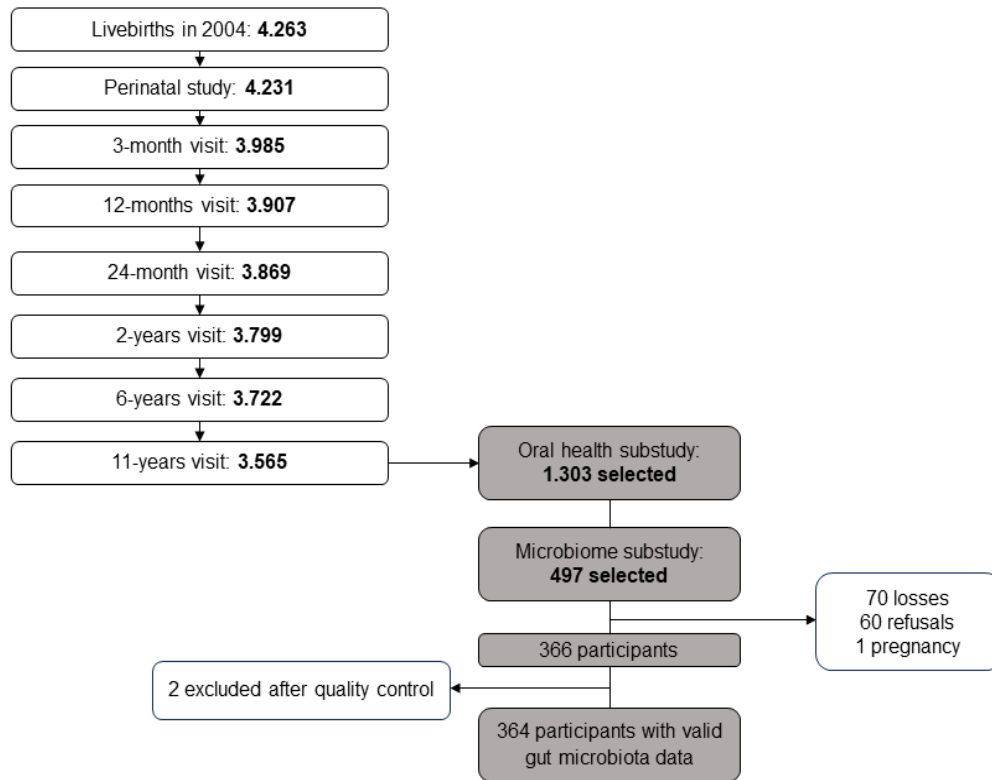


SUPPLEMENTARY MATERIAL

Figure S1 Flowchart of the microbiome substudy.



Box S1 Food items included in the FFQ.

GROUP 1 – UNPROCESSED OR MINIMALLY PROCESSED FOODS	
6 years	11 and 12 years
Rice; spaghetti; cakes; potato; cassava; bean; lettuce; tomato; pumpkin; cabbage; broccoli; raw carrot; cooked carrot; raw beet; cooked beet; chayote; orange; banana; apple; papaya; tangerine; pear; natural juice; whole milk; skimmed milk; beef with bone; boneless beef; liver; chicken; fish; eggs; coffee.	Rice; spaghetti; homemade cake; boiled potatoes; fried potato, <i>polenta</i> or cassava; cow milk; soy milk; orange or tangerine; banana; papaya; apple or pear; watermelon; melon; pineapple; avocado; mango; strawberry; grape; peach; guava; natural juice; lettuce; tomato; collard greens; cabbage; chayote; pumpkin; natural cucumber; green beans; carrot; beet; cauliflower; pepper; onion; garlic; bean; lentil, pea or chickpeas; deep-fried and salted (<i>quibe, pastel</i>); coffee; tea; chestnut, walnut or almond; homemade pudding; beef; pork; chicken; fish; shrimp; viscera (gizzard, liver, heart, kidney); egg; popcorn; lasagna, gnocchi or ravioli.
GROUP 2 – PROCESSED CULINARY INGREDIENTS	
6 years	11 and 12 years
Sugar	Sugar
GROUP 3 – PROCESSED FOOD	
6 years	11 and 12 years
Bread; cheese; jelly or fruit jam.	Beer; wine; yellow cheese; white cheese; bacon; canned fish; canned food (peas, corn); whole grain bread; white bread; jelly or fruit jam.
GROUP 4 – ULTRA-PROCESSED FOOD	
Sweet cookies; salty cracker; yogurt or milk drink; ham; mortadella; sausage; butter or margarine; mayonnaise; candies, lollipop or chewing gum; chocolate bar or bonbon; ice cream or popsicle; chocolate powder; sugar-sweetened beverages; artificially sweetened beverages (light, diet or zero); artificial juice (powder or box); salty snacks; sandwich cookies; gelatin.	Sweet cookie; salty cookie; granola; breakfast cereals; cereal bar; instant noodles; yogurt or milk drink; cream cheese; burger or nuggets; mortadella or ham or salami; sausages; butter/margarine; mayonnaise; ice cream or popsicle; lollipop and chewing gum; chocolate powder; chocolate bar; sugar-sweetened beverages; artificial juice; cachaça or whiskey or vodka or other drinks; chips and snacks; pizza; cheeseburger or hot dog.

Table S1

UPF Consumption 6 anos						
Exposure:	Model	Crude model		Adjusted model#		FDR
UPF consumption		Beta/OR (IC95%)	P value	Beta/OR (IC95%)	P value	P value
		Genus				
G Bacteroides	Q		0.011*		0.037*	0.666
1st Tertile		Ref		Ref		
2st Tertile		-0.222 (-0.47; 0.03)	0.083	-0.132 (-0.37; 0.11)	0.280	
3st Tertile		-0.386 (-0.64; -0.14)	0.003	-0.315 (-0.56; -0.07)	0.011	
G Parabacteroides	Q		0.107*		0.510*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.123 (-0.13; 0.38)	0.340	-0.138 (-0.39; 0.11)	0.282	
3st Tertile		0.216 (-0.04; 0.47)	0.096	-0.116 (-0.37; 0.13)	0.362	
G Prevotella	Q		0.247*		0.308*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.123 (-0.13; 0.38)	0.340	0.126 (-0.12; 0.37)	0.322	
3st Tertile		0.216 (-0.04; 0.47)	0.096	0.191 (-0.06; 0.44)	0.131	
G Alistipes	Q		0.354*		0.506*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.159 (-0.41; 0.09)	0.218	-0.138 (-0.39; 0.11)	0.281	
3st Tertile		-0.163 (-0.42; 0.09)	0.207	-0.118 (-0.36; 0.13)	0.355	
G Clostridium Sensu Stricto	Q		0.639*		0.519*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.017 (-0.27; 0.24)	0.899	-0.138 (-0.41; 0.13)	0.312	
3st Tertile		0.098 (-0.16; 0.36)	0.455	-0.006 (-0.27; 0.26)	0.965	
G Anaerostipes	Q		0.389*		0.769*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.167 (-0.42; 0.09)	0.195	-0.075 (-0.33; 0.18)	0.556	
3st Tertile		-0.135 (-0.39; 0.12)	0.297	0.009 (-0.24; 0.26)	0.942	
G Blautia	Q		0.739*		0.947*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.085 (-0.34; 0.17)	0.509	-0.016 (-0.27; 0.24)	0.901	
3st Tertile		-0.088 (-0.34; 0.16)	0.493	0.026 (-0.23; 0.28)	0.839	
G Clostridium_xlva	Q		0.837*		0.675*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.041 (-0.21; 0.30)	0.752	-0.018 (-0.29; 0.25)	0.895	
3st Tertile		-0.036 (-0.29; 0.22)	0.779	-0.114 (-0.39; 0.16)	0.410	
G Coprococcus	Q		0.667*		0.628*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.027 (-0.28; 0.23)	0.835	-0.053 (-0.32; 0.22)	0.697	
3st Tertile		0.085 (-0.17; 0.34)	0.513	0.078 (-0.19; 0.35)	0.569	
G Dorea	Q		0.831*		0.835*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.068 (-0.19; 0.33)	0.601	0.053 (-0.22; 0.33)	0.704	
3st Tertile		0.068 (-0.19; 0.33)	0.601	0.083 (-0.19; 0.36)	0.554	
G Fusicatenibacter	Q		0.388*		0.803*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.147 (-0.40; 0.11)	0.256	-0.086 (-0.34; 0.17)	0.513	
3st Tertile		-0.160 (-0.41; 0.09)	0.216	-0.054 (-0.31; 0.20)	0.679	
G Roseburia	Q		0.577*		0.905*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.032 (-0.29; 0.22)	0.805	0.032 (-0.24; 0.30)	0.812	
3st Tertile		-0.132 (-0.39; 0.13)	0.315	-0.028 (-0.29; 0.24)	0.836	
G Ruminococcus2	Q		0.399*		0.335*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.099 (-0.36; 0.16)	0.447	-0.061 (-0.33; 0.21)	0.656	
3st Tertile		0.077 (-0.17; 0.33)	0.554	0.137 (-0.13; 0.41)	0.317	
G Intestinibacter	Q		0.621*		0.367*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.087 (-0.34; 0.17)	0.501	-0.117 (-0.38; 0.15)	0.388	
3st Tertile		-0.123 (-0.38; 0.13)	0.343	-0.190 (-0.45; 0.07)	0.161	
G Romboutsia	Q		0.870*		0.679*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.050 (-0.31; 0.21)	0.700	-0.100 (-0.36; 0.16)	0.454	
3st Tertile		0.015 (-0.24; 0.27)	0.906	0.003 (-0.26; 0.27)	0.980	
G Clostridium IV	Q		0.301*		0.428*	0.988
1st Tertile		Ref		Ref		

