

Supplemental Materials

Table S1. Normalised consumption (g/kg bw/day) of cereal-based products for the population under 18 years old from ENALIA survey for all of Spain. Mean levels and standard deviation (SD) were computed considering only consumers.

Food	Age group	N total	% cons	Mean	SD
White bread	0-11 months	182	43%	1.13	0.82
	12-35 months	333	79%	1.81	1.21
	3-9 years old	589	95%	1.59	0.88
	10-17 years old	627	97%	1.15	0.61
Whole bread	0-11 months	182	1%	0.89	0.41
	12-35 months	333	2%	3.64	3.14
	3-9 years old	589	6%	1.44	0.77
	10-17 years old	627	9%	0.98	0.60
Bread rusks	0-11 months	-	-	-	-
	12-35 months	333	4%	0.78	0.74
	3-9 years old	589	5%	0.56	0.47
	10-17 years old	627	3%	0.33	0.15
Crackers	0-11 months	182	5%	0.31	0.11
	12-35 months	333	12%	0.98	2.20
	3-9 years old	589	5%	0.92	0.96
	10-17 years old	627	5%	0.55	0.64
Cookies	0-11 months	182	81%	1.04	0.55
	12-35 months	333	74%	1.37	0.83
	3-9 years old	589	48%	1.27	0.78
	10-17 years old	627	34%	0.79	0.50
Other cookies	0-11 months	-	-	-	-
	12-35 months	333	1%	1.54	0.95
	3-9 years old	589	3%	1.62	1.10
	10-17 years old	627	2%	1.30	1.12
Muffins	0-11 months	182	1%	3.33	-
	12-35 months	333	10%	2.55	1.06
	3-9 years old	589	16%	1.73	0.79
	10-17 years old	627	16%	1.08	0.59
Cake	0-11 months	-	-	-	-
	12-35 months	333	0.30%	7.89	-
	3-9 years old	589	1%	3.91	1.93
	10-17 years old	627	2%	2.06	0.83
Breakfast cereals	0-11 months	182	2%	2.92	3.18
	12-35 months	333	3%	1.75	1.35
	3-9 years old	589	9%	1.13	0.95
	10-17 years old	627	8%	0.69	0.49
Pasta	0-11 months	182	9%	2.28	1.60
	12-35 months	333	49%	2.38	1.70
	3-9 years old	589	58%	1.76	1.32
	10-17 years old	627	59%	1.10	0.92

Table S2. Recovery percentages and limit of detection (LOD) of the method used for the determination of the analysed mycotoxins.

Mycotoxin	ppb	Recovery (%)	LOD (µg/kg)
DON	200	108.9	2
	300	106.8	2
	400	108.3	2
	600	107.6	2
	800	104.6	2
15-Ac-DON	12.5	104.0	3
	18.75	105.1	3
	25	113.3	3
	37.5	106.7	3
	50	101.9	3
3-Ac-DON	25	102.6	3
	37.5	100.6	3
	50	102.0	3
	75	107.9	3
	100	105.0	3
3GDON	20	102.6	10
	30	100.3	10
	40	102.5	10
	60	101.1	10
	80	100.2	10

Abbreviations: 3-Ac-DON, 3-acetyl-deoxynivalenol; 15-Ac-DON, 15-acetyl-deoxynivalenol; DON, Deoxynivalenol; 3GDON, Deoxynivalenol-3-glucoside; LOD, Limit of Detection

