S4 Table. Cost effectiveness results of the sensitivity analyses

|  | Quintile 1 (95\%CI) | Quintile 2 (95\%CI) | Quintile 3 (95\%CI) | Quintile 4 (95\%CI) | Quintile 5 (95\%CI) | Total (95\%CI) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20\% sugar-sweetened beverage tax including flavoured milk |  |  |  |  |  |  |
| Total HALYs saved over lifetime (thousands) | $\begin{gathered} 58.1 \\ (18.0,97.7) \end{gathered}$ | $\begin{gathered} 54.9 . \\ (32.9,76.7) \end{gathered}$ | $\begin{gathered} 54.6 \\ (22.9,85.4) \end{gathered}$ | $\begin{gathered} 34.9 \\ (30.1,40.6) \end{gathered}$ | $\begin{gathered} 28.2 \\ (12.2,44.3) \end{gathered}$ | $\begin{gathered} 192.7 \\ (75.8,301.2) \end{gathered}$ |
| Total years of life saved over lifetime (thousands) | $\begin{gathered} 44.3 \\ (13.6,72.9) \end{gathered}$ | $\begin{gathered} \text { 41.0. } \\ (24.76 .7) \end{gathered}$ | $\begin{gathered} 41.1 \\ (17.2,63.8) \end{gathered}$ | $\begin{gathered} 25.9 \\ (23.0,29.3) \end{gathered}$ | $\begin{gathered} 21.7 \\ (10.0,33.6) \end{gathered}$ | $\begin{gathered} 121.1 \\ (47.8,189.9) \end{gathered}$ |
| Total healthcare cost savings over lifetime (millions of dollars) | $\begin{gathered} 473.0 \\ (145.6,767.5) \end{gathered}$ | $\begin{gathered} 473.1 \\ (286.5,656.4) \end{gathered}$ | $\begin{gathered} 476.2 \\ (196.9,738.6) \end{gathered}$ | $\begin{gathered} 325.0 \\ (273.6,381.5) \end{gathered}$ | $\begin{gathered} 260.3 \\ (111.6,407.7) \end{gathered}$ | $\begin{gathered} 1,951.4 \\ (1,687.2,2,218.3) \end{gathered}$ |
| Net cost per HALY saved | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving |
| Out-of-pocket healthcare costs saved over lifetime (millions of dollars) | $\begin{gathered} 40.2 \\ (34.8,45.7) \end{gathered}$ | $\begin{gathered} 40.7 \\ (35.2,46.3) \end{gathered}$ | $\begin{gathered} 57.8 \\ (50.0,65.8) \end{gathered}$ | $\begin{gathered} 79.3 \\ (68.6,90.2) \end{gathered}$ | $\begin{gathered} 121.4 \\ (105.0,138.0) \end{gathered}$ | $\begin{gathered} 339.5 \\ (293.6,386.0) \end{gathered}$ |
| Out-of-pocket costs of tax (dollars per person, yearly) | $\begin{gathered} 40.90 \\ (24.80,64.0) \end{gathered}$ | $\begin{gathered} 37.30 \\ (22.80,57.70) \end{gathered}$ | $\begin{gathered} 33.30 \\ (19.50,51.60) \end{gathered}$ | $\begin{gathered} 30.60 \\ (17.80,49.40) \end{gathered}$ | $\begin{gathered} 33.20 \\ (20.50,51.10) \end{gathered}$ | $\begin{gathered} 34.10 \\ (20.80,53.40) \end{gathered}$ |
| \% expenditure food and nonalcoholic drinks | 0.62\% | 0.40\% | 0.30\% | 0.25\% | 0.23\% | 0.32\% |
| 50\% pass-through of 20\% sugar-sweetened beverage tax ( $10 \%$ tax rate) |  |  |  |  |  |  |
| Total HALYs saved over | 29.2 | 27.3 | 27.1 | 16.5 | 14.7 | 89.0 |


| lifetime (thousands) | (26.1, 32.6) | $(4.6,49.1)$ | (10.9, 43.7) | (14.1, 19.3) | (13.2, 16.4) | (33.6, 144.8) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total years of life saved over lifetime (thousands) | $\begin{gathered} 22.1 \\ (20.9,23.4) \end{gathered}$ | $\begin{gathered} 20.3 \\ (3.4,36.3) \end{gathered}$ | $\begin{gathered} 20.5 \\ (8.4,32.7) \end{gathered}$ | $\begin{gathered} 12.2 \\ (10.8,13.9) \end{gathered}$ | $\begin{gathered} 11.2 \\ (10.5,12.0) \end{gathered}$ | $\begin{gathered} 61.5 \\ (23.8,99.2) \end{gathered}$ |