2st Tertile		-0.194 (-0.45; 0.06)	0.136	-0.162 (-0.43; 0.11)	0.237	
3st Tertile		-0.142 (-0.39; 0.11)	0.276	-0.145 (-0.41; 0.12)	0.288	
G Faecalibacterium	Q		0.864*		0.603*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.032 (-0.29; 0.22)	0.804	0.035 (-0.22; 0.29)	0.790	
3st Tertile		0.037 (-0.22; 0.29)	0.770	0.127 (-0.13; 0.38)	0.331	
G Gemmiger	Q		0.116*		0.226*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.268 (-0.52; -0.02)	0.038	-0.194 (-0.46; 0.07)	0.147	
3st Tertile		-0.128 (-0.38; 0.12)	0.319	0.011 (-0.25; 0.27)	0.935	
G Oscillibacter	Q		0.122*		0.305*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.100 (-0.36; 0.16)	0.443	-0.009 (-0.27; 0.26)	0.944	
3st Tertile		-0.266 (-0.52; -0.01)	0.042	-0.184 (-0.45; 0.08)	0.172	
G Ruminococcus	Q		0.570*		0.749*	0.988
1st Tertile		Ref		Ref		
2st Tertile		-0.137 (-0.39; 0.12)	0.290	-0.102 (-0.37; 0.16)	0.448	
3st Tertile		-0.072 (-0.33; 0.18)	0.578	-0.050 (-0.31; 0.21)	0.709	
G Lachnospiracea_incertae_sedis	Q		0.194*		0.092*	0.685
1st Tertile		Ref		Ref		
2st Tertile		0.152 (-0.11; 0.41)	0.244	0.272 (0.01; 0.53)	0.040	
3st Tertile		-0.081 (-0.34; 0.17)	0.535	1.316 (0.74; 2.34)	0.350	
G Erysipelotrichaceae_incertae_sedis	B		0.097*		0.157*	0.923
1st Tertile		Ref		Ref		
2st Tertile		0.635 (0.37; 1.07)	0.087	0.607 (0.34; 1.08)	0.088	
3st Tertile		0.589 (0.35; 0.99)	0.048	0.627 (0.35; 1.11)	0.110	
G Methanobrevibacter	B		0.129*		0.306*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.235 (0.73; 2.08)	0.427	1.113 (0.63; 1.97)	0.714	
3st Tertile		1.733 (1.01; 2.96)	0.044	1.561 (0.87; 2.81)	0.137	
G Methanosphaera	B		0.721*		0.854*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.295 (0.69; 2.44)	0.423	1.224 (0.60; 2.48)	0.575	
3st Tertile		1.114 (0.58; 2.12)	0.742	1.113 (0.54; 2.29)	0.771	
G Actinomyces	B		0.967*		0.966*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.967 (0.58; 1.61)	0.896	0.936 (0.54; 1.62)	0.813	
3st Tertile		1.035 (0.62; 1.72)	0.896	0.995 (0.58; 1.72)	0.985	
G Rothia	B		0.173*		0.054*	0.685
1st Tertile		Ref		Ref		
2st Tertile		1.123 (0.58; 2.19)	0.734	1.165 (0.56; 2.41)	0.678	
3st Tertile		1.746 (0.93; 3.28)	0.084	2.193 (1.09; 4.39)	0.027	
G Bifidobacterium	B		0.681*		0.656*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.767 (0.25; 2.19)	0.583	0.544 (0.15; 1.99)	0.358	
3st Tertile		1.211 (0.36; 4.08)	0.758	0.711 (0.18; 2.83)	0.628	
G Collinsella	B		0.046*		0.076*	0.685
1st Tertile		Ref		Ref		
2st Tertile		3.226 (1.01; 10.31)	0.048	4.51 (1.09; 18.70)	0.038	
3st Tertile		3.226 (1.01; 10.31)	0.048	2.74 (0.73; 10.26)	0.134	
G Eggerthella	B		0.008*		0.078*	0.685
1st Tertile		Ref		Ref		
2st Tertile		0.559 (0.33; 0.94)	0.027	0.643 (0.36; 1.14)	0.132	
3st Tertile		0.453 (0.29; 0.76)	0.003	0.525 (0.30; 0.93)	0.028	
G Gordonibacter	B		0.592*		0.828*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.772 (0.43; 1.37)	0.380	0.831 (0.44; 1.59)	0.577	
3st Tertile		0.772 (0.43; 1.37)	0.380	0.850 (0.45; 1.62)	0.623	
G Olsenella	B		0.485*		0.410*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.900 (0.54; 1.51)	0.691	0.680 (0.38; 1.22)	0.195	
3st Tertile		1.228 (0.73; 2.05)	0.433	0.898 (0.51; 1.59)	0.712	
G Senegalimassilia	B		0.282*		0.880*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.312 (0.79; 2.19)	0.298	1.168 (0.64; 2.13)	0.612	
3st Tertile		1.506 (0.90; 2.52)	0.118	1.083 (0.600; 1.96)	0.791	
G Slackia	B		0.733*		0.858*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.000 (0.59; 1.70)	1.000	0.839 (0.45; 1.56)	0.581	
3st Tertile		1.207 (0.70; 1.70)	0.493	0.909 (0.49; 1.69)	0.763	

G Barnesiella	B		0.415*		0.372*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.681 (0.38; 1.21)	0.191	0.645 (0.35; 1.20)	0.167	
3st Tertile		0.769 (0.43; 1.38)	0.375	0.736 (0.39; 1.38)	0.337	
G Butyricimonas	B		0.466*		0.922*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.201 (0.66; 2.17)	0.546	0.964 (0.50; 1.85)	0.912	
3st Tertile		1.472 (0.80; 2.72)	0.216	1.103 (0.57; 2.14)	0.773	
G Coprobacter	B		0.653*		0.709*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.865 (0.41; 1.83)	0.704	0.958 (0.43; 2.13)	0.917	
3st Tertile		1.212 (0.60; 2.45)	0.592	1.292 (0.60; 2.78)	0.511	
G Odoribacter	B		0.440*		0.497*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.521 (0.19; 1.46)	0.215	0.599 (0.20; 1.77)	0.354	
3st Tertile		0.579 (0.20; 1.65)	0.305	0.529 (0.18; 1.57)	0.252	
G Porphyromonas	B		0.104*		0.045*	0.674
1st Tertile		Ref		Ref		
2st Tertile		0.505 (0.26; 0.97)	0.039	0.424 (0.21; 0.85)	0.015	
3st Tertile		0.873 (0.48; 1.57)	0.652	0.818 (0.44; 1.53)	0.528	
G Paraprevotella	B		0.702*		0.492*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.228 (0.75; 2.05)	0.433	0.979 (0.56; 1.72)	0.942	
3st Tertile		1.035 (0.62; 1.73)	0.895	0.735 (0.42; 1.29)	0.285	
G Lactobacillus	B		0.470*		0.903*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.000 (0.60; 1.68)	1.000	0.859 (0.51; 1.58)	0.704	
3st Tertile		1.333 (0.79; 2.26)	0.284	1.006 (0.57; 1.78)	0.985	
G Lactococcus	B		0.348*		0.099*	0.685
1st Tertile		Ref		Ref		
2st Tertile		0.571 (0.26; 1.27)	0.169	0.409 (0.17; 1.01)	0.052	
3st Tertile		0.935 (0.46; 1.92)	0.855	1.012 (0.46; 2.24)	0.976	
G Streptococcus	B		0.510*		0.447*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.826 (0.25; 2.78)	0.758	1.130 (0.28; 4.49)	0.862	
3st Tertile		0.536 (0.17; 1.65)	0.277	1.525 (0.56; 2.27)	0.742	
G Christensenella	B		0.545*		0.437*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.000 (0.53; 1.90)	1.000	1.125 (0.56; 2.27)	0.742	
3st Tertile		1.346 (0.72; 2.50)	0.347	1.525 (0.78; 2.99)	0.219	
G Anaerococcus	B		0.847*		0.978*	0.989
1st Tertile		Ref		Ref		
2st Tertile		1.077 (0.51; 2.29)	0.847	1.083 (0.49; 2.40)	0.845	
3st Tertile		1.2236 (0.59; 2.59)	0.574	1.070 (0.49; 2.36)	0.867	
G Ezakiella	B		0.210*		0.280*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.482 (0.21; 1.09)	0.079	0.498 (0.21; 1.17)	0.111	
3st Tertile		0.817 (0.40; 1.68)	0.583	0.794 (0.37; 1.72)	0.558	
G Murdochiella	B		0.002*		0.006*	0.540
1st Tertile		Ref		Ref		
2st Tertile		0.242 (0.11; 0.54)	<0.001	0.253 (0.11; 0.59)	0.002	
3st Tertile		0.672 (0.36; .25)	0.210	0.748 (0.37; 1.50)	0.414	
G Parvimonas	B		0.276*		0.349*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.587 (0.28; 1.21)	0.150	0.616 (0.28; 1.35)	0.225	
3st Tertile		0.635 (0.31; 1.30)	0.213	0.615 (0.28; 1.33)	0.217	
G Mogibacterium	B		0.138*		0.164*	0.923
1st Tertile		Ref		Ref		
2st Tertile		0.820 (0.44; 1.52)	0.530	0.649 (0.33; 1.28)	0.214	
3st Tertile		1.468 (0.83; 2.61)	0.191	1.219 (0.65; 2.30)	0.541	
G Anaerofustis	B		0.443*		0.719*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.590 (0.26; 1.36)	0.216	0.699 (0.28; 1.74)	0.442	
3st Tertile		0.722 (0.33; 1.60)	0.422	0.774 (0.32; 1.87)	0.570	
G Eubacterium	B		0.013*		0.067*	0.685
1st Tertile		Ref		Ref		
2st Tertile		1.546 (0.81; 2.97)	0.191	1.296 (0.63; 2.67)	0.482	
3st Tertile		3.204 (1.47; 6.97)	0.003	1.67 (1.16; 6.14)	0.020	
G Butyrivibrio	B		0.737*		0.464*	0.988
1st Tertile		Ref		Ref		

2st Tertile		1.200 (0.71; 2.04)	0.500	1.180 (0.65; 2.13)	0.583	
3st Tertile		1.000 (0.58; 1.71)	1.000	0.812 (0.45; 1.48)	0.494	
G Clostridium_XLVb	B		0.770*		0.783*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.785 (0.30; 2.06)	0.624	0.806 (0.28; 2.30)	0.687	
3st Tertile		0.707 (0.27; 1.83)	0.475	0.687 (0.24; 1.97)	0.484	
G Eisenbergiella	B		0.131*		0.752*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.687 (0.41; 1.15)	0.152	0.752 (0.42; 1.35)	0.340	
3st Tertile		0.599 (0.36; 1.00)	0.051	0.642 (0.36; 1.15)	0.136	
G Howardella	B		0.045*		0.321*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.993 (1.15; 3.45)	0.014	1.786 (0.97; 3.30)	0.064	
3st Tertile		1.610 (0.92; 2.80)	0.093	1.323 (0.71; 2.45)	0.374	
G Peptococcus	B		0.241*		0.492*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.652 (0.91; 3.00)	0.100	1.474 (0.77; 2.82)	0.241	
3st Tertile		1.457 (0.80; 2.67)	0.222	1.316 (0.68; 2.53)	0.412	
G Peptoniphilus	B		0.394*		0.685*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.658 (0.36; 1.20)	0.172	0.749 (0.39; 1.44)	0.387	
3st Tertile		0.839 (0.47; 1.50)	0.554	0.856 (0.45; 1.62)	0.632	
G Clostridium_XI	B		0.677*		0.945*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.330 (0.68; 2.59)	0.400	1.088 (0.53; 2.30)	0.818	
3st Tertile		1.261 (0.5; 2.46)	0.497	1.128 (0.55; 2.31)	0.743	
G Peptostreptococcus	B		0.040*		0.025*	0.666
1st Tertile		Ref	0.054	Ref		
2st Tertile		0.528 (0.28; 1.01)	0.558	0.510 (0.25; 1.04)	0.064	
3st Tertile		1.187 (0.67; 2.11)		1.348 (0.72; 2.54)	0.355	
G Terrisporobacter	B		0.732*		0.416*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.833 (0.46; 1.51)	0.546	0.658 (0.35; 1.25)	0.203	
3st Tertile		1.044 (0.59; 1.86)	0.883	0.914 (0.49; 1.70)	0.777	
G Anaerofilum	B		0.424*		0.233*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.815 (0.49; 1.36)	0.433	0.810 (0.46; 1.42)	0.461	
3st Tertile		1.145 (0.69; 1.91)	0.603	1.318 (0.76; 2.30)	0.331	
G Anaerotruncus	B		0.474*		0.773*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.648 (0.32; 1.30)	0.222	0.761 (0.36; 1.61)	0.474	
3st Tertile		0.769 (0.38; 1.57)	0.470	0.856 (0.39; 1.86)	0.694	
G Flavonifractor	B		0.077*		0.222*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.484 (0.25; 0.92)	0.027	0.561 (0.27; 1.15)	0.113	
3st Tertile		0.743 (0.38; 1.46)	0.391	0.894 (0.42; .90)	0.771	
G Intestinimonas	B		0.036*		0.161*	0.923
1st Tertile		Ref		Ref		
2st Tertile		0.587 (0.35; 0.99)	0.047	0.662 (0.37; 1.17)	0.159	
3st Tertile		0.523 (0.31; 0.89)	0.017	0.590 (0.33; 1.05)	0.072	
G Pseudoflavonifractor	B		0.083*		0.662*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.658 (0.36; 1.20)	0.172	0.859 (0.43; 1.72)	0.668	
3st Tertile		0.494 (0.26; 0.93)	0.030	0.717 (0.35; 1.47)	0.364	
G Catenibacterium	B		0.643*		0.748*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.269 (0.76; 2.12)	0.362	0.922 (0.50; 1.70)	0.795	
3st Tertile		1.186 (0.71; 1.98)	0.514	0.794 (0.43; 1.45)	0.454	
G Clostridium_XVIII	B		0.106*		0.210*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.494 (0.23; 1.05)	0.067	0.500 (0.22; 1.12)	0.092	
3st Tertile		0.468 (0.22; 0.99)	0.047	0.550 (0.24; 1.24)	0.151	
G Coprobacillus	B		0.583*		0.657*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.186 (0.61; 2.30)	0.613	0.927 (0.45; 1.91)	0.839	
3st Tertile		0.824 (0.41; 1.67)	0.592	0.715 (0.34; 1.51)	0.380	
G Holdemanella	B		0.009*		0.085*	0.685
1st Tertile		Ref		Ref		
2st Tertile		1.155 (0.68; 1.95)	0.592	0.941 (0.51; 1.75)	0.848	
3st Tertile		2.342 (1.32; 4.14)	0.003	1.861 (0.97; 3.56)	0.060	

