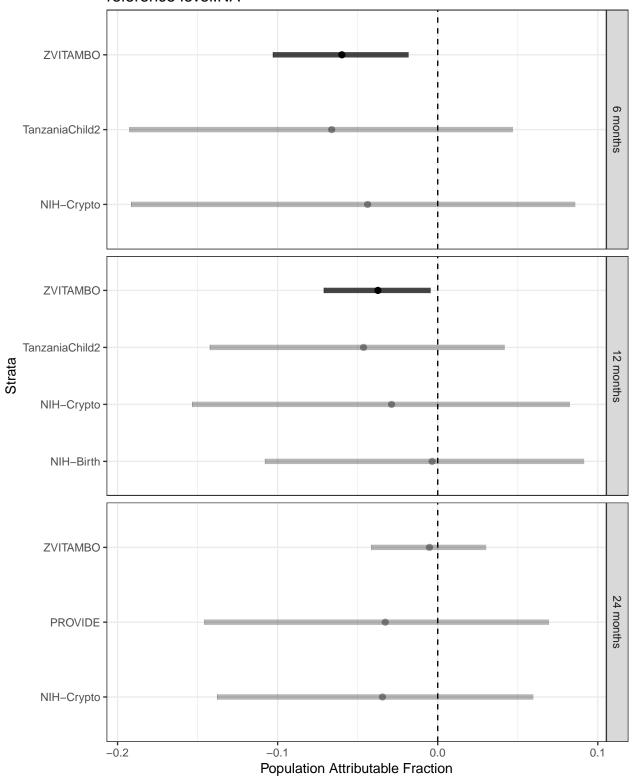
Maternal characteristics

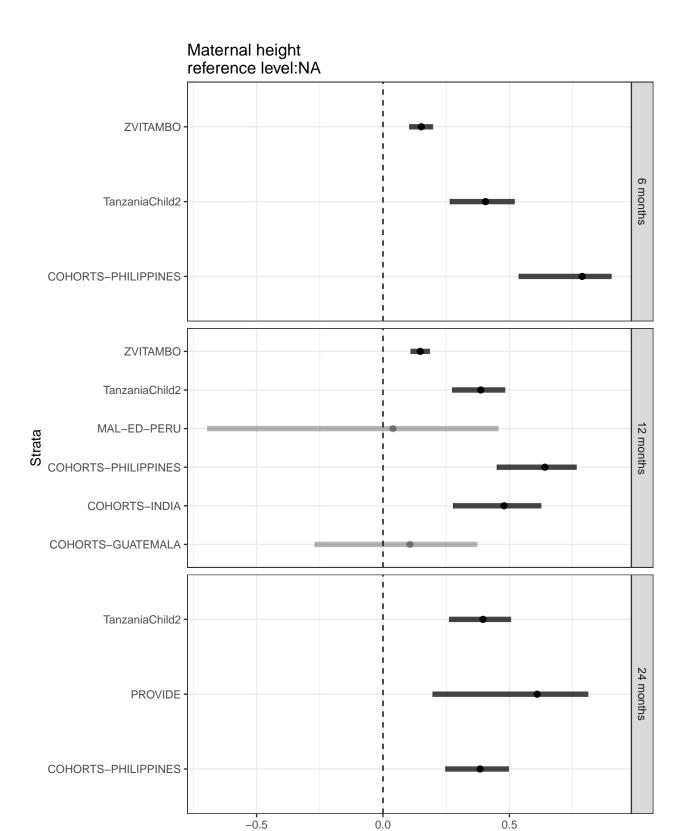


Maternal age reference level:NA

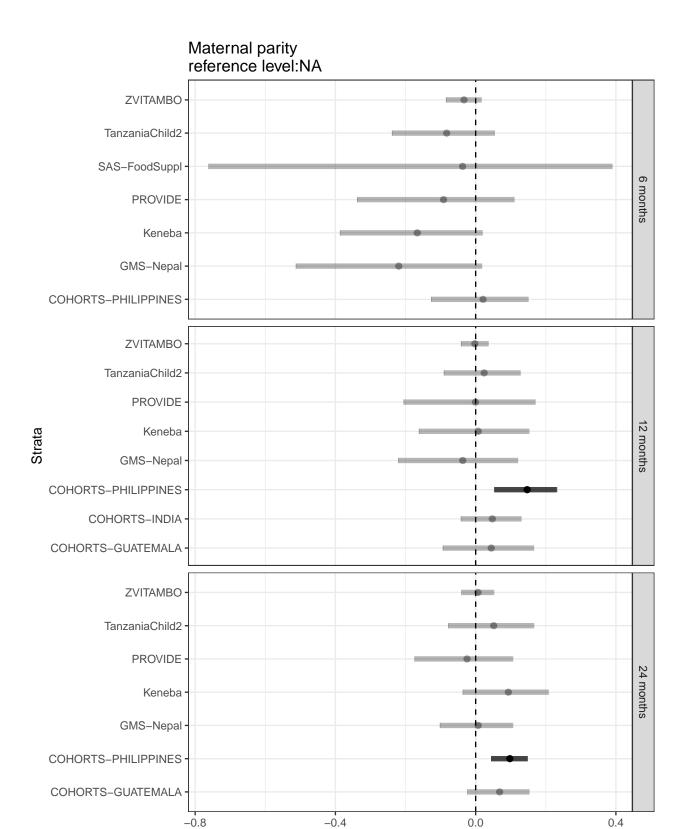




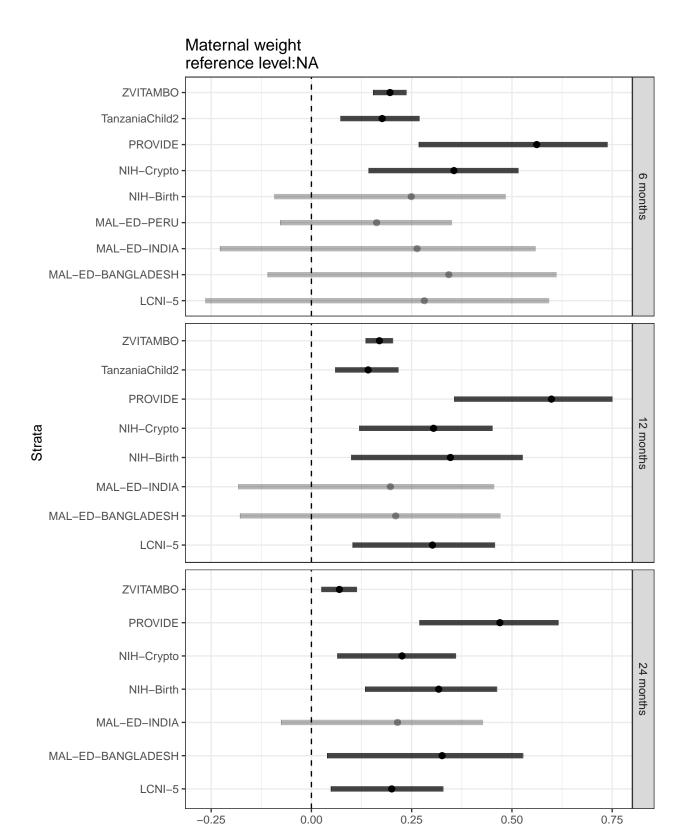




Population Attributable Fraction

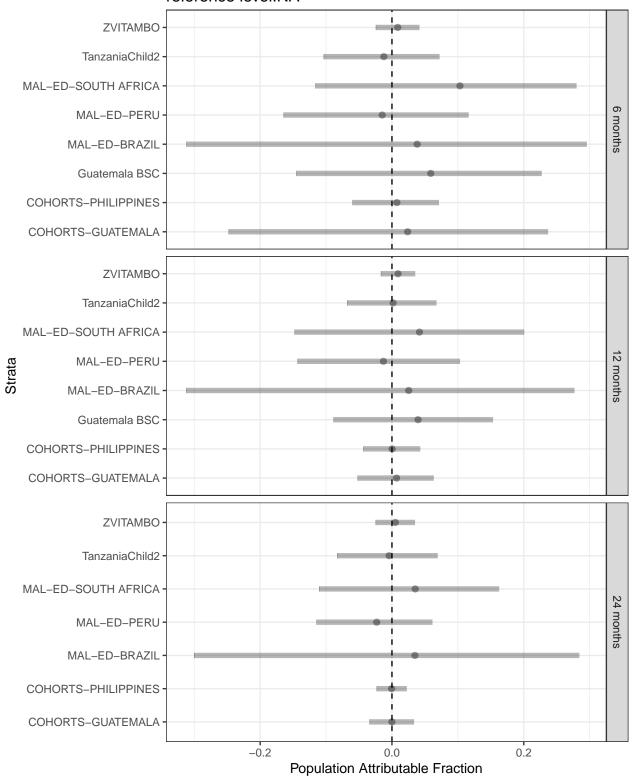


Population Attributable Fraction

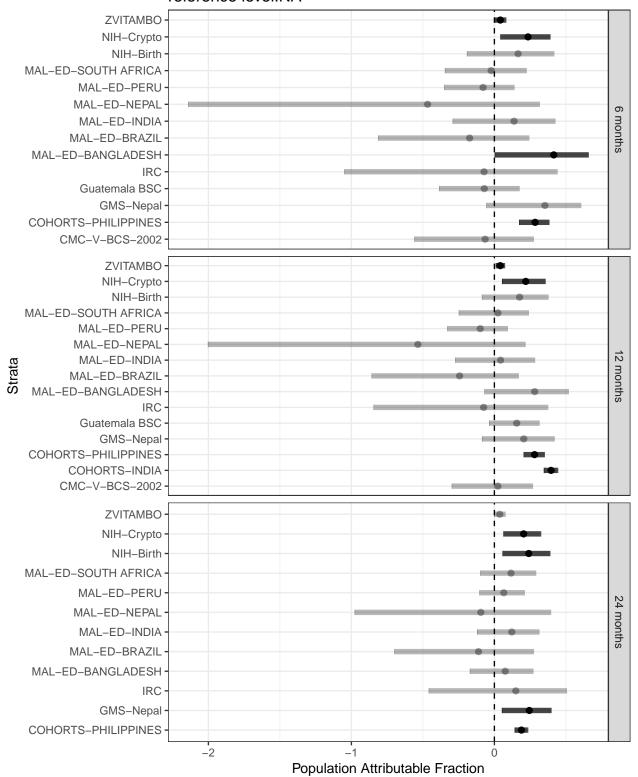


Population Attributable Fraction

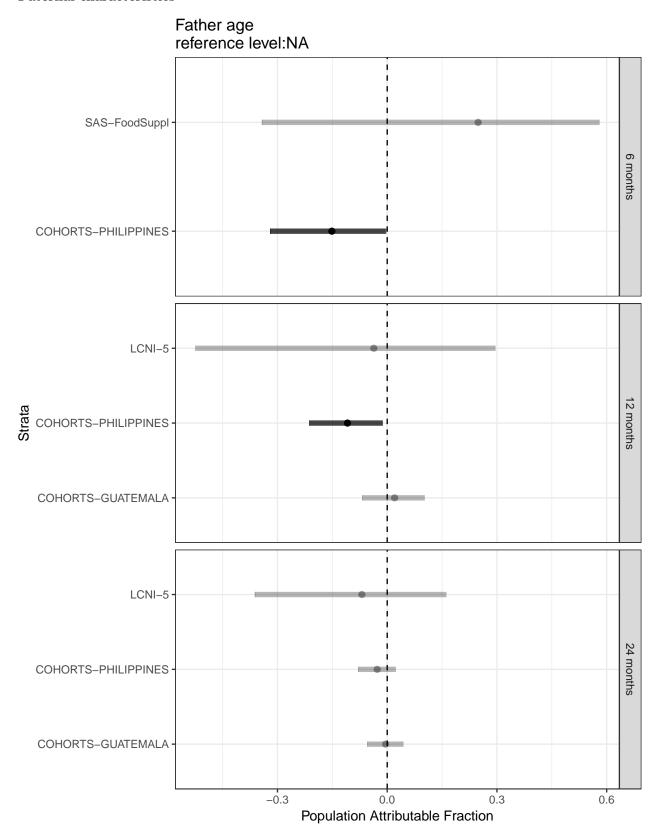
Mother is unmarried reference level:NA

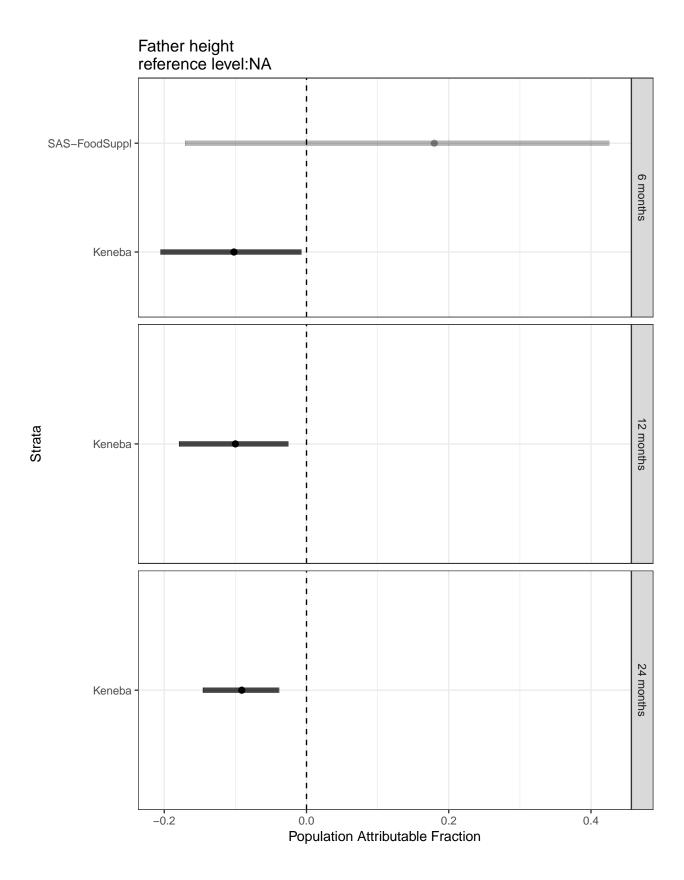


