**Supplementary Table 1.** Description of the meta-analyses addressing the association between sodium or salt intake and gastric cancer included in the systematic review.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **First author,**  **year (ref)** | **Outcome**  **(measures)** | **Databases**  **searched**  **(time period)** | **Search expression / terms**  **Search restrictions** | **Number and type**  **of studies included** | **Quality score**  **assessment** | **Summary estimate (95% CI)**  **Heterogeneity (*I2* and sources)**  **Publication bias** |
| WCRF, 2007 [7](#_ENREF_7) | Gastric cancer  (risk, incidence, mortality) | MEDLINE,  EMBASE,  CAB Abstracts,  WEB OF SCIENCE,  BIOSIS,  LILACS,  COCHRANE,  CINAHL,  AMED  (inception-2006)  Citation tracking | *Not specifically stated*  No language restrictions | 17  3 cohort  14 case-control | No | Highest *vs.* lowest total salt use  All studies – RR=1.45 (1.07-1.98), n=11, *I2*=81.2%  ACCORDING TO STUDY DESIGN  Cohort – RR=1.14 (0.52-2.47), n=2, *I2*=88.6%  Case-control – RR=1.56 (1.10-1.98), n=9, *I2*=81.2%  *Per* 1 g/d increment in total salt use  All studies – RR=1.03 (1.00-1.06), n=11, *I2*=78.3%  ACCORDING TO STUDY DESIGN  Cohort – RR=1.08 (1.00-1.17), n=2, *I2*=59.9%  Case-control – RR=1.01 (0.99-1.04), n=9, *I2*=73.3%  Highest *vs.* lowest sodium intake  All studies – RR=2.03 (0.91-4.52), n=5, *I2*=90.8%  *Per* 1 g/d increment in sodium intake  All studies – RR=1.14 (1.00-1.30), n=6, *I2*=85.7%  ACCORDING TO STUDY DESIGN  Cohort – RR=0.92 (0.81-1.06), n=1  Case-control – RR=1.18 (1.02-1.38), n=5, *I2*=87.0% |
| D’Elia, 2012 [10](#_ENREF_10) | Gastric cancer  (incidence and mortality) | MEDLINE  (1966-2010),  COCHRANE  Citation tracking | *Salt, Salty, Salted, Sodium, Diet, Dietary, Food, Snack AND Stomach cancer, Gastric cancer, Helicobacter pylori, HP, Chronic atrophic gastritis, adenomatous polyps, intestinal metaplasia, dysplasia or combinations thereof, either in medical subject headings (MeSH) or in the title/abstract, with no restrictions* | 18 prospective  7 providing data on total daily dietary salt/sodium intake  14 providing data on specific salt-rich foods intake | Newcastle-Ottawa scale | High *vs.* low total daily dietary salt intake  RR=1.68 (1.17-2.41), n=7, *I2*=71%, Egger´s test: p=0.46  Moderately high *vs.* low total daily dietary salt intake  RR=1.41 (1.03-1.93), n=7, *I2*=63%, Egger’s test: p=0.43  High *vs.* low pickled foods intake  RR=1.27 (1.09-1.49), n=7, *I2*=25%  High *vs.* low salted fish intake  RR=1.24 (1.03-1.50), n=8, *I2*=0%  High *vs.* low processed meat intake  RR=1.24 (1.06-1.46), n=5, *I2*=21%  High *vs.* low miso-soup intake  RR=1.05 (0.88-1.25), n=8, *I2*=27% |
| Ge, 2012 [11](#_ENREF_11) | Gastric cancer  (risk, incidence, mortality) | MEDLINE,  EMBASE  (1992-2012)  Citation tracking | *“salt or sodium or salty or sodium chloride” and “gastric cancer or stomach cancer”*  Restricted to studies published in English | 11  4 cohort  7 case-control | Newcastle-Ottawa scale | High *vs.* low salt intake  All studies – RR=2.05 (1.60-2.62), n=11, *I2*=92%, Egger’s test: p=0.46  ACCORDING TO SOURCES OF SALT INTAKE  Salt – RR=1.20 (1.15-1.26), n=4, *I2*=67%  Salty food – RR=2.41 (2.08-2.78), n=7, *I2*=89%  ACCORDING TO GEOGRAPHIC REGION  Europe – RR=1.15 (0.88-1.52), n=2, *I2*=41%  Asia – RR=1.27 (1.22-1.32), n=8, *I2*=95%  Japan – RR=2.61 (2.02-3.38), n=4, *I2*=88% |
| Bonequi, 2013 [14](#_ENREF_14) | Gastric cancer  (risk) | MEDLINE,  LILACS,  SCIELO  (inception-2011)  Citation tracking | *(gastric cancer OR stomach cancer) AND (risk OR risk factors OR risk assessment OR epidemiologic factors OR diet OR food habits OR fruit OR vegetables OR sodium, dietary OR salts OR table salt OR sodium chloride, dietary OR nitrites OR meat OR chili pepper OR tobacco use OR smoking OR alcohol OR alcoholic beverages OR alcohol drinking OR polymorphism, genetic OR polymorphism, single nucleotide OR SNPs) AND (case–control studies OR cohort studies OR cohort OR case–control) AND (Latin America OR Central America OR South America OR Argentina OR Aruba OR Bolivia OR Brazil OR Colombia OR Costa Rica OR Cuba OR Chile OR Dominican Republic OR Ecuador OR El Salvador OR Guatemala OR Honduras OR Mexico OR Nicaragua OR Panama OR Paraguay OR Peru OR Uruguay OR Venezuela); only studies conducted in the 20 countries comprising Latin America as defined by the United Nations Educational Scientific and Cultural Organization were included*  No language restrictions | 7 for salt as exposure  2 population-based case-control  1 case-control with healthy volunteers  4 hospital-based case-control | No | Frequently to always *vs.* infrequent tabled salt use  OR=2.24 (1.53-3.29), n=7, *I2*=57.2%, Egger’s test: p=0.22 |
| Woo, 2014 [15](#_ENREF_15) | Gastric cancer  (risk) | KMBASE,  KOREAMED,  MEDLINE  (inception-2014)  Citation tracking | *(Korean or Korea) and (food or diet or intake or nutrition) and (cancer risk)*  No language restrictions | 5 for salt as exposure  2 cohort  3 hospital-based case-control | No | Highest *vs.* lowest intake of high salt foods  Salt – RR=1.92 (1.52-2.43), n=3, *I2*=38.9%  Salted vegetables – RR=2.44 (0.97-6.13), n=2, *I2*=79.6%  Kimchi – RR=2.21 (1.29-3.77), n=3, *I2*=73.0%  Soybean paste – RR=1.27 (0.71-2.27), n=3, *I2*=71.0%  Soybean paste stew – RR=2.26 (0.75-6.82), n=3, *I2*=85.4%  Salted fish – RR=0.98 (0.70-1.39), n=4, *I2*=51.6% |

CI – Confidence interval; OR – Odds ratio; RR – Relative risk.

