

Supplementary material for the article:

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Supplementary Tables

Table S1 Best fit distributions on body weight, AFB1 concentration and food consumption

Best fit distributions on body weight, AFB1 concentration and food consumption										
Body weight	RiskLognorm (34.971,8.8148, RiskShift (-8.7254))		RiskWeibull (1.6459,30.792, RiskShift (27.335))		RiskNormal (64.733,11.432)		RiskExtvalue (82.377,13.274)			
	Children			Adolescents		Adult females		Adult males		
	AFB1 concentrations			Food intake						
	FFQ		24h-recall	FFQ		24h-recall		FFQ		24h-recall
Baked peanuts	RiskLoglogistic (0,0.41654,2.5473)	RiskGamma (0.73257,7.7787)	RiskInvgauss (57.143,933.333)	RiskWeibull (0.8711,5.4891)	RiskGamma (11.608,5.1689)	RiskGamma (0.59391,13.73)	RiskExpon (71.053)	RiskWeibull (0.72493,9.8345)	RiskPearson5 (4.8714,351.38)	
Roasted peanuts	RiskInvgauss (1.151,3.016)	RiskWeibull (0.79106,3.0618)	RiskInvgauss (75,600)	RiskExpon (6.3532)	RiskUniform (0,110)	RiskInvgauss (6.1363,1.3692)	RiskUniform (0,106.67)	RiskWeibull (0.67424,7.094)	RiskGamma (4.3446,20.309)	
Panned peanuts	RiskUniform (0,0); (1/2 LOD, 1/2 LOD; LOD, LOD) *	RiskGamma (0.56037,5.6213)	RiskUniform (100,100)	RiskLognorm (5.4624,12.805)	RiskGamma (22.785,4.1146)	RiskGamma (0.68687,4.0898)	RiskUniform (0,100)	RiskInvgauss (3.7987,1.0758)	RiskUniform (0,360)	
Peanuts in husk	RiskUniform (1.098638,1.69366)	RiskGamma (1.158,1.1406)	RiskUniform (37.5,37.5)	RiskExpon (5.1362)	RiskUniform (75,150)	RiskWeibull (0.60795,7.51)	RiskGamma (9.4031,12.762)	RiskInvgauss (14.488,2.8028)	RiskUniform (0,166.67)	
Peanut butter	RiskUniform (2.618875,13.10191)	RiskGamma (0.92173,2.661)	RiskUniform (12.5,12.5)	RiskInvgauss (0.99238,0.32284)	RiskGamma (6.4087,2.113)	RiskInvgauss (1.3107,0.25892)	RiskGamma (9.1079,1.0783)	RiskInvgauss (1.4525,0.24204)	RiskGamma (2.5765,6.7382)	
Meal with peanuts	RiskExpon (1.0065) **	RiskExpon (0.22313)	RiskUniform (0,0)	RiskInvgauss (0.94992,0.17714)	RiskUniform (7.5,15)	RiskInvgauss (0.52942,0.16409)	RiskGamma (3.7653,3.9838)	RiskInvgauss (0.57891,0.16541)	RiskGamma (4.1938,3.3212)	
Maize bread	RiskInvgauss (4.691,0.99586) ***	RiskInvgauss (1.0696,0.18755)	RiskGamma (9.4031,1.0209)	RiskWeibull (0.66796,1.6032)	RiskWeibull (1.5141,18.758)	RiskWeibull (0.59034,1.9633)	RiskInvgauss (14.526,34.786)	RiskInvgauss (2.5143,0.36711)	RiskUniform (0,39)	
Traditional maize bread	RiskInvgauss (3.9809,0.8432) ****	RiskInvgauss (7.7536,2.5008)	RiskUniform (0,173.33)	RiskGamma (0.83655,12.556)	RiskGamma (4.4792,24.31)	RiskExpon (15.547)	RiskPearson5 (5.7441,515.85)	RiskGamma (0.72651,21.073)	RiskUniform (0,253.33)	
Polenta meal	RiskInvgauss (3.9809,0.8432) ****	RiskInvgauss (5.0443,1.4938)	RiskGamma (16.861,2.70)	RiskLognorm (3.5308,7.4164)	RiskGamma (3.4409,18.6)	RiskLognorm (7.1597,16.52)	RiskGamma (8.7077,5.5506)	RiskPearson6 (1.0491,2.1824,8.	RiskInvgauss (82.143,110.907)	