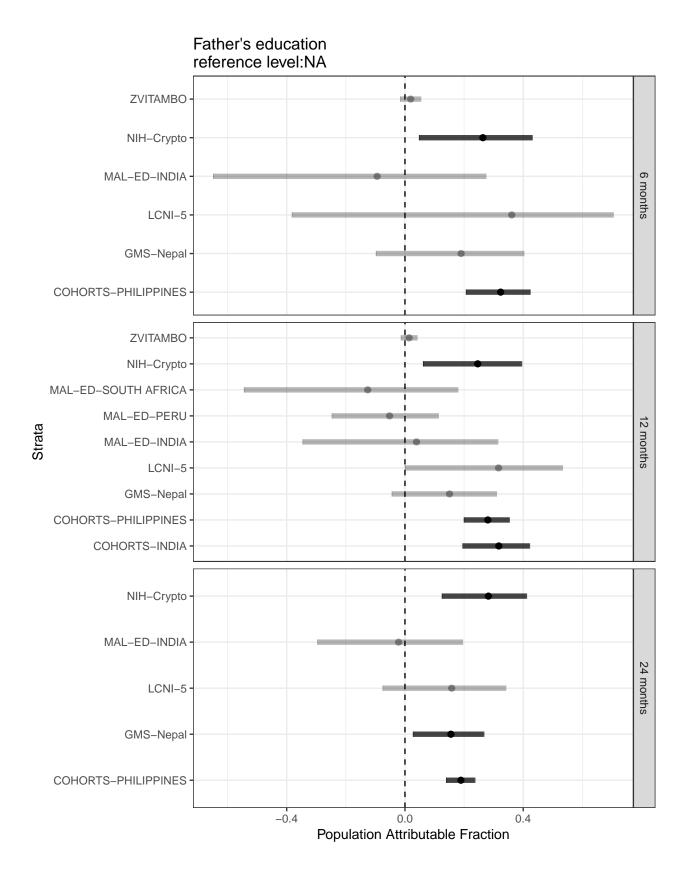
Mother's education reference level:NA



Paternal characteristics

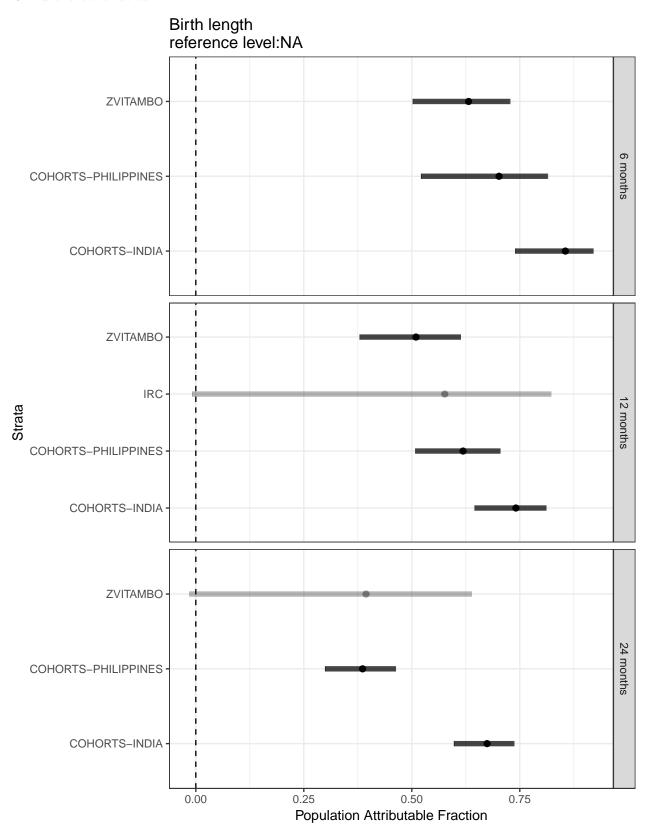


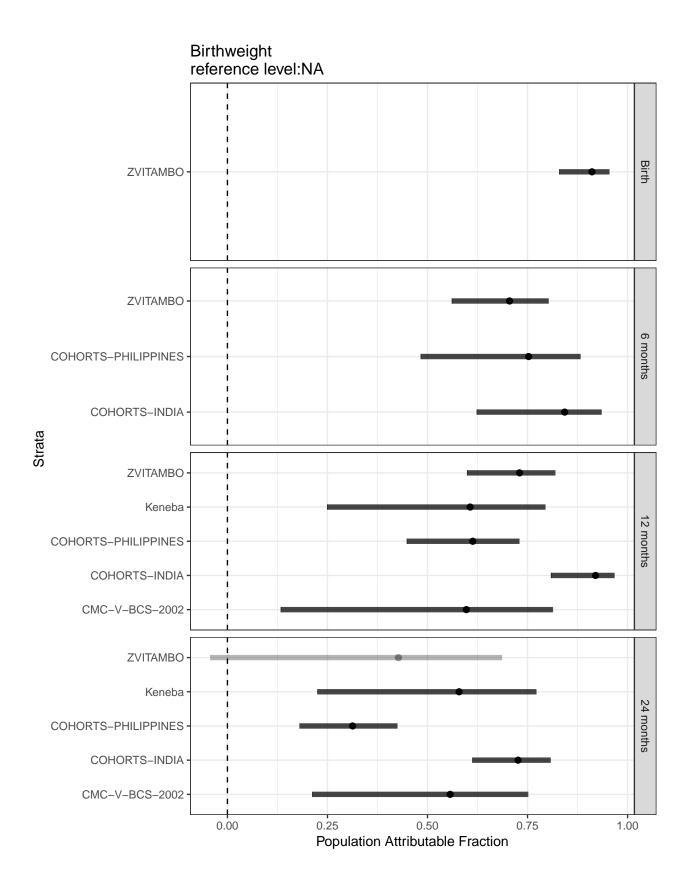




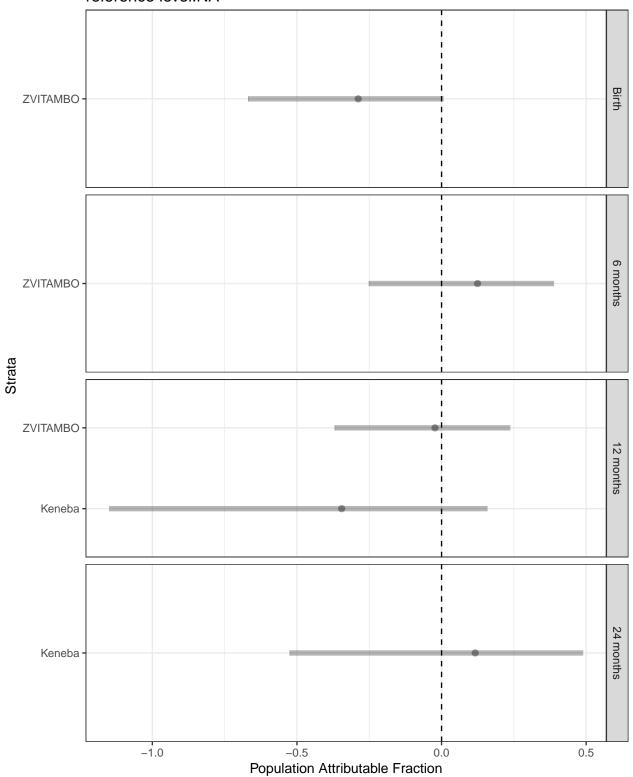
Point prevalence of severe stunting

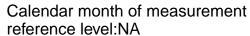
Child characteristics

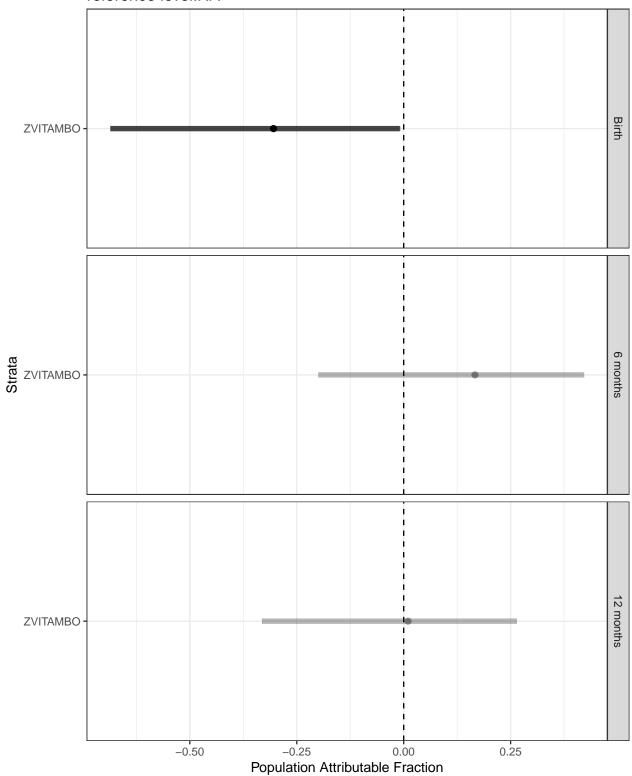


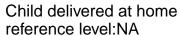


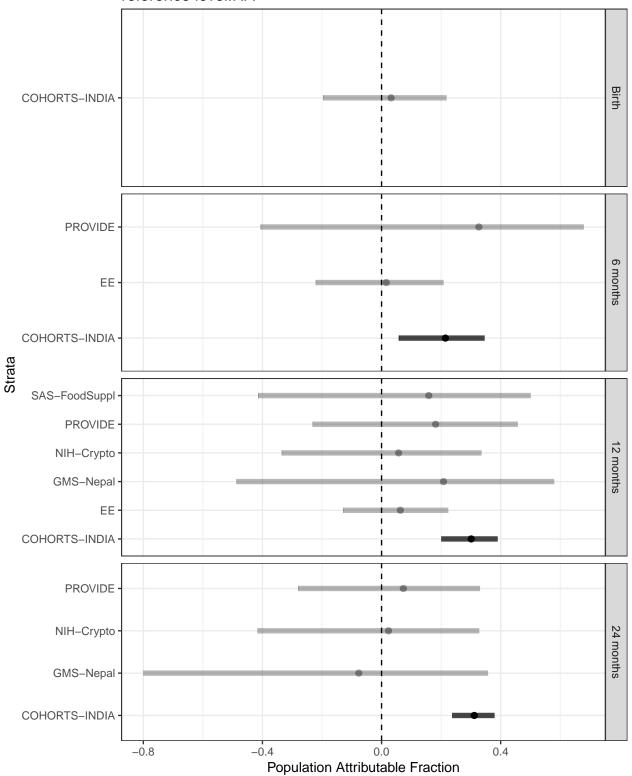
Calendar month of birth reference level:NA