**Supplementary Table 2.** Estimates of population attributable fractions for gastric cancer in 2010 and 2030 due to sodium intake above the World Health Organization recommendation (≤ 2 g/day) in men in 187 countries a, based on the mean sodium intake in 1990 and 2010, respectively, b and relative risk of the association between sodium intake and gastric cancer c.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Country** | **Men** | | | | |
| **Sodium intake**  **in 1990 (g/d)** | **Population attributable**  **fraction in 2010 (%) d** |  | **Sodium intake**  **in 2010 (g/d)** | **Population attributable**  **fraction in 2030 (%) d** |
| AFRICA |  |  |  |  |  |
| *Eastern Africa* |  |  |  |  |  |
| Burundi Δ | 1.70 | 0.0 |  | 1.82 | 0.0 |
| Comoros Δ | 1.78 | 0.0 |  | 1.74 | 0.0 |
| Djibouti Δ | 2.39 | 5.0 |  | 2.48 | 6.1 |
| Eritrea | 2.43 | 5.5 |  | 2.50 | 6.3 |
| Ethiopia Δ | 2.42 | 5.4 |  | 2.38 | 4.8 |
| Kenya Δ | 1.50 | 0.0 |  | 1.55 | 0.0 |
| Madagascar Δ | 2.25 | 3.2 |  | 2.31 | 4.0 |
| Malawi Δ | 1.71 | 0.0 |  | 1.73 | 0.0 |
| Mauritius ° | 5.28 | 34.9 |  | 5.71 | 38.5 |
| Mozambique Δ | 2.24 | 3.1 |  | 2.36 | 4.6 |
| Rwanda Δ | 1.59 | 0.0 |  | 1.67 | 0.0 |
| Seychelles | 4.59 | 28.8 |  | 4.57 | 28.6 |
| Somalia | 2.14 | 1.8 |  | 2.17 | 2.2 |
| Tanzania Δ | 2.94 | 11.6 |  | 2.88 | 10.9 |
| Uganda Δ | 2.05 | 0.6 |  | 2.21 | 2.7 |
| Zambia Δ | 2.39 | 5.0 |  | 2.38 | 4.8 |
| Zimbabwe Δ | 3.21 | 14.6 |  | 3.25 | 15.1 |
| *Middle Africa* |  |  |  |  |  |
| Angola Δ | 2.58 | 7.3 |  | 2.61 | 7.7 |
| Cameroon Δ | 2.18 | 2.3 |  | 2.19 | 2.4 |
| Central African Republic Δ | 2.89 | 11.0 |  | 2.94 | 11.6 |
| Chad Δ | 3.00 | 12.3 |  | 3.02 | 12.5 |
| Congo + | 2.42 | 5.4 |  | 2.35 | 4.5 |
| Congo, Dem. Rep. Δ | 2.39 | 5.0 |  | 2.54 | 6.8 |
| Equatorial Guinea + | 2.61 | 7.7 |  | 2.40 | 5.1 |
| Gabon + | 2.02 | 0.3 |  | 2.09 | 1.2 |
| Sao Tome and Principe + | 2.48 | 6.1 |  | 2.47 | 6.0 |
| *Northern Africa* |  |  |  |  |  |
| Algeria ° | 4.09 | 24.0 |  | 4.51 | 28.0 |
| Egypt + | 3.81 | 21.1 |  | 3.85 | 21.5 |
| Libya ° | 3.90 | 22.0 |  | 4.45 | 27.4 |
| Morocco + | 4.17 | 24.7 |  | 4.53 | 28.2 |
| Sudan Δ | 2.43 | 5.5 |  | 2.49 | 6.2 |
| Tunisia ° | 4.31 | 26.1 |  | 4.63 | 29.1 |
| *Southern Africa* |  |  |  |  |  |
| Botswana + | 2.63 | 7.9 |  | 2.66 | 8.3 |
| Lesotho Δ | 2.79 | 9.8 |  | 2.76 | 9.5 |
| Namibia + | 2.72 | 9.0 |  | 2.78 | 9.7 |
| South Africa + | 2.53 | 6.7 |  | 2.61 | 7.7 |
| Swaziland + | 2.77 | 9.6 |  | 2.67 | 8.4 |
| *Western Africa* |  |  |  |  |  |
| Benin Δ | 3.01 | 12.4 |  | 2.97 | 11.9 |
| Burkina Faso Δ | 3.07 | 13.1 |  | 3.04 | 12.7 |
| Cape Verde + | 3.16 | 14.1 |  | 3.42 | 17.0 |
| Cote d’Ivoire Δ | 2.90 | 11.1 |  | 2.94 | 11.6 |
| Gambia Δ | 3.18 | 14.3 |  | 3.22 | 14.8 |
| Ghana Δ | 2.56 | 7.1 |  | 2.45 | 5.7 |
| Guinea Δ | 2.84 | 10.4 |  | 2.92 | 11.4 |
| Guinea-Bissau Δ | 3.09 | 13.3 |  | 3.17 | 14.2 |
| Liberia Δ | 2.76 | 9.5 |  | 2.82 | 10.2 |
| Mali Δ | 3.38 | 16.5 |  | 3.31 | 15.8 |
| Mauritania Δ | 3.25 | 15.1 |  | 3.12 | 13.6 |