| Total healthcare cost savings over lifetime (millions of dollars) | $\begin{gathered} 238.5 \\ (211.4,265.0) \end{gathered}$ | $\begin{gathered} 235.7 \\ (40.3,154.0) \end{gathered}$ | $\begin{gathered} 236.8 \\ (95.4,376.9) \end{gathered}$ | $\begin{gathered} 154.0 \\ (129.8,181.7) \end{gathered}$ | $\begin{gathered} 133.7 \\ (118.0,151.3) \end{gathered}$ | $\begin{gathered} 957.5 \\ (829.8,1,102) \end{gathered}$ |
| Net cost per HALY saved | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving |
| Out-of-pocket healthcare costs saved over lifetime (millions of dollars) | $\begin{gathered} 19.7 \\ (17.1,22.7) \end{gathered}$ | $\begin{gathered} 20.0 \\ (17.3,23.0) \end{gathered}$ | $\begin{gathered} 28.4 \\ (24.6,32.7) \end{gathered}$ | $\begin{gathered} 38.9 \\ (33.7,44.8) \end{gathered}$ | $\begin{gathered} 59.6 \\ (51.6,68.6) \end{gathered}$ | $\begin{gathered} 166.6 \\ (144.4,191.8) \end{gathered}$ |
| Out-of-pocket costs of tax (dollars per person, yearly) | $\begin{gathered} 20.7 \\ (12.40,31.80) \end{gathered}$ | $\begin{gathered} 17.10 \\ (12.50,22.60) \end{gathered}$ | $\begin{gathered} 17.90 \\ (11.30,27.40) \end{gathered}$ | $\begin{gathered} 15.70 \\ (9.30,25.10) \end{gathered}$ | $\begin{gathered} 17.20 \\ (10.60,26.30) \end{gathered}$ | $\begin{gathered} 16.90 \\ (10.30,25.80) \end{gathered}$ |
| \% expenditure food and nonalcoholic drinks | 0.31\% | 0.18\% | 0.16\% | 0.13\% | 0.12\% | 0.32\% |
| 30\% sugar-sweetened beverage tax |  |  |  |  |  |  |
| Total HALYs saved over lifetime (thousands) | $\begin{gathered} 70.5 \\ (23.3,112.6) \end{gathered}$ | $\begin{gathered} 69.4 \\ (47.1,92.3) \end{gathered}$ | $\begin{gathered} 66.2 \\ (27.1,100.0) \end{gathered}$ | $\begin{gathered} 43.8 \\ (37.5,51.5) \end{gathered}$ | $\begin{gathered} 38.5 \\ (17.5,58.0) \end{gathered}$ | $\begin{gathered} 224.5 \\ 91.6,346.0) \end{gathered}$ |
| Total years of life saved over lifetime (thousands) | $\begin{gathered} 53.9 \\ (17.9,85.6) \end{gathered}$ | $\begin{gathered} 51.9 \\ (35.6,68.1) \end{gathered}$ | $\begin{gathered} 50.2 \\ (20.3,75.9) \end{gathered}$ | $\begin{gathered} 32.6 \\ (28.7,37.0) \end{gathered}$ | $\begin{gathered} 29.5 \\ (13.6,43.9) \end{gathered}$ | $\begin{gathered} 155.5 \\ (62.9,238.7) \end{gathered}$ |
| Total healthcare cost savings over lifetime (millions of dollars) | $\begin{gathered} 574.4 \\ (195.7,919.7) \end{gathered}$ | $\begin{gathered} 598.6 \\ (405.8,788.3) \end{gathered}$ | $\begin{gathered} 576.1 \\ (233.2,865.6) \end{gathered}$ | $\begin{gathered} 407.4 \\ (341.1,480.2) \end{gathered}$ | $\begin{gathered} 352.3 \\ (164.4,536.2) \end{gathered}$ | $\begin{gathered} 2501.4 \\ (2,181.9,2,820.4) \end{gathered}$ |
| Net cost per HALY saved | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving |


| Out-of-pocket healthcare costs saved over lifetime (millions of dollars) | $\begin{gathered} 51.6 \\ (6.1,45.0) \end{gathered}$ | $\begin{gathered} 52.2 \\ (6.2,45.5) \end{gathered}$ | $\begin{gathered} 74.2 \\ (8.8,64.7) \end{gathered}$ | $\begin{gathered} 101.7 \\ (12.1,88.7) \end{gathered}$ | $\begin{gathered} 155.6 \\ (18.4,135.7) \end{gathered}$ | $\begin{gathered} 435.2 \\ (379.7,490.8) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Out-of-pocket costs of tax (dollars per person, yearly) | $\begin{gathered} 51.40 \\ (39.10,67.90) \end{gathered}$ | $\begin{gathered} 47.10 \\ (36.10,61.10) \end{gathered}$ | $\begin{gathered} 49.60 \\ (37.90,62.70) \end{gathered}$ | $\begin{gathered} 46.70 \\ (38.30,56.90) \end{gathered}$ | $\begin{gathered} 33.50 \\ (20.70,51.00) \end{gathered}$ | $\begin{gathered} 51.20 \\ (31.20,80.10) \end{gathered}$ |
| \% expenditure food and nonalcoholic drinks | 0.78\% | 0.50\% | 0.45\% | 0.39\% | 0.23\% | 0.48\% |
| 50c per litre tax |  |  |  |  |  |  |
| Total HALYs saved over lifetime (thousands) | $\begin{gathered} 30.4 \\ (4.4,54.7) \end{gathered}$ | $\begin{gathered} 31.0 \\ (4.0,58.2) \end{gathered}$ | $\begin{gathered} 33.2 \\ (13.1,51.3) \end{gathered}$ | $\begin{gathered} 20.3 \\ (17.5,23.6) \end{gathered}$ | $\begin{gathered} 12.7 \\ (5.9,19.5) \end{gathered}$ | $\begin{gathered} 167.5 \\ (148.5,189.6) \end{gathered}$ |
| Total years of life saved over lifetime (thousands) | $\begin{gathered} 23.1 \\ 3.4,42.2 \end{gathered}$ | $\begin{gathered} 23.2 \\ 2.8,43.3 \end{gathered}$ | $\begin{gathered} 25.1 \\ 10.0,39.1 \end{gathered}$ | $\begin{gathered} 15.0 \\ 13.3,16.9 \end{gathered}$ | $\begin{gathered} 9.7 \\ 4.5,14.9 \end{gathered}$ | $\begin{gathered} 116.0 \\ 108.8,122.9 \end{gathered}$ |
| Total healthcare cost savings over lifetime (millions of dollars) | $\begin{gathered} 248.2 \\ 34.8,445.5 \end{gathered}$ | $\begin{gathered} 264.3 \\ 38.4,486.3 \end{gathered}$ | $\begin{gathered} 289.1 \\ 117.3,456.4 \end{gathered}$ | $\begin{gathered} 188.9 \\ 159.5,220.1 \end{gathered}$ | $\begin{gathered} 116.4 \\ 53.2,180.7 \end{gathered}$ | $\begin{gathered} 1,141.0 \\ 989.8,1,309.7 \end{gathered}$ |
| Net cost per HALY saved | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving | Cost saving |
| Out-of-pocket healthcare costs saved over lifetime (millions of dollars) | $\begin{gathered} 23.5 \\ (20.4,27.0) \end{gathered}$ | $\begin{gathered} 23.8 \\ (20.6,27.3) \end{gathered}$ | $\begin{gathered} 33.8 \\ (29.3,38.8) \end{gathered}$ | $\begin{gathered} 46.4 \\ (40.2,53.2) \end{gathered}$ | $\begin{gathered} 71.0 \\ (61.6,81.5) \end{gathered}$ | $\begin{gathered} 198.5 \\ (172.2,227.9) \end{gathered}$ |
| Out-of-pocket costs of tax (dollars per person, yearly) | $\begin{gathered} 34.40 \\ (31.90,37.00) \end{gathered}$ | $\begin{gathered} 27.80 \\ (25.00,30.90) \end{gathered}$ | $\begin{gathered} 30.50 \\ (26.80,34.70) \end{gathered}$ | $\begin{gathered} 23.60 \\ (20.60,26.70) \end{gathered}$ | $\begin{gathered} 25.70 \\ (23.70,27.90) \end{gathered}$ | $\begin{gathered} 25.80 \\ (23.80,27.80) \end{gathered}$ |
| \% expenditure food and nonalcoholic drinks | 0.32\% | 0.42\% | 0.33\% | 0.21\% | 0.21\% | 0.18\% |