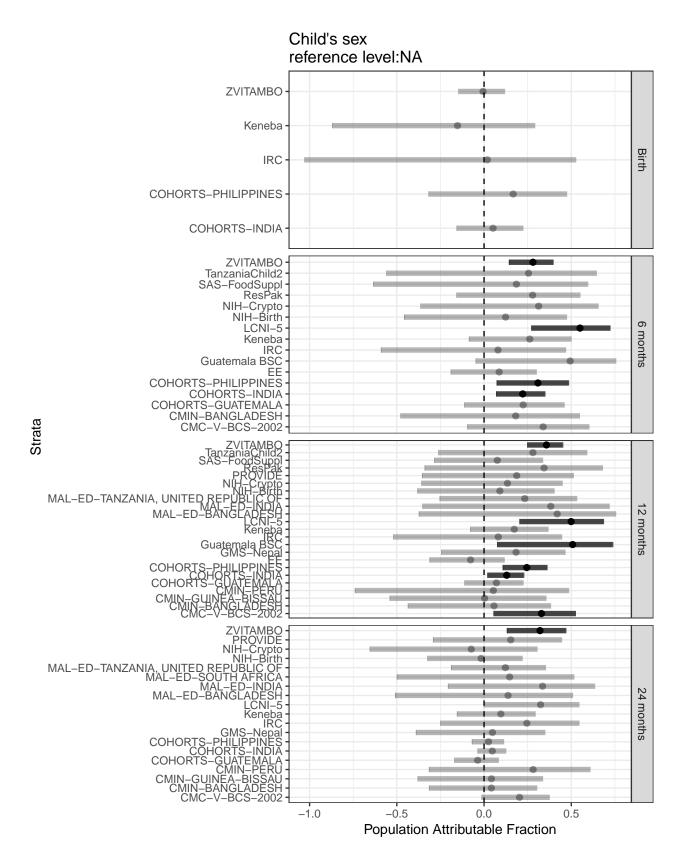


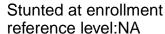


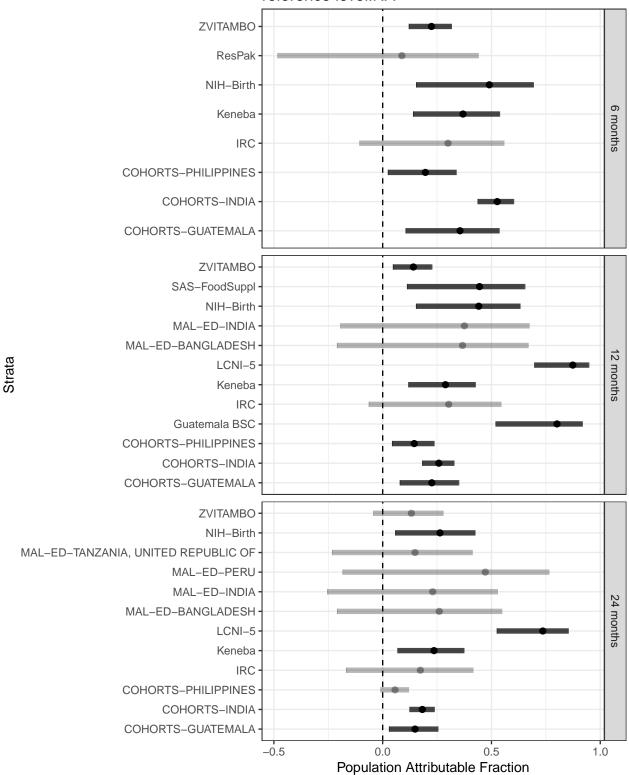


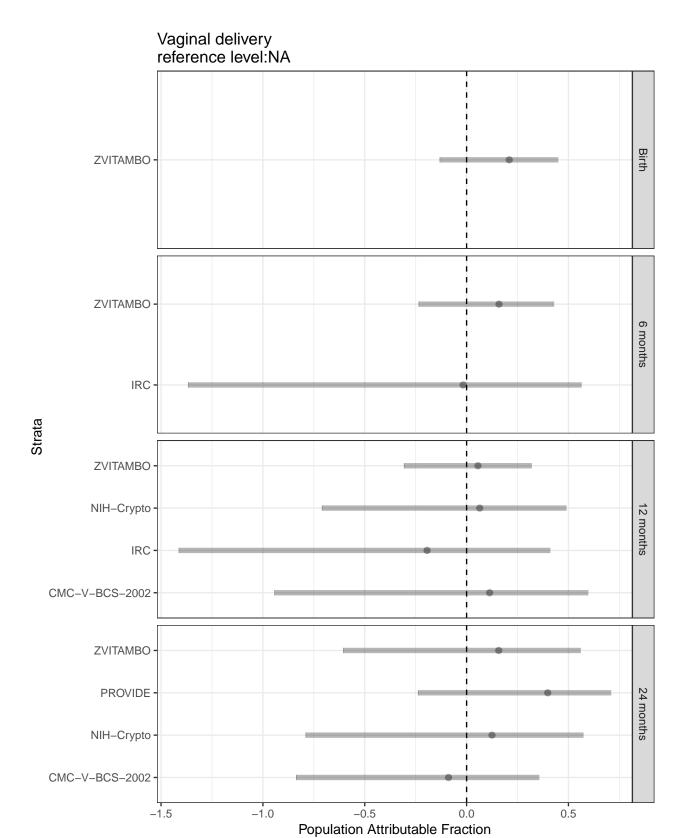






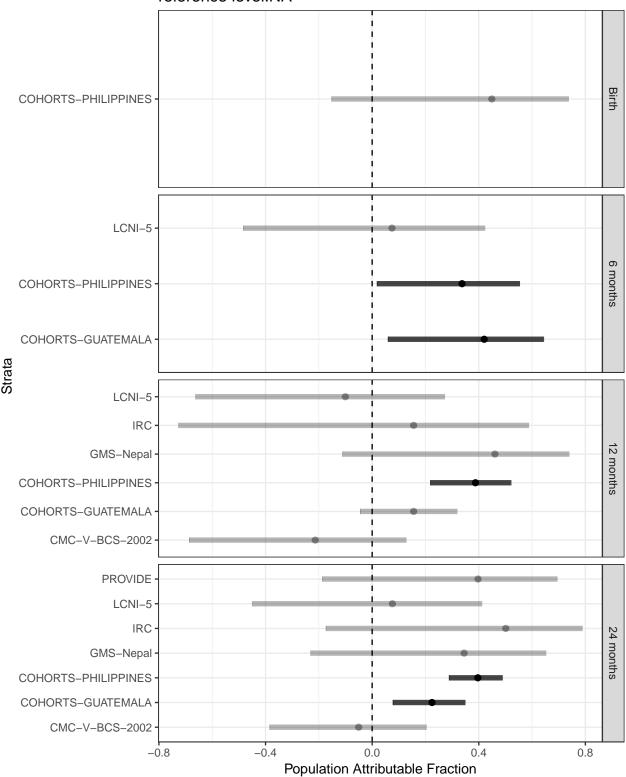




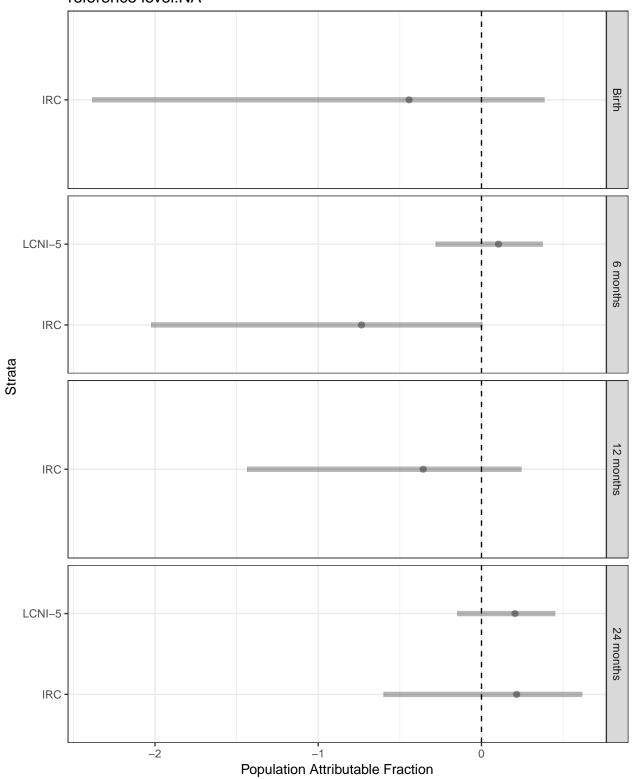


Household characteristics

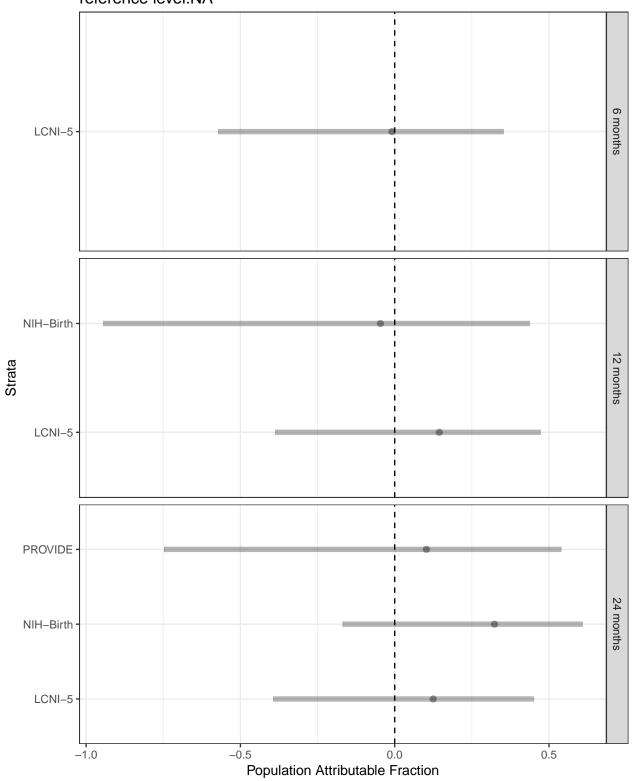
Asset based wealth index reference level:NA



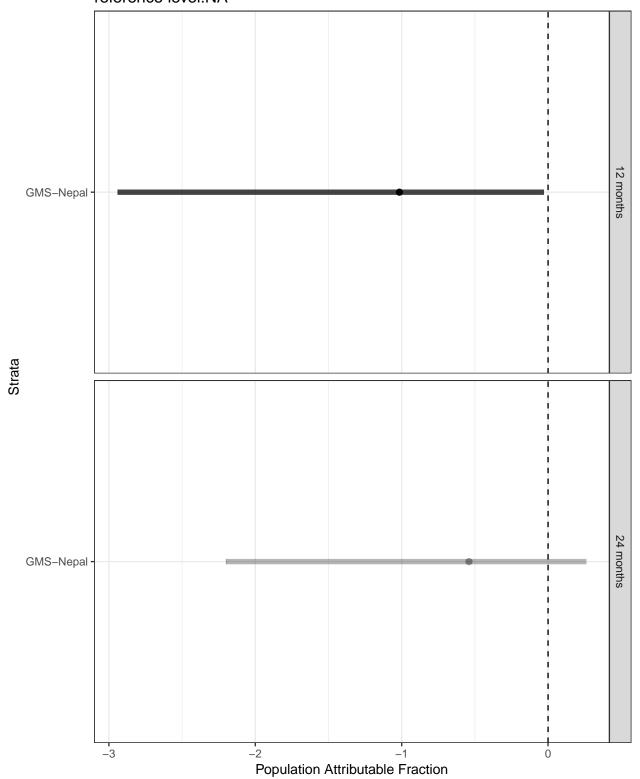
Number of children in the household under 5 years reference level:NA



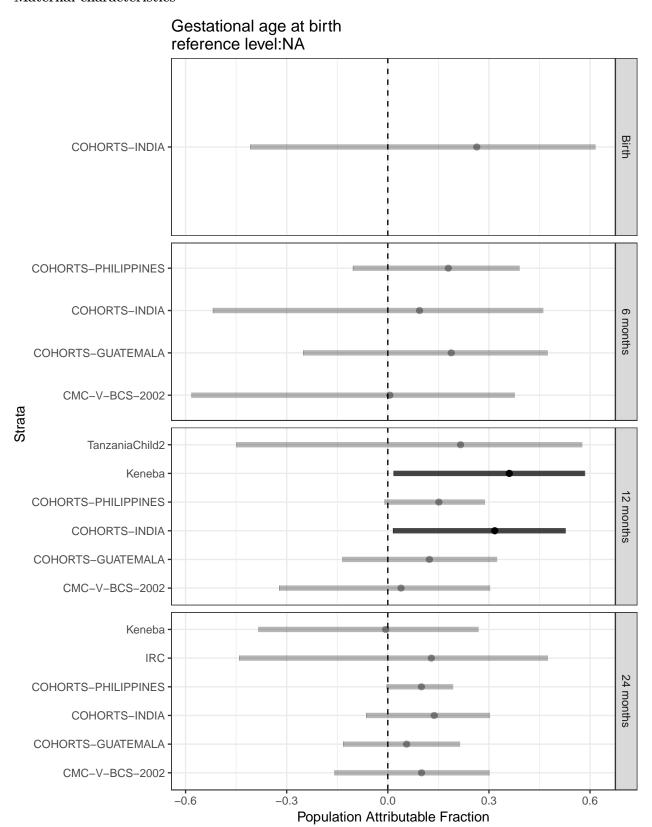
Number of people in the household reference level:NA

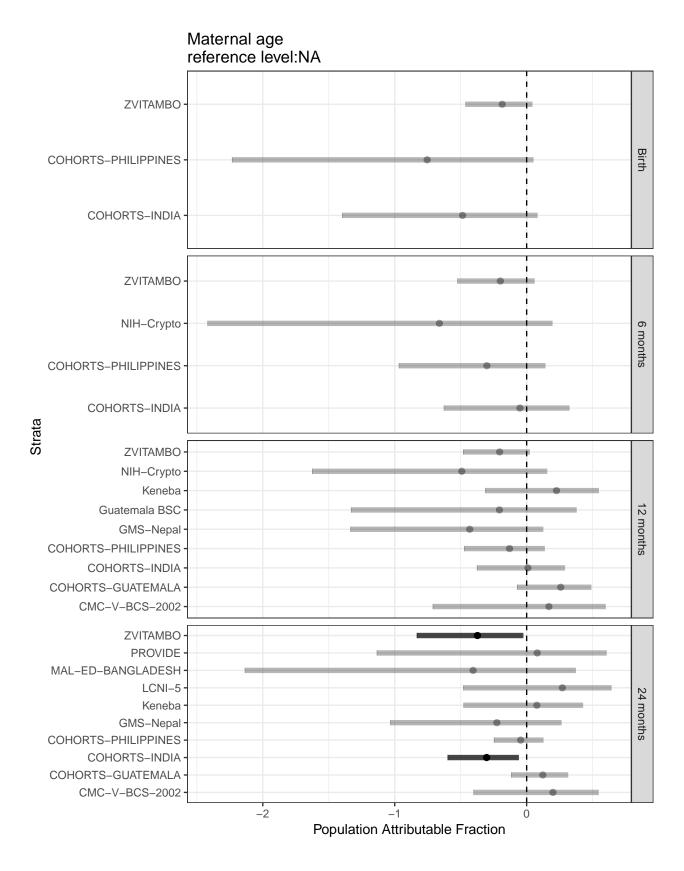


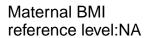
Number of rooms in household reference level:NA