| Niger Δ | 3.24 | 15.0 |  | 3.05 | 12.8 |
| Nigeria Δ | 2.94 | 11.6 |  | 2.96 | 11.8 |
| Senegal Δ | 3.11 | 13.5 |  | 3.32 | 15.9 |
| Sierra Leone Δ | 2.64 | 8.0 |  | 2.63 | 7.9 |
| Togo Δ | 2.96 | 11.8 |  | 2.94 | 11.6 |
| AMERICA |  |  |  |  |  |
| *Caribbean* |  |  |  |  |  |
| Antigua and Barbuda | 2.85 | 10.5 |  | 2.81 | 10.1 |
| Bahamas ° | 3.18 | 14.3 |  | 3.13 | 13.8 |
| Barbados x | 3.56 | 18.5 |  | 3.59 | 18.8 |
| Cuba ° | 2.94 | 11.6 |  | 2.75 | 9.4 |
| Dominica | 2.74 | 9.2 |  | 2.82 | 10.2 |
| Dominican Republic + | 2.57 | 7.2 |  | 2.70 | 8.8 |
| Grenada | 2.55 | 7.0 |  | 2.73 | 9.1 |
| Haiti Δ | 2.56 | 7.1 |  | 2.78 | 9.7 |
| Jamaica ° | 2.00 | 0.0 |  | 2.01 | 0.1 |
| Saint Lucia | 2.98 | 12.0 |  | 3.08 | 13.2 |
| Saint Vincent and the Grenadines | 2.83 | 10.3 |  | 2.94 | 11.6 |
| Trinidad and Tobago ° | 2.90 | 11.1 |  | 3.07 | 13.1 |
| *Central America* |  |  |  |  |  |
| Belize ° | 2.80 | 9.9 |  | 2.75 | 9.4 |
| Costa Rica ° | 3.13 | 13.8 |  | 3.32 | 15.9 |
| El Salvador + | 3.35 | 16.2 |  | 3.36 | 16.3 |
| Guatemala + | 2.99 | 12.2 |  | 3.08 | 13.2 |
| Honduras + | 3.02 | 12.5 |  | 3.07 | 13.1 |
| Mexico ° | 2.85 | 10.5 |  | 2.89 | 11.0 |
| Nicaragua + | 3.30 | 15.6 |  | 3.37 | 16.4 |
| Panama ° | 3.52 | 18.0 |  | 3.54 | 18.3 |
| *Northern America* |  |  |  |  |  |
| Canada x | 3.74 | 20.4 |  | 3.88 | 21.8 |
| United States of America x | 3.62 | 19.1 |  | 3.78 | 20.8 |
| *Southern America* |  |  |  |  |  |
| Argentina ° | 3.16 | 14.1 |  | 3.15 | 14.0 |
| Bolivia + | 3.67 | 19.6 |  | 3.77 | 20.7 |
| Brazil ° | 4.08 | 23.8 |  | 4.31 | 26.1 |
| Chile ° | 2.92 | 11.4 |  | 2.92 | 11.4 |
| Colombia ° | 4.31 | 26.1 |  | 4.29 | 25.9 |
| Ecuador ° | 3.00 | 12.3 |  | 3.17 | 14.2 |
| Guyana + | 2.47 | 6.0 |  | 2.56 | 7.1 |
| Paraguay + | 4.23 | 25.3 |  | 4.52 | 28.1 |
| Peru ° | 3.20 | 14.5 |  | 3.22 | 14.8 |
| Suriname + | 2.79 | 9.8 |  | 3.03 | 12.6 |
| Uruguay ° | 2.90 | 11.1 |  | 2.87 | 10.8 |
| Venezuela ° | 3.52 | 18.0 |  | 3.72 | 20.2 |
| ASIA |  |  |  |  |  |
| *Eastern Asia* |  |  |  |  |  |
| China + | 4.63 | 29.1 |  | 5.05 | 32.9 |
| Japan x | 4.93 | 31.9 |  | 5.12 | 33.5 |
| Mongolia + | 5.43 | 36.2 |  | 5.38 | 35.8 |
| North Korea | 3.49 | 17.7 |  | 4.01 | 23.1 |
| South Korea x | 5.15 | 33.8 |  | 5.46 | 36.4 |
| Taiwan + | 3.55 | 18.4 |  | 4.10 | 24.0 |
| *South Central Asia* |  |  |  |  |  |
| Afghanistan Δ | 3.44 | 17.2 |  | 3.55 | 18.4 |
| Bangladesh Δ | 3.84 | 21.4 |  | 3.71 | 20.1 |
| Bhutan | 3.88 | 21.8 |  | 3.80 | 21.0 |
| India + | 3.95 | 22.5 |  | 3.88 | 21.8 |
| Iran ° | 4.03 | 23.4 |  | 4.21 | 25.1 |
| Kazakhstan ° | 5.16 | 33.9 |  | 6.31 | 43.1 |
| Kyrgyzstan + | 5.34 | 35.4 |  | 5.64 | 37.9 |
| Maldives + | 3.84 | 21.4 |  | 3.47 | 17.5 |
| Nepal Δ | 4.06 | 23.6 |  | 4.07 | 23.8 |
| Pakistan + | 4.20 | 25.0 |  | 4.05 | 23.6 |
| Sri Lanka + | 4.10 | 24.0 |  | 4.07 | 23.8 |
| Tajikistan + | 5.29 | 35.0 |  | 5.70 | 38.4 |
| Turkmenistan + | 5.35 | 35.5 |  | 5.69 | 38.3 |
| Uzbekistan + | 5.62 | 37.8 |  | 5.91 | 40.1 |
