

Supplementary Table 3. Original KoNEHS food frequency questionnaire seafood items and recoding scheme

KoNEHS variable	Seafood-consumption category	Original response options (nine-level frequency scale)	Analytic recoding
ques_31_01	Consumption of large fish/tuna	Nine-level frequency scale	Rarely: option 1; ≤once a week: options 2–4; >once a week: options 5–9
ques_31_02	Consumption of fish	Nine-level frequency scale	Rarely: option 1; ≤once a week: options 2–4; >once a week: options 5–9
ques_31_03	Consumption of crustaceans	Nine-level frequency scale	Rarely: option 1; ≤once a week: options 2–4; >once a week: options 5–9
ques_31_04	Consumption of seaweed	Nine-level frequency scale	Rarely: option 1; ≤once a week: options 2–4; >once a week: options 5–9
ques_31_05	Consumption of shellfish	Nine-level frequency scale	Rarely: option 1; ≤once a week: options 2–4; >once a week: options 5–9
ques_31_06	Consumption of other seafood items (e.g., squid, octopus)	Nine-level frequency scale	Rarely: option 1; ≤once a week: options 2–4; >once a week: options 5–9

The original response options were: 1, rarely/almost never; 2, once a month; 3, 2–3 times/month; 4, once a week; 5, 2–3 times/week; 6, 4–6 times/week; 7, once a day; 8, twice a day; and 9, three times a day. Each item was recorded on a nine-level frequency scale and collapsed a priori into three categories before examination of biomarker data. The questionnaire captured frequency only (no serving size or amount). Food-contact behaviors (Use of rigid clear plastic containers for hot foods, ques_08_02; consumption of takeaway foods wrapped in plastic films, ques_35_01; consumption of canned foods, ques_29_05) used the same nine-level scale and recoding.

KoNEHS: Korean National Environmental Health Survey.