G Holdemania	B		0.555*		0.537*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.761 (0.46; 1.27)	0.297	0.747 (0.43; 1.30)	0.305	
3st Tertile		0.934 (0.56; 1.56)	0.795	0.963 (0.55; 1.67)	0.894	
G Turcibacter	B		0.506*		0.738*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.759 (0.37; 1.58)	0.459	0.798 (0.37; 1.74)	0.573	
3st Tertile		1.176 (0.53; 2.59)	0.687	1.080 (0.47; 2.47)	0.855	
G Acidaminococcus	B		0.977*		0.963*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.069 (0.52; 2.19)	0.855	1.083 (0.50; 2.34)	0.840	
3st Tertile		1.000 (0.48; 2.07)	1.000	0.974 (0.45; 2.10)	0.948	
G Phascolarctobacterium	B		0.811*		0.873*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.051 (0.57; 1.95)	0.874	0.951 (0.48; 1.88)	0.884	
3st Tertile		0.867 (0.47; 1.95)	0.644	0.843 (0.43; 1.64)	0.614	
G Allisonella	B		0.003*		0.036*	0.666
1st Tertile		Ref		Ref		
2st Tertile		2.490 (1.45; 4.27)	0.001	2.204 (1.21; 4.02)	0.010	
3st Tertile		2.029 (1.18; 3.49)	0.010	1.539 (0.85; 2.80)	0.158	
G Dialister	B		0.503*		0.712*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.036 (0.61; 1.75)	0.894	1.038 (0.59; 1.82)	0.898	
3st Tertile		1.341 (0.79; 2.28)	0.280	1.251 (0.71; 2.21)	0.440	
G Megamonas	B		0.038*		0.032*	0.666
1st Tertile		Ref		Ref		
2st Tertile		1.437 (0.76; 2.71)	0.263	1.794 (0.91; 3.55)	0.093	
3st Tertile		2.194 (1.19; 4.04)	0.012	2.408 (1.25; 4.65)	0.009	
G Megasphaera	B		0.883*		0.634*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.110 (0.59; 2.09)	0.746	1.042 (0.52; 2.09)	0.907	
3st Tertile		0.946 (0.49; 1.81)	0.868	0.754 (0.37; 1.56)	0.445	
G Mitsuokella	B		0.892*		0.947*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.157 (0.63; 2.13)	0.640	0.939 (0.47; 1.88)	0.860	
3st Tertile		1.051 (0.57; 1.95)	0.874	0.890 (0.44; 1.78)	0.742	
G Veillonella	B		0.463*		0.362*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.043 (0.59; 1.85)	0.884	1.222 (0.65; 2.30)	0.532	
3st Tertile		0.757 (0.44; 1.32)	0.325	0.783 (0.43; 1.44)	0.431	
G Fusobacterium	B		0.489*		0.254*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.066 (0.53; 2.15)	0.858	1.152 (0.54; 2.44)	0.711	
3st Tertile		0.687 (0.32; 1.48)	0.337	0.585 (0.26; 1.33)	0.201	
G Victivallis	B		0.952*		0.698*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.928 (0.54; 1.58)	0.786	0.795 (0.44; 1.42)	0.440	
3st Tertile		0.928 (0.54; 1.58)	0.786	0.814 (0.46; 1.45)	0.487	
G Parasutterella	B		0.771*		0.905*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.815 (0.46; 1.43)	0.475	0.894 (0.49; 1.64)	0.718	
3st Tertile		0.919 (0.52; 1.62)	0.772	1.012 (0.55; 1.88)	0.968	
G Sutterella	B		0.552*		0.209*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.000 (0.58; 1.71)	1.000	0.811 (0.45; 1.47)	0.490	
3st Tertile		0.776 (0.46; 1.32)	0.348	0.592 (0.33; 1; 06)	0.080	
G Bilophila	B		0.842*		0.997*	0.997
1st Tertile		Ref		Ref		
2st Tertile		0.800 (0.37; 1.71)	0.564	1.018 (0.45; 2.33)	0.966	
3st Tertile		0.858 (0.40; 1.85)	0.696	1.035 (0.44; 2.41)	0.937	
G Desulfovibrio	B		0.895*		0.644*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.867 (0.47; 1.59)	0.644	0.771 (0.39; 1.52)	0.450	
3st Tertile		0.953 (0.52; 1.76)	0.876	0.742 (0.38; 1.46)	0.386	
G Campylobacter	B		0.553*		0.564*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.101 (0.60; 2.02)	0.757	1.072 (0.56; 2.05)	0.834	
3st Tertile		1.374 (0.76; 2.48)	0.294	1.375 (0.74; 2.56)	0.316	
G Succinivibrio	B		0.464*		0.840*	0.988
1st Tertile		Ref		Ref		

2st Tertile		1.694 (0.73; 3.91)	0.216	1.314 (0.53; 3.28)	0.558	
3st Tertile		1.337 (0.56; 3.18)	0.511	1.206 (0.47; 3.08)	0.694	
G Escherichia/Shigella	B		0.747*		0.822*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.318 (63; 2.74)	0.459	1.206 (0.54; 2.68)	0.645	
3st Tertile		1.066 (0.53; 2.15)	0.858	0.944 (0.44; 2.03)	0.883	
G Haemophilus	B		0.954*		0.955*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.932 (0.55; 1.57)	0.790	1.084 (0.61; 1.91)	0.781	
3st Tertile		1.000 (0.59; 1.69)	1.000	1.011 (0.57; 1.79)	0.971	
G Cloacibacillus	B		0.607*		0.851*	0.988
1st Tertile		Ref		Ref		
2st Tertile		1.487 (0.68; 3.27)	0.324	1.244 (0.52; 2.97)	0.622	
3st Tertile		1.189 (0.53; 2.69)	0.678	1.255 (0.52; 3.03)	0.614	
G Akkersmansia	B		0.545*		0.634*	0.988
1st Tertile		Ref		Ref		
2st Tertile		0.826 (0.48; 1.42)	0.491	0.953 (0.53; 1.72)	0.874	
3st Tertile		0.741 (0.43; 1.27)	0.275	0.765 (0.42; 1.38)	0.375	
Phylum						
P Actinobacteria	Q		0.205*		0.499*	0.626
1st tertile		Ref		Ref		
2st tertile		0.076 (-0.18; 0.33)	0.560	0.027 (-0.23; 0.29)	0.836	
3st tertile		0.228 (-0.03; 0.07)	0.081	0.146 (-0.11; 0.41)	0.268	
P Bacteroidetes	Q		0.553*		0.539*	0.626
1st tertile		Ref		Ref		
2st tertile		0.007 (0.25; 0.26)	0.996	0.048 (-0.22; 0.31)	0.724	
3st tertile		-0.122 (-0.38; 0.13)	0.348	-0.099 (-0.36; 0.17)	0.462	
P Firmicutes	Q		0.746*		0.626*	0.626
1st tertile		Ref		Ref		
2st tertile		-0.077 (-0.33; 0.18)	0.553	-0.088 (-0.35; 0.18)	0.515	
3st tertile		0.016 (-0.24; 0.27)	0.903	0.040 (-0.22; 0.30)	0.768	
P Proteobacteria	Q		0.245*		0.208*	0.626
1st tertile		Ref		Ref		
2st tertile		0.024 (-0.23; 0.28)	0.852	0.014 (-0.29; 0.26)	0.919	
3st tertile		-0.175 (-0.43; 0.08)	0.177	-0.220 (-0.49; 0.05)	0.114	
UPF Consumption 11 years						
Exposure:	Model	Crude model		Adjusted modela		FDR
UPF consumption		Beta/OR (IC95%)	P value	Beta/OR (IC95%)	P value	P value
Genus						
G Bacteroides	Q		0.002*		0.016*	0.428
1st Tertile		Ref		Ref		
2st Tertile		-0.274 (-0.52; -0.03)	0.030	-0.254 (-0.50; -0.01)	0.040	
3st Tertile		-0.444 (-0.69; -0.20)	<0.001	-0.354 (-0.60; -0.11)	0.005	
G Parabacteroides	Q		0.056*		0.263*	0.659
1st Tertile		Ref		Ref		
2st Tertile		-0.176 (-0.42; 0.07)	0.165	-0.155 (-0.41; 0.10)	0.226	
3st Tertile		-0.303 (-0.55; 0.05)	0.017	-0.205 (-0.46; 0.05)	0.117	
G Prevotella	Q		0.043*		0.482*	0.864
1st Tertile		Ref		Ref		
2st Tertile		0.236 (-0.01; 0.48)	0.063	0.138 (-0.11; 0.39)	0.276	
3st Tertile		0.303 (0.05; 0.55)	0.017	0.132 (-0.12; 0.39)	0.310	
G Alistipes	Q		0.674*		0.778*	0.935
1st Tertile		Ref		Ref		
2st Tertile		-0.102 (-0.35; 0.15)	0.424	-0.041 (-0.29; 0.21)	0.750	
3st Tertile		-0.093 (-0.35; 0.16)	0.464	0.049 (-0.21; 0.31)	0.710	
G Clostridium Sensu Stricto	Q		0.830*		0.712*	0.903
1st Tertile		Ref		Ref		
2st Tertile		0.019 (-0.23; 0.27)	0.881	-0.072 (-0.34; 0.20)	0.597	
3st Tertile		0.075 (-0.18; 0.32)	0.557	-0.114 (-0.39; 0.16)	0.415	
G Anaerostipes	Q		0.966*		0.772*	0.935
1st Tertile		Ref		Ref		
2st Tertile		-0.032 (-0.287; 0.22)	0.800	0.028 (-0.22; 0.28)	0.826	
3st Tertile		-0.025 (-0.27; 0.23)	0.847	0.092 (-0.17; 0.35)	0.485	
G Blautia	Q		0.490*		0.165*	0.592
1st Tertile		Ref		Ref		
2st Tertile		0.153 (-0.09; 0.40)	0.233	0.220 (-0.03; 0.48)	0.090	
3st Tertile		0.081 (-0.17; 0.33)	0.525	0.215 (-0.05; 0.48)	0.106	
G Clostridium xlv	Q		0.587*		0.689*	0.903
1st Tertile		Ref		Ref		
2st Tertile		-0.114 (-0.37; 0.14)	0.373	-0.119 (-0.38; 0.15)	0.394	

