**Appendix A**

**Adolescent questionnaire for assessment of food insecurity**

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| S.No | Questions | Responses |
|  | In the past four weeks, did you worry that your household would not have enough food? | 0 = No (skip to Q2)  1=Yes  ….|\_\_\_| |
| 1.a. | How often did this happen? | 1 = Rarely (once or twice in the past four weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, were you not able to eat the kinds of foods you preferred because of a lack of resources? | 0 = No (skip to Q3)  1=Yes ….|\_\_\_| |
| 2.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you have to eat a limited variety of foods due to a lack of resources? | 0 = No (skip to Q4)  1 = Yes  ….|\_\_\_| |
| 3.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks) |
|  | In the past four weeks, did you have to eat some foods that you really did not want to eat because of a lack of resources to obtain other types of food? | 0 = No (skip to Q5)  1 = Yes  ….|\_\_\_| |
| 4.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you have to eat a smaller meal than you felt you needed because there was not enough food? | 0 = No (skip to Q6)  1 = Yes  ….|\_\_\_| |
| 5.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you have to eat fewer meals in a day because there was not enough food? | 0 = No (skip to Q7)  1 = Yes  ….|\_\_\_| |
| 6.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, was there ever no food to eat of any kind for you because of lack of resources to get food? | 0 = No (skip to Q8)  1 = Yes  ….|\_\_\_| |
| 7.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you go to sleep at night hungry because there was not enough food? | 0 = No (skip to Q9)  1 = Yes  ….|\_\_\_| |
| 8.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you go a whole day and night without eating anything because there was not enough food? | 0 = No (the questionnaire is finished)  1 = Yes  ….|\_\_\_| |
| 9.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |

**Household questionnaire for assessment of food insecurity**

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| S.No | Questions | Responses |
|  | In the past four weeks, did you worry that your household would not have enough food? | 0 = No (skip to Q2)  1=Yes  ….|\_\_\_| |
| 1.a. | How often did this happen? | 1 = Rarely (once or twice in the past four weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, were you or any household member not able to eat the kinds of foods you preferred because of a lack of resources? | 0 = No (skip to Q3)  1=Yes ….|\_\_\_| |
| 2.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  |\_\_\_| |
|  | In the past four weeks, did you or any household member have to eat a limited variety of foods due to a lack of resources? | 0 = No (skip to Q4)  1 = Yes  ….|\_\_\_| |
| 3.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  |\_\_\_| |
|  | In the past four weeks, did you or any household member have to eat some foods that you really did not want to eat because of a lack of resources to obtain other types of food? | 0 = No (skip to Q5)  1 = Yes  ….|\_\_\_| |
| 4.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you or any household member have to eat a smaller meal than you felt you needed because there was not enough food? | 0 = No (skip to Q6)  1 = Yes  ….|\_\_\_| |
| 5.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you or any other household member have to eat fewer meals in a day because there was not enough food? | 0 = No (skip to Q7)  1 = Yes  ….|\_\_\_| |
| 6.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, was there ever no food to eat of any kind in your household because of lack of resources to get food? | 0 = No (skip to Q8)  1 = Yes  ….|\_\_\_| |
| 7.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you or any household member go to sleep at night hungry because there was not enough food? | 0 = No (skip to Q9)  1 = Yes  ….|\_\_\_| |
| 8.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |
|  | In the past four weeks, did you or any household member go a whole day and night without eating anything because there was not enough food? | 0 = No (the questionnaire is finished)  1 = Yes  ….|\_\_\_| |
| 9.a. | How often did this happen? | 1 = Rarely (once or twice in the past four  weeks)  2 = Sometimes (three to ten times in the past  four weeks)  3 = Often (more than ten times in the past four  weeks)  ….|\_\_\_| |

**Appendix B**

Interactions

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| **Interaction terms** | **p-value in model** |
| Household FI\*father schooling years | 0.97 |
| Household FI\*mother schooling years | 0.59 |
| Mother schooling years\*father schooling years | 0.66 |
| father schooling years\*SES (1)  father schooling years\*SES (2) | 0.22,  0.50 |

*p-value of < 0.20 was considered significant*