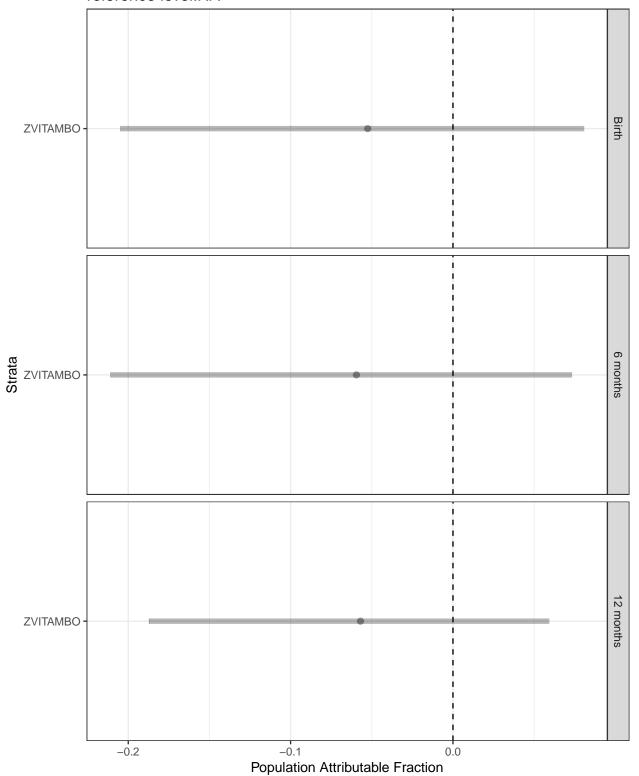


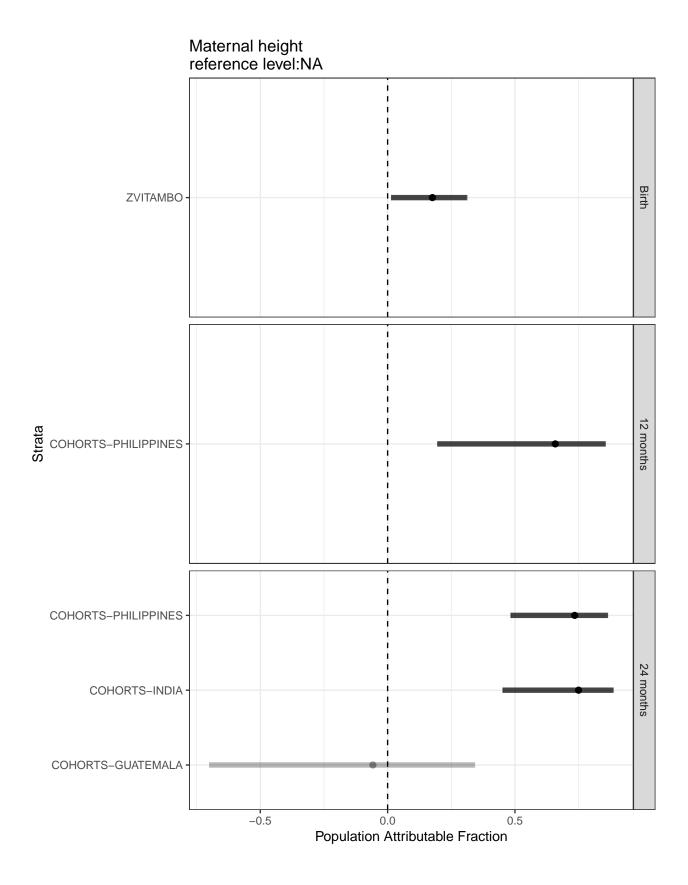
Maternal characteristics

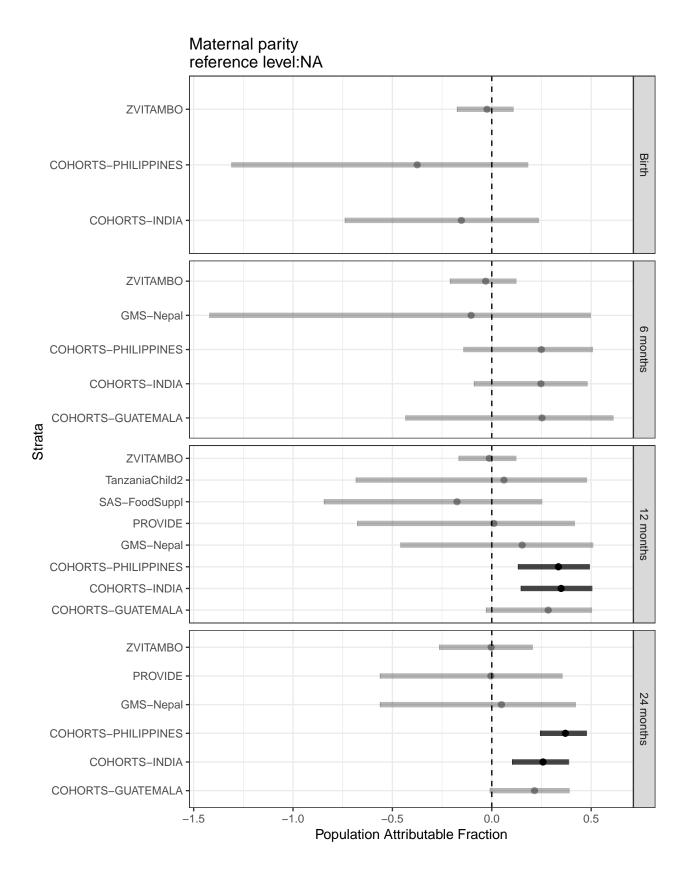


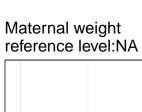


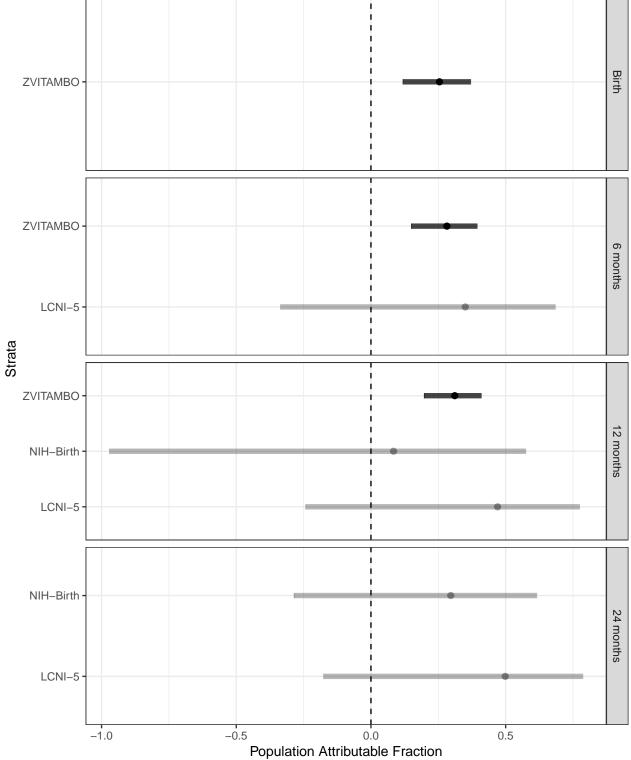


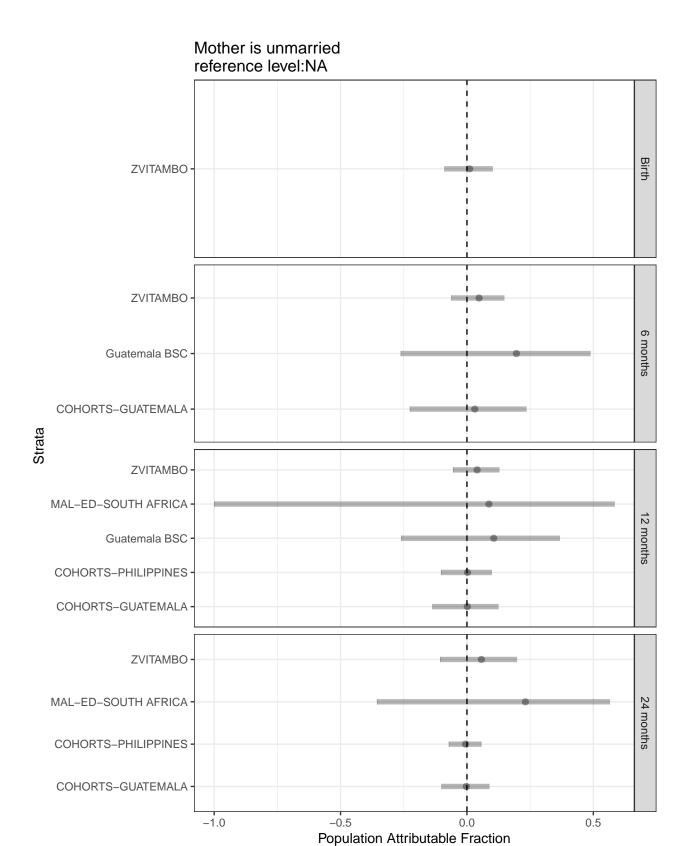


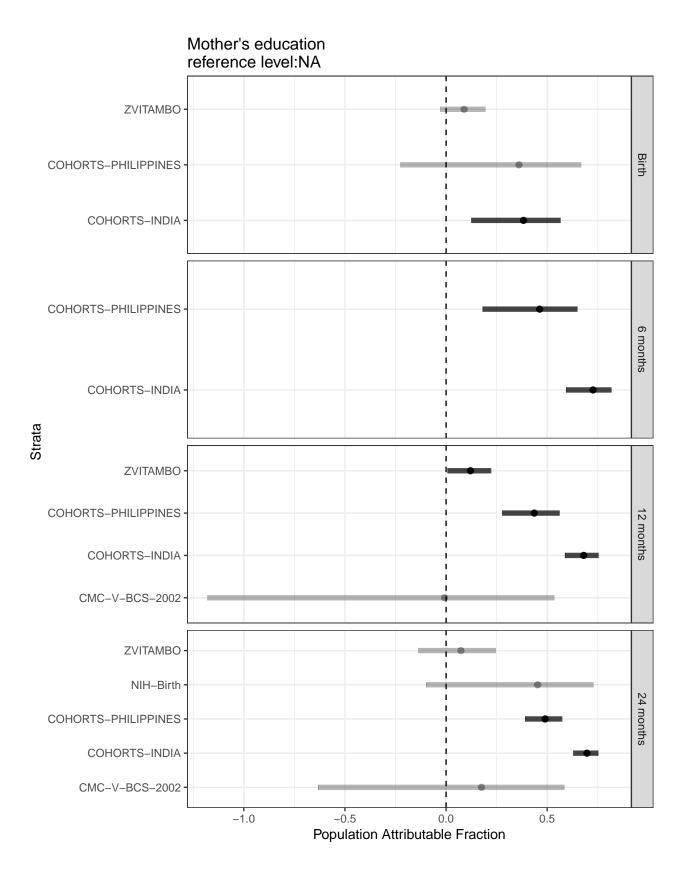




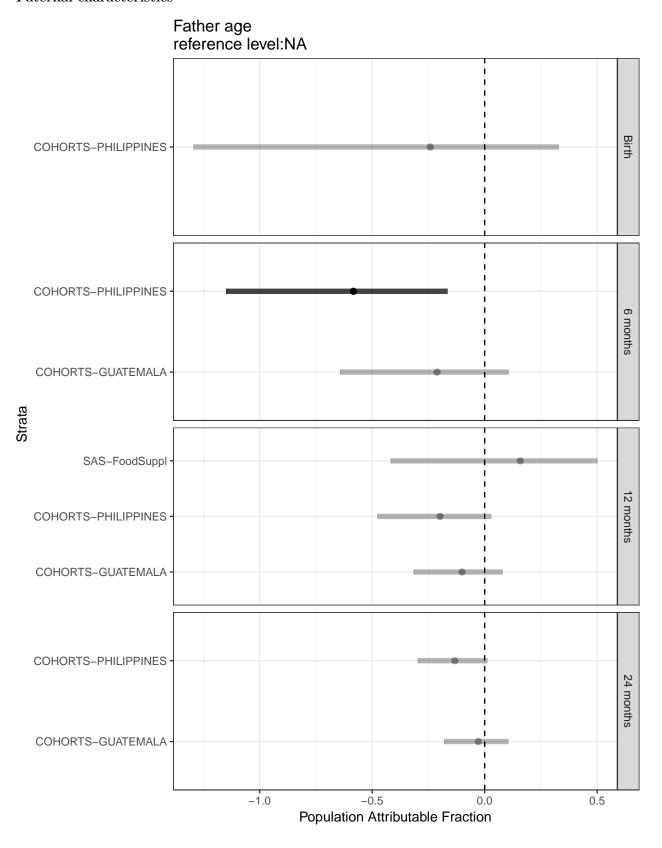


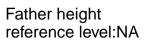


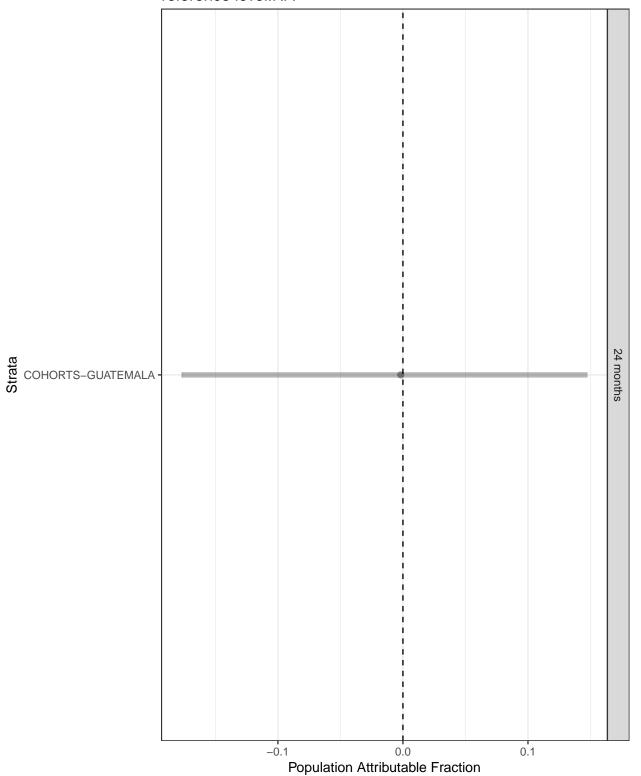


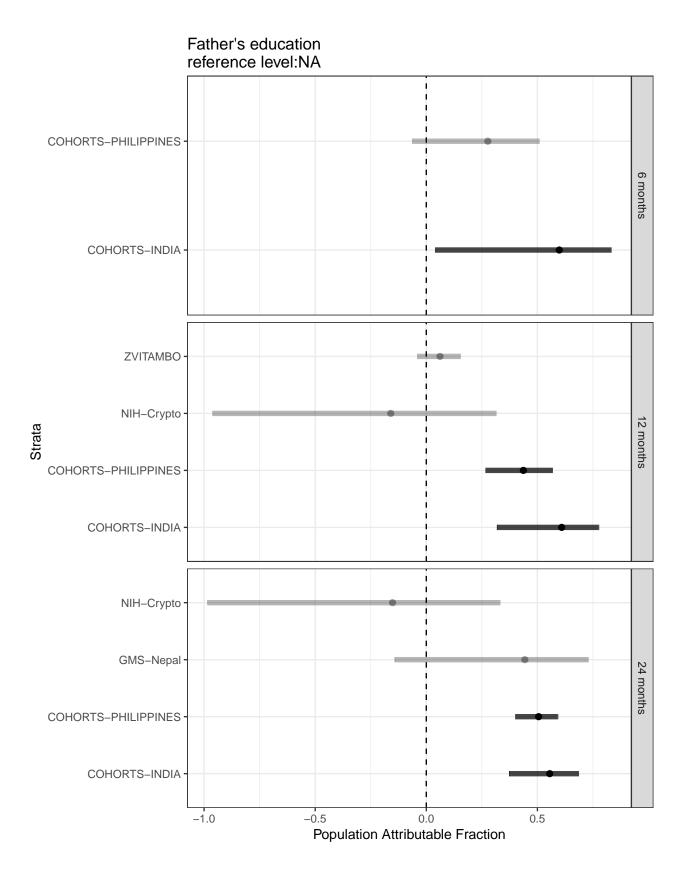


Paternal characteristics



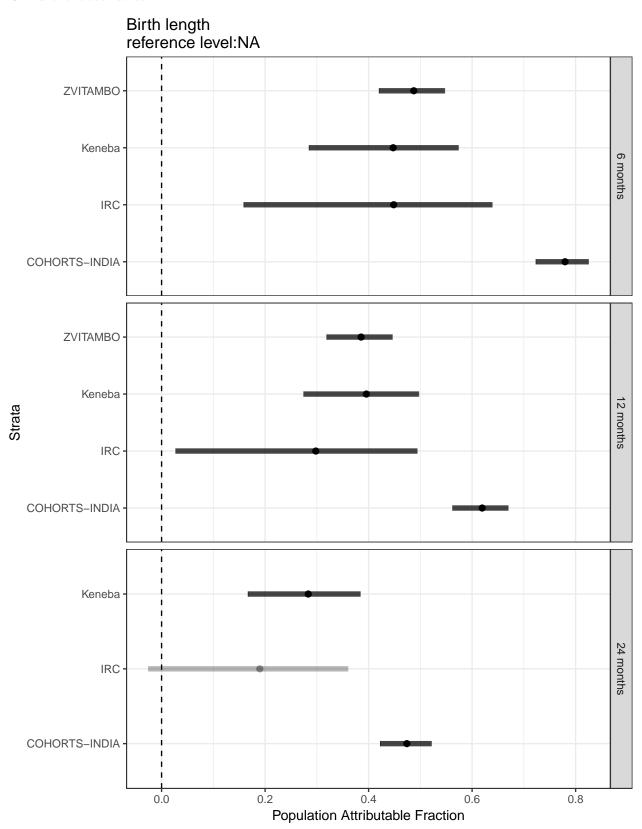


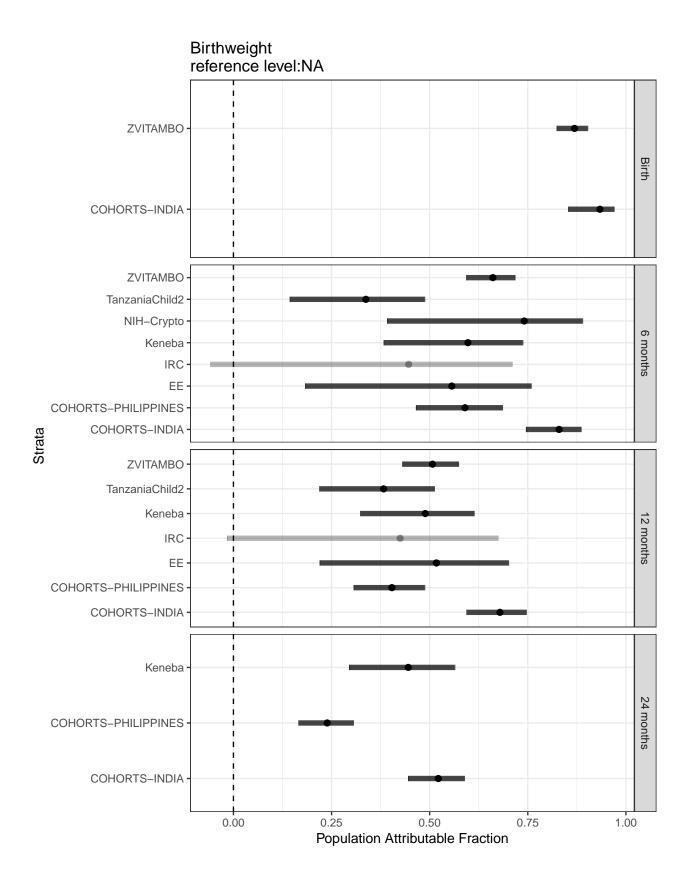