	37)			83)			1076)		
Cornflakes	RiskExpon (2.506)	RiskKumaraswamy (0.74968,2.2274,0,22.088)	RiskGamma (13.877,2.4944)	RiskWeibull (0.75174,4.5945)	RiskUniform (30,30)	RiskInvgauss (2.6177,0.4669)	RiskInvgauss (30,240)	RiskWeibull (0.59823,2.2396)	RiskGamma (3.4779,13.934)
Tortilla chips	RiskPert (1.437841,3.025422,5.830954)	RiskWeibull (0.68149,5.8292)	RiskUniform (75,75)	RiskGamma (0.75649,15.365)	RiskGamma (16.756,4.476)	RiskInvgauss (5.549,0.94258)	RiskGamma (6.3542,8.3696)	RiskWeibull (0.69552,3.6677)	RiskLognorm (51.421,26.486)
Roasted maize	RiskUniform (0,0); (1/2 LOD, 1/2 LOD; LOD, LOD) *	RiskGamma (0.40968,32.22)	RiskUniform (0,0)	RiskInvgauss (7.2083,1.759)	RiskUniform (50,50)	RiskWeibull (0.74705,2.704)	RiskPert (50,100,200)	RiskInvgauss (4.9905,1.0607)	RiskPert (50,100,200)
Maize flips	RiskUniform (0,0); (1/2 LOD, 1/2 LOD; LOD, LOD) *	RiskBetaGeneral (0.55737,1.9192,0,11.845)	RiskUniform (20,20)	RiskGamma (0.51008,9.5812)	RiskUniform (0,48)	RiskWeibull (0.61413,3.1344)	RiskGamma (4.7581,7.8813)	RiskInvgauss (4.3855,0.59303)	RiskPearson5 (8.5509,239.42)
Maize flips with peanuts	RiskUniform (0.563627,0.63752)	RiskWeibull (1.1043,8.8386)	RiskGamma (9.5895,4.4457)	RiskExpon (10.138)	RiskGamma (15.747,2.623)	RiskInvgauss (8.2423,1.061)	RiskUniform (0,164.44)	RiskBetaGeneral (0.50039,4.1337,0,81.185)	RiskLoglogistic (0,41.618,6.3574)
Integral pretzel with peanut	RiskUniform (0,1.7333)	RiskInvgauss (14.856,0.97455)	RiskUniform (0,0)	RiskLognorm (6.2711,14.198)	RiskGamma (4.8404,30.989)	RiskLognorm (7.147,19.33)	RiskGamma (3.1311,40.809)	RiskWeibull (0.71092,5.2236)	RiskGamma (3.6295,25.256)
Muesli with cornflakes	RiskGamma (47.026,0.025023)	RiskGamma (0.56284,3.7487)	RiskUniform (0,37.5)	RiskInvgauss (2.0722,0.21221)	RiskGamma (10.263,1.4616)	RiskWeibull (0.63073,1.997)	RiskInvgauss (14.375,146.549)	RiskLognorm (4.3468,24.76)	RiskInvgauss (20.625,66.415)
Dried figs	RiskPearson5 (64.78,77.965)	RiskWeibull (0.84934,0.80544)	RiskUniform (0,0)	RiskWeibull (0.65937,1.1566)	RiskWeibull (0.79795,49.259)	RiskPearson5 (64.78,77.965)	RiskGamma (0.59862,77.866)	RiskInvgauss (1.5785,0.55443)	RiskInvgauss (36.788,20.773)
Cashew	RiskGamma (41.89,0.03311)	RiskInvgauss (0.72938,0.40078)	RiskUniform (0,37.5)	RiskInvgauss (1.8185,0.31143)	RiskGamma (17.805,0.93605)	RiskBetaGeneral (0.50489,5.0907,0,12.012)	RiskGamma (4.1267,7.2697)	RiskWeibull (0.80762,0.72354)	RiskGamma (3.2686,10.096)
Almond	RiskInvgauss (1.5008,15.3319)	RiskInvgauss (0.80082,0.44463)	RiskInvgauss (20.5,81.099)	RiskWeibull (0.76232,0.84157)	RiskInvgauss (21.714,84.148)	RiskInvgauss (1.7476,0.39448)	RiskPearson5 (5.5873,126.26)	RiskInvgauss (1.4447,0.34495)	RiskKumaraswamy (0.4129,0.068235,0,30)
Pistachio	RiskLognorm (1.3628,0.24627)	RiskExpon (0.40393)	RiskUniform (15,15)	RiskInvgauss (1.5824,0.24862)	RiskGamma (3.8967,5.988)	RiskWeibull (0.80998,0.59448)	RiskGamma (2.2086,15.436)	RiskWeibull (0.72914,0.67758)	RiskGamma (8.5442,2.5358)
Walnut	RiskExpon (1.3144)	RiskGamma (0.8038,1.8601)	RiskGamma (20.707,0.9538)	RiskInvgauss (2.0476,0.75321)	RiskGamma (2.9311,6.9174)	RiskInvgauss (3.3362,1.2244)	RiskGamma (1.92,14.318)	RiskPearson6(2.1038,2.1963,1.835)	RiskLoglogistic (0,30.223,3.0141)
Rice	RiskWeibull (2.784,1.1033)	RiskWeibull (1.2476,7.1169)	RiskInvgauss (38.35,82.139)	RiskGamma (1.2862,8.6204)	RiskWeibull (1.6886,52.162)	RiskPearson6 (2.0038,3.521,14.162)	RiskBetaGeneral (2.6567,9.9324,0,228.01)	RiskPearson6 (1.7184,2.3126,10.49)	RiskInvgauss (58.5,109.157)
Millet	RiskGamma (12.147,0.12082)	RiskUniform (0,1.98)	RiskUniform (0,0)	RiskBetaGeneral (0.34889,0.73452,0,7.25)	RiskUniform (0,0)	RiskGamma (0.7074,1.7389)	RiskUniform (50,150)	RiskWeibull (0.74055,1.5393)	RiskWeibull (0.94983,39.441)
Dry ground	RiskUniform	RiskGamma	RiskGamma	RiskInvgauss	RiskInvgauss	RiskInvgauss	RiskInvgauss	RiskGamma	RiskGamma

red paprika (in meal)	(0.91468,2.878918)	(1.3861,0.20078,)	(19.388,0.05 3037)	(0.36742,0.13406)	s (1.1117,18.1 572)	(0.39857,0.11247)	(1.1117,13.4882)	(1.3303,0.3263)	(7.9377,0.17156)
Dry ground red paprika	RiskUniform (0.91468,2.878918)	RiskUniform (0,0.1504)	RiskUnifor m (0.21,0.21)	RiskGamma (0.49728,0.48412)	RiskGamma (1.8956,0.21 213)	RiskPearson6 (0.58837,3.8377,1 .125)	RiskExtvalueMin (0.33892,0.20015)	RiskGamma (0.46919,1.1256)	RiskPearson5 (7.5256,1.9484)

* Depending on substitution of left censored data

** For Meal with peanuts concentrations of all peanut samples were used as a single group in distribution fitting

*** Maize flour concentration data

**** Both polenta and maize flour are used for preparation of traditional maize bread and polenta meal, therefore concentration data for polenta and maize flour were used as single group in distribution fitting

Table S2 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of children obtained with FFQ food consumption survey method (LB)

	EDI (MOE)									
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.014 (>10 ⁴)	-	-	-	-	-	0.005 (>10 ⁴)	0.067 (2537)	0.341 (498)	4.200 (40)
Roasted peanuts	0.024 (7016)	-	-	-	-	-	0.030 (5655)	0.13 (1308)	0.539 (315)	4.341 (39)
Panned peanuts	-	-	-	-	-	-	-	-	-	-
Peanuts in husk	0.001 (>10 ⁴)	-	-	-	-	-	-	-	0.056 (3009)	0.837 (203)
Peanut butter	0.025 (6656)	-	-	-	-	-	-	-	0.827 (206)	12.272 (14)
Meal with peanuts	0.0001 (>10 ⁴)	-	-	-	-	-	-	-	0.001(>10 ⁴)	0.224 (756)
Maize bread	0.020 (8497)	-	-	-	-	-	0.002(>10 ⁴)	0.026 (6393)	0.332 (512)	55.756 (3)
Traditional maize bread	0.249 (683)	-	-	-	-	0.087 (1940)	0.233 (728)	0.752 (226)	4.68 (36)	238.687 (1)
Polenta meal	0.140 (1208)	-	-	-	-	0.033 (5142)	0.103 (1639)	0.387 (439)	2.742 (62)	81.429 (2)
Cornflakes	0.027 (6113)	-	-	-	-	-	-	-	0.824 (206)	11.159 (15)
Tortilla chips	0.083 (2027)	-	-	-	-	-	-	0.231 (734)	2.328 (73)	29.145 (6)
Roasted maize	-	-	-	-	-	-	-	-	-	-
Maize flips	-	-	-	-	-	-	-	-	-	-
Maize flips with peanut	0.019 (8536)	-	-	-	-	-	-	0.132 (1288)	0.471 (360)	3.810 (45)
Integral pretzel with peanut	0.004 (>10 ⁴)	-	-	-	-	-	-	-	0.084 (2019)	6.140 (28)
Muesli with cornflakes	0.019 (8852)	-	-	-	-	0.006 (>10 ⁴)	0.037 (4493)	0.121 (1401)	0.385 (441)	3.819 (45)
Dried figs	0.006 (>10 ⁴)	-	-	-	-	-	0.010 (>10 ⁴)	0.041(4123)	0.133 (1275)	0.786 (216)
Cashew	0.006 (>10 ⁴)	-	-	-	-	0.003 (>10 ⁴)	0.014 (>10 ⁴)	0.037 (4592)	0.128 (1326)	1.587 (107)
Almond	0.007 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.015 (>10 ⁴)	0.042 (3973)	0.155 (1093)	1.350 (126)
Pistachio	0.002 (>10 ⁴)	-	-	-	-	-	-	0.014 (>10 ⁴)	0.054 (3102)	0.438 (388)
Walnut	0.020 (8499)	-	-	-	-	0.013 (>10 ⁴)	0.039 (4313)	0.108 (1565)	0.379 (448)	4.691 (36)
Rice	0.036 (4611)	-	-	-	-	0.057 (2970)	0.123 (1379)	0.242 (703)	0.558 (305)	2.588 (66)
Millet	0.001 (>10 ⁴)	-	-	-	-	-	-	-	0.044 (3820)	0.292 (582)
Dried ground red paprika (in meal)	0.005 (>10 ⁴)	-	-	-	0.004 (>10 ⁴)	0.012 (>10 ⁴)	0.018 (9048)	0.030 (5541)	0.063 (2694)	0.399 (425)
Dried ground red paprika	0.0001 (>10 ⁴)	-	-	-	-	-	-	-	0.003 (>10 ⁴)	0.039(4270)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85: P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S3 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of children obtained with FFQ food consumption survey method (UB)