| *South Eastern Asia* |  |  |  |  |  |
| Brunei x | 4.59 | 28.8 |  | 4.62 | 29.0 |
| Cambodia + | 4.76 | 30.3 |  | 4.65 | 29.3 |
| Indonesia + | 3.59 | 18.8 |  | 3.53 | 18.2 |
| Laos + | 4.78 | 30.5 |  | 4.69 | 29.7 |
| Malaysia ° | 3.57 | 18.6 |  | 3.74 | 20.4 |
| Myanmar Δ | 4.77 | 30.4 |  | 4.71 | 29.9 |
| Philippines + | 4.39 | 26.9 |  | 4.49 | 27.8 |
| Singapore x | 5.25 | 34.7 |  | 5.37 | 35.7 |
| Thailand + | 5.49 | 36.7 |  | 5.58 | 37.4 |
| Timor-Leste + | 4.80 | 30.7 |  | 4.69 | 29.7 |
| Vietnam + | 4.67 | 29.5 |  | 4.83 | 31.0 |
| *Western Asia* |  |  |  |  |  |
| Armenia ° | 5.07 | 33.1 |  | 5.19 | 34.2 |
| Azerbaijan ° | 4.79 | 30.6 |  | 5.31 | 35.2 |
| Bahrain x | 4.56 | 28.5 |  | 5.57 | 37.4 |
| Georgia ° | 4.95 | 32.0 |  | 5.57 | 37.4 |
| Iraq | 3.64 | 19.3 |  | 3.95 | 22.5 |
| Israel x | 3.97 | 22.7 |  | 4.00 | 23.0 |
| Jordan ° | 3.69 | 19.8 |  | 4.31 | 26.1 |
| Kuwait ° | 3.81 | 21.1 |  | 4.01 | 23.1 |
| Lebanon | 2.72 | 9.0 |  | 3.30 | 15.6 |
| Oman | 3.50 | 17.8 |  | 3.93 | 22.3 |
| Palestine | 3.47 | 17.5 |  | 4.04 | 23.4 |
| Qatar x | 3.61 | 19.0 |  | 4.29 | 25.9 |
| Saudi Arabia ° | 3.08 | 13.2 |  | 3.33 | 16.0 |
| Syria + | 3.97 | 22.7 |  | 4.37 | 26.7 |
| Turkey ° | 3.94 | 22.4 |  | 4.30 | 26.0 |
| United Arab Emirates x | 3.50 | 17.8 |  | 3.76 | 20.6 |
| Yemen Δ | 3.43 | 17.1 |  | 3.55 | 18.4 |
| EUROPE |  |  |  |  |  |
| *Central and Eastern Europe* |  |  |  |  |  |
| Belarus ° | 4.19 | 24.9 |  | 4.55 | 28.4 |
| Bulgaria ° | 3.82 | 21.2 |  | 3.80 | 21.0 |
| Czech Republic x | 3.97 | 22.7 |  | 4.17 | 24.7 |
| Hungary x | 4.50 | 27.9 |  | 4.43 | 27.3 |
| Moldova + | 3.80 | 21.0 |  | 4.13 | 24.3 |
| Poland x | 4.02 | 23.2 |  | 4.03 | 23.4 |
| Romania ° | 3.97 | 22.7 |  | 4.32 | 26.2 |
| Russia ° | 3.91 | 22.1 |  | 4.38 | 26.8 |
| Slovakia x | 3.82 | 21.2 |  | 4.46 | 27.5 |
| Ukraine ° | 4.05 | 23.6 |  | 4.41 | 27.1 |
| *Northern Europe* |  |  |  |  |  |
| Denmark x | 3.80 | 21.0 |  | 3.43 | 17.1 |
| Estonia x | 3.67 | 19.6 |  | 4.15 | 24.5 |
| Finland x | 4.02 | 23.2 |  | 4.05 | 23.6 |
| Iceland x | 3.79 | 20.9 |  | 3.77 | 20.7 |
| Ireland x | 3.91 | 22.1 |  | 3.93 | 22.3 |
| Latvia ° | 3.75 | 20.5 |  | 4.37 | 26.7 |
| Lithuania ° | 3.77 | 20.7 |  | 4.27 | 25.7 |
| Norway x | 3.96 | 22.6 |  | 4.01 | 23.1 |
| Sweden x | 3.77 | 20.7 |  | 3.84 | 21.4 |
| United Kingdom x | 3.75 | 20.5 |  | 3.80 | 21.0 |
| *Southern Europe* |  |  |  |  |  |
| Albania ° | 3.64 | 19.3 |  | 3.86 | 21.6 |
| Andorra x | 3.85 | 21.5 |  | 4.01 | 23.1 |
| Bosnia and Herzegovina ° | 3.43 | 17.1 |  | 3.62 | 19.1 |
| Croatia ° | 3.42 | 17.0 |  | 3.88 | 21.8 |
| Cyprus x | 4.05 | 23.6 |  | 4.29 | 25.9 |
| Greece x | 3.82 | 21.2 |  | 3.97 | 22.7 |
| Italy x | 4.65 | 29.3 |  | 4.65 | 29.3 |
| Macedonia ° | 3.48 | 17.6 |  | 4.10 | 24.0 |
| Malta x | 4.19 | 24.9 |  | 4.31 | 26.1 |
| Montenegro ° | 3.31 | 15.8 |  | 3.81 | 21.1 |
| Portugal x | 4.20 | 25.0 |  | 4.46 | 27.5 |
| Serbia ° | 3.37 | 16.4 |  | 3.87 | 21.7 |
| Slovenia x | 4.07 | 23.8 |  | 4.43 | 27.3 |