3st Tertile		-0.115 (-0.37; 0.14)	0.370	-0.079 (-0.36; 0.20)	0.577	
G Coprococcus	Q		0.053*		0.106*	0.571
1st Tertile		Ref		Ref		
2st Tertile		0.294 (0.05; 0.54)	0.021	0.248 (-0.02; 0.52)	0.070	
3st Tertile		0.068 (-0.18; 0.32)	0.593	0.001 (-0.27; 0.28)	0.994	
G Dorea	Q		0.057*		0.056*	0.571
1st Tertile		Ref		Ref		
2st Tertile		0.287 (0.04; 0.54)	0.025	0.335 (0.06; 0.61)	0.017	
3st Tertile		0.235 (-0.02; 0.48)	0.066	0.206 (-0.07; 0.49)	0.148	
G Fusicatenibacter	Q		0.550*		0.592*	0.864
1st Tertile		Ref		Ref		
2st Tertile		0.085 (-0.17; 0.34)	0.505	0.110 (-0.15; 0.37)	0.403	
3st Tertile		-0.054 (-0.30; 0.20)	0.675	-0.009 (-0.27; 0.26)	0.947	
G Roseburia	Q		0.012*		0.019*	0.428
1st Tertile		Ref		Ref		
2st Tertile		0.190 (-0.06; 0.44)	0.135	0.245 (-0.02; 0.51)	0.070	
3st Tertile		-0.189 (-0.44; 0.06)	0.136	-0.124 (-0.40; 0.15)	0.370	
G Ruminococcus2	Q		0.736*		0.642*	0.903
1st Tertile		Ref		Ref		
2st Tertile		0.099 (-0.15; 0.35)	0.437	0.129 (-0.14; 0.40)	0.350	
3st Tertile		0.034 (-0.22; 0.29)	0.759	0.056 (-0.22; 0.33)	0.692	
G Intestinibacter	Q		0.446*		0.497*	0.864
1st Tertile		Ref		Ref		
2st Tertile		-0.010 (-0.26; 0.24)	0.938	-0.002 (-0.27; 0.27)	0.990	
3st Tertile		0.135 (-0.11; 0.38)	0.289	0.139 (-0.13; 0.41)	0.316	
G Romboutsia	Q		0.593*		0.712*	0.903
1st Tertile		Ref		Ref		
2st Tertile		-0.063 (-0.31; 0.19)	0.620	-0.072 (-0.33; 0.19)	0.590	
3st Tertile		0.067 (-0.18; 0.32)	0.597	0.034 (-0.24; 0.30)	0.803	
G Clostridium IV	Q		0.046*		0.146*	0.571
1st Tertile		Ref		Ref		
2st Tertile		-0.243 (-0.49; 0.01)	0.056	-0.230 (-0.50; 0.04)	0.093	
3st Tertile		-0.298 (-0.55; -0.05)	0.020	-0.243 (-0.52; 0.03)	0.082	
G Faecalibacterium	Q		0.355*		0.268*	0.659
1st Tertile		Ref		Ref		
2st Tertile		-0.122 (-0.37; 0.13)	0.342	-0.198 (-0.46; 0.06)	0.132	
3st Tertile		-0.180 (-0.43; 0.07)	0.159	-0.174 (-0.44; 0.09)	0.193	
G Gemmiger	Q		0.168*		0.584*	0.864
1st Tertile		Ref		Ref		
2st Tertile		-0.039 (-0.29; 0.21)	0.759	-0.009 (-0.27; 0.26)	0.947	
3st Tertile		-0.224 (-0.47; 0.02)	0.077	-0.126 (-0.39; 0.14)	0.360	
G Oscillibacter	Q		0.766*		0.577*	0.864
1st Tertile		Ref		Ref		
2st Tertile		-0.087 (-0.33; 0.16)	0.498	-0.067 (-0.33; 0.20)	0.621	
3st Tertile		-0.073 (-0.32; 0.18)	0.568	0.073 (-0.20; 0.35)	0.596	
G Ruminococcus	Q		0.132*		0.089*	0.571
1st Tertile		Ref		Ref		
2st Tertile		-0.217 (-0.47; 0.03)	0.088	-0.179 (-0.44; 0.09)	0.184	
3st Tertile		0.010 (-0.24; 0.26)	0.937	0.111 (-0.16; 0.38)	0.420	
G Lachnospiracea incertae sedis	Q		0.934*		0.763*	0.935
1st Tertile		Ref		Ref		
2st Tertile		0.045 (-0.21; 0.30)	0.734	0.080 (-0.18; 0.34)	0.549	
3st Tertile		0.037 (-0.21; 0.29)	0.770	0.093 (-0.18; 0.36)	0.498	
G Erysipelotrichaceae incertae sedis	B		0.119*		0.266*	0.659
1st Tertile		Ref		Ref		
2st Tertile		0.627 (0.37; 1.05)	0.076	0.623 (0.35; 1.11)	0.106	
3st Tertile		0.627 (0.37; 1.05)	0.076	0.749 (0.42; 1.34)	0.331	
G Methanobrevibacter	B		560		0.306*	0.725
1st Tertile		Ref		Ref		
2st Tertile		1.134 (0.67; 1.90)	0.634	1.003 (0.56; 1.79)	0.993	
3st Tertile		1.309 (0.78; 2.21)	0.311	1.201 (0.66; 2.18)	0.548	
G Methanosphaera	B		0.950*		0.916*	0.963
1st Tertile		Ref		Ref		
2st Tertile		1.062 (0.57; 1.97)	0.849	0.887 (0.43; 1.82)	0.743	
3st Tertile		0.960 (0.51; 1.80)	0.898	1.016 (0.49; 2.09)	0.966	
G Actinomyces	B		0.047*		0.081*	0.571
1st Tertile		Ref		Ref		
2st Tertile		0.803 (0.48; 1.33)	0.397	0.812 (0.47; 1.41)	0.462	
3st Tertile		1.513 (0.91; 2.51)	0.109	1.515 (0.86; 2.67)	0.150	
G Rothia	B		0.258*		0.121*	0.571

1st Tertile		Ref		Ref		
2st Tertile		0.597 (0.31; 1.14)	0.116	0.567 (0.28; 1.16)	0.119	
3st Tertile		0.921 (0.51; 1.67)	0.788	1.445 (0.58; 2.25)	0.694	
G Bifidobacterium	B		0.504*		0.811*	0.936
1st Tertile		Ref		Ref		
2st Tertile		1.143 (0.40; 3.26)	0.803	1.307 (0.37; 4.59)	0.676	
3st Tertile		2.053 (0.60; 7.01)	0.251	1.548 (0.39; 6.16)	0.535	
G Collinsela	B		0.251		0.857*	0.941
1st Tertile		Ref		Ref		
2st Tertile		1.711 (0.61; 4.86)	0.314	1.294 (0.36; 4.59)	0.690	
3st Tertile		2.611 (0.80; 8.57)	0.113	1.444 (0.36; 5.80)	0.604	
G Eggerthella	B		0.173*		0.523*	0.864
1st Tertile		Ref		Ref		
2st Tertile		0.806 (0.49; 1.33)	0.403	0.823 (0.46; 1.46)	0.507	
3st Tertile		0.615 (0.37; 1.02)	0.061	0.710 (0.39; 1.28)	0.256	
G Gordonibacter	B		0.272*		0.805*	0.936
1st Tertile		Ref		Ref		
2st Tertile		0.729 (0.41; 1.28)	0.271	0.847 (0.45; 1.60)	0.609	
3st Tertile		0.635 (0.36; 1.13)	0.121	0.813 (0.42; 1.59)	0.545	
G Olsenella	B		0.243*		0.549*	0.864
1st Tertile		Ref		Ref		
2st Tertile		0.798 (0.48; 1.33)	0.390	0.764 (0.42; 1.38)	0.370	
3st Tertile		1.239 (0.75; 2.05)	0.406	1.018 (0.57; 1.83)	0.953	
G Senegalimassilia	B		0.008*		0.162*	0.592
1st Tertile		Ref		Ref		
2st Tertile		1.238 (0.75; 2.05)	0.405	1.245 (0.68; 2.27)	0.475	
3st Tertile		2.217 (1.32; 3.72)	0.003	1.803 (0.98; 3.33)	0.060	
G Slackia	B		0.274*		0.905*	0.941
1st Tertile		Ref		Ref		
2st Tertile		1.022 (0.61; 1.72)	0.934	0.900 (0.48; 1.67)	0.738	
3st Tertile		1.487 (0.87; 2.54)	0.148	1.027 (0.54; 1.94)	0.936	
G Barnesiella	B		0.777*		0.968*	0.968
1st Tertile		Ref		Ref		
2st Tertile		1.210 (0.69; 2.12)	0.503	0.924 (0.50; 1.71)	0.802	
3st Tertile		1.161 (0.67; 2.02)	0.599	0.971 (0.52; 1.82)	0.928	
G Butyricimonas	B		0.020*		0.010*	0.428
1st Tertile		Ref		Ref		
2st Tertile		1.804 (1.01; 2.23)	0.047	1.861 (0.98; 3.54)	0.058	
3st Tertile		2.237 (1.22; 4.09)	0.009	2.925 (1.44; 5.96)	0.003	
G Coprobacter	B		0.134*		0.233*	0.659
1st Tertile		Ref		Ref		
2st Tertile		1.092 (0.50; 2.27)	0.825	1.022 (0.45; 2.34)	0.958	
3st Tertile		1.908 (0.94; 3.90)	0.076	1.802 (0.82; 3.98)	0.144	
G Odoribacter	B		0.178*		0.171*	0.592
1st Tertile		Ref		Ref		
2st Tertile		1.613 (0.67; 3.88)	0.286	1.759 (0.66; 4.70)	0.260	
3st Tertile		2.485 (0.92; 6.70)	0.072	2.773 (0.94; 8.21)	0.065	
G Porphyromonas	B		0.296*		0.194*	0.626
1st Tertile		Ref		Ref		
2st Tertile		0.775 (0.41; 1.47)	0.436	0.681 (0.34; 1.35)	0.269	
3st Tertile		1.272 (0.70; 2.31)	0.429	1.258 (0.66; 2.42)	0.490	
G Paraprevotella	B		0.585*		0.961*	0.968
1st Tertile		Ref		Ref		
2st Tertile		0.887 (0.53; 1.47)	0.643	0.937 (0.53; 1.65)	0.821	
3st Tertile		1.159 (0.70; 1.92)	0.566	1.008 (0.57; 1.79)	0.977	
G Lactobacillus	B		0.065*		0.332*	0.747
1st Tertile		Ref		Ref		
2st Tertile		1.090 (0.66; 1.81)	0.739	0.975 (0.55; 1.71)	0.929	
3st Tertile		1.803 (1.06; 3.05)	0.028	1.450 (0.80; 2.62)	0.217	
G Lactococcus	B		0.973*		0.832*	0.938
1st Tertile		Ref		Ref		
2st Tertile		1.009 (0.48; 2.12)	0.980	1.140 (0.49; 2.67)	0.762	
3st Tertile		1.083 (0.52; 2.57)	0.832	1.309 (0.55; 3.14)	0.545	
G Streptococcus	B		0.110*		0.137*	0.571
1st Tertile		Ref		Ref		
2st Tertile		2.394 (0.60; 9.49)	0.214	2.046 (0.42; 10.04)	0.378	
3st Tertile		0.609 (0.23; 1.63)	0.322	0.505 (0.15; 1.70)	0.271	
G Christensenella	B		0.643*		0.779*	0.935
1st Tertile		Ref		Ref		
2st Tertile		1.164 (0.64; 2.12)	0.621	1.237 (0.63; 2.41)	0.532	

