

Supplementary information

Missing data information in Table 1.

^b Ten and 9 missing data of annual house income in control and case group, respectively.

^c Six missing data of parents (at least one) have asthma or allergy in control group.

^d Five and 1 missing data of mother smoked or was exposed to secondhand smoke during pregnancy in control and case group, respectively.

^e Five missing data of children exposed to secondhand smoke in control group.

^f Ten and 3 missing data of home within 1 km from the main road in control and case group, respectively.

^g Three and 1 missing data of cockroaches exist at home in control and case group, respectively.

^h Three missing data of have pets at home in control group.

ⁱ Five and 2 missing data of incense use at home in control and case group, respectively.

^j Five and 3 missing data of pesticide use at home in control and case group, respectively.

^k Four and 1 missing data of have home carpeted in control and case group, respectively.

^l Five and 1 missing data of have an air conditioner at home in control and case group, respectively.

^m Four and 2 missing data of have mold plaque (wall cancer or moss) on the walls or bathroom at home in control and case group, respectively.

ⁿ Nine and 12 missing data of have children take vitamin C or E in control and case group, respectively.

^o Nine and 13 missing data of have children take cod liver oil in control and case group, respectively.

^p Nine and 12 missing data of have children take deep sea fish oil in control and case group, respectively.

^q Nine and 13 missing data of have children take vitamin D and calcium tablets in control and case group, respectively.

^r Ten and 13 missing data of have children take lactic acid bacteria in control and case group, respectively.

^s Nine and 12 missing data of have children take propolis in control and case group, respectively.

^t Nine and 12 missing data of have children take traditional Chinese medicine (American ginseng) in control and case group, respectively.

Table S1. Comparison of different case-control ratio by propensity score matching

case-control ratio	1:3 (case= 46, control= 122) matching: sex, age, BMI		1:3 (case= 42, control= 117) matching: sex, age, BMI		1:3 (case= 46, control= 119) matching: sex, age		1:3 (case= 41, control= 111) matching: sex, age, BMI	
	SMD	VR	SMD	VR	SMD	VR	SMD	VR
LPS	0.110	1.003	0.147	1.329	0.109	1.149	0.080	1.271
Age	-0.009	1.399	0.060	3.047	0.099	2.443	0.052	2.953
Sex	0.121	0.876	0.163	0.331	0.077	0.902	-0.039	0.970
BMI			0.022	0.973			0.100	1.100

SMD= Standardized mean difference; VR= Variance ratio; LPS= logit of the propensity score

Criteria of proper matching: $SMD < 0.1$, $0.5 < VR < 2$

Table S2. Tolerable daily intake (TDI) of seven phthalates by EFSA and WHO

Parent phthalate Compounds	Endpoint	TDI (µg/kg /day)
DEP	Organ weight	500
DBP (i+n)	Reproductive effect	50
DnBP	Reproductive effect	10
DiBP	Reproductive effect	10
BBzP	Reproductive effect	50
DiNP	Reproductive effect	50
DEHP	Reproductive effect	50

Table S3. Levels of urinary phthalate metabolites (ng/mL) for control and case groups at different demographic factors.