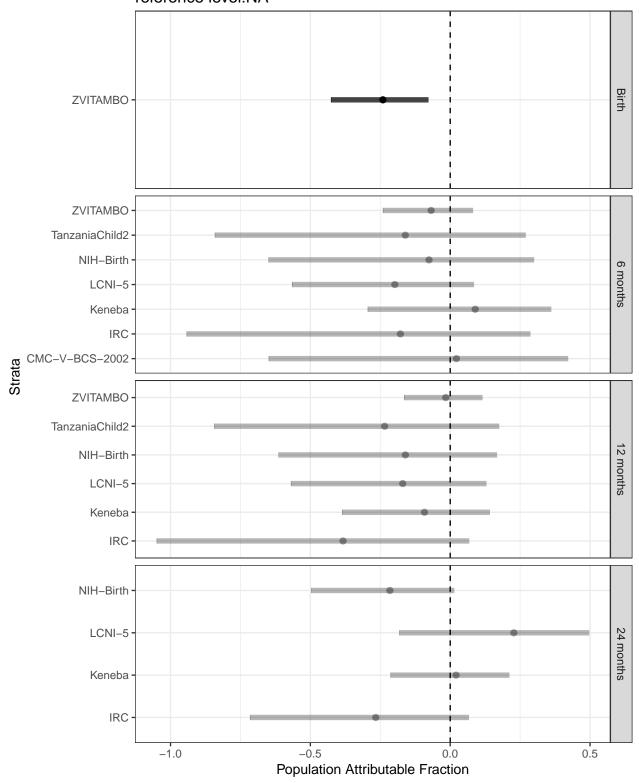
Point prevalence of stunting

Child characteristics

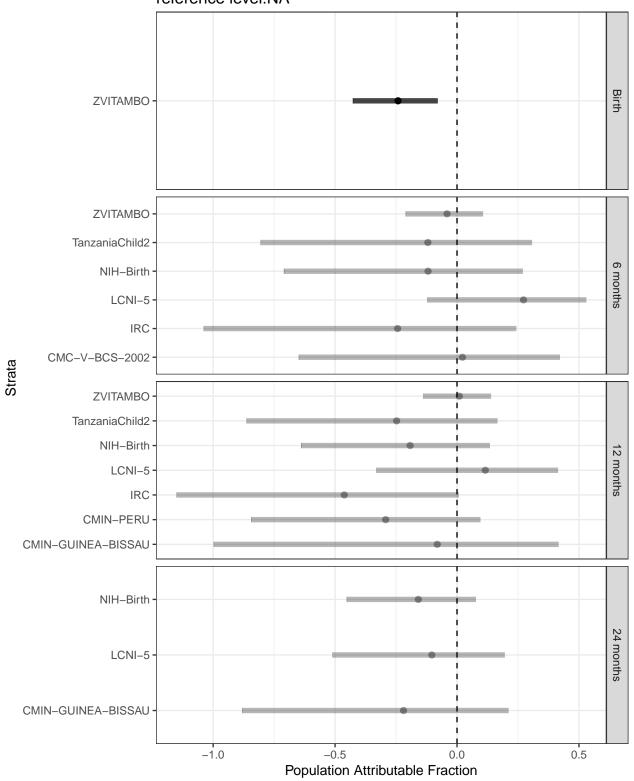




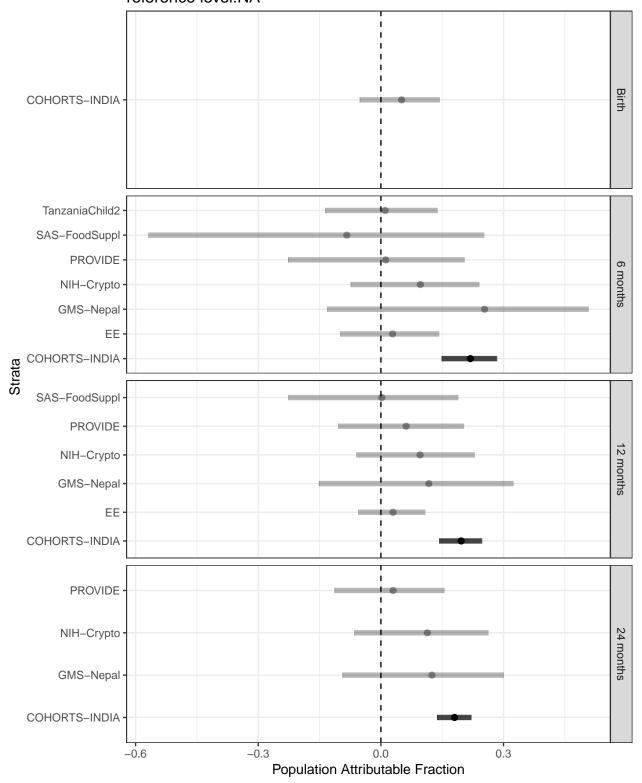
Calendar month of birth reference level:NA



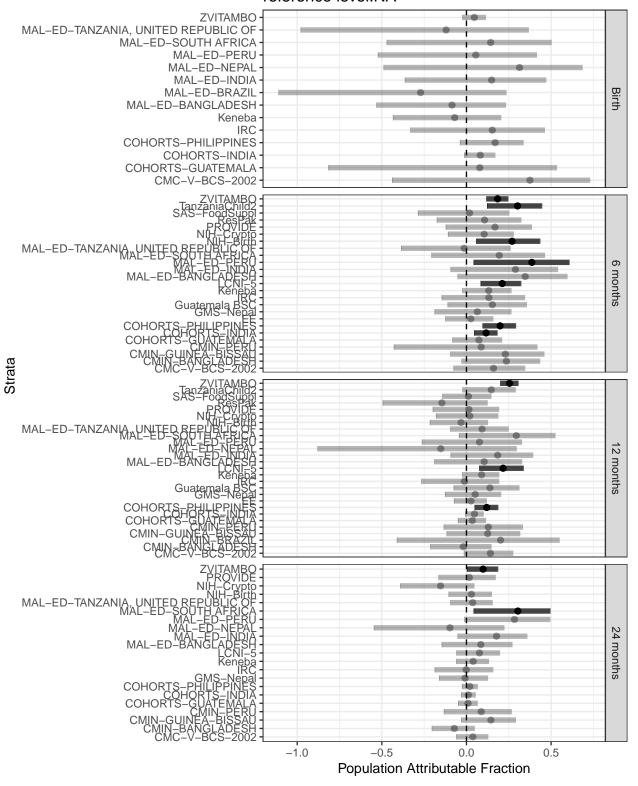
Calendar month of measurement reference level:NA



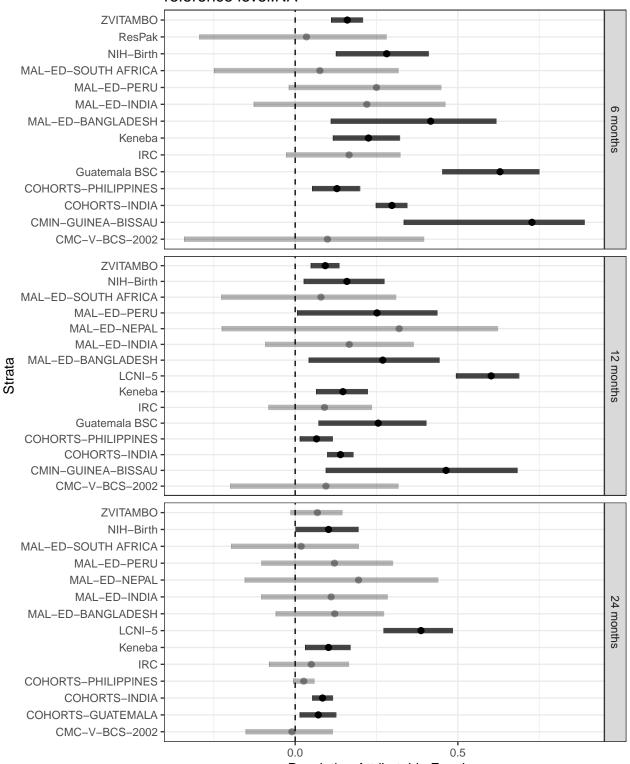
Child delivered at home reference level:NA

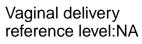


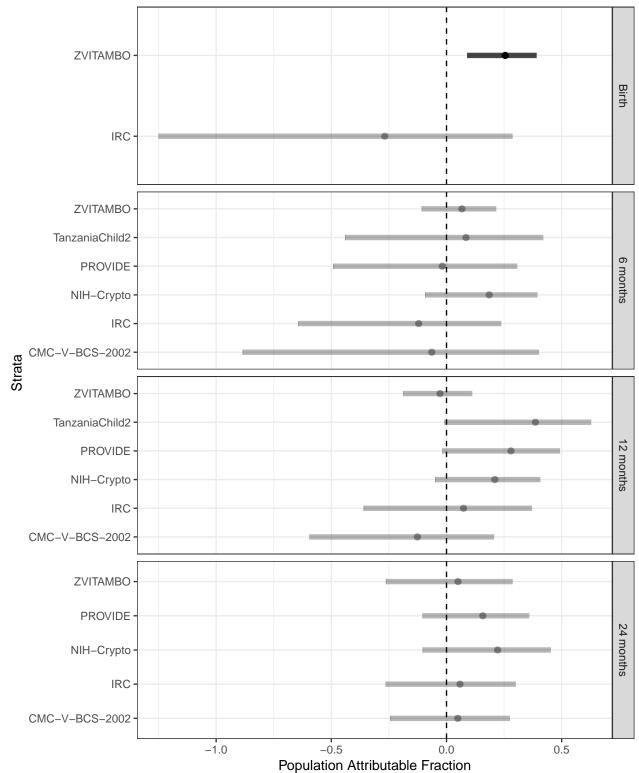
Child's sex reference level:NA



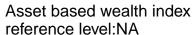
Stunted at enrollment reference level:NA