EDI (MOE)										
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.047 (3642)	-	-	0.010 (>10 ⁴)	0.054 (3172)	0.094 (1808)	0.129 (1315)	0.200 (852)	0.441 (386)	11.549 (15)
Roasted peanuts	0.037 (4592)	-	-	-	0.023 (7476)	0.054 (3124)	0.088 (1933)	0.173 (981)	0.568 (299)	5.778 (29)
Panned peanuts	0.003 (>10 ⁴)	-	-	-	-	-	-	0.016 (>10 ⁴)	0.090 (1893)	1.195 (142)
Peanuts in husk	0.003 (>10 ⁴)	-	-	-	-	-	0.005 (>10 ⁴)	0.017 (>10 ⁴)	0.068 (2515)	0.924 (184)
Peanut butter	0.028 (6162)	-	-	-	-	-	0.002 (>10 ⁴)	0.032 (5312)	0.803 (212)	11.479 (15)
Meal with peanuts	0.0002 (>10 ⁴)	-	-	-	-	-	-	0.0003 (>10 ⁴)	0.005 (>10 ⁴)	0.168 (1013)
Maize bread	0.022 (7621)	-	-	-	0.0002 (>10 ⁴)	0.004 (>10 ⁴)	0.011 (>10 ⁴)	0.040 (4288)	0.359 (474)	47.316 (4)
Traditional maize bread	0.302 (563)	0.003 (>10 ⁴)	0.009 (>10 ⁴)	0.031 (5582)	0.107 (1590)	0.222 (766)	0.370 (459)	0.861 (197)	4.79 (35)	253.875 (1)
Polenta meal	0.172 (989)	-	-	0.013 (>10 ⁴)	0.052 (3250)	0.113 (1501)	0.194 (878)	0.451 (377)	2.620 (65)	394.9 (1)
Cornflakes	0.044 (3836)	-	-	-	0.018 (9348)	0.059 (2871)	0.094 (1815)	0.159 (1068)	0.752 (226)	14.857 (11)
Tortilla chips	0.113 (1511)	-	-	-	0.024 (7206)	0.088 (1928)	0.171 (992)	0.429 (396)	2.332 (73)	28.210 (6)
Roasted maize	0.006 (>10 ⁴)	-	-	-	-	-	-	-	0.186 (914)	4.601 (37)
Maize flips	0.006 (>10 ⁴)	-	-	-	-	0.003 (>10 ⁴)	0.016 (>10 ⁴)	0.043 (3938)	0.101 (1692)	0.418 (406)
Maize flips with peanut	0.099 (1725)	0.002 (>10 ⁴)	0.017 (>10 ⁴)	0.060 (2840)	0.133 (1277)	0.192 (885)	0.239 (711)	0.329 (517)	0.589 (289)	2.459 (69)
Integral pretzel with peanut	0.007 (>10 ⁴)	-	-	-	-	-	-	0.005 (>10 ⁴)	0.193 (883)	8.508 (20)
Muesli with cornflakes	0.021 (8020)	-	-	-	0.0001 (>10 ⁴)	0.021 (8172)	0.052 (3302)	0.128 (1333)	0.386 (440)	2.670 (64)
Dried figs	0.008 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.009 (>10 ⁴)	0.019 (8829)	0.045 (3753)	0.130 (1307)	0.876 (194)
Cashew	0.009 (>10 ⁴)	-	-	-	0.007 (>10 ⁴)	0.014 (>10 ⁴)	0.023 (7367)	0.045 (3823)	0.134 (1265)	1.044 (163)
Almond	0.009 (>10 ⁴)	-	-	-	0.004 (>10 ⁴)	0.012 (>10 ⁴)	0.021 (8081)	0.046 (3719)	0.156 (1092)	2.154 (79)
Pistachio	0.003 (>10 ⁴)	-	-	-	-	0.002 (>10 ⁴)	0.006 (>10 ⁴)	0.016 (>10 ⁴)	0.053 (3188)	0.435 (391)
Walnut	0.027 (6245)	-	0.0001 (>10 ⁴)	0.006 (>10 ⁴)	0.020 (8493)	0.036 (4710)	0.055 (3104)	0.111 (1529)	0.363 (468)	4.376 (39)
Rice	0.091 (1860)	0.011 (>10 ⁴)	0.023 (7328)	0.057 (2979)	0.115 (1472)	0.163 (1042)	0.205 (827)	0.293 (579)	0.577 (294)	3.015 (56)
Millet	0.001 (>10 ⁴)	-	-	-	-	-	-	-	0.042 (4087)	0.275 (619)
Dried ground red paprika (in meal)	0.009 (>10 ⁴)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.004 (>10 ⁴)	0.010 (>10 ⁴)	0.015 (>10 ⁴)	0.021 (8210)	0.032 (5309)	0.064 (2640)	0.280 (607)
Dried ground red paprika	0.0002 (>10 ⁴)	-	-	-	-	-	-	-	0.004 (>10 ⁴)	0.037 (4614)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50, P75, P85, P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S4 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of adolescents obtained with FFQ food consumption survey method (LB)