3st Tertile		0.867 (.,46; 1.62)	0.655	1.014 (0.50; 2.06)	0.968	
G Anaerococcus	B		0.418*		0.393*	0.804
1st Tertile		Ref		Ref		
2st Tertile		0.695 (0.32; 1.49)	0.351	0.609 (0.27; 1.37)	0.232	
3st Tertile		1.144 (0.57; 2.29)	0.703	1.003 (0.46; 2.19)	0.993	
G Ezakiella	B		0.725*		0.512*	0.834
1st Tertile		Ref		Ref		
2st Tertile		1.187 (0.54; 2.61)	0.671	1.153 (0.49; 2.70)	0.743	
3st Tertile		1.371 (0.63; 2.96)	0.423	1.606 (0.69; 3.72)	0.269	
G Murdochiella	B		0.912*		0.707*	0.903
1st Tertile		Ref		Ref		
2st Tertile		1.138 (0.58; 2.24)	0.708	1.033 (0.48; 2.22)	0.934	
3st Tertile		1.138 (0.58; 2.24)	0.708	1.340 (0.62; 2.91)	0.459	
G Parvimonas	B		0.609*		0.711*	0.903
1st Tertile		Ref		Ref		
2st Tertile		1.087(0.51; 2.31)	0.828	0.890 (0.39; 2.03)	0.782	
3st Tertile		1.412 (0.69; 2.91)	0.349	1.229 (0.55; 2.72)	0.611	
G Mogibacterium	B		0.625*		0.669*	0.903
1st Tertile		Ref		Ref		
2st Tertile		0.966 (0.53; 1.75)	0.908	0.806 (0.41; 1.58)	0.528	
3st Tertile		1.253 (0.71; 2.23)	0.442	1.067 (0.56;2.05)	0.843	
G Anaerofustis	B		0.625*		0.146*	0.571
1st Tertile		Ref		Ref		
2st Tertile		0.695 (0.32; 1.49)	0.351	0.648 (0.28; 1.52)	0.318	
3st Tertile		0.355 (0.14; 0.88)	0.026	0.359 (0.13; 1.01)	0.053	
G Eubacterium	B		0.3713*		0.463*	0.850
1st Tertile		Ref		Ref		
2st Tertile		0.835 (0.43; 1.62)	0.594	0.809 (0.38; 1.72)	0.582	
3st Tertile		1.386 (0.67; 2.85)	0.376	1.330 (0.58; 3.04)	0.498	
G Butyrivibrio	B		0.123*		0.123*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.091 (0.64; 1.86)	0.751	0.923 (0.50; 1.70)	0.798	
3st Tertile		1.658 (0.98; 2.80)	0.058	1.221 (0.67; 2.22)	0.514	
G Clostridium XLVb	B		0.256*		0.462*	0.850
1st Tertile		Ref		Ref		
2st Tertile		0.609 (0.23; 1.63)	0.322	0.544 (0.17; 1.75)	0.307	
3st Tertile		0.553 (0.21; 1.46)	0.230	0.385 (0.12; 1.20)	0.100	
G Eisenbergiella	B		0.267*		0.230*	0.655
1st Tertile		Ref		Ref		
2st Tertile		0.661 (0.40; 1.10)	0.109	0.679 (0.38; 1.23)	0.199	
3st Tertile		0.863 (0.52; 1.43)	0.565	1.102 (0.61; 2.00)	0.750	
G Howardella	B		0.045*		0.056*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.993 (1.15; 3.45)	0.014	1.745 (0.92; 3.30)	0.087	
3st Tertile		1.609 (0.92; 2.80)	0.093	2.156 (1.14; 4.07)	0.018	
G Peptococcus	B		0.241*		0.854*	0.938
1st Tertile		Ref		Ref		
2st Tertile		1.652 (0.91; 3.00)	0.100	1.204 (0.63; 2.31)	0.574	
3st Tertile		1.457 (0.80; 2.67)	0.222	1.115 (0.58; 2.16)	0.748	
G Peptoniphilus	B		0.394*		0.179*	0.597
1st Tertile		Ref		Ref		
2st Tertile		0.657 (0.36; 1.20)	0.172	0.555 (0.28; 1.08)	0.083	
3st Tertile		0.839 (0.47; 1.50)	0.554	0.928 (0.49; 1.77)	0.822	
G Clostridium XI	B		0.864*		0.794*	0.936
1st Tertile		Ref		Ref		
2st Tertile		1.330 (0.68; 2.59)	0.400	0.837 (0.41; 1.72)	0.628	
3st Tertile		1.261 (0.65; 2.46)	0.497	0.737 (0.38; 1.62)	0.511	
G Peptostreptococcus	B		0.040*		0.010*	0.428
1st Tertile		Ref		Ref		
2st Tertile		0.528 (0.28; 1.01)	0.054	0.704 (0.34; 1.45)	0.343	
3st Tertile		1.187 (0.67; 2.11)	0.558	1.919 (0.99; 3.72)	0.054	
G Terrisporobacter	B		0.732*		0.941*	0.968
1st Tertile		Ref		Ref		
2st Tertile		0.833 (0.46; 1.51)	0.546	0.911 (0.48; 1.71)	0.771	
3st Tertile		1.044 (0.59; 1.86)	0.883	0.901 (0.47; 1.73)	0.754	
G Anaerofilum	B		0.424*		0.682*	0.903
1st Tertile		Ref		Ref		
2st Tertile		0.815 (0.49; 1.36)	0.433	0.946 (0.54; 1.65)	0.844	
3st Tertile		1.145 (0.69; 1.91)	0.603	1.201 (0.68; 2.13)	0.531	
G Anaerotruncus	B		0.474*		0.378*	0.795

1st Tertile		Ref		Ref		
2st Tertile		0.648 (0.32; 1.30)	0.222	0.756 (0.36; 1.59)	0.462	
3st Tertile		0.769 (0.38; 1.57)	0.470	1.267 (0.57; 2.82)	0.561	
G Flavonifractor	B		0.077*		0.834*	0.938
1st Tertile		Ref		Ref		
2st Tertile		0.484 (0.25; 0.92)	0.027	0.812 (0.39; 1.69)	0.577	
3st Tertile		0.734 (0.38; 1.46)	0.391	0.826 (0.39; 1.73)	0.612	
G Intestinimonas	B		0.036*		0.640*	0.903
1st Tertile		Ref		Ref		
2st Tertile		0.587 (0.35; 0.99)	0.047	1.076 (0.60; 1.93)	0.805	
3st Tertile		0.523 (0.31; 0.89)	0.017	1.316 (0.73; 2.38)	0.366	
G Pseudoflavonifractor	B		0.083*		0.030*	0.428
1st Tertile		Ref		Ref		
2st Tertile		0.658 (0.36; 1.20)	0.172	0.547 (0.58; 1.09)	0.085	
3st Tertile		0.495 (0.26; 0.93)	0.030	0.371 (0.17; 0.80)	0.011	
G Catenibacterium	B		0.643*		0.245*	0.659
1st Tertile		Ref		Ref		
2st Tertile		1.269 (0.76; 2.12)	0.362	0.941 (0.51; 1.75)	0.849	
3st Tertile		1.186 (0.71; 1.98)	0.514	1.511 (0.81; 2.81)	0.191	
G Clostridium XVIII	B		0.106*		0.587*	0.864
1st Tertile		Ref		Ref		
2st Tertile		0.494 (0.23; 1.05)	0.067	1.506 (0.68; 3.33)	0.311	
3st Tertile		0.468 (0.22; 0.99)	0.047	1.142 (0.54; 2.42)	0.729	
G Coprobacillus	B		0.583*		0.060*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.186 (0.61; 2.30)	0.613	0.539 (0.24; 1.20)	0.132	
3st Tertile		0.824 (0.41; 1.67)	0.592	1.403 (0.68; 2.89)	0.358	
G Holdemanella	B		0.009*		0.103*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.155 (0.68; 1.95)	0.592	1.161 (0.63; 2.16)	0.635	
3st Tertile		2.342 (1.32; 4.14)	0.003	2.009 (1.03; 2.91)	0.040	
G Holdemania	B		0.555*		0.070*	0.571
1st Tertile		Ref		Ref		
2st Tertile		0.761 (0.46; 1.27)	0.297	0.604 (0.34; 1.06)	0.080	
3st Tertile		0.934 (0.56; 1.57)	0.795	1.123 (0.64; 1.99)	0.688	
G Turicibacter	B		0.506*		0.369*	0.795
1st Tertile		Ref		Ref		
2st Tertile		0.759 (0.37; 1.58)	0.459	1.250 (0.58; 2.69)	0.567	
3st Tertile		1.176 (0.53; 2.59)	0.687	1.858 (0.79; 4.39)	0.159	
G Acidaminococcus	B		0.978*		0.271*	0.659
1st Tertile		Ref		Ref		
2st Tertile		1.069 (0.52; 2.19)	0.855	0.543 (0.25; 1.19)	0.127	
3st Tertile		1.000 (0.48; 2.07)	1.000	0.633 (0.29; 1.37)	0.245	
G Phascolarctobacterium	B		0.140*		0.116*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.051 (0.57; 1.95)	0.874	0.711 (0.37; 1.36)	0.301	
3st Tertile		0.867 (0.47; 1.59)	0.644	1.476 (0.71; 3.06)	0.295	
G Allisonella	B		0.002*		0.063*	0.571
1st Tertile		Ref		Ref		
2st Tertile		2.490 (1.45; 4.27)	0.001	0.931 (0.51; 1.71)	0.819	
3st Tertile		2.029 (1.18; 3.49)	0.010	1.769 (0.97; 3.23)	0.063	
G Dialister	B		0.503*		0.448*	0.850
1st Tertile		Ref		Ref		
2st Tertile		1.036 (0.61; 1.75)	0.894	1.249 (0.71; 2.20)	0.441	
3st Tertile		1.341 (0.79; 2.28)	0.280	1.453 (0.81; 2.61)	0.209	
G Megamonas	B		0.038*		0.138*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.437 (0.76; 2.71)	0.263	1.690 (0.86; 3.30)	0.125	
3st Tertile		2.194 (1.19; 4.03)	0.012	1.932 (0.99; 3.77)	0.054	
G Megasphaera	B		0.883*		0.555*	0.864
1st Tertile		Ref		Ref		
2st Tertile		1.110 (0.59; 2.09)	0.746	1.389 (0.65; 2.95)	0.392	
3st Tertile		0.947 (0.49; 1.81)	0.868	1.486 (0.71; 3.12)	0.296	
G Mitsuokella	B		0.892*		0.136*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.157 (0.63; 2.13)	0.640	1.879 (0.88; 3.99)	0.101	
3st Tertile		1.051 (0.57; 1.95)	0.874	2.060 (0.98; 4.32)	0.056	
G Veillonella	B		0.463*		0.502*	0.864
1st Tertile		Ref		Ref		
2st Tertile		1.043 (0.59; 1.85)	0.884	1.200 (0.65; 2.21)	0.560	

3st Tertile		0.757 (0.44; 1.31)	0.325	1.459 (0.78; 2.74)	0.214	
G Fusobacterium	B		0.489*		0.920*	0.963
1st Tertile		Ref		Ref		
2st Tertile		1.067 (0.53; 2.15)	0.858	1.177 (0.53; 2.60)	0.686	
3st Tertile		0.687 (0.32; 1.48)	0.337	1.072 (0.48; 2.41)	0.865	
G Victivallis	B		0.952*		0.462*	0.850
1st Tertile		Ref		Ref		
2st Tertile		0.929 (0.54; 1.58)	0.786	1.243 (0.70; 2.21)	0.458	
3st Tertile		0.929 (0.54; 1.58)	0.786	1.454 (0.80; 2.64)	0.218	
G Parasutterella	B		0.771*		0.206*	0.639
1st Tertile		Ref		Ref		
2st Tertile		0.815 (0.46; 1.43)	0.475	0.604 (0.32; 1.14)	0.121	
3st Tertile		0.919 (0.52; 1.62)	0.722	0.592 (0.31; 1.12)	0.108	
G Sutterella	B		0.552*		0.595*	0.864
1st Tertile		Ref		Ref		
2st Tertile		1.000 (0.59; 1.71)	1.000	1.084 (0.60; 1.96)	0.789	
3st Tertile		0.777 (0.46; 1.32)	0.348	0.808 (0.44; 1.47)	0.484	
G Bilophila	B		0.842*		0.574*	0.864
1st Tertile		Ref		Ref		
2st Tertile		0.800 (0.37; 1.71)	0.564	0.939 (0.42; 2.12)	0.881	
3st Tertile		0.858 (0.40; 1.85)	0.696	1.447 (0.60; 3.48)	0.410	
G Desulfovibrio	B		0.895*		0.962*	0.968
1st Tertile		Ref		Ref		
2st Tertile		0.867 (0.47; 1.59)	0.644	1.099 (0.56; 2.16)	0.782	
3st Tertile		0.952 (0.52; 1.76)	0.876	1.056 (0.53; 2.09)	0.876	
G Campylobacter	B		0.553*		0.108*	0.571
1st Tertile		Ref		Ref		
2st Tertile		1.101 (0.60; 2.02)	0.757	0.863 (0.45; 1.67)	0.661	
3st Tertile		1.374 (0.80; 2.48)	0.294	1.633 (0.87; 3.08)	0.130	
G Succinivibrio	B		0.464*		0.380*	0.795
1st Tertile		Ref		Ref		
2st Tertile		1.694 (0.73; 3.90)	0.216	0.705 (0.27; 1.86)	0.479	
3st Tertile		1.337 (0.56; 3.18)	0.511	1.330 (0.55; 3.23)	0.527	
G Escherichia/Shigella	B		0.747*		0.326*	0.747
1st Tertile		Ref		Ref		
2st Tertile		1.318 (0.63; 2.74)	0.459	0.535 (0.24; 1.22)	0.136	
3st Tertile		1.066 (0.53; 2.15)	0.858	0.643 (0.27; 1.52)	0.316	
G Haemophilus	B		0.954*		0.456*	0.850
1st Tertile		Ref		Ref		
2st Tertile		0.932 (0.55; 1.57)	0.790	0.884 (0.50; 1.58)	0.678	
3st Tertile		1.000 (0.59; 1.69)	1.000	0.693 (0.38; 1.25)	0.221	
G Cloacibacillus	B		0.607*		0.213*	0.639
1st Tertile		Ref		Ref		
2st Tertile		1.487 (0.68; 3.27)	0.324	0.703 (0.27; 1.82)	0.467	
3st Tertile		1.189 (0.53; 2.69)	0.678	1.538 (0.66; 3.59)	0.320	
G Akkermansia	B		0.545*		0.894*	0.941
1st Tertile		Ref		Ref		
2st Tertile		0.827 (0.48; 1.42)	0.491	0.904 (0.50; 1.63)	0.736	
3st Tertile		0.741 (0.43; 1.27)	0.275	0.867 (0.47; 1.59)	0.645	
		Phylum				
P Actinobacteria	Q		0.006*		0.032*	0.090
1st tertile		Ref		Ref		
2st tertile		0.041 (-0.21; 0.29)	0.747	0.049 (-0.21; 0.31)	0.709	
3st tertile		0.369 (0.12; 0.62)	0.004	0.325 (0.60; 0.59)	0.016	
P Bacteroidetes	Q		0.900*		0.436*	0.550
1st tertile		Ref		Ref		
2st tertile		0.005 (-0.25; 0.26)	0.966	-0.078 (-0.45; 0.09)	0.565	
3st tertile		-0.048 (-0.30; 0.20)	0.708	-0.178 (-0.45; 0.09)	0.199	
P Firmicutes	Q		0.926*		0.550*	0.550
1st tertile		Ref		Ref		
2st tertile		0.024 (-0.23; 0.28)	0.854	0.126 (-0.14; 0.39)	0.353	
3st tertile		-0.027 (-0.28; 0.23)	0.836	0.135 (-0.14; 0.41)	0.329	
P Proteobacteria	Q		0.052*		0.045*	0.090
1st tertile		Ref		Ref		
2st tertile		-0.308 (-0.56; -0.06)	0.016	-0.344 (-0.62; -0.07)	0.014	
3st tertile		-0.121 (-0.37; 0.13)	0.343	-0.139 (-0.42; 0.14)	0.327	
UPF Consumption 12 years						
Exposure:	Model	Crude model		Adjusted model#		FDR
UPF consumption		Beta/OR (IC95%)	P value	Beta/OR (IC95%)	P value	P value
Genus						