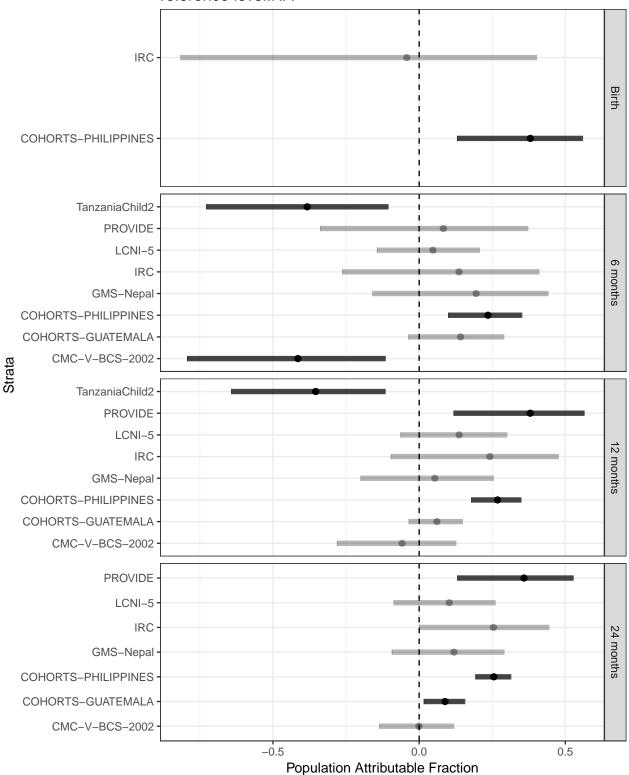




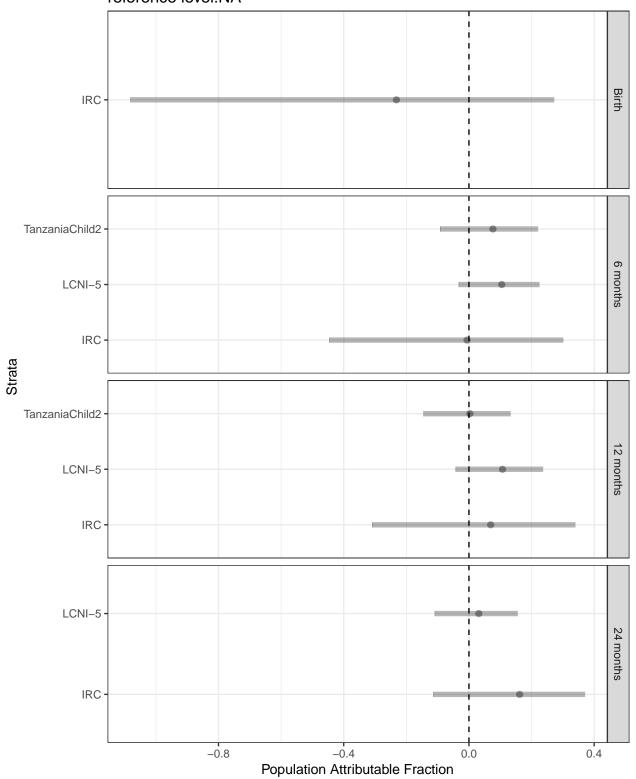


Household characteristics

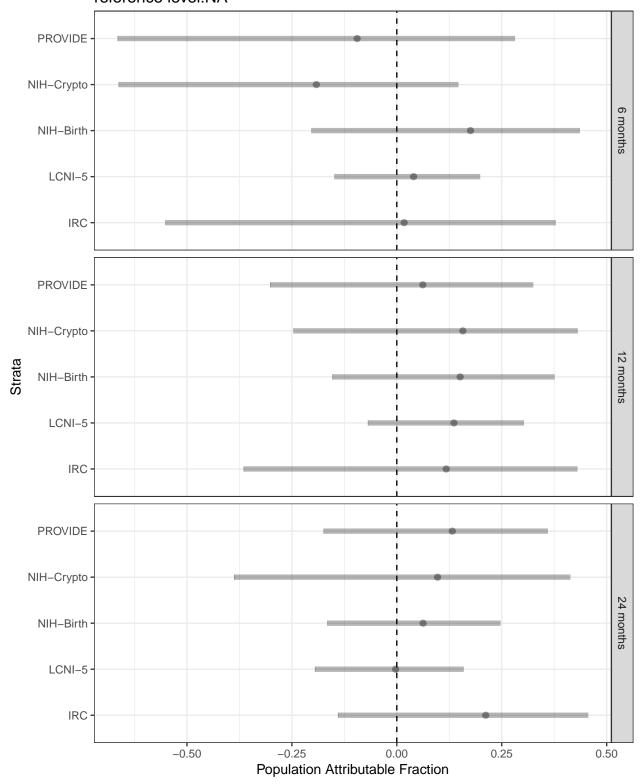




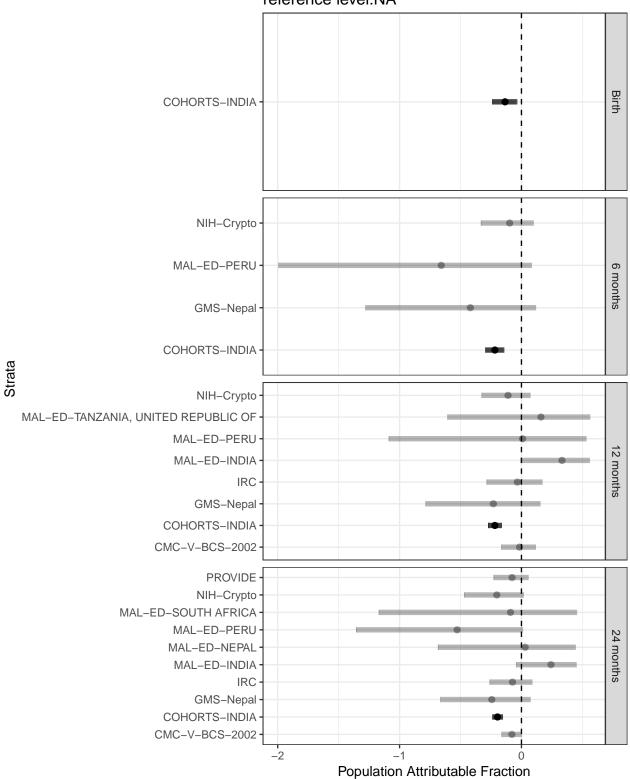
Number of children in the household under 5 years reference level:NA



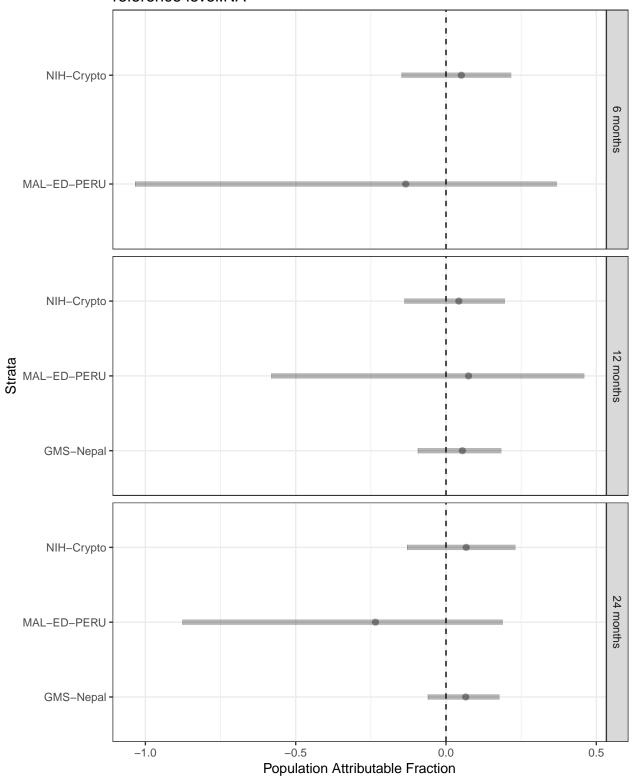
Number of people in the household reference level:NA



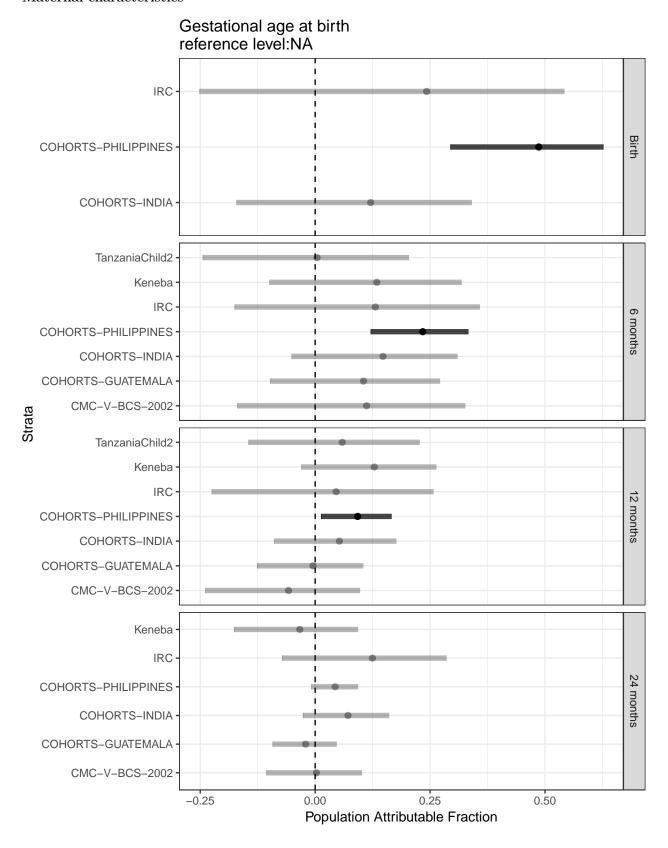


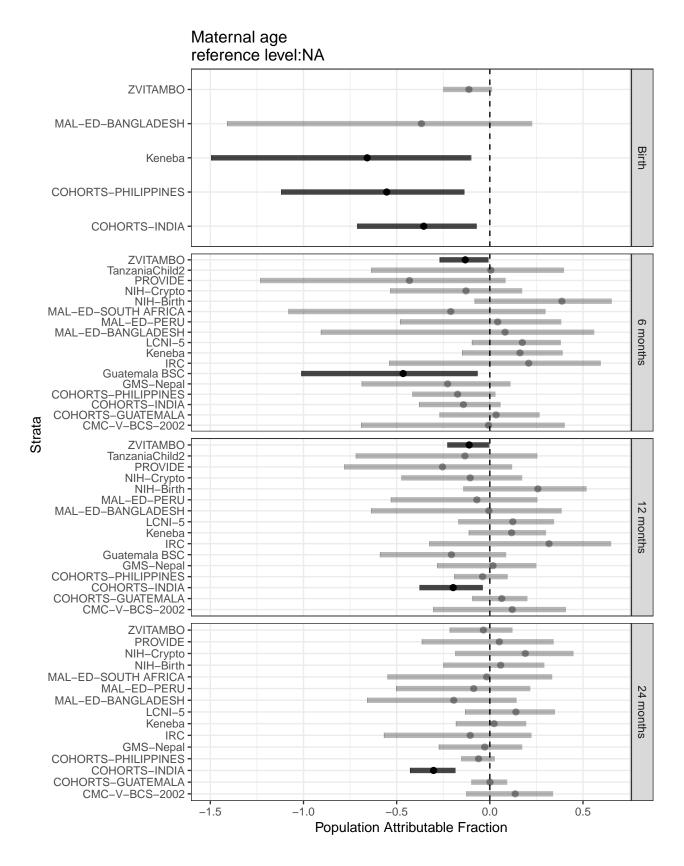


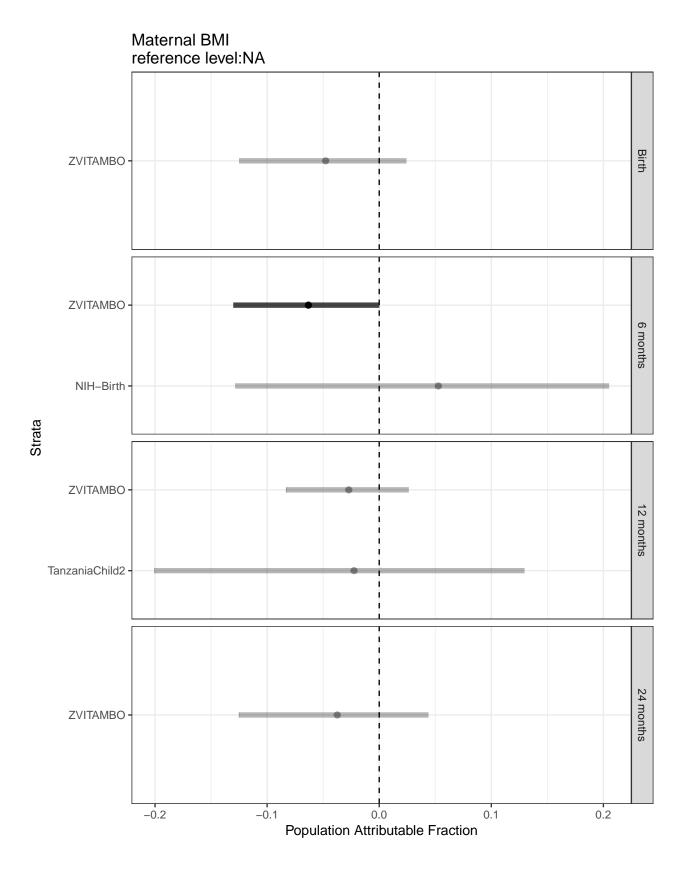
USAID Household Food Insecurity Access Scale (HFIAS) category reference level:NA