	EDI (MOE)									
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.010 (>10 ⁴)	-	-	-	-	0.0001 (>10 ⁴)	0.014 (>10 ⁴)	0.051 (3343)	0.201 (846)	12.427 (14)
Roasted peanuts	0.034 (5081)	-	-	-	-	0.046 (3724)	0.096 (1767)	0.200 (849)	0.546 (311)	3.882 (44)
Panned peanuts	-	-	-	-	-	-	-	-	-	-
Peanuts in husk	0.010 (>10 ⁴)	-	-	-	-	-	-	0.037 (4631)	0.271 (628)	1.632 (104)
Peanut butter	0.015 (>10 ⁴)	-	-	-	-	-	-	0.051 (3323)	0.340 (499)	4.335 (39)
Meal with peanuts	0.001 (>10 ⁴)	-	-	-	-	-	-	0.0001 (>10 ⁴)	0.015 (>10 ⁴)	1.008 (169)
Maize bread	0.028 (6092)	-	-	-	-	0.002 (>10 ⁴)	0.015 (>10 ⁴)	0.073 (2327)	0.576 (295)	18.638 (9)
Traditional maize bread	0.167 (1017)	-	-	-	0.001 (>10 ⁴)	0.078 (2191)	0.202 (841)	0.611 (278)	3.285 (52)	94.285 (2)
Polenta meal	0.045 (3757)	-	-	-	-	0.010 (>10 ⁴)	0.034 (5031)	0.124 (1368)	0.853 (199)	70.429 (2)
Cornflakes	0.020 (8496)	-	-	-	-	-	-	0.021 (7969)	0.511 (333)	22.437 (8)
Tortilla chips	0.108 (1580)	-	-	-	-	-	0.188 (905)	0.690 (246)	2.237 (76)	11.494 (15)
Roasted maize	-	-	-	-	-	-	-	-	-	-
Maize flips	-	-	-	-	-	-	-	-	-	-
Maize flips with peanut	0.011 (>10 ⁴)	-	-	-	-	-	-	0.068 (2504)	0.273 (623)	1.544 (110)
Integral pretzel with peanut	0.014 (>10 ⁴)	-	-	-	-	-	0.008 (>10 ⁴)	0.051 (3333)	0.297 (573)	7.003 (24)
Muesli with cornflakes	0.016 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.010 (>10 ⁴)	0.021 (8172)	0.060 (2858)	0.325 (523)	6.400 (27)
Dried figs	0.011 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.014 (>10 ⁴)	0.030 (5755)	0.064 (2644)	0.183 (928)	1.433 (119)
Cashew	0.008 (>10 ⁴)	-	-	-	-	0.003 (>10 ⁴)	0.009 (>10 ⁴)	0.030 (5691)	0.186 (916)	3.761 (45)
Almond	0.008 (>10 ⁴)	-	-	-	0.0002 (>10 ⁴)	0.010 (>10 ⁴)	0.021 (8057)	0.046 (3687)	0.127 (1344)	0.939 (181)
Pistachio	0.008 (>10 ⁴)	-	-	-	-	0.004 (>10 ⁴)	0.010 (>10 ⁴)	0.031 (5569)	0.177 (962)	2.54 (67)
Walnut	0.016 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.014 (>10 ⁴)	0.029 (5862)	0.073 (2342)	0.305 (558)	5.375 (32)
Rice	0.031 (5441)	-	-	-	-	0.051 (3305)	0.105 (1615)	0.202 (841)	0.469 (363)	2.119 (80)
Millet	0.003 (>10 ⁴)	-	-	-	-	-	-	0.006 (>10 ⁴)	0.103 (1649)	0.427 (398)
Dried ground red paprika (in meal)	0.003 (>10 ⁴)	-	-	-	0.002 (>10 ⁴)	0.005 (>10 ⁴)	0.008 (>10 ⁴)	0.018 (9718)	0.055 (3119)	0.543 (313)
Dried ground red paprika	0.001 (>10 ⁴)	-	-	-	-	-	0.0001 (>10 ⁴)	0.005 (>10 ⁴)	0.027 (6415)	0.207 (821)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85; P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S5 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of adolescents obtained with FFQ food consumption survey method (UB)

	EDI (MOE)									Maximum
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	
Baked peanuts	0.029 (5690)	-	0.002 (>10 ⁴)	0.013 (>10 ⁴)	0.037 (4649)	0.057 (3000)	0.075 (2274)	0.110 (1511)	0.228 (746)	2.488 (68)
Roasted peanuts	0.049 (3446)	-	-	0.015 (>10 ⁴)	0.049 (3482)	0.083 (2050)	0.120 (1422)	0.209 (813)	0.547 (311)	4.413 (39)
Panned peanuts	0.010 (>10 ⁴)	-	-	-	0.005 (>10 ⁴)	0.013 (>10 ⁴)	0.023 (7538)	0.045 (3759)	0.145 (1171)	3.189 (53)
Peanuts in husk	0.019 (9096)	-	-	-	0.016 (>10 ⁴)	0.032 (5264)	0.048 (3518)	0.085 (2009)	0.272 (625)	1.373 (124)
Peanut butter	0.016 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.005 (>10 ⁴)	0.015 (>10 ⁴)	0.055 (3066)	0.366 (464)	10.145 (17)
Meal with peanuts	0.002 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.005 (>10 ⁴)	0.029 (5944)	2.433 (70)
Maize bread	0.030 (5593)	-	-	-	0.003 (>10 ⁴)	0.013 (>10 ⁴)	0.026 (6571)	0.076 (2234)	0.575 (296)	42.731 (4)
Traditional maize bread	0.193 (882)	0.001 (>10 ⁴)	0.006 (>10 ⁴)	0.029 (5791)	0.084 (2026)	0.148 (1151)	0.234 (726)	0.603 (282)	3.390 (50)	106.977 (2)
Polenta meal	0.054 (3157)	-	-	0.004 (>10 ⁴)	0.017 (>10 ⁴)	0.035 (4849)	0.059 (2864)	0.147 (1159)	0.889 (191)	59.143 (3)
Cornflakes	0.032 (5271)	-	-	-	0.017 (9850)	0.039 (4411)	0.062 (2762)	0.116 (1460)	0.517 (329)	15.541 (11)
Tortilla chips	0.142 (1194)	-	-	0.017 (>10 ⁴)	0.087 (1961)	0.168 (1010)	0.280 (608)	0.702 (242)	2.265 (75)	12.563 (14)
Roasted maize	0.009 (>10 ⁴)	-	-	-	-	0.008 (>10 ⁴)	0.017 (9811)	0.044 (3850)	0.185 (919)	2.555 (67)
Maize flips	0.012 (>10 ⁴)	-	-	-	0.009 (>10 ⁴)	0.024 (7042)	0.039 (4371)	0.068 (2515)	0.150 (1134)	0.602 (282)
Maize flips with peanut	0.056 (3052)	0.002 (>10 ⁴)	0.009 (>10 ⁴)	0.032 (5308)	0.075 (2269)	0.109 (1556)	0.138 (1231)	0.192 (886)	0.346 (491)	1.544 (110)
Integral pretzel with peanut	0.023 (7411)	-	-	-	0.010 (>10 ⁴)	0.027 (6416)	0.047 (3646)	0.099 (1703)	0.360 (472)	13.645 (12)
Muesli with cornflakes	0.017 (>10 ⁴)	-	-	-	0.005 (>10 ⁴)	0.013 (>10 ⁴)	0.025 (6718)	0.065 (2621)	0.326 (522)	5.150 (33)
Dried figs	0.013 (>10 ⁴)	-	-	0.0004 (>10 ⁴)	0.009 (>10 ⁴)	0.022 (7903)	0.035 (4821)	0.068 (2508)	0.185 (918)	1.361 (125)
Cashew	0.011 (>10 ⁴)	-	-	-	0.004 (>10 ⁴)	0.011 (>10 ⁴)	0.018 (9298)	0.043 (3940)	0.194 (877)	4.053 (42)
Almond	0.010 (>10 ⁴)	-	-	0.001 (>10 ⁴)	0.007 (>10 ⁴)	0.015 (>10 ⁴)	0.024 (7043)	0.047 (3612)	0.127 (1343)	0.879 (193)
Pistachio	0.010 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.008 (>10 ⁴)	0.016 (>10 ⁴)	0.040 (4232)	0.188 (905)	2.479 (69)
Walnut	0.021 (7960)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.005 (>10 ⁴)	0.014 (>10 ⁴)	0.027 (6318)	0.042 (4072)	0.082 (2084)	0.303 (560)	3.754 (45)
Rice	0.05 (3414)	0.006 (>10 ⁴)	0.010 (>10 ⁴)	0.022 (7629)	0.049 (3461)	0.078 (2179)	0.112 (1517)	0.199 (855)	0.461 (369)	2.869 (59)
Millet	0.003 (>10 ⁴)	-	-	-	-	-	0.001 (>10 ⁴)	0.012 (>10 ⁴)	0.102 (1670)	0.413 (411)
Dried ground red paprika (in meal)	0.005 (>10 ⁴)	0.0003 (>10 ⁴)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.005 (>10 ⁴)	0.008 (>10 ⁴)	0.012 (>10 ⁴)	0.021 (8026)	0.057 (3004)	0.480 (354)
Dried ground red paprika	0.002 (>10 ⁴)	-	-	-	0.0003 (>10 ⁴)	0.002 (>10 ⁴)	0.004 (>10 ⁴)	0.008 (>10 ⁴)	0.027 (6343)	0.149 (1145)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85; P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S6 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of adult females obtained with FFQ food consumption survey method (LB)