| Spain x | 4.01 | 23.1 |  | 4.24 | 25.4 |
| *Western Europe* |  |  |  |  |  |
| Austria x | 4.20 | 25.0 |  | 4.16 | 24.6 |
| Belgium x | 3.76 | 20.6 |  | 3.64 | 19.3 |
| France x | 4.00 | 23.0 |  | 3.96 | 22.6 |
| Germany x | 3.73 | 20.3 |  | 3.72 | 20.2 |
| Luxembourg x | 4.18 | 24.8 |  | 4.28 | 25.8 |
| Netherlands x | 3.72 | 20.2 |  | 3.50 | 17.8 |
| Switzerland x | 3.93 | 22.3 |  | 3.80 | 21.0 |
| OCEANIA |  |  |  |  |  |
| Australia x | 3.55 | 18.4 |  | 3.59 | 18.8 |
| Fiji + | 2.99 | 12.2 |  | 3.01 | 12.4 |
| Kiribati | 2.27 | 3.5 |  | 2.31 | 4.0 |
| Marshall Islands | 2.60 | 7.6 |  | 2.68 | 8.5 |
| Micronesia, Fed. Stat. + | 2.62 | 7.8 |  | 2.68 | 8.5 |
| New Zealand x | 3.44 | 17.2 |  | 3.65 | 19.4 |
| Papua New Guinea Δ | 2.57 | 7.2 |  | 2.58 | 7.3 |
| Samoa | 2.25 | 3.2 |  | 2.16 | 2.1 |
| Solomon Islands + | 2.37 | 4.7 |  | 2.44 | 5.6 |
| Tonga ° | 2.72 | 9.0 |  | 2.88 | 10.9 |
| Vanuatu | 2.26 | 3.3 |  | 2.33 | 4.2 |

a HDI distribution in 2010 retrieved from the Human Development Report, 2010 [18](#_ENREF_18): 40, 43, 43 and 42 countries classified as x very high, ° high, + medium and Δ low HDI, respectively, and no evaluation was available for 19 countries; b data retrieved from the Global Sodium Consumption Study [12](#_ENREF_12) for 1990 and 2010; c data retrieved from the reference selected [7](#_ENREF_7) after systematic review of meta-analyses; d in countries where sodium intake was below the World Health Organization recommendation, PAF estimates were set to 0.0%.

**Supplementary Table 3.** Estimates of population attributable fractions for gastric cancer in 2010 and 2030 due to sodium intake above the World Health Organization recommendation (≤ 2 g/day) in women in 187 countries a, based on the mean sodium intake in 1990 and 2010, respectively, b and relative risk of the association between sodium intake and gastric cancer c.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Country** | **Women** | | | | |
| **Sodium intake**  **in 1990 (g/d)** | **Population attributable**  **fraction in 2010 (%) d** |  | **Sodium intake**  **in 2010 (g/d)** | **Population attributable**  **fraction in 2030 (%) d** |
| AFRICA |  |  |  |  |  |
| *Eastern Africa* |  |  |  |  |  |
| Burundi Δ | 1.56 | 0.0 |  | 1.65 | 0.0 |
| Comoros Δ | 1.61 | 0.0 |  | 1.59 | 0.0 |
| Djibouti Δ | 2.19 | 2.4 |  | 2.24 | 3.1 |
| Eritrea | 2.22 | 2.8 |  | 2.25 | 3.2 |
| Ethiopia Δ | 2.19 | 2.4 |  | 2.17 | 2.2 |
| Kenya Δ | 1.37 | 0.0 |  | 1.41 | 0.0 |
| Madagascar Δ | 2.05 | 0.6 |  | 2.09 | 1.2 |
| Malawi Δ | 1.56 | 0.0 |  | 1.58 | 0.0 |
| Mauritius ° | 4.83 | 31.0 |  | 5.20 | 34.2 |
| Mozambique Δ | 2.04 | 0.5 |  | 2.13 | 1.7 |
| Rwanda Δ | 1.45 | 0.0 |  | 1.53 | 0.0 |
| Seychelles | 4.14 | 24.4 |  | 4.12 | 24.2 |
| Somalia | 1.95 | 0.0 |  | 1.97 | 0.0 |
| Tanzania Δ | 2.69 | 8.6 |  | 2.62 | 7.8 |
| Uganda Δ | 1.86 | 0.0 |  | 2.00 | 0.0 |
| Zambia Δ | 2.15 | 1.9 |  | 2.17 | 2.2 |
| Zimbabwe Δ | 2.92 | 11.4 |  | 2.95 | 11.7 |
| *Middle Africa* |  |  |  |  |  |
