

Appendix 3. Name and composition of 'healthy' and 'Western' dietary patterns in studies included in the best evidence synthesis (n = 21)

Author, country, year	'Healthy' dietary patterns*	'Western' dietary patterns*
Tucker, USA, 2002 ¹⁵	Fruit, vegetables, and cereal pattern: high intake of fruits and vegetables , <i>breakfast cereal</i> and the lowest intake of red and processed meats, and candy and soft drinks	Meat and baked product pattern: high intake of meats , processed meats , and moderately sweet baked products
Okubo, Japan, 2006 ¹⁶	High consumption of green and white vegetables , <i>mushrooms</i> , fish and shellfish, fruits , processed fish, <i>seaweed</i> , <i>soy products</i>	High consumption of fats and oils , meats , processed meats , and <i>seasoning</i>
Langsetmo, Canada, 2010 ²⁶	Nutrient dense: high intake of fruits , vegetables , wholegrains , fish , <i>cheese</i> , <i>pasta</i> , nuts , legumes	Energy dense: high consumption of soft drinks , <i>potato chips</i> and <i>French fries</i> , certain meats (hamburger, hot dog, lunch meat, smoked meat, bacon, sausage), and certain desserts (doughnuts, chocolate, ice cream)
Monma, Japan, 2010 ²⁷	NA	Meat pattern: rich in meats (chicken, pork, beef), processed meats (ham, sausage, liver paste) and <i>seafood</i> (squid, octopus, shrimp, lobster and shellfish)
Fairweather-Tait, UK, 2011 ¹⁸	Fruit and vegetable pattern: food groups not specified	NA
Hardcastle, Scotland, 2011 ¹⁹	High loadings of fruits , vegetables , <i>rice/pasta</i> , <i>white meat</i> , oily fish and <i>dairy products</i> (excluding milks), and negative loading with processed foods (biscuits, confectionery and processed meats)	Processed food pattern: rich in processed foods (biscuits, confectionery and processed meats), cakes and desserts , and <i>negative loadings with fats/oils and breads</i>
Langsetmo, Canada, 2011 ²⁸	Nutrient dense: high intake of fruits , vegetables , wholegrains , fish , <i>cheese</i> , <i>pasta</i> , nuts , legumes	Energy dense: high consumption of soft drinks , <i>potato chips</i> and <i>French fries</i> , certain meats (hamburger, hot dog, lunch meat, smoked meat, bacon, sausage), and certain desserts (doughnuts, chocolate, ice cream)
McNaughton, Australia, 2011 ²⁰	Pattern 3: high loadings of leafy vegetables , <i>tomato and tomato products</i> , <i>milk and yogurt</i> (<1% fat), fruits , cheese, eggs, fish and <i>low intake of cakes, biscuits other baked sweet products, butter, cream</i>	Pattern 1: high consumption of <i>refined cereals</i> , soft drinks , <i>fried potatoes</i> , <i>sausages</i> and processed meats , vegetable oils , <i>beer</i> , takeaway foods and <i>low intake of soy products, other vegetables and vegetable dishes, tea and coffee, fruit, wholegrain</i>
Karamati, Iran, 2012 ³	Pattern 4: rich in vegetables , <i>low-fat dairy products</i> , fruits and <i>fruit juices</i> , legumes and fish , <i>low intakes of salt</i>	Pattern 1: high consumption of <i>high-fat dairy products</i> , <i>organ meats</i> , red or processed meats , <i>non-refined cereals</i>
Park, Korea, 2012 ²⁹	Traditional dietary pattern: high loadings of <i>rice</i> , <i>kimchi</i> , vegetables , fruits	High consumption of <i>noodles</i> , <i>breads</i> , sugar , fat , <i>potatoes</i> , meats , <i>eggs</i> , <i>fish</i> and <i>sea foods</i> , <i>coffee</i> , <i>carbonated beverages</i>
Whittle, Ireland, 2012 ²¹	Healthy dietary pattern (men and women): high positive loadings for fruits , vegetables , <i>brown bread</i> , <i>rice</i> , <i>pasta</i> and <i>negative loadings for white bread, chips and meat dishes</i>	Refined dietary pattern (men): rich in puddings (cakes) , <i>crisps</i> , <i>chips</i> , <i>confectionery</i> , <i>chocolate</i> , meats , <i>condiments</i> , soft drinks
Shin, Korea, 2013 ²²	Dairy and fruit pattern: rich in legumes , <i>milk and dairy foods</i> , <i>flour and bread</i> , fruits and nuts	Meat, alcohol and sugar dietary pattern: high loadings for oils , <i>starch syrup</i> and sugar , meat and its products , <i>alcohol</i> and a <i>negative loading for legumes</i>
Zeng, China, 2013 ³⁶	High intake of fruits , vegetables , <i>eggs</i> , freshwater fish	High-fat dietary pattern: high consumption of red meats , <i>poultry with the skin</i> , <i>animal organ meat</i> , cooking oil and <i>low intake of nuts, poultry without the skin, mushrooms and algae</i>
Dai, Singapore, 2014 ³⁰	Vegetable-fruit-soy pattern: high loadings of vegetables , fruits , <i>soy foods</i>	Meat-dim-sum pattern: rich in red/processed meats , <i>sodium</i> , <i>refined starchy foods</i>