	EDI (MOE)									
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.012 (>10 ⁴)	-	-	-	-	0.002 (9666)	0.017 (4281)	0.063 (1596)	0.234 (727)	2.945 (58)
Roasted peanuts	0.026 (6664)	-	-	-	-	0.018 (8641)	0.040 (3721)	0.107 (1451)	0.530 (321)	9.276 (18)
Panned peanuts	-	-	-	-	-	-	-	-	-	-
Peanuts in husk	0.020 (8485)	-	-	-	-	-	-	0.048 (3511)	0.550 (309)	10.193 (17)
Peanut butter	0.014 (>10 ⁴)	-	-	-	-	-	-	0.033 (5133)	0.324 (524)	8.582 (20)
Meal with peanuts	0.001 (>10 ⁴)	-	-	-	-	-	-	0.001 (>10 ⁴)	0.012 (>10 ⁴)	0.718 (327)
Maize bread	0.038 (4495)	-	-	-	-	0.008 (>10 ⁴)	0.029 (5932)	0.110 (1540)	0.767 (222)	12.679 (13)
Traditional maize bread	0.201 (846)	-	-	-	0.004 (>10 ⁴)	0.112 (1520)	0.268 (634)	0.770 (221)	4.042 (42)	77.809 (2)
Polenta meal	0.081 (2100)	-	-	-	-	0.020 (8416)	0.061 (2770)	0.213 (797)	1.488 (114)	99.150 (2)
Cornflakes	0.006 (>10 ⁴)	-	-	-	-	-	-	0.003 (>10 ⁴)	0.120 (1416)	8.921 (19)
Tortilla chips	0.034 (5076)	-	-	-	-	-	0.017 (>10 ⁴)	0.092 (1854)	0.775 (219)	9.110 (19)
Roasted maize	-	-	-	-	-	-	-	-	-	-
Maize flips	-	-	-	-	-	-	-	-	-	-
Maize flips with peanut	0.008 (>10 ⁴)	-	-	-	-	-	0.002 (>10 ⁴)	0.019 (9085)	0.190 (893)	4.995 (34)
Integral pretzel with peanut	0.015 (>10 ⁴)	-	-	-	-	0.0004 (>10 ⁴)	0.013 (>10 ⁴)	0.059 (2907)	0.338 (503)	12.580 (14)
Muesli with cornflakes	0.021 (8302)	-	-	-	0.010 (>10 ⁴)	0.033 (5121)	0.059 (2882)	0.115 (1479)	0.299 (568)	2.868 (59)
Dried figs	0.019 (9142)	-	-	0.004 (>10 ⁴)	0.016 (>10 ⁴)	0.028 (6034)	0.039 (4300)	0.068 (2490)	0.216 (788)	4.014 (42)
Cashew	0.005 (>10 ⁴)	-	-	-	-	0.002 (>10 ⁴)	0.012 (>10 ⁴)	0.032 (5279)	0.087 (1955)	0.329 (516)
Almond	0.013 (>10 ⁴)	-	-	-	0.004 (>10 ⁴)	0.013 (>10 ⁴)	0.026 (6607)	0.061 (2774)	0.239 (713)	4.733 (36)
Pistachio	0.004 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.007 (>10 ⁴)	0.013 (>10 ⁴)	0.025 (6761)	0.059 (2906)	0.295 (577)
Walnut	0.022 (7819)	-	-	-	0.003 (>10 ⁴)	0.019 (8789)	0.041 (4193)	0.098 (1733)	0.409 (416)	4.400 (39)
Rice	0.025 (6686)	-	-	-	-	0.042 (4032)	0.079 (2152)	0.148 (1149)	0.379 (448)	4.193 (41)
Millet	0.002 (>10 ⁴)	-	-	-	-	-	0.002 (>10 ⁴)	0.014 (>10 ⁴)	0.052 (3281)	0.290 (587)
Dried ground red paprika (in meal)	0.003 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.004 (>10 ⁴)	0.007 (>10 ⁴)	0.016 (>10 ⁴)	0.055 (3119)	0.524 (325)
Dried ground red paprika	0.002 (>10 ⁴)	-	-	-	-	0.0002 (>10 ⁴)	0.001 (>10 ⁴)	0.005 (>10 ⁴)	0.035 (4928)	1.977 (86)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85; P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99

EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S7 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of adult females obtained with FFQ food consumption survey method (UB)