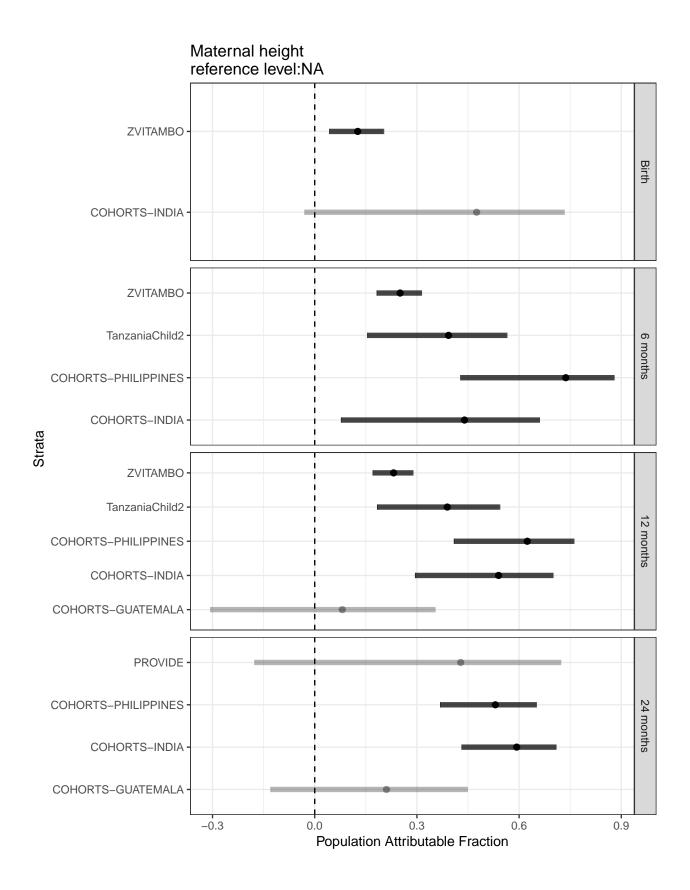


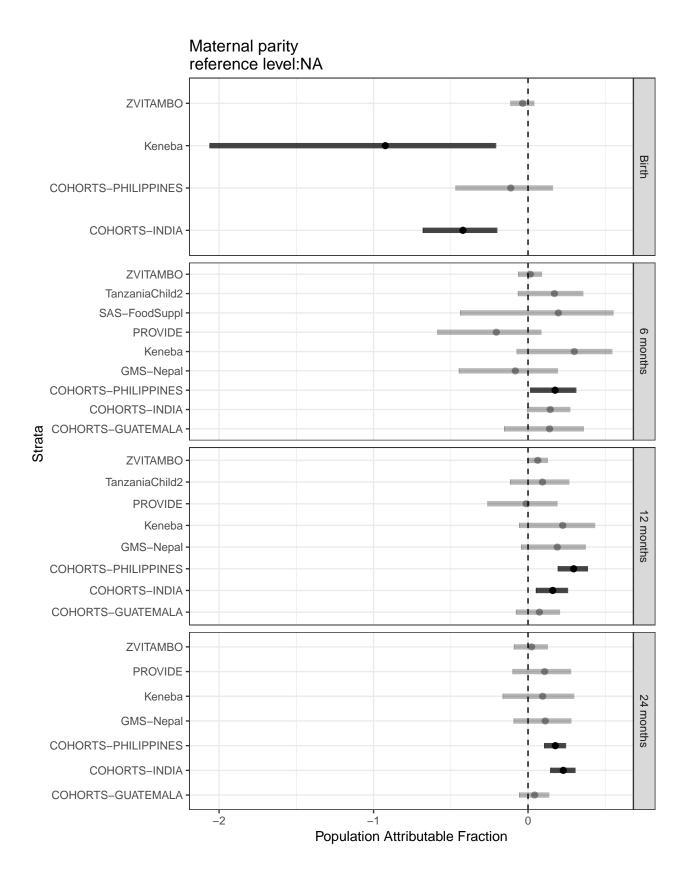
Maternal characteristics

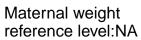


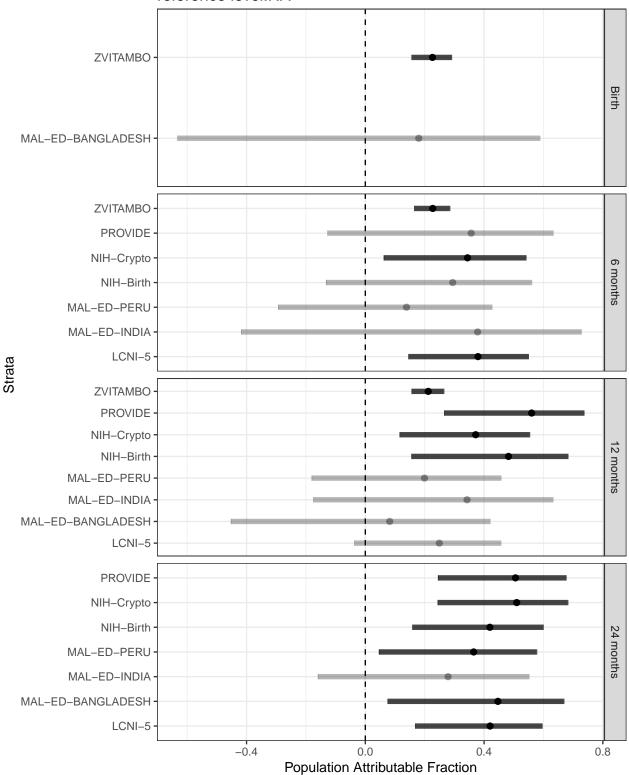




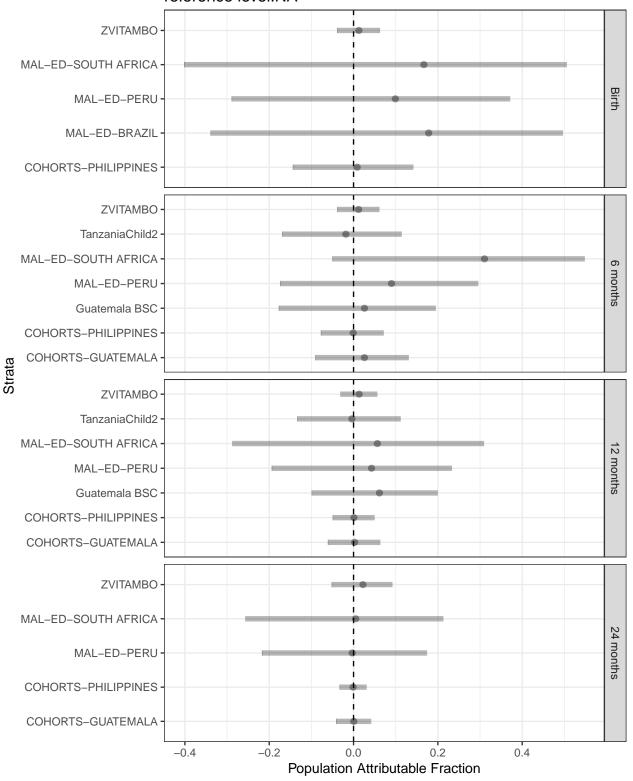




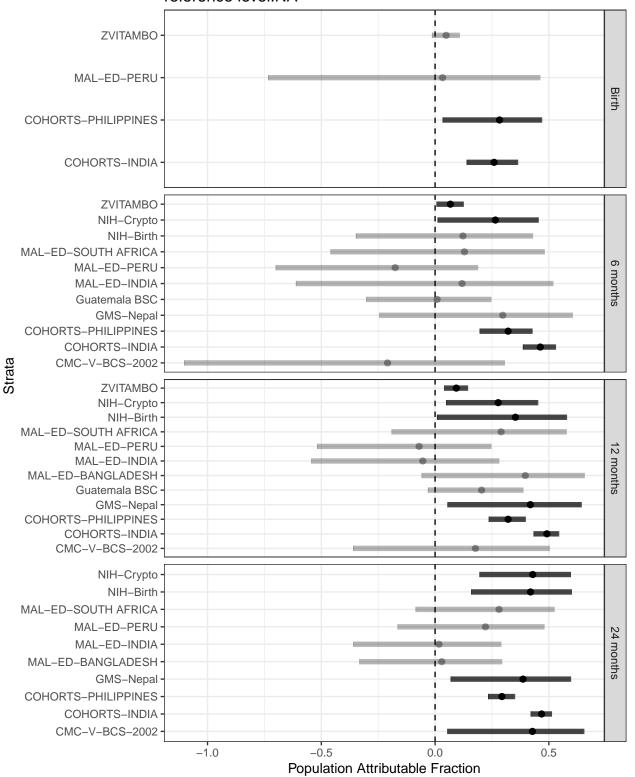




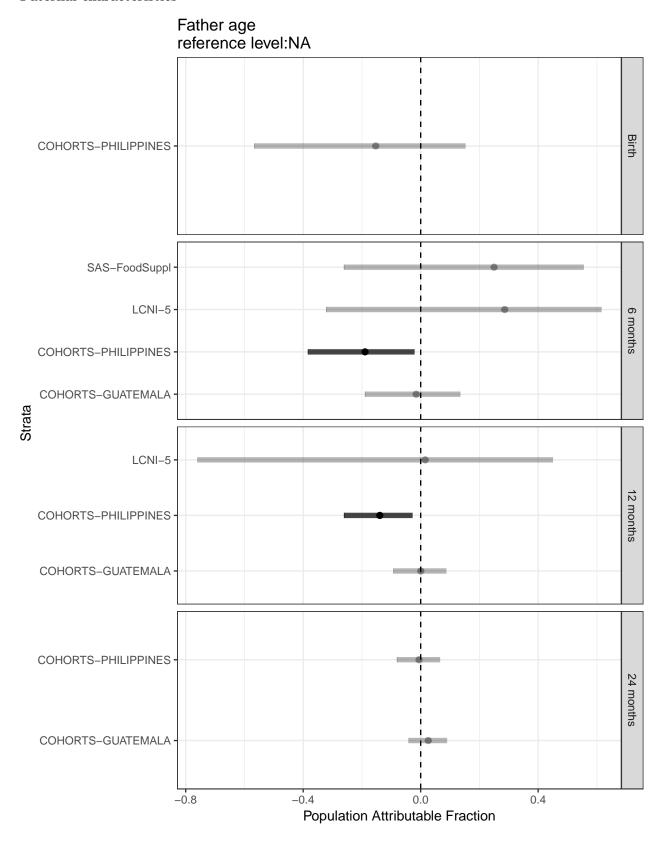
Mother is unmarried reference level:NA

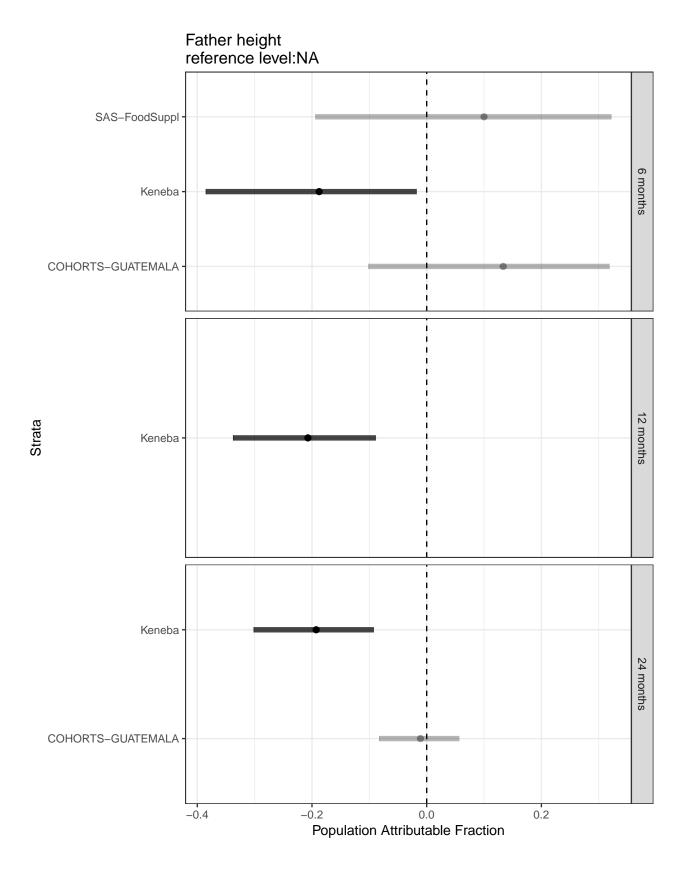


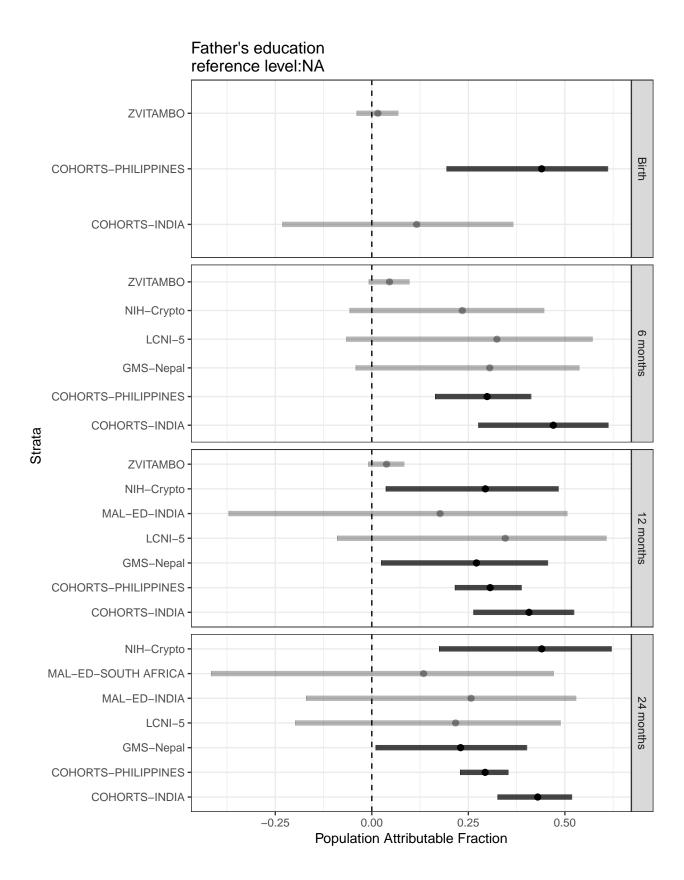
Mother's education reference level:NA



Paternal characteristics

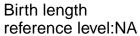


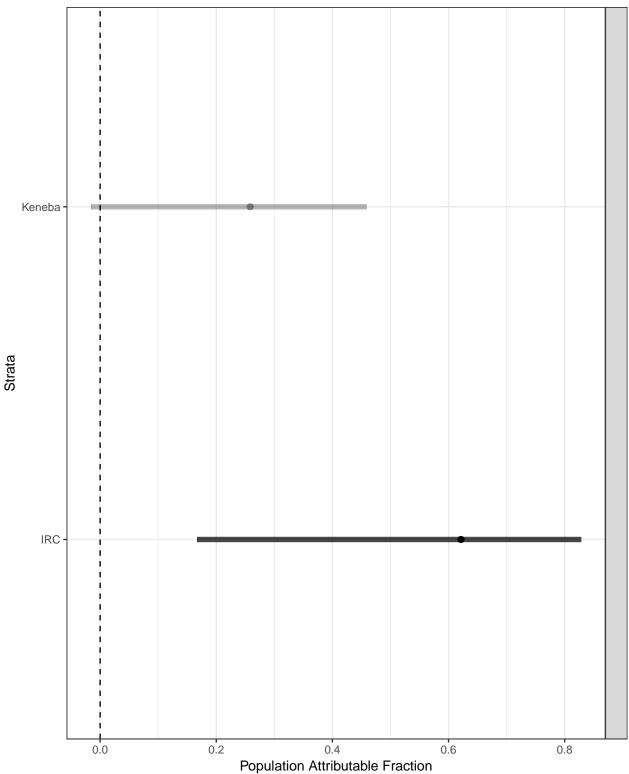




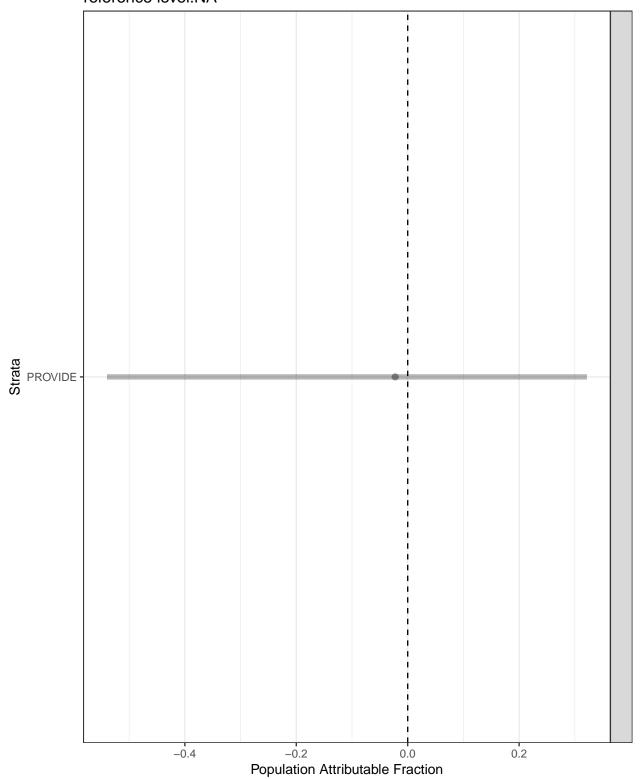
Proportion of children who were stunted between birth and 3 months who recovered by 24 months