G Bacteroides	Q		0.005*		0.094*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.023 (-0.22; 0.27)	0.853	0.112 (-0.13; 0.35)	0.363	
3st Tertile		-0.349 (-0.60; -0.11)	0.006	-0.156 (-0.40; 0.09)	0.211	
G Parabacteroides	Q		0.070*		0.449*	0.768
1st Tertile		Ref		Ref		
2st Tertile		-0.005 (-0.25; 0.24)	0.966	0.033 (-0.22; 0.28)	0.797	
3st Tertile		-0.257 (-0.51; -0.01)	0.043	-0.121 (-0.37; 0.13)	0.347	
G Prevotella	Q		0.019*		0.477*	0.775
1st Tertile		Ref		Ref		
2st Tertile		0.078 (-0.17; 0.33)	0.538	0.005 (-0.24; 0.25)	0.977	
3st Tertile		0.342 (0.09; 0.59)	0.007	0.136 (-0.11; 0.39)	0.287	
G Alistipes	Q		0.326*		0.818*	0.932
1st Tertile		Ref		Ref		
2st Tertile		0.017 (-0.23; 0.27)	0.892	0.066 (-0.19; 0.32)	0.607	
3st Tertile		-0.156 (-0.40; 0.09)	0.220	-0.008 (-0.26; 0.25)	0.953	
G Clostridium Sensu Stricto	Q		0.067*		0.442*	0.768
1st Tertile		Ref		Ref		
2st Tertile		0.165 (-0.08; 0.42)	0.194	0.082 (-0.19; 0.35)	0.548	
3st Tertile		0.296 (0.05; 0.54)	0.021	0.175 (-0.09; 0.45)	0.202	
G Anaerostipes	Q		0.480*		0.714*	0.892
1st Tertile		Ref		Ref		
2st Tertile		-0.144 (-0.40; 0.11)	0.261	-0.096 (-0.35; 0.16)	0.455	
3st Tertile		-0.122 (-0.37; 0.13)	0.341	-0.011 (-0.26; 0.24)	0.932	
G Blautia	Q		0.302*		0.497*	0.776
1st Tertile		Ref		Ref		
2st Tertile		0.103 (-0.15; 0.35)	0.420	0.152 (-0.10; 0.41)	0.241	
3st Tertile		-0.095 (-0.34; 0.16)	0.457	0.062 (-0.20; 0.32)	0.637	
G Clostridium xlva	Q		0.256*		0.320*	0.695
1st Tertile		Ref		Ref		
2st Tertile		-0.044 (-0.29; 0.21)	0.731	-0.083 (-0.35; 0.19)	0.549	
3st Tertile		-0.201 (-0.45; 0.05)	0.116	-0.209 (-0.48; 0.06)	0.134	
G Coprococcus	Q		0.637*		0.634*	0.863
1st Tertile		Ref		Ref		
2st Tertile		-0.062 (-0.31; 0.19)	0.628	-0.109 (0.38; 0.16)	0.422	
3st Tertile		-0.121 (-0.37; 0.13)	0.343	-0.117 (-.39; 0.15)	0.396	
G Dorea	Q		0.860*		0.740*	0.892
1st Tertile		Ref		Ref		
2st Tertile		0.062 (-0.19; 0.31)	0.627	0.106 (-0.17; 0.38)	0.451	
3st Tertile		0.058 (-0.20; 0.31)	0.649	0.076 (-0.20; 0.35)	0.591	
G Fuscatenibacter	Q		0.511*		0.752*	0.892
1st Tertile		Ref		Ref		
2st Tertile		-0.133 (-0.38; 0.12)	0.299	-0.081 (-0.34; 0.18)	0.536	
3st Tertile		-0.123 (-0.37; 0.13)	0.336	0.008 (-0.25; 0.27)	0.952	
G Roseburia	Q		0.104*		0.406*	0.768
1st Tertile		Ref		Ref		
2st Tertile		-0.132 (-0.38; 0.12)	0.302	-0.094 (-0.36; 0.17)	0.488	
3st Tertile		-0.272 (-0.52; -0.02)	0.034	-0.184 (-0.45; 0.09)	0.180	
G Ruminococcus2	Q		0.142*		0.047*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.123 (-0.13; 0.37)	0.337	0.167 (-0.10; 0.43)	0.222	
3st Tertile		0.252 (0.02; 0.50)	0.048	0.341 (0.07; 0.61)	0.013	
G Intestinibacter	Q		0.559*		0.395*	0.768
1st Tertile		Ref		Ref		
2st Tertile		-0.016 (-0.27; 0.23)	0.899	-0.096 (-0.36; 0.17)	0.478	
3st Tertile		0.110 (-0.14; 0.36)	0.386	0.088 (-0.18; 0.36)	0.518	
G Romboutsia	Q		0.735*		0.787*	0.910
1st Tertile		Ref		Ref		
2st Tertile		0.055 (-0.20; 0.31)	0.667	0.053 (-0.21; 0.32)	0.692	
3st Tertile		0.010 (-0.15; 0.35)	0.434	0.093 (-0.17; 0.36)	0.491	
G Clostridium IV	Q		0.332*		0.250*	0.654
1st Tertile		Ref		Ref		
2st Tertile		0.079 (-0.17; 0.33)	0.532	0.083 (-0.18; 0.35)	0.542	
3st Tertile		-0.110 (-0.36; 0.14)	0.391	-0.142 (-0.41; 0.13)	0.302	
G Faecalibacterium	Q		0.037*		0.164*	0.561
1st Tertile		Ref		Ref		
2st Tertile		-0.040 (-0.29; 0.21)	0.754	-0.091 (-0.35; 0.17)	0.487	
3st Tertile		-0.302 (-0.55; -0.05)	0.018	-0.248 (-0.51; 0.01)	0.061	
G Gemmiger	Q		0.158*		0.617*	0.863
1st Tertile		Ref		Ref		

2st Tertile		-0.102 (-0.35; 0.15)	0.423	-0.058 (-0.32; 0.20)	0.662	
3st Tertile		-0.243 (-0.49; 0.01)	0.056	-0.132 (-0.40; 0.13)	0.327	
G Oscillibacter	Q		0.381*		0.995*	0.995
1st Tertile		Ref		Ref		
2st Tertile		-0.106 (-0.36; 0.15)	0.408	-0.013 (-0.28; 0.25)	0.925	
3st Tertile		-0.176 (-0.43; 0.07)	0.168	-0.003 (-0.27; 0.26)	0.980	
G Ruminococcus	Q		0.204*		0.113*	0.495
1st Tertile		Ref		Ref		
2st Tertile		-0.227 (-0.48; 0.02)	0.075	-0.278 (-0.54; -0.15)	0.038	
3st Tertile		-0.118 (-0.37; 0.13)	0.356	-0.113 (-0.38; 0.15)	0.405	
G Lachnospiracea incertae sedis	Q		0.950*		0.776*	0.909
1st Tertile		Ref		Ref		
2st Tertile		0.030 (-0.22; 0.28)	0.816	0.080 (-0.18; 0.34)	0.547	
3st Tertile		-0.010 (-0.26; 0.24)	0.939	0.085 (-0.18; 0.35)	0.529	
G Erysipelotrichaceae incertae sedis	B		0.039*		0.122*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.241 (0.77; 2.07)	0.405	1.480 (0.84; 2.61)	0.176	
3st Tertile		0.631 (0.37; 1.07)	0.090	0.814 (0.54; 1.47)	0.496	
G Methanobrevibacter	B		0.006*		0.009*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.896 (1.13; 3.19)	0.016	2.256 (1.25; 4.07)	0.007	
3st Tertile		2.211 (1.31; 3.75)	0.003	2.149 (1.18; 3.89)	0.012	
G Methanosphaera	B		0.127*		0.081*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.513 (0.27; 0.98)	0.043	0.432 (0.21; 0.91)	0.026	
3st Tertile		0.803 (0.44; 1.46)	0.471	0.649 (0.33; 1.28)	0.214	
G Actinomyces	B		0.512*		0.281*	0.695
1st Tertile		Ref		Ref		
2st Tertile		0.861 (0.52; 1.43)	0.560	0.748 (0.43; 1.30)	0.306	
3st Tertile		1.160 (0.70; 1.92)	0.564	1.166 (0.67; 2.03)	0.587	
G Rothia	B		0.617*		0.669*	0.881
1st Tertile		Ref		Ref		
2st Tertile		1.369 (0.73; 2.56)	0.326	1.331 (0.67; 2.65)	0.416	
3st Tertile		1.184 (0.63; 2.24)	0.604	1.314 (0.65; 2.66)	0.447	
G Bifidobacterium	B		0.504*		0.720*	0.892
1st Tertile		Ref		Ref		
2st Tertile		2.053 (0.60; 7.01)	0.251	1.452 (0.38; 5.51)	0.583	
3st Tertile		1.143 (0.40; 3.26)	0.803	0.812 (0.23; 2.93)	0.750	
G Collinsella	B		0.117*		0.313*	0.695
1st Tertile		Ref		Ref		
2st Tertile		0.991 (0.38; 2.59)	0.986	0.806 (0.25; 2.57)	0.715	
3st Tertile		4.739 (1.00; 22.41)	0.050	2.887 (0.54; 15.46)	0.216	
G Eggerthella	B		0.015*		0.084*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.707 (0.43; 1.17)	0.178	0.847 (0.48; 1.50)	0.571	
3st Tertile		0.468 (0.28; 0.78)	0.004	0.523 (0.29; 0.94)	0.031	
G Gordonibacter	B		0.069*		0.320*	0.695
1st Tertile		Ref		Ref		
2st Tertile		0.798 (0.46; 1.39)	0.423	0.749 (0.40; 1.41)	0.370	
3st Tertile		0.499 (0.28; 0.90)	0.022	0.602 (0.31; 1.18)	0.138	
G Olsenella	B		0.150*		0.477*	0.775
1st Tertile		Ref		Ref		
2st Tertile		1.124 (0.67; 1.88)	0.656	0.843 (0.47; 1.52)	0.568	
3st Tertile		1.622 (0.97; 2.70)	0.063	1.203 (0.68; 2.14)	0.529	
G Senegalimassilia	B		0.002*		0.032*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.159 (0.70; 1.92)	0.565	1.037 (0.57; 1.88)	0.905	
3st Tertile		2.387 (1.42; 4.01)	0.001	2.079 (1.12; 3.85)	0.020	
G Slackia	B		0.021*		0.194*	0.620
1st Tertile		Ref		Ref		
2st Tertile		1.499 (0.89; 2.52)	0.127	1.495 (0.81; 2.76)	0.198	
3st Tertile		2.136 (1.25; 3.67)	0.006	1.748 (0.93; 3.29)	0.084	
G Barnesiella	B		0.124*		0.237*	0.639
1st Tertile		Ref		Ref		
2st Tertile		0.848 (0.49; 1.46)	0.551	0.928 (0.51; 1.68)	0.806	
3st Tertile		1.526 (0.85; 2.74)	0.153	1.552 (0.82; 2.94)	0.178	
G Butyricimonas	B		0.082*		0.139*	0.515
1st Tertile		Ref		Ref		
2st Tertile		1.672 (0.93; 3.00)	0.085	1.694 (0.89; 3.24)	0.111	
3st Tertile		1.855 (1.02; 3.37)	0.042	1.836 (0.93; 3.61)	0.078	