	EDI (MOE)									
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.036 (4730)	0.0004 (>10 ⁴)	0.003 (>10 ⁴)	0.014 (>10 ⁴)	0.043 (3945)	0.069 (2482)	0.091 (1875)	0.135 (1262)	0.280 (608)	8.367 (20)
Roasted peanuts	0.038 (4504)	-	-	0.006(>10 ⁴)	0.023 (7405)	0.048 (3568)	0.078 (2182)	0.158 (1079)	0.547 (311)	13.704 (12)
Panned peanuts	0.004 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.009 (>10 ⁴)	0.014 (>10 ⁴)	0.024 (7088)	0.049 (3505)	0.200 (851)
Peanuts in husk	0.039 (4334)	-	-	0.0002 (>10 ⁴)	0.022 (7639)	0.056 (3050)	0.092 (1848)	0.181 (942)	0.600 (283)	8.164 (21)
Peanut butter	0.015 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.003 (>10 ⁴)	0.010 (>10 ⁴)	0.039 (4263)	0.322 (527)	7.570 (22)
Meal with peanuts	0.001 (>10 ⁴)	-	-	-	0.0004 (>10 ⁴)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.004 (>10 ⁴)	0.016 (>10 ⁴)	0.484 (351)
Maize bread	0.043 (3937)	-	-	-	0.007 (>10 ⁴)	0.020 (8373)	0.041 (4197)	0.118 (1442)	0.811 (210)	52.260 (3)
Traditional maize bread	0.240 (709)	0.004 (>10 ⁴)	0.012 (>10 ⁴)	0.041 (4103)	0.105 (1623)	0.178 (953)	0.292 (583)	0.777 (219)	4.150 (41)	111.023 (2)
Polenta meal	0.097 (1758)	-	0.001 (>10 ⁴)	0.008 (>10 ⁴)	0.030 (5651)	0.063 (2719)	0.108 (1581)	0.262 (649)	1.540 (110)	179.652 (1)
Cornflakes	0.011 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.008 (>10 ⁴)	0.015 (>10 ⁴)	0.037 (4651)	0.173 (983)	7.657 (22)
Tortilla chips	0.043 (3960)	-	-	0.001 (>10 ⁴)	0.012 (>10 ⁴)	0.034 (5037)	0.063 (2690)	0.155 (1099)	0.784 (217)	26.276 (6)
Roasted maize	0.004 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.007 (>10 ⁴)	0.013 (>10 ⁴)	0.026 (6598)	0.067 (2530)	0.307 (554)
Maize flips	0.007 (>10 ⁴)	-	-	-	0.002 (>10 ⁴)	0.010 (>10 ⁴)	0.019 (8987)	0.040 (4250)	0.110 (1543)	0.957 (178)
Maize flips with peanut	0.042 (4096)	0.002 (>10 ⁴)	0.003 (>10 ⁴)	0.009 (>10 ⁴)	0.028 (6053)	0.056 (3023)	0.092 (1848)	0.181 (939)	0.565 (301)	5.067 (34)
Integral pretzel with peanut	0.024 (7105)	-	-	-	0.012 (>10 ⁴)	0.029 (5843)	0.049 (3447)	0.104 (1429)	0.367 (463)	11.600 (15)
Muesli with cornflakes	0.022 (7654)	-	-	0.0002 (>10 ⁴)	0.016 (>10 ⁴)	0.038 (4440)	0.063 (2708)	0.116 (1469)	0.288 (590)	2.673 (64)
Dried figs	0.022 (7727)	0.002 (>10 ⁴)	0.003 (>10 ⁴)	0.008 (>10 ⁴)	0.019 (8947)	0.036 (4722)	0.042 (4047)	0.072 (2361)	0.231 (735)	10.311 (16)
Cashew	0.006 (>10 ⁴)	-	-	0.0002 (>10 ⁴)	0.004 (>10 ⁴)	0.009 (>10 ⁴)	0.015 (>10 ⁴)	0.033 (5200)	0.089 (1919)	0.356 (477)
Almond	0.016 (>10 ⁴)	-	0.0003 (>10 ⁴)	0.002 (>10 ⁴)	0.010 (>10 ⁴)	0.020 (8542)	0.033 (5205)	0.067 (2548)	0.236 (721)	2.804 (61)
Pistachio	0.005 (>10 ⁴)	-	-	0.0004 (>10 ⁴)	0.004 (>10 ⁴)	0.008 (>10 ⁴)	0.013 (>10 ⁴)	0.025 (6882)	0.059 (2901)	0.588 (289)
Walnut	0.029 (5927)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.006 (>10 ⁴)	0.019 (8869)	0.036 (4741)	0.056 (3066)	0.108 (1573)	0.384 (443)	11.634 (15)
Rice	0.041 (4147)	0.005 (>10 ⁴)	0.008 (>10 ⁴)	0.017 (>10 ⁴)	0.038 (4434)	0.064 (2659)	0.093 (1830)	0.159 (1071)	0.385 (441)	3.008 (57)
Millet	0.002 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.004 (>10 ⁴)	0.014 (>10 ⁴)	0.052 (3263)	0.316 (538)
Dried ground red paprika (in meal)	0.005 (>10 ⁴)	0.0004 (>10 ⁴)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.004 (>10 ⁴)	0.008 (>10 ⁴)	0.011 (>10 ⁴)	0.020 (8509)	0.056 (3052)	0.466 (364)
Dried ground red paprika	0.002 (>10 ⁴)	-	-	0.0003 (>10 ⁴)	0.001 (>10 ⁴)	0.003 (>10 ⁴)	0.005 (>10 ⁴)	0.009 (>10 ⁴)	0.027 (6396)	0.512 (332)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85; P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S8 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of adult males obtained with FFQ food consumption survey method (LB)