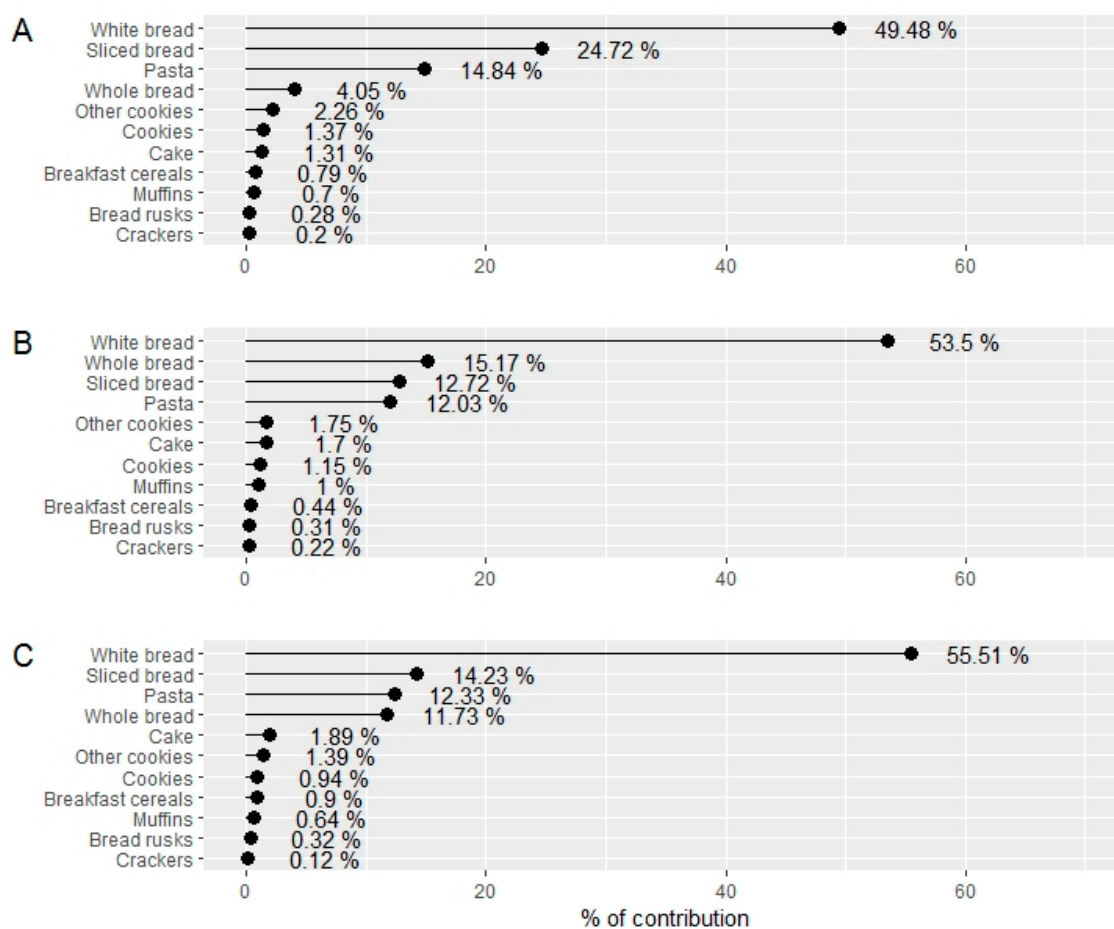


Figure S1. Contribution of cereal-based products to the global exposure to deoxynivalenol among adults from Spain. The exposure was estimated with the deterministic method for the 18–40 years old group (A), 41–60 years old group (B) and > 60 years old group (C).

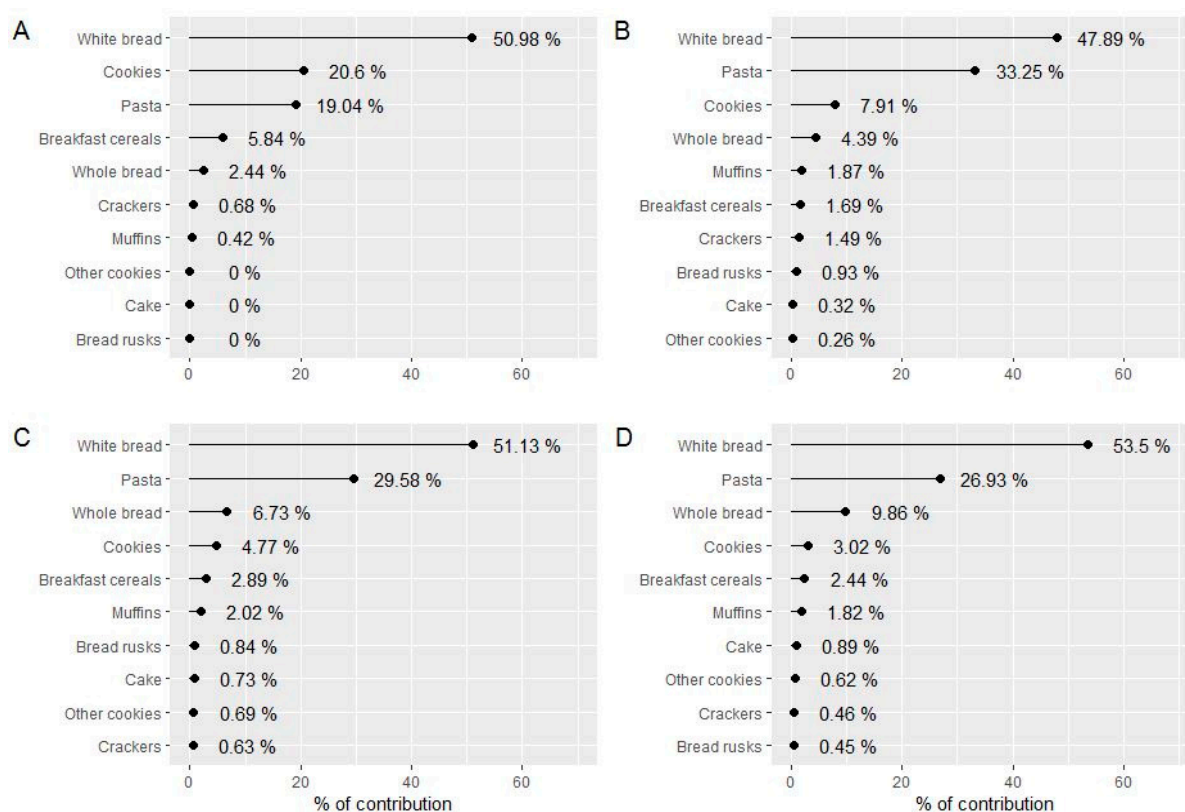


Figure S2. Contribution of cereal-based products to the global exposure to deoxynivalenol among children and adolescents from Spain. The exposure was estimated with the deterministic method for the 0–11 months old group (A), 12–35 months old group (B), 3–9 years old group (C) and for 10–17 years old group (D).