| Angola Δ | 2.35 | 4.5 |  | 2.38 | 4.8 |
| Cameroon Δ | 1.97 | 0.0 |  | 1.99 | 0.0 |
| Central African Republic Δ | 2.62 | 7.8 |  | 2.66 | 8.3 |
| Chad Δ | 2.74 | 9.2 |  | 2.72 | 9.0 |
| Congo + | 2.18 | 2.3 |  | 2.15 | 1.9 |
| Congo, Dem. Rep. Δ | 2.16 | 2.1 |  | 2.31 | 4.0 |
| Equatorial Guinea + | 2.37 | 4.7 |  | 2.20 | 2.6 |
| Gabon + | 1.83 | 0.0 |  | 1.92 | 0.0 |
| Sao Tome and Principe + | 2.26 | 3.3 |  | 2.25 | 3.2 |
| *Northern Africa* |  |  |  |  |  |
| Algeria ° | 3.73 | 20.3 |  | 4.07 | 23.8 |
| Egypt + | 3.45 | 17.3 |  | 3.52 | 18.0 |
| Libya ° | 3.54 | 18.3 |  | 4.03 | 23.4 |
| Morocco + | 3.77 | 20.7 |  | 4.11 | 24.1 |
| Sudan Δ | 2.21 | 2.7 |  | 2.26 | 3.3 |
| Tunisia ° | 3.93 | 22.3 |  | 4.24 | 25.4 |
| *Southern Africa* |  |  |  |  |  |
| Botswana + | 2.37 | 4.7 |  | 2.40 | 5.1 |
| Lesotho Δ | 2.55 | 7.0 |  | 2.50 | 6.3 |
| Namibia + | 2.47 | 6.0 |  | 2.51 | 6.5 |
| South Africa + | 2.30 | 3.8 |  | 2.37 | 4.7 |
| Swaziland + | 2.52 | 6.6 |  | 2.42 | 5.4 |
| *Western Africa* |  |  |  |  |  |
| Benin Δ | 2.73 | 9.1 |  | 2.73 | 9.1 |
| Burkina Faso Δ | 2.77 | 9.6 |  | 2.74 | 9.2 |
| Cape Verde + | 2.87 | 10.8 |  | 3.10 | 13.4 |
| Cote d’Ivoire Δ | 2.64 | 8.0 |  | 2.65 | 8.2 |
| Gambia Δ | 2.88 | 10.9 |  | 2.93 | 11.5 |
| Ghana Δ | 2.32 | 4.1 |  | 2.24 | 3.1 |
| Guinea Δ | 2.59 | 7.4 |  | 2.62 | 7.8 |
| Guinea-Bissau Δ | 2.80 | 9.9 |  | 2.90 | 11.1 |
| Liberia Δ | 2.52 | 6.6 |  | 2.55 | 7.0 |
| Mali Δ | 3.05 | 12.8 |  | 3.01 | 12.4 |
| Mauritania Δ | 2.96 | 11.8 |  | 2.84 | 10.4 |
| Niger Δ | 2.98 | 12.0 |  | 2.79 | 9.8 |
| Nigeria Δ | 2.69 | 8.6 |  | 2.69 | 8.6 |
| Senegal Δ | 2.85 | 10.5 |  | 2.99 | 12.2 |
| Sierra Leone Δ | 2.40 | 5.1 |  | 2.39 | 5.0 |
| Togo Δ | 2.67 | 8.4 |  | 2.64 | 8.0 |
| AMERICA |  |  |  |  |  |
| *Caribbean* |  |  |  |  |  |
| Antigua and Barbuda | 2.58 | 7.3 |  | 2.54 | 6.8 |
| Bahamas ° | 2.89 | 11.0 |  | 2.86 | 10.6 |
| Barbados x | 3.25 | 15.1 |  | 3.25 | 15.1 |
| Cuba ° | 2.66 | 8.3 |  | 2.52 | 6.6 |
| Dominica | 2.51 | 6.5 |  | 2.57 | 7.2 |
| Dominican Republic + | 2.32 | 4.1 |  | 2.50 | 6.3 |
| Grenada | 2.33 | 4.2 |  | 2.48 | 6.1 |
| Haiti Δ | 2.31 | 4.0 |  | 2.54 | 6.8 |
| Jamaica ° | 1.82 | 0.0 |  | 1.84 | 0.0 |
| Saint Lucia | 2.72 | 9.0 |  | 2.80 | 9.9 |
| Saint Vincent and the Grenadines | 2.58 | 7.3 |  | 2.70 | 8.8 |
| Trinidad and Tobago ° | 2.62 | 7.8 |  | 2.80 | 9.9 |
| *Central America* |  |  |  |  |  |
| Belize ° | 2.55 | 7.0 |  | 2.50 | 6.3 |
| Costa Rica ° | 2.83 | 10.3 |  | 3.03 | 12.6 |
| El Salvador + | 3.04 | 12.7 |  | 3.05 | 12.8 |
| Guatemala + | 2.73 | 9.1 |  | 2.81 | 10.1 |
| Honduras + | 2.75 | 9.4 |  | 2.84 | 10.4 |
| Mexico ° | 2.58 | 7.3 |  | 2.63 | 7.9 |
| Nicaragua + | 3.00 | 12.3 |  | 3.09 | 13.3 |
| Panama ° | 3.18 | 14.3 |  | 3.25 | 15.1 |
| *Northern America* |  |  |  |  |  |
| Canada x | 3.37 | 16.4 |  | 3.53 | 18.2 |
| United States of America x | 3.26 | 15.2 |  | 3.43 | 17.1 |
| *Southern America* |  |  |  |  |  |
| Argentina ° | 2.87 | 10.8 |  | 2.87 | 10.8 |