Control, median (interquartile rage)	MMP	MEP	MiBP	MnBP
Male	16.54 (5.43-35.56)	19.16 (6.16-55.75)	22.38 (8.67-90.36)	84.01 (12.81-225.12)
Female	10.77 (6.95-26.73)	18.57 (11.41-62.64)	16.66 (9.35-64.81)	22.33 (16.77-63.29)
Annual House income < 18,750	6.48 (2.82-23.24)	14.78 (4.32-43.51)	16.16 (4.74-76.66)	21.78 (8.35-97.55)
Annual House income 18,750-31,250	12.65 (6.95-33.02)	18.57 (8.98-58.63)	26.50 (8.57-102.79)	34.23 (15.40-149.71)
Annual House income > 31,250	17.90 (8.73-38.47)	26.10 (12.90-67.91)	22.40 (11.49-90.51)	39.32 (20.52-224.86)
Parents (at least one) have asthma or allergy, Yes	11.07 (6.17-58.18)	20.30 (6.75-75.91)	18.49 (12.38-32.46)	88.89 (21.49-181.07)
Parents (at least one) have asthma or allergy, No	14.68 (5.88-34.00)	19.16 (9.16-55.75)	22.09 (8.83-100.27)	30.93 (13.50-188.87)
Mother smoked or was exposed to secondhand smoke during pregnancy, Yes	14.64 (5.36-49.40)	14.62 (4.54-28.20)	23.34 (8.63-99.82)	30.94 (10.78-146.65)
Mother smoked or was exposed to secondhand smoke during pregnancy, No	14.89 (6.61-33.50)	26.48 (12.12-62.94)	19.00 (9.06-88.39)	31.26 (17.70-234.99)
Children exposed to secondhand smoke, Yes	14.00 (5.36-38.31)	17.64 (5.87-58.01)	22.32 (8.63-106.24)	30.94 (15.46-184.35)
Children exposed to secondhand smoke, No	15.51 (7.80-29.68)	24.66 (12.15-65.67)	20.34 (9.41-68.85)	28.09 (16.57-184.51)
Home within 1 km from the main road, Yes	11.71 (5.91-31.67)	20.10 (8.70-62.43)	21.29 (8.64-91.38)	30.93 (15.60-200.59)
Home within 1 km from the main road, No	23.15 (15.31-40.29)	17.90 (11.43-56.15)	33.29 (12.71-107.39)	63.29 (21.60-164.67)
Cockroaches exist at home, Yes	13.97 (5.87-29.79)	17.90 (6.34-50.18)	17.92 (8.57-64.81)	25.62 (11.86-146.32)
Cockroaches exist at home, No	29.39 (6.55-47.34)	43.51 (20.21-115.85)	76.66 (17.22-305.70)	89.55 (28.00-310.54)
Have pets at home, Yes	12.09 (7.02-23.36)	11.19 (5.78-23.91)	16.53 (8.55-24.12)	23.84 (16.43-51.71)
Have pets at home, No	16.09 (5.98-37.31)	24.01 (11.43-63.94)	22.61 (9.51-95.24)	50.40 (16.85-227.12)
Incense use at home, Yes	8.77 (4.84-23.19)	16.16 (7.11-48.42)	15.03 (8.69-33.37)	24.34 (14.97-94.61)
Incense use at home, No	23.91 (6.95-40.81)	26.10 (13.16-80.68)	31.63 (16.14-251.68)	97.55 (20.13-297.30)

Table S3. (continued)