	EDI (MOE)									
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.012 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.015 (>10 ⁴)	0.063 (2685)	0.266 (639)	2.891 (59)
Roasted peanuts	0.031 (5431)	-	-	-	0.0003 (>10 ⁴)	0.029 (5897)	0.070 (2424)	0.174 (976)	0.566 (300)	8.258 (21)
Panned peanuts	-	-	-	-	-	-	-	-	-	-
Peanuts in husk	0.020 (8693)	-	-	-	-	-	-	0.048 (3512)	0.433 (393)	7.287 (23)
Peanut butter	0.008 (>10 ⁴)	-	-	-	-	-	-	0.013 (>10 ⁴)	0.157 (1084)	5.413 (31)
Meal with peanuts	0.0003 (>10 ⁴)	-	-	-	-	-	-	0.001 (>10 ⁴)	0.009 (>104)	0.106 (1599)
Maize bread	0.018 (9597)	-	-	-	-	0.001 (>10 ⁴)	0.007 (>10 ⁴)	0.032 (>10 ⁴)	0.315 (539)	20.360 (8)
Traditional maize bread	0.135 (1258)	-	-	-	-	0.055 (3088)	0.155 (1099)	0.480 (354)	2.659 (64)	40.256 (4)
Polenta meal	0.051 (3353)	-	-	-	-	0.008 (>10 ⁴)	0.033 (5156)	0.136 (1249)	0.963 (177)	28.549 (6)
Cornflakes	0.005 (>10 ⁴)	-	-	-	-	-	-	-	0.110 (1551)	3.102 (55)
Tortilla chips	0.017 (>10 ⁴)	-	-	-	-	-	0.0002 (>10 ⁴)	0.074 (2303)	0.410 (414)	3.434 (50)
Roasted maize	-	-	-	-	-	-	-	-	-	-
Maize flips	-	-	-	-	-	-	-	-	-	-
Maize flips with peanut	0.005 (>10 ⁴)	-	-	-	-	-	-	0.020 (8551)	0.155 (1098)	0.574 (296)
Integral pretzel with peanut	0.009 (>10 ⁴)	-	-	-	-	-	0.008 (>10 ⁴)	0.044 (3907)	0.229 (742)	1.151 (148)
Muesli with cornflakes	0.015 (>10 ⁴)	-	-	-	0.0002 (>10 ⁴)	0.007 (>10 ⁴)	0.017 (>10 ⁴)	0.053 (3208)	0.313 (544)	5.550 (31)
Dried figs	0.009 (>10 ⁴)	-	-	-	0.006 (>10 ⁴)	0.014 (>10 ⁴)	0.024 (7167)	0.045 (3822)	0.124 (1375)	0.482 (353)
Cashew	0.002 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.005 (>10 ⁴)	0.015 (>10 ⁴)	0.042 (4047)	0.160 (1065)
Almond	0.007 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.007 (>10 ⁴)	0.013 (>10 ⁴)	0.030 (5591)	0.126 (1350)	1.190 (143)
Pistachio	0.003 (>10 ⁴)	-	-	-	0.0004 (>10 ⁴)	0.004 (>10 ⁴)	0.009 (>10 ⁴)	0.020 (8656)	0.054 (3154)	0.195 (873)
Walnut	0.014 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.016 (>10 ⁴)	0.032 (5384)	0.070 (2447)	0.234 (727)	11.262 (15)
Rice	0.021 (8032)	-	-	-	-	0.027 (6407)	0.056 (3046)	0.116 (1461)	0.342 (497)	3.646 (47)
Millet	0.002 (>10 ⁴)	-	-	-	-	-	-	0.008 (>10 ⁴)	0.050 (3407)	0.524 (324)
Dried ground red paprika (in meal)	0.002 (>10 ⁴)	-	-	-	0.002 (>10 ⁴)	0.006 (>10 ⁴)	0.008 (>10 ⁴)	0.013 (>10 ⁴)	0.025 (6855)	0.080 (2117)
Dried ground red paprika	0.002 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.004 (>10 ⁴)	0.014 (>10 ⁴)	0.046 (3704)	0.200 (850)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85; P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S9 Mean EDI of AFB1 (ng kg⁻¹ bw day⁻¹), resulting MOE values and the distribution of the exposure for each food category across population of adult males obtained with FFQ food consumption survey method (UB)

	EDI (MOE)									
	Mean	P15	P25	P50	P75	P85	P90	P95	P99	Maximum
Baked peanuts	0.039 (4408)	0.001 (>10 ⁴)	0.004 (>10 ⁴)	0.015 (>10 ⁴)	0.045 (3808)	0.072 (2372)	0.097 (1748)	0.148 (1150)	0.312 (545)	5.334 (32)
Roasted peanuts	0.046 (3683)	-	0.001 (>10 ⁴)	0.009 (>10 ⁴)	0.039 (4403)	0.072 (2356)	0.108 (1572)	0.197 (863)	0.593 (287)	6.443 (26)
Panned peanuts	0.004 (>10 ⁴)	-	-	-	0.002 (>10 ⁴)	0.006 (>10 ⁴)	0.010 (>10 ⁴)	0.020 (8554)	0.645 (264)	0.446 (381)
Peanuts in husk	0.039 (4401)	-	-	0.003 (>10 ⁴)	0.019 (8539)	0.046 (3721)	0.078 (2186)	0.166 (1025)	0.596 (285)	9.047 (19)
Peanut butter	0.009 (>10 ⁴)	-	-	-	-	0.001 (>10 ⁴)	0.004 (>10 ⁴)	0.019 (8977)	0.181 (941)	8.932 (19)
Meal with peanuts	0.001 (>10 ⁴)	-	-	-	0.0002 (>10 ⁴)	0.001 (>10 ⁴)	0.001 (>10 ⁴)	0.003 (>10 ⁴)	0.012 (>10 ⁴)	0.316 (538)
Maize bread	0.022 (7849)	-	-	-	0.001 (>10 ⁴)	0.006 (>10 ⁴)	0.013 (>10 ⁴)	0.042 (4057)	0.339 (501)	32.183 (5)
Traditional maize bread	0.167 (1018)	0.001 (>10 ⁴)	0.005 (>10 ⁴)	0.024 (7187)	0.071 (2383)	0.125 (1361)	0.194 (877)	0.506 (336)	2.871 (59)	91.634 (29)
Polenta meal	0.061 (2779)	-	-	0.005 (>10 ⁴)	0.020 (8529)	0.040 (4236)	0.068 (2510)	0.162 (1047)	1.007 (169)	86.912 (2)
Cornflakes	0.008 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.007 (>10 ⁴)	0.013 (>10 ⁴)	0.030 (5662)	0.133 (1280)	5.387 (32)
Tortilla chips	0.024 (7161)	-	-	-	0.009 (>10 ⁴)	0.024 (7019)	0.042 (4035)	0.098 (1741)	0.470 (362)	3.001 (57)
Roasted maize	0.005 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.005 (>10 ⁴)	0.009 (>10 ⁴)	0.022 (7596)	0.087 (1952)	1.071 (159)
Maize flips	0.004 (>10 ⁴)	-	-	-	0.001 (>10 ⁴)	0.003 (>10 ⁴)	0.007 (>10 ⁴)	0.019 (9185)	0.088 (1943)	1.026 (166)
Maize flips with peanut	0.025 (6715)	-	0.0002 (>10 ⁴)	0.008 (>10 ⁴)	0.034 (5013)	0.056 (3022)	0.074 (2282)	0.106 (1610)	0.180 (942)	0.760 (224)
Integral pretzel with peanut	0.015 (>10 ⁴)	-	-	-	0.008 (>10 ⁴)	0.023 (7546)	0.038 (4459)	0.075 (2270)	0.225 (754)	1.657 (103)
Muesli with cornflakes	0.017 (>10 ⁴)	-	-	-	0.003 (>10 ⁴)	0.010 (>10 ⁴)	0.021 (7999)	0.056 (3041)	0.293 (580)	34.249 (5)
Dried figs	0.011 (>10 ⁴)	-	0.001 (>10 ⁴)	0.003 (>10 ⁴)	0.010 (>10 ⁴)	0.018 (9610)	0.027 (6385)	0.048 (3583)	0.126 (1355)	0.993 (171)
Cashew	0.003 (>10 ⁴)	-	-	0.0001 (>10 ⁴)	0.002 (>10 ⁴)	0.004 (>10 ⁴)	0.007 (>10 ⁴)	0.015 (>10 ⁴)	0.042 (4028)	0.219 (776)
Almond	0.008 (>10 ⁴)	-	-	0.001 (>10 ⁴)	0.005 (>10 ⁴)	0.010 (>10 ⁴)	0.017 (>10 ⁴)	0.036 (4787)	0.131 (1294)	1.281 (133)
Pistachio	0.004 (>10 ⁴)	-	-	0.0001 (>10 ⁴)	0.003 (>10 ⁴)	0.006 (>10 ⁴)	0.010 (>10 ⁴)	0.021 (8310)	0.054 (3152)	0.261 (651)
Walnut	0.020 (8507)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.005 (>10 ⁴)	0.014 (>10 ⁴)	0.025 (6695)	0.039 (4311)	0.076 (2242)	0.251 (677)	19.139 (9)
Rice	0.034 (5029)	0.003 (>10 ⁴)	0.005 (>10 ⁴)	0.012 (>10 ⁴)	0.029 (5914)	0.050 (3400)	0.073 (2320)	0.130 (1306)	0.365 (466)	7.334 (23)
Millet	0.002 (>10 ⁴)	-	-	-	-	0.0002 (>10 ⁴)	0.002 (>10 ⁴)	0.009 (>10 ⁴)	0.051 (3348)	0.362 (470)
Dried ground red paprika (in meal)	0.004 (>10 ⁴)	0.0004 (>10 ⁴)	0.001 (>10 ⁴)	0.002 (>10 ⁴)	0.004 (>10 ⁴)	0.007 (>10 ⁴)	0.009 (>10 ⁴)	0.013 (>10 ⁴)	0.025 (6719)	0.102 (1670)
Dried ground red paprika	0.003 (>10 ⁴)	-	-	0.0001 (>10 ⁴)	0.003 (>10 ⁴)	0.006 (>10 ⁴)	0.009 (>10 ⁴)	0.017 (>10 ⁴)	0.045 (3745)	0.309 (549)