| Bolivia + | 3.35 | 16.2 |  | 3.41 | 16.9 |
| Brazil ° | 3.70 | 20.0 |  | 3.92 | 22.2 |
| Chile ° | 2.67 | 8.4 |  | 2.69 | 8.6 |
| Colombia ° | 3.93 | 22.3 |  | 3.91 | 22.1 |
| Ecuador ° | 2.76 | 9.5 |  | 2.88 | 10.9 |
| Guyana + | 2.26 | 3.3 |  | 2.34 | 4.4 |
| Paraguay + | 3.80 | 21.0 |  | 4.10 | 24.0 |
| Peru ° | 2.91 | 11.2 |  | 2.91 | 11.2 |
| Suriname + | 2.53 | 6.7 |  | 2.76 | 9.5 |
| Uruguay ° | 2.65 | 8.2 |  | 2.60 | 7.6 |
| Venezuela ° | 3.22 | 14.8 |  | 3.39 | 16.6 |
| ASIA |  |  |  |  |  |
| *Eastern Asia* |  |  |  |  |  |
| China + | 4.20 | 25.0 |  | 4.60 | 28.9 |
| Japan x | 4.50 | 27.9 |  | 4.68 | 29.6 |
| Mongolia + | 4.94 | 32.0 |  | 4.91 | 31.7 |
| North Korea | 3.20 | 14.5 |  | 3.59 | 18.8 |
| South Korea x | 4.70 | 29.8 |  | 4.98 | 32.3 |
| Taiwan + | 3.23 | 14.9 |  | 3.74 | 20.4 |
| *South Central Asia* |  |  |  |  |  |
| Afghanistan Δ | 3.12 | 13.6 |  | 3.22 | 14.8 |
| Bangladesh Δ | 3.51 | 17.9 |  | 3.38 | 16.5 |
| Bhutan | 3.55 | 18.4 |  | 3.45 | 17.3 |
| India + | 3.61 | 19.0 |  | 3.56 | 18.5 |
| Iran ° | 3.67 | 19.6 |  | 3.83 | 21.3 |
| Kazakhstan ° | 4.72 | 30.0 |  | 5.70 | 38.4 |
| Kyrgyzstan + | 4.88 | 31.4 |  | 5.14 | 33.7 |
| Maldives + | 3.50 | 17.8 |  | 3.14 | 13.9 |
| Nepal Δ | 3.69 | 19.8 |  | 3.73 | 20.3 |
| Pakistan + | 3.83 | 21.3 |  | 3.75 | 20.5 |
| Sri Lanka + | 3.75 | 20.5 |  | 3.69 | 19.8 |
| Tajikistan + | 4.79 | 30.6 |  | 5.13 | 33.6 |
| Turkmenistan + | 4.87 | 31.3 |  | 5.20 | 34.2 |
| Uzbekistan + | 5.08 | 33.2 |  | 5.36 | 35.6 |
| *South Eastern Asia* |  |  |  |  |  |
| Brunei x | 4.18 | 24.8 |  | 4.21 | 25.1 |
| Cambodia + | 4.37 | 26.7 |  | 4.20 | 25.0 |
| Indonesia + | 3.28 | 15.4 |  | 3.21 | 14.6 |
| Laos + | 4.39 | 26.9 |  | 4.23 | 25.3 |
| Malaysia ° | 3.27 | 15.3 |  | 3.40 | 16.8 |
| Myanmar Δ | 4.36 | 26.6 |  | 4.27 | 25.7 |
| Philippines + | 4.05 | 23.6 |  | 4.10 | 24.0 |
| Singapore x | 4.81 | 30.8 |  | 4.92 | 31.8 |
| Thailand + | 4.99 | 32.4 |  | 5.06 | 33.0 |
| Timor-Leste + | 4.38 | 26.8 |  | 4.25 | 25.5 |
| Vietnam + | 4.31 | 26.1 |  | 4.37 | 26.7 |
| *Western Asia* |  |  |  |  |  |
| Armenia ° | 4.65 | 29.3 |  | 4.71 | 29.9 |
| Azerbaijan ° | 4.35 | 26.5 |  | 4.85 | 31.2 |
| Bahrain x | 4.15 | 24.5 |  | 5.05 | 32.9 |
| Georgia ° | 4.53 | 28.2 |  | 5.07 | 33.1 |
| Iraq | 3.30 | 15.6 |  | 3.59 | 18.8 |
| Israel x | 3.40 | 16.8 |  | 3.59 | 18.8 |
| Jordan ° | 3.38 | 16.5 |  | 3.95 | 22.5 |
| Kuwait ° | 3.46 | 17.4 |  | 3.65 | 19.4 |
| Lebanon | 2.50 | 6.3 |  | 2.98 | 12.0 |
| Oman | 3.18 | 14.3 |  | 3.56 | 18.5 |
| Palestine | 3.15 | 14.0 |  | 3.69 | 19.8 |
| Qatar x | 3.30 | 15.6 |  | 3.90 | 22.0 |
| Saudi Arabia ° | 2.82 | 10.2 |  | 3.03 | 12.6 |
| Syria + | 3.64 | 19.3 |  | 3.99 | 23.0 |
| Turkey ° | 3.59 | 18.8 |  | 3.91 | 22.1 |
| United Arab Emirates x | 3.16 | 14.1 |  | 3.43 | 17.1 |
| Yemen Δ | 3.13 | 13.8 |  | 3.21 | 14.6 |
| EUROPE |  |  |  |  |  |
| *Central and Eastern Europe* |  |  |  |  |  |
| Belarus ° | 3.83 | 21.3 |  | 4.17 | 24.7 |
| Bulgaria ° | 3.45 | 17.3 |  | 3.45 | 17.3 |
