**Supplementary file 1**: The intervention protocol to examine the effect of selected double-duty interventionson the DBM among secondary school adolescents in DBC, Central Ethiopia, 2022/23

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| **Type of intervention package** | **Frequency (dose)** | **Compliance parameter** |
| **Nutrition Behaviour Change Communication on using HBM** * Optimal adolescent nutrition (taking from ten main food groups)
* Moderate intensity physical exercise at least for 3 days a week for 30-45 minutes
* Prevention of undue harm from energy-dense foods (avoiding Junk processed foods, avoiding fizzy sweetened drinks, street fast foods, chips, and minimizing salt, sugar, fats etc.)
* Promotion to control market foods (packed foods, soft drinks)
* Causes and consequences of DBM
 | Every two months | Number of participants who attend the NBCC  |
| **Message text** on * Optimal adolescent nutrition (taking from ten main food groups)
* Moderate intensity physical exercise at least for 3 days a week for 30-45 minutes
* Prevention of undue harm from energy-dense foods (avoiding Junk processed foods, avoiding fizzy sweetened drinks, street fast foods, chips, and minimizing salt, sugar, fats etc.)
* Promotion to control market foods (packed foods, soft drinks)
* Causes and consequences of DBM
 | Every two months | Number of participants who received the message text |
| **Phone call** on * Optimal adolescent nutrition (taking from ten main food groups)
* Moderate intensity physical exercise at least for 3 days a week for 30-45 minutes
* Prevention of undue harm from energy-dense foods (avoiding Junk processed foods, avoiding fizzy sweetened drinks, street fast foods, chips, and minimizing salt, sugar, fats etc.)
* Promotion to control market foods (packed foods, soft drinks)
* Causes and consequences of DBM
 | Every two months | Number of participants who received the phone  |
| **One-page brochure for all**  | Once a time after the first contact | Number of participants who received the leaflet |