Control, median (interquartile rage)	MMP	MEP	MiBP	MnBP
Pesticide use at home, Yes	16.25 (6.44-43.61)	18.57 (7.09-60.64)	22.82 (9.26-105.09)	30.61 (17.01-211.62)
Pesticide use at home, No	15.31 (6.08-32.36)	19.90 (9.38-48.42)	21.82 (9.05-82.48)	31.28 (15.53-181.95)
Have home carpeted, Yes	11.10 (2.56-26.61)	9.38 (1.11-28.78)	15.05 (6.34-22.04)	31.94 (5.98-118.61)
Have home carpeted, No	15.92 (6.65-36.41)	21.88 (11.41-62.36)	22.40 (9.50-102.79)	31.28 (17.72-224.34)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, Yes	11.67 (6.48-38.19)	19.44 (9.09-46.65)	19.51 (9.50-80.96)	37.51 (18.48-149.71)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, No	15.82 (6.04-34.45)	19.39 (8.25-61.43)	22.38 (9.22-92.28)	29.97 (15.46-216.43)
Have children take vitamin C or E, Yes	15.51 (6.53-34.75)	18.76 (11.57-33.24)	22.38 (11.14-99.82)	35.13 (17.40-180.61)
Have children take vitamin C or E, No	13.33 (5.98-32.15)	25.71 (6.28-66.15)	22.32 (9.06-89.68)	30.94 (15.38-193.83)
Have children take cod liver oil, Yes	15.76 (5.01-27.83)	20.02 (7.20-51.43)	13.20 (9.39-52.65)	23.69 (16.95-206.54)
Have children take cod liver oil, No	14.68 (6.12-35.45)	20.10 (9.29-59.56)	22.94 (9.33-95.24)	32.76 (16.50-180.81)
Have children take deep sea fish oil, Yes	23.15 (17.83-37.60)	40.01 (17.72-111.19)	131.72 (16.25-187.92)	146.32 (28.45-271.67)
Have children take deep sea fish oil, No	13.97 (5.90-30.50)	19.90 (9.03-57.20)	21.82 (8.95-88.48)	31.24 (14.97-174.34)
Have children take vitamin D and calcium tablets, Yes	16.71 (6.36-42.33)	19.67 (14.19-59.27)	22.61 (11.49-169.79)	59.08 (21.63-227.12)
Have children take vitamin D and calcium tablets, No	12.20 (5.98-26.36)	22.29 (5.87-58.01)	19.95 (8.10-80.57)	29.97 (13.50-163.27)
Have children take lactic acid bacteria, Yes	16.25 (7.64-38.74)	20.30 (11.91-62.36)	21.82 (10.11-88.30)	39.32 (19.28-225.38)
Have children take lactic acid bacteria, No	10.64 (5.60-25.03)	20.38 (4.99-58.34)	22.94 (6.69-140.05)	29.97 (10.52-114.06)
Have children take propolis, Yes	13.79 (7.78-33.03)	32.91 (4.94-81.15)	28.09 (18.94-68.24)	91.59 (33.47-102.81)
Have children take propolis, No	14.68 (5.98-32.15)	20.10 (9.29-58.34)	22.09 (9.30-95.24)	31.26 (16.43-224.60)
Have children take traditional Chinese medicine (American ginseng), Yes	10.21 (5.61-50.46)	20.30 (9.83-50.61)	24.11 (8.52-95.54)	31.27 (14.97-228.85)
Have children take traditional Chinese medicine (American ginseng), No	15.72 (6.30-29.65)	19.90 (8.43-60.50)	22.37 (9.53-91.83)	31.28 (17.25-167.95)

Table S3. (continued)

Control, median (interquartile rage)	MBzP	MiNP	ΣDBPm	ΣDEHPm
Male	2.46 (ND-7.00)	1.17 (ND-55.28)	0.45 (0.10-1.59)	0.81 (0.26-2.63)
Female	2.60 (ND-4.45)	2.13 (ND-67.57)	0.17 (0.12-0.80)	0.84 (0.21-2.26)
Annual House income < 18,750	ND (ND-2.52)	6.76 (ND-299.04)	0.17 (0.06-0.93)	0.64 (0.14-1.33)
Annual House income 18,750-31,250	2.36 (ND-6.21)	2.23 (ND-17.10)	0.27 (0.10-1.60)	1.04 (0.25-2.94)
Annual House income > 31,250	3.83 (ND-8.27)	ND (ND-238.13)	0.43 (0.15-1.37)	0.89 (0.33-2.96)
Parents (at least one) have asthma or allergy, Yes	2.25 (ND-3.65)	ND (ND-152.07)	0.43 (0.17-0.92)	0.59 (0.32-3.43)
Parents (at least one) have asthma or allergy, No	2.46 (ND-7.00)	3.50 (ND-67.11)	0.25 (0.10-1.29)	0.83 (0.24-2.27)
Mother smoked or was exposed to secondhand smoke during pregnancy, Yes	2.31 (ND-6.58)	1.12 (ND-16.39)	0.27 (0.09-0.99)	0.97 (0.21-3.09)
Mother smoked or was exposed to secondhand smoke during pregnancy, No	3.36 (ND-7.81)	1.17 (ND-121.24)	0.25 (0.12-1.43)	0.79 (0.26-2.26)
Children exposed to secondhand smoke, Yes	2.36 (ND-6.75)	2.43 (ND-22.21)	0.27 (0.11-1.12)	0.93 (0.19-3.09)
Children exposed to secondhand smoke, No	3.54 (ND-7.81)	ND (ND-121.24)	0.33 (0.11-1.17)	0.79 (0.36-1.88)
Home within 1 km from the main road, Yes	2.41 (ND-7.12)	ND (ND-66.18)	0.25 (0.10-1.35)	0.71 (0.21-2.39)
Home within 1 km from the main road, No	3.26 (ND-8.79)	ND (ND-8.43)	0.43 (0.17-1.08)	2.24 (0.97-3.61)
Cockroaches exist at home, Yes	2.45 (ND-6.46)	3.02 (ND-84.45)	0.21 (0.09-0.98)	0.72 (0.21-2.26)
Cockroaches exist at home, No	3.83 (ND-9.37)	ND (ND-10.18)	0.96 (0.24-2.99)	1.51 (0.74-3.85)
Have pets at home, Yes	2.42 (ND-6.46)	ND (ND-3.12)	0.19 (0.13-0.60)	0.46 (0.19-1.93)
Have pets at home, No	2.61 (ND-7.12)	4.02 (ND-109.47)	0.45 (0.12-1.35)	0.88 (0.29-2.72)
Incense use at home, Yes	2.36 (ND-4.23)	ND (ND-14.11)	0.17 (0.10-0.73)	0.76 (0.26-1.48)
Incense use at home, No	4.08 (ND-8.29)	8.33 (ND-92.62)	0.80 (0.17-2.51)	1.09 (0.29-3.15)

