| Variables                              | Question                                                                 | Response options and recoding                                      |
|----------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------|
| **Outcome variable**                   |                                                                          |                                                                   |
| Anxiety-induced sleep disturbance      | During the past 12 months, how often have you been so worried about something that you could not sleep at night? | 1 = never to 5 = always (coded 1 - 3 = 0, 4 – 5 = 1)               |
| **Explanatory variables**              |                                                                          |                                                                   |
| Socio-demographic characteristics      |                                                                          |                                                                   |
| Age                                    | How old are you?                                                         | 1=12, 2=13, 3=14, 4=15, 5=16, 6=17, 7=18 years (coded as 0=1-14, 15-19) |
| Sex                                    | What is your sex?                                                        | 1=male, 2=female (coded 2=0, 1=male)                               |
| Grade                                  | In what grade are you?                                                   | 1=SHS1, 2=SHS2, 3=SHS3, 4=SHS4                                    |
| Hunger (proxy of socioeconomic status) | Went hungry past 30 days                                                | 1=never, 2=Rarely, 3=sometimes, 4=most of the times, 5=always (coded 1-3=0, 4-5=1) |
| Psychosocial environmental factors     |                                                                          |                                                                   |
| Tobacco use                            | During the past 30 days, on how many days did you use any other form of tobacco, such as chewing tobacco leaves? | 1 = 0 days; to 7 = All 30 days (coded as 1 = 0; and 2–7 = 1)         |
| Alcohol use                            | During the past 30 days, on how many days did you have at least one drink containing alcohol? | 1 = 0 days; to 7 = All 30 days (coded as 1 = 0; and 2–7 = 1)         |
| Smoking                                | During the past 30 days, how many days did you smoke cigarette?         | 1 = 0 days; to 7 = All 30 days (coded as 1 = 0; and 2–7 = 1)         |
| Marijuana use                          | During the past 30 days, how many times have you used marijuana (also called wee, Jah, Indian hemp, ahabammono, and ganja) | 1=0 times; to 5=20 or more times (coded as 1=0; and 2-5=1)           |
| Loneliness                             | During the past 12 months, how often have you felt lonely?              | 1=never, 2=rarely, 3=sometimes, 4=most of the time to 5=always (coded as 1-3 = 0; and 4- 5 = 1) |
| Injury                                 | During the past 12 months, how many times were you seriously injured?   | 1 = 0 times; to 8 = 12 or more time (coded as 1 = 0; and 2–8 = 1)    |
| Truancy                                | During the past 30 days, on how many days did you miss classes or school without permission? | 1=0 days,2= 1 or 2 days, 3=3 to 5 days, 4=6 to 9 days, 5= 10 or more (coded as 1=0; and 2-5=1) |
| Suicidal ideation                      | During the past 12 months, did you ever seriously consider attempting suicide?” | 1 = yes, 2 = no (coded 2 = 0; and 1 = 1)                           |
| Suicidal attempt                       | During the past 12 months, how many times did you actually attempt suicide? | 1=0 times; to 5= 6 or more times (coded as 1=0; and 2-5=1)           |
| Bullied                                | During the past 30 days, how were you bullied most often?               | 1 = 0 times; to 8 = 12 or more time (coded as 1 = 0; and 2–7 = 1)    |
| Fight                                  | During the past 12 months, how many times were you in a physical fight? | 1 = 0 times; to 8 = 12 or more times (coded as 1 = 0; and 2–8 = 1)   |
| Topic                          | Question                                                                 | Coding                                                                                           |
|-------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Injury                        | During the past 12 months, how many times were you seriously injured?   | 1 = 0 times; to 8 = 12 or more times (coded as 1 = 0; and 2–8 = 1)                                |
| Attacked                      | During the past 12 months, how many times were you physically attacked? | 1 = 0 days, 2 = 1 or 2 days, 3 = 3 to 5 days, 4 = 6 to 9 days, 5 = 10 or more (coded as 1 = 0; and 2–8 = 1) |
| Close friends                 | How many close friends do you have?                                      | 1 = 0 to 4 = 3 or more (coded as 1 = 0; and 2–4 = 1)                                             |
| Helpfulness (Peer support)    | During the past 30 days, how often were most of the students in your school kind and helpful? | 1 = never, 2 = Rarely, 3 = sometimes, 4 = most of the times, 5 = always (coded as 1–3 = 0; and 4–5 = 1) |
| Parents check homework        | During the past 30 days, how often did your parents or guardians check to see if your homework was done? | 1 = never, 2 = Rarely, 3 = sometimes, 4 = most of the times, 5 = always (coded as 1–3 = 0; and 4–5 = 1) |
| Understand problems          | During the past 30 days, how often did your parents or guardians understand your problems and worries? | 1 = never, 2 = Rarely, 3 = sometimes, 4 = most of the times, 5 = always (coded as 1–3 = 0; and 4–5 = 1) |
| Know what adolescent do free time | During the past 30 days, how often did your parents or guardians really know what you were doing with your free time? | 1 = never, 2 = Rarely, 3 = sometimes, 4 = most of the times, 5 = always (coded as 1–3 = 0; and 4–5 = 1) |
| Parental or guardian respect for Privacy | During the past 30 days, how often did your parents or guardians go through your things without your approval? | 1 = never; to 5 = always (coded as 1–3 = 0; and 4–5 = 1) |