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Appendix 3. Name and composition of 'healthy' and 'Western' dietary patterns in studies included in the best evidence synthesis (n = 21) (cont'd)

Author, country, year	'Healthy' dietary patterns*	'Western' dietary patterns*
Fung, USA, 2015 ³²	Prudent pattern: high intake of fruits, vegetables, wholegrains, poultry, low-fat dairy products	High consumption of red and processed meats, refined grains, sweets and desserts, full-fat dairy products
Shin, Korea, 2015 ²³	Fruit, milk and wholegrains pattern: rich in fruits, potatoes, wholegrains, dairy foods, vegetables, mushrooms, nuts and <i>negative loadings for meat/poultry, noodles, dumplings</i>	Eggs, meat and flour pattern: high loadings of oil and <i>seasoning, eggs, processed meats, meats</i> and <i>poultry, noodles, dumplings, bread, snacks</i>
De Jonge, Netherland, 2016 ³⁴	Health-conscious dietary pattern: high intake of fruits and vegetables, poultry, fish, alcohol and <i>low intake of sweets</i>	Processed dietary pattern: rich in processed meats, eggs, animal fats and oils, refined grain, alcohol, potatoes, soups and sauces, mixed dishes like pizza , and <i>low intake of fruit and yoghurt</i>
Denova-Gutiérrez, Mexico, 2016 ²⁴	Prudent dietary pattern: rich in fresh vegetables, fruits, tomato, oils, legumes, fish and wholegrains and <i>negative loadings for refined grains, soft drinks, other sweetened beverages</i>	Refined foods: high loadings of red meats, fats, sugar and sweets, soft drinks, eggs, refined grains, alcoholic beverages and <i>negative loadings for milk, fresh fruit</i>
De Jonge, Netherland, 2017 ³³	Fruit, vegetables and dairy pattern: high intake of fruits, vegetables, milk, yogurt, and low-factor loadings for sweets, animal fats	Sweets, animal fat and low meat pattern: rich in <i>refined grains, sweets, animal fats, porridge</i> , and <i>low factor loadings for soy, meats and poultry</i>
Melaku, Australia, 2017 ²⁵	Prudent pattern (PCA, PLS, or RRR): high intake of <i>medium-fat dairy, vegetables, fruits, legumes</i> and fish , and <i>low intake of soft drinks, processed meat, takeaway foods</i>	Western pattern (PCA): rich in processed meat, takeaway foods, white bread, red meats and soft drinks and <i>low intake of dairy products and nuts</i> Western pattern (PLS, RRR): high consumption of animal foods (<i>poultry, eggs, red and processed meat, fish, high-fat dairy</i>) and <i>low intake of medium-fat dairy, fruit, nuts</i>
Warensjo, Sweden, 2017 ³⁵	Rich in fish (all types), <i>cereals and wholemeal bread, poultry, eggs, pasta, rice, fruits, vegetables, fermented milk</i>	High loadings of sweet snacks and bakery/cake products, sugar, jams, sodas, savoury snacks, meats, white bread

*'Western' and 'healthy' dietary patterns with various names were used in the best evidence synthesis due to the similar common food items across studies. The matched major components of these dietary patterns are bolded and those of different items italicised.

NA, not applicable; PCA, principal component analysis; RRR, reduced-rank regression; PLS, partial least-squares