Table S3. (continued)

Control, median (interquartile rage)	MBzP	MiNP	ΣDBPm	ΣDEHPm
Pesticide use at home, Yes	2.62 (ND-7.98)	ND (ND-14.98)	0.27 (0.13-1.24)	0.92 (0.27-2.88)
Pesticide use at home, No	2.60 (ND-6.15)	2.23 (ND-92.62)	0.27 (0.11-1.26)	0.80 (0.25-2.47)
Have home carpeted, Yes	1.26 (ND-3.59)	ND (ND-11.40)	0.23 (0.04-0.60)	0.59 (0.24-1.19)
Have home carpeted, No	2.97 (ND-7.33)	2.23 (ND-67.57)	0.27 (0.14-1.39)	0.87 (0.27-2.94)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, Yes	2.36 (ND-4.28)	ND (ND-23.98)	0.28 (0.16-1.08)	0.64 (0.27-1.28)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, No	2.99 (ND-8.67)	2.43 (ND-106.08)	0.26 (0.10-1.38)	1.04 (0.26-2.90)
Have children take vitamin C or E, Yes	2.72 (ND-6.02)	ND (ND-22.28)	0.37 (0.15-1.29)	1.01 (0.27-2.90)
Have children take vitamin C or E, No	2.58 (ND-7.97)	2.43 (ND-71.79)	0.27 (0.10-1.16)	0.81 (0.27-1.68)
Have children take cod liver oil, Yes	9.78 (3.10-22.73)	ND (ND-8.37)	0.17(0.11-1.16)	1.54 (0.57-2.78)
Have children take cod liver oil, No	2.56 (ND-6.56)	2.43 (ND-66.18)	0.28 (0.12-1.20)	0.86 (0.27-2.27)
Have children take deep sea fish oil, Yes	3.29 (2.80-5.36)	2.13 (ND-264.88)	1.64 (0.46-1.83)	1.24 (0.96-2.93)
Have children take deep sea fish oil, No	2.52 (ND-7.19)	ND (ND-44.85)	0.26 (0.10-1.10)	0.79 (0.26-2.48)
Have children take vitamin D and calcium tablets, Yes	2.99 (ND-7.88)	ND (ND-23.74)	0.49 (0.16-1.65)	1.05 (0.31-3.07)
Have children take vitamin D and calcium tablets, No	2.55 (ND-6.18)	2.43 (ND-79.77)	0.27 (0.09-0.95)	0.79 (0.26-1.95)
Have children take lactic acid bacteria, Yes	3.26 (ND-6.84)	2.23 (ND-65.72)	0.28 (0.14-1.34)	0.89 (0.32-2.69)
Have children take lactic acid bacteria, No	2.11 (ND-7.28)	ND (ND-86.79)	0.27 (0.09-1.09)	0.83 (0.21-2.10)
Have children take propolis, Yes	4.19 (1.10-16.28)	ND (ND-3.36)	0.63 (0.25-0.92)	1.90 (0.42-2.86)
Have children take propolis, No	2.55 (ND-6.89)	2.18 (ND-71.79)	0.27 (0.11-1.43)	0.83 (0.27-2.29)
Have children take traditional Chinese medicine (American ginseng), Yes	3.24 (ND-6.95)	ND (ND-14.79)	0.24 (0.11-1.52)	0.92 (0.31-2.81)
Have children take traditional Chinese medicine (American ginseng), No	2.37 (ND-7.10)	2.23 (ND-92.62)	0.27 (0.14-1.10)	0.84 (0.26-2.27)