G Coprobacter	B		0.190*		0.114*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.450 (0.73; 2.87)	0.288	1.556 (0.74; 3.29)	0.247	
3st Tertile		0.734 (0.34; 1.61)	0.451	0.654 (0.28; 1.54)	0.331	
G Odoribacter	B		0.122*		0.109*	0.495
1st Tertile		Ref		Ref		
2st Tertile		3.007 (1.05; 8.63)	0.041	3.601 (1.09; 11.90)	0.036	
3st Tertile		1.439 (0.61; 3.38)	0.403	1.524 (0.58; 3.96)	0.389	
G Porphyromonas	B		0.821*		0.871*	0.957
1st Tertile		Ref		Ref		
2st Tertile		1.112 (0.61; 2.04)	0.732	1.129 (0.59; 2.16)	0.716	
3st Tertile		0.914 (0.49; 1.70)	0.776	0.951 (0.49; 1.85)	0.883	
G Paraprevotella	B		0.078*		0.370*	0.766
1st Tertile		Ref		Ref		
2st Tertile		1.426 (0.85; 2.38)	0.175	1.315 (0.74; 2.32)	0.344	
3st Tertile		1.798 (1.08; 3.00)	0.025	1.494 (0.85; 2.64)	0.166	
G Lactobacillus	B		0.061*		0.050*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.753 (0.45; 1.25)	0.275	0.610 (0.34; 1.06)	0.080	
3st Tertile		1.417 (0.83; 2.40)	0.275	1.198 (0.66; 2.16)	0.550	
G Lactococcus	B		0.837*		0.588*	0.858
1st Tertile		Ref		Ref		
2st Tertile		0.753 (0.45; 1.25)	0.275	1.548 (0.66; 3.61)	0.311	
3st Tertile		1.417 (0.84; 2.40)	0.196	1.364 (0.57; 3.25)	0.484	
G Streptococcus	B		0.365*		0.741*	0.892
1st Tertile		Ref		Ref		
2st Tertile		2.053 (0.60; 7.01)	0.251	1.700 (0.40; 7.18)	0.470	
3st Tertile		0.873 (0.33; 2.34)	0.788	1.016 (0.32; 3.20)	0.979	
G Christensenella	B		0.378*		0.426*	0.768
1st Tertile		Ref		Ref		
2st Tertile		1.516 (0.81; 2.84)	0.195	1.415 (0.71; 2.83)	0.325	
3st Tertile		1.448 (0.77; 2.84)	0.251	1.566 (0.78; 3.15)	0.208	
G Anaerococcus	B		0.760*		0.545*	0.808
1st Tertile		Ref		Ref		
2st Tertile		0.874 (0.41; 1.84)	0.723	0.801 (0.35; 1.81)	0.595	
3st Tertile		1.151 (0.57; 2.34)	0.698	1.254 (0.58; 2.74)	0.569	
G Ezakiella	B		0.018*		0.020*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.563 (0.27; 1.16)	0.117	0.521 (0.24; 1.15)	0.108	
3st Tertile		0.305 (0.13; 0.71)	0.006	0.295 (0.12; 0.72)	0.007	
G Murdochiella	B		0.565*		0.934*	0.967
1st Tertile		Ref		Ref		
2st Tertile		0.760 (0.39; 1.48)	0.418	0.873 (0.42; 1.83)	0.720	
3st Tertile		0.713 (0.36; 1.40)	0.324	0.912 (0.43; 1.92)	0.809	
G Parvimonas	B		0.639*		0.510*	0.783
1st Tertile		Ref		Ref		
2st Tertile		0.722 (0.35; 1.49)	0.376	0.696 (0.31; 1.55)	0.375	
3st Tertile		0.777 (0.38; 1.58)	0.487	0.656 (0.30; 1.43)	0.288	
G Mogibacterium	B		0.023*		0.203*	0.620
1st Tertile		Ref		Ref		
2st Tertile		1.010 (0.54; 1.88)	0.974	0.975 (0.49; 1.95)	0.943	
3st Tertile		1.988 (1.11; 3.55)	0.020	1.612 (0.84; 3.07)	0.146	
G Anaerofustis	B		0.145*		0.155*	0.552
1st Tertile		Ref		Ref		
2st Tertile		1.763 (0.80; 3.91)	0.163	2.087 (0.87; 5.02)	0.100	
3st Tertile		0.811 (0.32; 2.03)	0.655	0.993 (0.36; 2.77)	0.989	
G Eubacterium	B		0.169*		0.280*	0.695
1st Tertile		Ref		Ref		
2st Tertile		1.384 (0.71; 2.67)	0.334	1.318 (0.63; 2.75)	0.462	
3st Tertile		1.970 (0.97; 4.01)	0.061	1.949 (0.86; 4.43)	0.111	
G Butyrivibrio	B		0.381*		0.964*	0.975
1st Tertile		Ref		Ref		
2st Tertile		1.260 (0.74; 2.14)	0.392	1.079 (0.59; 1.96)	0.805	
3st Tertile		1.448 (0.86; 2.45)	0.167	1.069 (0.59; 1.94)	0.826	
G Clostridium XLVb	B		0.896*		0.602*	0.863
1st Tertile		Ref		Ref		
2st Tertile		1.111 (0.43; 2.84)	0.826	1.140 (0.39; 3.34)	0.812	
3st Tertile		0.893 (0.36; 2.19)	0.804	0.694 (0.26; 1.86)	0.468	
G Eisenbergiella	B		0.741*		0.911*	0.967
1st Tertile		Ref		Ref		

2st Tertile		1.122 (0.68; 1.86)	0.654	1.1233 (0.63; 2.02)	0.672	
3st Tertile		0.920 (0.56; 1.52)	0.745	1.043 (0.58; 1.88)	0.888	
G Howardella	B		0.057*		0.128*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.868 (0.50; 1.49)	0.610	0.715 (0.31; 1.34)	0.297	
3st Tertile		1.598 (0.95; 2.69)	0.078	1.339 (0.74; 2.43)	0.337	
G Peptococcus	B		0.084*		0.532*	0.803
1st Tertile		Ref		Ref		
2st Tertile		0.919 (0.50; 1.68)	0.784	0.819 (0.42; 1.59)	0.558	
3st Tertile		1.658 (0.94; 2.92)	0.081	1.182 (0.63; 2.21)	0.602	
G Peptoniphilus	B		0.561*		0.436*	0.768
1st Tertile		Ref		Ref		
2st Tertile		1.103 (0.62; 1.96)	0.740	1.200 (0.63; 2.27)	0.576	
3st Tertile		0.799 (0.44; 1.46)	0.465	.0772 90.39; 1.51)	0.450	
G Clostridium_XI	B		0.253*		0.128*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.743 (0.38; 1.48)	0.399	0.752 (0.35; 1.62)	0.466	
3st Tertile		1.306 (0.70; 2.45)	0.406	1.555 (0.77; 3.12)	0.215	
G Peptostreptococcus	B		0.315*		0.105*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.753 (0.41; 1.39)	0.366	0.571 (0.28; 1.15)	0.116	
3st Tertile		1.203 (0.67; 2.14)	0.531	1.164 (0.61; 2.22)	0.645	
G Terrisporobacter	B		0.337*		0.446*	0.768
1st Tertile		Ref		Ref		
2st Tertile		0.654 (0.37; 1.17)	0.153	0.671 (0.36; 1.26)	0.217	
3st Tertile		0.753 (0.43; 1.33)	0.330	0.902 (0.48; 1.69)	0.749	
G Anaerofilum	B		0.193*		0.095*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.511 (0.91; 2.51)	0.110	1.725 (0.98; 3.02)	0.057	
3st Tertile		1.015 (0.61; 1.68)	0.955	1.015 (0.57; 1.79)	0.960	
G Anaerotruncus	B		0.977*		0.924*	0.967
1st Tertile		Ref		Ref		
2st Tertile		0.934 (0.48; 1.83)	0.841	1.094 (0.52; 2.32)	0.814	
3st Tertile		0.990 (0.50; 1.95)	0.977	1.163 (0.55; 2.46)	0.693	
G Flavonifractor	B		0.710*		0.209*	0.620
1st Tertile		Ref		Ref		
2st Tertile		0.943 (0.51; 1.73)	0.850	0.965 (0.48; 1.94)	0.920	
3st Tertile		1.219 (0.65; 2.30)	0.540	1.753 (0.84; 3.66)	0.135	
G Intestinimonas	B		0.328*		0.683*	0.881
1st Tertile		Ref		Ref		
2st Tertile		0.742 (0.44; 1.24)	0.258	0.774 (0.43; 1.38)	0.383	
3st Tertile		0.690 (0.41; 1.16)	0.162	0.867 (0.49; 1.55)	0.631	
G Pseudoflavonifractor	B		0.136*		0.747*	0.892
1st Tertile		Ref		Ref		
2st Tertile		0.770 (0.43; 1.39)	0.387	0.909 (0.46; 1.81)	0.786	
3st Tertile		0.524 (0.28; 0.99)	0.046	0.751 (0.36; 1.57)	0.448	
G Catenibacterium	B		0.047*		0.492*	0.776
1st Tertile		Ref		Ref		
2st Tertile		0.981 (0.59; 1.63)	0.942	0.947 (0.51; 1.75)	0.861	
3st Tertile		1.728 (1.04; 2.87)	0.035	1.332 (0.72; 2.46)	0.360	
G Clostridium_XVIII	B		0.664*		0.314*	0.695
1st Tertile		Ref		Ref		
2st Tertile		0.936 (0.48; 1.81)	0.843	0.853 (0.40; 1.81)	0.678	
3st Tertile		1.272 (0.63; 2.55)	0.498	1.549 (0.71; 3.40)	0.275	
G Coprobacillus	B		0.085*		0.065*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.467 (0.23; 0.96)	0.039	0.438 (0.20; 0.98)	0.045	
3st Tertile		0.960 (0.51; 1.80)	0.989	1.080 (0.54; 2.17)	0.829	
G Holdemanella	B		0.0008*		0.036*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.449 (0.86; 2.44)	0.162	1.153 (0.62; 2.14)	0.648	
3st Tertile		3.002 (1.69; 5.33)	<0.001	2.329 (1.20; 4.55)	0.013	
G Holdemania	B		0.834*		0.348*	0.737
1st Tertile		Ref		Ref		
2st Tertile		1.122 (0.68; 1.86)	0.656	1.134 (0.65; 1.98)	0.659	
3st Tertile		1.159 (0.70; 1.92)	0.566	1.503 (0.86; 2.64)	0.157	
G Turcibacter	B		0.234*		0.682*	0.881
1st Tertile		Ref		Ref		
2st Tertile		0.990 (0.50; 1.98)	0.978	0.884 (0.41; 1.89)	0.752	
3st Tertile		1.844 (0.84; 4.06)	0.129	1.267 (0.55; 2.98)	0.556	