EDI – Estimated Daily Intake; MOE – Margin of Exposure; FFQ – Food Frequency Questionnaire; P15, P25, P50; P75, P85; P90, P95, P99 - Percentiles 15, 25, 50, 75, 85, 90, 95, 99
EDI and MOE values associated with risk of AFB1 exposure are in bold

Table S10 Average intake of food per category (g kg⁻¹ bw)

	Children		Adolescents		Adult females		Adult males	
	FFQ	24h-recall	FFQ	24h-recall	FFQ	24h-recall	FFQ	24h-recall
Baked peanuts	0.090	0.119	0.096	0.142	0.117	0.157	0.130	0.210
Roasted peanuts	0.066	0.122	0.088	0.116	0.073	0.059	0.094	0.087
Panned peanuts	0.012	0.096	0.034	0.129	0.017	0.008	0.016	0.032
Peanuts in husk	0.008	0.007	0.039	0.052	0.064	0.038	0.057	0.061
Peanut butter	0.011	0.026	0.010	0.010	0.006	0.004	0.005	0.010
Meal with peanuts	0.001	-	0.004	0.005	0.003	0.004	0.002	0.006
Total peanuts	0.186	0.370	0.271	0.455	0.280	0.271	0.303	0.406
Maize bread	0.011	0.012	0.017	0.009	0.026	0.016	0.010	0.013
Traditional maize bread	0.275	0.462	0.189	0.331	0.215	0.164	0.152	0.130
Polenta meal	0.164	0.309	0.050	0.080	0.075	0.038	0.054	0.066
Cornflakes	0.063	0.136	0.051	0.045	0.019	0.020	0.015	0.035
Tortilla chips	0.097	0.145	0.138	0.247	0.047	0.046	0.028	0.024
Roasted maize	0.020	-	0.033	0.013	0.017	0.024	0.017	-
Maize flips	0.013	0.004	0.041	0.026	0.029	0.019	0.016	0.014
Total maize	0.643	1.068	0.520	0.750	0.429	0.328	0.292	0.301
Maize flips with peanuts	0.315	0.528	0.180	0.291	0.103	0.093	0.066	0.078
Integral pretzels with peanuts	0.038	-	0.035	0.132	0.056	0.078	0.035	0.033
Muesli with cornflakes	0.025	0.024	0.018	0.030	0.027	0.020	0.015	0.017
Dried figs*	0.009	-	0.018	0.056	0.022	0.049	0.014	0.036
Cashew	0.009	0.017	0.015	0.020	0.008	0.020	0.005	0.027
Almond	0.012	0.067	0.012	0.059	0.022	0.050	0.011	0.016
Pistachio	0.003	0.036	0.010	0.078	0.007	0.083	0.006	0.069
Walnut*	0.045	0.024	0.053	0.030	0.049	0.027	0.038	0.010
Rice*	0.250	0.390	0.211	0.228	0.177	0.158	0.144	0.108
Millet	0.002	-	0.003	-	0.004	0.013	0.004	0.013
Dried ground red paprika*	0.011	0.013	0.008	0.009	0.007	0.006	0.008	0.007

*Summed from all sources

Supplementary data Appendix I

Food categories used in consumption surveys

Product/composite food	
Baked peanuts	Integral pretzels with peanut
Roasted peanuts	Meals with high rice content*
Coated peanuts	Meals with low rice content*
Peanut in husk	Millet
Peanut butter	Dried figs**
Meal with peanuts	Traditional cakes with dried figs**
Cornflakes	Cashew
Polenta meal	Almond
Maize bread	Pistachio
Traditional maize bread	Walnut***
Roasted maize	Traditional cakes with walnuts***
Tortilla chips	Cakes with walnuts***
Maize flips	Dry ground red paprika (in cooked meal)
Maize flips with peanuts	Dry ground red paprika
Muesli containing cornflakes	

*. *, *** - Products summed in single data points for daily consumption

Supplementary data Appendix II

List of questions used in 24h-recall interview

- Do you consume breakfast regularly? What do you usually consume for breakfast?
- Have you consumed breakfast in previous 24h? Have you consumed food listed in the food list for the breakfast and in what amount (breakfast cereals, polenta meal, traditional maize bread, maize bread, peanut butter...)?
- Do you consume lunch regularly?
- Have you consumed lunch in previous 24h? Have you consumed food listed in food list for lunch and in what amount (meals with dried ground red paprika, meals with higher rice content, meals with lower rice content, maize bread, traditional maize bread...)?
- Do you consume diner regularly?
- Have you consumed diner in previous 24h? Have you consumed lunch leftovers for diner? Have you consumed food listed in the food list for diner and in what amount (meals with dried ground red paprika, meals with higher rice content, meals with lower rice content, maize bread, traditional maize bread...)?
- Do you usually consume food between meals? If yes, do you consume products listed in the food list and in what amount? (snack food, peanuts, nuts, dried figs, or any other type of food listed in the food list)
- In what occasions do you usually consume snack food, peanuts, and nuts? (movie night, bars, cinema, parties)
- Have you consumed any type of snack food, peanuts or nuts listed in the food list in previous 24h and in what amount?
- Have you in previous 24h participated in following events: weddings, Saint day, birthday. While participating, have you consumed following: traditional food, cakes with walnut and dried figs, snack food.

Additional question for children

- Do they carry additional meal for school? What was additional meal in previous 24h?

Additional question for fasting periods

- Do you practice fasting? Have you fasted in previous 24h? Have you consumed food listed in the food list? (no fat traditional maize bread, nuts, peanuts, rice meals, dried figs)