| Czech Republic x | 3.53 | 18.2 |  | 3.80 | 21.0 |
| Hungary x | 4.07 | 23.8 |  | 4.04 | 23.4 |
| Moldova + | 3.41 | 16.9 |  | 3.79 | 20.9 |
| Poland x | 3.63 | 19.2 |  | 3.66 | 19.5 |
| Romania ° | 3.58 | 18.7 |  | 3.92 | 22.2 |
| Russia ° | 3.56 | 18.5 |  | 3.99 | 22.9 |
| Slovakia x | 3.48 | 17.6 |  | 4.02 | 23.2 |
| Ukraine ° | 3.68 | 19.8 |  | 4.01 | 23.1 |
| *Northern Europe* |  |  |  |  |  |
| Denmark x | 3.26 | 15.2 |  | 3.11 | 13.5 |
| Estonia x | 3.33 | 16.0 |  | 3.77 | 20.7 |
| Finland x | 3.44 | 17.2 |  | 3.65 | 19.4 |
| Iceland x | 3.25 | 15.1 |  | 3.38 | 16.5 |
| Ireland x | 3.32 | 15.9 |  | 3.55 | 18.4 |
| Latvia ° | 3.43 | 17.1 |  | 4.02 | 23.2 |
| Lithuania ° | 3.45 | 17.3 |  | 3.90 | 22.0 |
| Norway x | 3.38 | 16.5 |  | 3.58 | 18.7 |
| Sweden x | 3.23 | 14.9 |  | 3.46 | 17.4 |
| United Kingdom x | 3.21 | 14.6 |  | 3.42 | 17.0 |
| *Southern Europe* |  |  |  |  |  |
| Albania ° | 3.31 | 15.8 |  | 3.48 | 17.6 |
| Andorra x | 3.29 | 15.5 |  | 3.61 | 19.0 |
| Bosnia and Herzegovina ° | 3.10 | 13.4 |  | 3.32 | 15.9 |
| Croatia ° | 3.10 | 13.4 |  | 3.54 | 18.3 |
| Cyprus x | 3.49 | 17.7 |  | 3.83 | 21.3 |
| Greece x | 3.29 | 15.5 |  | 3.58 | 18.7 |
| Italy x | 3.99 | 22.9 |  | 4.19 | 24.9 |
| Macedonia ° | 3.13 | 13.8 |  | 3.72 | 20.2 |
| Malta x | 3.58 | 18.7 |  | 3.90 | 22.0 |
| Montenegro ° | 2.99 | 12.2 |  | 3.45 | 17.3 |
| Portugal x | 3.58 | 18.7 |  | 4.03 | 23.4 |
| Serbia ° | 3.05 | 12.8 |  | 3.48 | 17.6 |
| Slovenia x | 3.68 | 19.8 |  | 4.02 | 23.2 |
| Spain x | 3.44 | 17.2 |  | 3.81 | 21.1 |
| *Western Europe* |  |  |  |  |  |
| Austria x | 3.60 | 18.9 |  | 3.76 | 20.6 |
| Belgium x | 3.21 | 14.6 |  | 3.27 | 15.3 |
| France x | 3.41 | 16.9 |  | 3.58 | 18.7 |
| Germany x | 3.18 | 14.3 |  | 3.36 | 16.3 |
| Luxembourg x | 3.57 | 18.6 |  | 3.85 | 21.5 |
| Netherlands x | 3.17 | 14.2 |  | 3.15 | 14.0 |
| Switzerland x | 3.36 | 16.3 |  | 3.42 | 17.0 |
| OCEANIA |  |  |  |  |  |
| Australia x | 3.22 | 14.8 |  | 3.26 | 15.2 |
| Fiji + | 2.73 | 9.1 |  | 2.74 | 9.2 |
| Kiribati | 2.07 | 0.9 |  | 2.14 | 1.8 |
| Marshall Islands | 2.37 | 4.7 |  | 2.43 | 5.5 |
| Micronesia, Fed. Stat. + | 2.39 | 5.0 |  | 2.44 | 5.6 |
| New Zealand x | 3.12 | 13.6 |  | 3.31 | 15.8 |
| Papua New Guinea Δ | 2.32 | 4.1 |  | 2.33 | 4.2 |
| Samoa | 2.05 | 0.6 |  | 1.97 | 0.0 |
| Solomon Islands + | 2.14 | 1.8 |  | 2.22 | 2.8 |
| Tonga ° | 2.50 | 6.3 |  | 2.58 | 7.3 |
| Vanuatu | 2.07 | 0.9 |  | 2.14 | 1.8 |

a HDI distribution in 2010 retrieved from the Human Development Report, 2010 [18](#_ENREF_18): 40, 43, 43 and 42 countries classified as x very high, ° high, + medium and Δ low HDI, respectively, and no evaluation was available for 19 countries; b data retrieved from the Global Sodium Consumption Study [12](#_ENREF_12) for 1990 and 2010; c data retrieved from the reference selected [7](#_ENREF_7) after systematic review of meta-analyses; d in countries where sodium intake was below the World Health Organization recommendation, PAF estimates were set to 0.0%.