G Acidaminococcus	B		0.946*		0.925*	0.967
1st Tertile		Ref		Ref		
2st Tertile		0.886 (0.44; 1.80)	0.738	1.164 (0.54; 2.52)	0.700	
3st Tertile		0.947 (0.47; 1.91)	0.880	1.115 (0.51; 2.46)	0.788	
G Phascolarctobacterium	B		0.115*		0.105*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.807 (0.89; 2.89)	0.113	1.528 (0.80; 2.94)	0.203	
3st Tertile		1.783 (0.98; 3.24)	0.058	2.092 (1.05; 4.18)	0.037	
G Allisonella	B		0.322*		0.637*	0.863
1st Tertile		Ref		Ref		
2st Tertile		1.292 (0.77; 2.16)	0.332	1.317 (0.72; 2.39)	0.367	
3st Tertile		1.478 (0.88; 2.47)	0.137	1.249 (0.69; 2.25)	0.467	
G Dialister	B		0.326*		0.479*	0.775
1st Tertile		Ref		Ref		
2st Tertile		0.695 (0.41; 1.17)	0.171	0.704 (0.40; 1.24)	0.225	
3st Tertile		0.952 (0.56; 1.62)	0.856	0.840 (0.47; 1.50)	0.557	
G Megamonas	B		0.037*		0.107*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.729 (0.93; 3.21)	0.083	1.580 (0.81; 3.10)	0.182	
3st Tertile		2.202 (1.20; 4.04)	0.011	2.043 (1.05; 3.97)	0.035	
G Megasphaera	B		0.047*		0.102*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.522 (0.26; 1.04)	0.066	0.467 (0.2; 1.02)	0.055	
3st Tertile		1.217 (0.67; 1.04)	0.520	0.987 (0.50; 1.93)	0.971	
G Mitsuokella	B		0.148*		0.426*	0.768
1st Tertile		Ref		Ref		
2st Tertile		1.013 (0.54; 1.90)	0.975	1.070 (0.51; 2.23)	0.857	
3st Tertile		1.662 (0.93; 3.01)	0.094	1.516 (0.76; 3.01)	0.235	
G Veillonella	B		0.442*		0.299*	0.695
1st Tertile		Ref		Ref		
2st Tertile		0.740 (0.42; 1.30)	0.297	0.647 (0.34; 1.22)	0.177	
3st Tertile		0.712 (0.41; 1.25)	0.238	0.643 (0.34; 1.21)	0.170	
G Fusobacterium	B		0.975*		0.960*	0.975
1st Tertile		Ref		Ref		
2st Tertile		1.079 (0.53; 2.21)	0.834	1.118 (0.51; 2.45)	0.780	
3st Tertile		1.079 (0.53; 2.21)	0.834	1.086 (0.49; 2.41)	0.840	
G Victivallis	B		0.068*		0.196*	0.620
1st Tertile		Ref		Ref		
2st Tertile		1.555 (0.92; 2.62)	0.097	1.555 (0.87; 2.78)	0.132	
3st Tertile		1.814 (1.07; 3.07)	0.027	1.618 (0.90; 2.92)	0.109	
G Parasutterella	B		0.101*		0.076*	0.495
1st Tertile		Ref		Ref		
2st Tertile		1.828 (1.04; 3.23)	0.037	2.077 (1.10; 3.92)	0.024	
3st Tertile		1.146 (0.67; 1.96)	0.616	1.514 (0.83; 2.76)	0.177	
G Sutterella	B		0.041*		0.230*	0.639
1st Tertile		Ref		Ref		
2st Tertile		1.092 (0.65; 1.82)	0.735	0.930 (0.52; 1.65)	0.804	
3st Tertile		1.916 (1.12; 3.28)	0.018	1.518 (0.83; 2.77)	0.173	
G Bilophila	B		0.111*		0.234*	0.639
1st Tertile		Ref		Ref		
2st Tertile		1.921 (0.85; 4.36)	0.118	1.947 (0.79; 4.80)	0.148	
3st Tertile		0.825 (0.41; 1.64)	0.581	0.933 (0.43; 2.03)	0.863	
G Desulfovibrio	B		0.008*		0.043*	0.495
1st Tertile		Ref		Ref		
2st Tertile		2.323 (1.27; 4.25)	0.006	2.229 (1.14; 4.35)	0.019	
3st Tertile		2.078 (1.15; 3.75)	0.015	1.850 (0.95; 3.61)	0.071	
G Campylobacter	B		0.516*		0.415*	0.768
1st Tertile		Ref		Ref		
2st Tertile		0.708 (0.39; 1.27)	0.250	0.657 (0.35; 1.24)	0.194	
3st Tertile		0.853 (0.48; 1.51)	0.586	0.762 (0.41; 1.42)	0.391	
G Succinivibrio	B		0.890*		0.827*	0.932
1st Tertile		Ref		Ref		
2st Tertile		1.009 (0.45; 2.28)	0.982	1.046 (0.41; 2.59)	0.941	
3st Tertile		1.186 (0.54; 2.61)	0.671	0.797 (0.32; 1.96)	0.621	
G Escherichia/Shigella	B		0.928*		0.865*	0.957
1st Tertile		Ref		Ref		
2st Tertile		0.869 (0.43; 1.77)	0.698	1.130 (0.76; 2.47)	0.759	
3st Tertile		0.926 (0.45; 1.90)	0.834	0.912 (0.42; 1.99)	0.817	
G Haemophilus	B		0.327*		0.640*	0.863
1st Tertile		Ref		Ref		

2st Tertile		1.445 (0.86; 2.42)	0.164	1.269 (0.71; 2.26)	0.418	
3st Tertile		1.054 (0.63; 1.75)	0.839	0.993 (0.56; 1.75)	0.982	
G Cloacibacillus	B		0.140*		0.052*	0.495
1st Tertile		Ref		Ref		
2st Tertile		0.534 (0.23; 1.26)	0.150	0.411 (0.15; 1.14)	0.089	
3st Tertile		1.234 (0.61; 2.53)	0.566	1.406 (0.63; 3.13)	0.403	
G Akkersmansia	B		0.976*		0.934*	0.967
1st Tertile		Ref		Ref		
2st Tertile		1.023 (0.61; 1.73)	0.932	1.016 (0.57; 1.83)	0.957	
3st Tertile		1.062 (0.63; 1.80)	0.825	0.916 (0.51; 1.65)	0.770	
		Phylum				
P Actinobacteria	Q		0.025*		0.196*	0.784
1st tertile		Ref		Ref		
2st tertile		0.703 (-0.18; 0.32)	0.564	0.049 (-0.21; 0.31)	0.707	
3st tertile		0.330 (0.08; 0.58)	0.010	0.228 (-0.03; 0.49)	0.087	
P Bacteroidetes	Q		0.555*		0.941*	0.941
1st tertile		Ref		Ref		
2st tertile		0.068 (-0.18; 0.32)	0.596	0.046 (-0.22; 0.31)	0.736	
3st tertile		0.139 (-0.11; 0.39)	0.278	0.034 (-0.23; 0.30)	0.804	
P Firmicutes	Q		0.145*		0.792*	0.941
1st tertile		Ref		Ref		
2st tertile		-0.066 (-0.32; 0.18)	0.603	-0.036 (-0.30; 0.23)	0.790	
3st tertile		-0.243 (-0.49; 0.01)	0.057	-0.092 (-0.36; 0.17)	0.498	
P Proteobacteria	Q		0.376*		0.414*	0.828
1st tertile		Ref		Ref		
2st tertile		-0.065 (-0.32; 0.19)	0.609	-0.006 (-0.28; 0.27)	0.965	
3st tertile		-0.177 (-0.43; 0.07)	0.167	-0.164 (-0.44; 0.11)	0.243	

Model adjusted for perinatal variables (gestational age, type of delivery, birth weight, parity, total family income, sex, skin color), breastfeeding duration, other sources of consumption in the NOVA classification, BMI and use of antibiotics 6 months before the interview at age 12.

* P-value for the Test Parm

Q: Quantitative model (assessed using linear regression, with results expressed as beta coefficients);

B: Binary model (assessed using binary logistic regression, with results expressed as Odds Ratios, OR).

Table S2 Prevalence of high ultra-processed food (UPF) consumption at 6, 11 and 12 years of age, according to covariates in a subsample of the Pelotas 2004 Birth Cohort.

Covariables	Ultra-processed (highest tercile)					
	6 years		11 years		12 years	
	N (%)	p-value*	N (%)	p-value*	N (%)	p-value*
Perinatal and maternal characteristics						
Sex		0.071		0.183		0.015
Male	69 (37.5%)		70 (36.5%)		75 (39.1%)	
Female	49 (28.5%)		52 (29.9%)		47 (27.0%)	
Skin color		0.288		< 0.001		0.073
White	79 (32.6%)		69 (27.8%)		74 (29.8%)	
Black	19 (45.2%)		26 (57.8%)		20 (44.4%)	
Brown	18 (28.1%)		26 (40.6%)		26 (40.6%)	
Others	2 (25.0%)		1(12.5%)		1 (12.5%)	
Mother's age		0.572		0.934		0.986
≤ 24	59 (34.7%)		60 (34.3%)		58 (33.1%)	
25-34	43 (30.1%)		48 (32.4%)		50 (33.8%)	
≥ 35	16 (37.2%)		14 (32.6%)		14 (32.6%)	
Gestational age		0.353		0.309		0.007
≤ 36 weeks	10 (41.7%)		11 (42.3%)		15 (57.7%)	
37-41 weeks	107 (32.4%)		110 (32.5%)		107 (31.7%)	
Type of delivery		0.497		0.010		0.139
Vaginal	64 (34.8%)		74 (39.6%)		69 (36.9%)	
Cesarean	54 (31.4%)		48 (26.8%)		53 (29.6%)	
Birth weight		0.498		0.622		0.556
< 2,500 g	8 (28.6%)		10 (32.3%)		13 (41.9%)	
2,500-3,499 g	78 (35.5%)		72 (31.7%)		73 (32.2%)	
> 3,500 g	32 (29.6%)		40 (37.0%)		36 (33.3%)	
Duration of breastfeeding		0.685		0.606		0.456
< 12 months	73 (33.0%)		79 (32.6%)		79 (34.8%)	
12-24 months	18 (29.0%)		20 (31.5%)		17 (26.6%)	
> 24 months	26 (32.1%)		28 (38.4%)		25 (34.2%)	
Parity		0.010		0.550		0.036
1	40 (26.3%)		49 (31.2%)		41 (26.1%)	
2-3	63 (41.7%)		56 (36.6%)		60 (39.2%)	
4 or more	14 (26.9%)		17 (30.9%)		21 (38.2%)	
Household income (quintiles)		0.259		0.006		0.047
1st quintile (lower)	25 (33.3%)		30 (37.5%)		35 (43.7%)	
2nd quintile	27 (38.0%)		31 (43.1%)		28 (38.9%)	
3rd quintile	23 (33.8%)		29 (42.0%)		22 (31.9%)	
4th quintile	28 (37.8%)		18 (23.4%)		22 (28.6%)	
5th quintile	15 (22.1%)		14 (20.6%)		15 (22.1%)	
Adolescent characteristics						
Grams of in natura		0.079		< 0.001		< 0.001
Less than or equal to median	65 (29.7%)		54 (21.9%)		43 (20.3%)	
Greater than median	53 (38.7%)		68 (56.7%)		79 (51.3%)	
Grams of ingredients		0.955		< 0.001		0.022
Less than or equal to median	75 (33.0%)		59 (26.5%)		66 (28.9%)	
Greater than median	43 (33.3%)		63 (44.1%)		56 (40.6%)	
Grams of processed food		0.325		0.001		< 0.001
Less than or equal to median	83 (34.9%)		64 (27.0%)		45 (23.7%)	
Greater than median	35 (29.7%)		58(45.0%)		77 (43.7%)	
Nutritional status		0.215		0.859		0.050
1st tertile (lower)	46 (39.7%)		40 (32.5%)		45 (37.2%)	
2nd tertile	36 (32.4%)		39 (32.2%)		46 (38.0%)	
3rd tertile	33 (28.9%)		43 (35.3%)		30 (24.8%)	

The highest tertile was used as the benchmark for the highest level of UPF consumption at each respective age.

* Fisher's exact test

N = Number of individuals with high UPF consumption and corresponding percentage