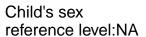
Child characteristics

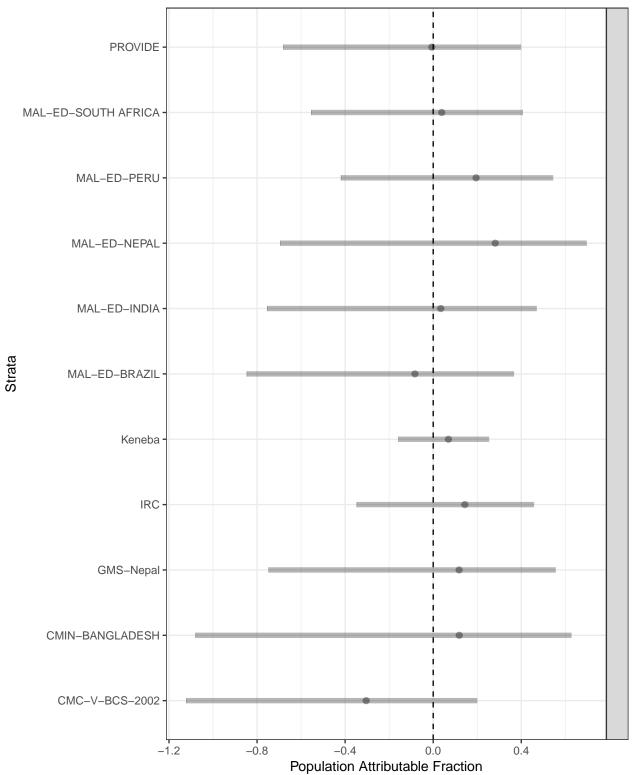


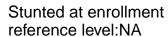


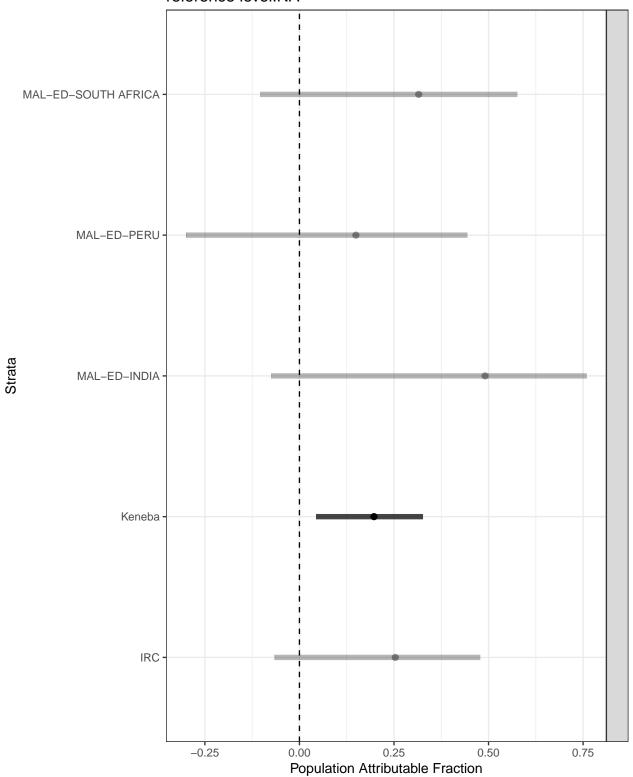
Child delivered at home reference level:NA

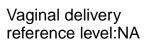


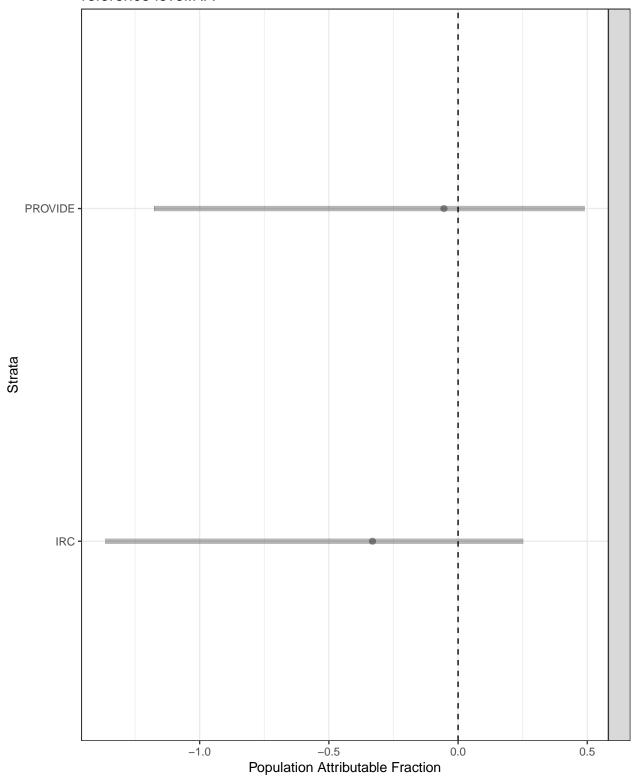






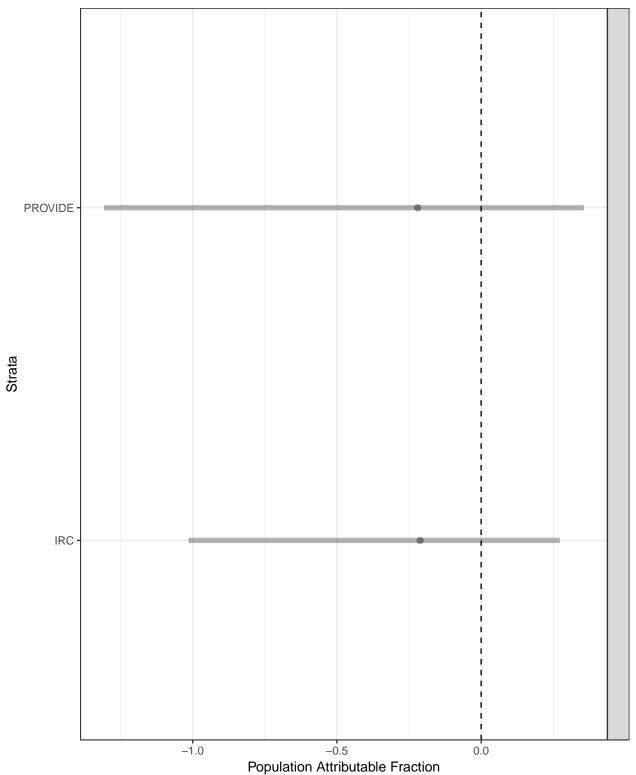




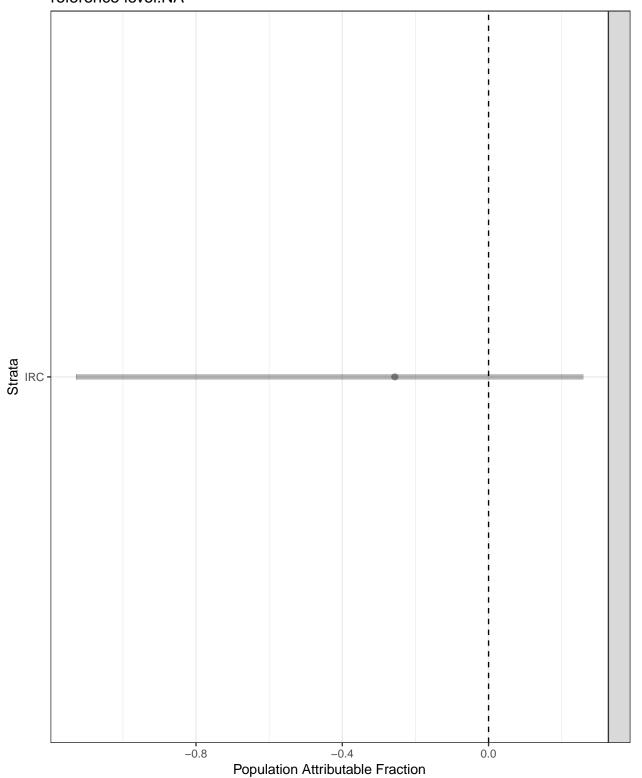


Household characteristics

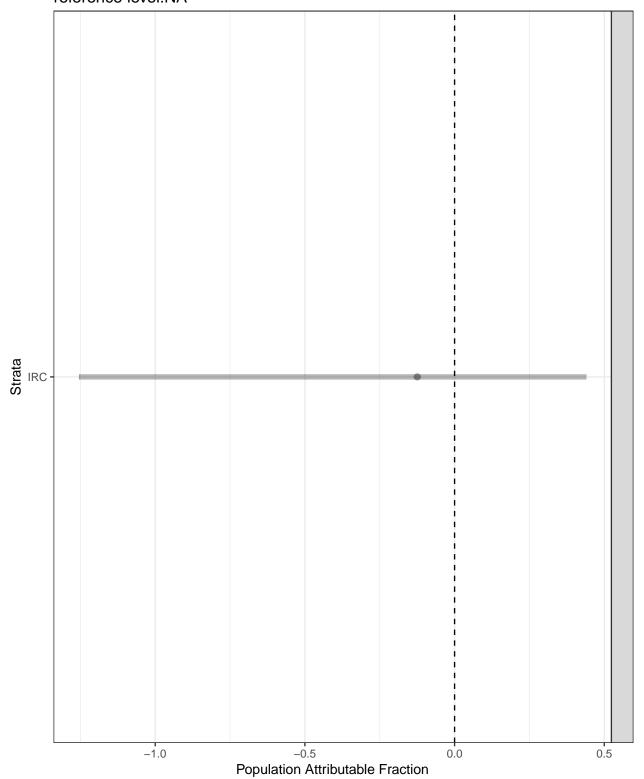
Asset based wealth index reference level:NA



Number of children in the household under 5 years reference level:NA



Number of people in the household reference level:NA



Maternal characteristics

Gestational age at birth reference level:NA