Table S3. (continued)

Case, median (interquartile range)	MMP	MEP	MiBP	MnBP
Male	15.70 (7.51-33.42)	21.35 (8.46-49.44)	20.41 (12.87-44.07)	32.65 (19.36-160.65)
Female	5.86 (3.91-20.07)	14.45 (7.43-37.71)	22.70 (10.37-195.40)	35.25 (11.10-345.21)
Annual House income < 18,750	20.28 (7.25-27.42)	16.00 (9.57-33.03)	20.41 (18.50-42.60)	34.81 (23.04-164.86)
Annual House income 18,750-31,250	8.76 (2.16-14.94)	27.91 (9.70-47.14)	15.58 (13.19-19.55)	14.61 (12.18-21.32)
Annual House income > 31,250	13.61 (5.54-24.91)	13.22 (6.05-33.14)	16.16 (8.64-101.22)	35.69 (10.32-90.50)
Parents (at least one) have asthma or allergy, Yes	14.96 (7.03-24.19)	10.10 (4.57-36.55)	18.84 (12.87-163.66)	25.70 (22.66-423.64)
Parents (at least one) have asthma or allergy, No	15.66 (4.74-31.95)	20.08 (9.07-52.71)	23.46 (10.70-85.67)	35.25 (15.44-176.72)
Mother smoked or was exposed to secondhand smoke during pregnancy, Yes	15.53 (5.00-24.68)	11.58 (3.88-56.93)	18.50 (8.52-65.17)	27.07 (9.10-180.47)
Mother smoked or was exposed to secondhand smoke during pregnancy, No	17.07 (4.50-34.06)	24.80 (13.04-39.52)	30.06 (18.17-110.95)	37.24 (24.89-141.35)
Children exposed to secondhand smoke, Yes	15.66 (4.72-28.17)	17.40 (4.57-58.85)	19.99 (9.31-99.80)	32.59 (11.57-183.77)
Children exposed to secondhand smoke, No	15.43 (9.11-31.38)	21.35 (11.03-35.76)	29.84 (17.40-32.36)	36.45 (22.07-130.46)
Home within 1 km from the main road, Yes	15.66 (5.44-29.94)	23.06 (8.84-62.64)	19.99 (11.43-97.22)	33.73 (15.64-155.77)
Home within 1 km from the main road, No	9.78 (4.59-18.33)	16.45 (5.36-34.12)	27.83 (17.05-184.16)	235.72 (49.66-383.89)
Cockroaches exist at home, Yes	14.96 (4.61-24.91)	16.00 (7.88-35.70)	19.98 (11.48-31.33)	30.36 (17.03-170.42)
Cockroaches exist at home, No	23.72 (3.98-36.55)	18.81 (7.92-64.31)	31.50 (10.84-217.95)	34.81 (10.88-235.89)
Have pets at home, Yes	15.43 (5.14-19.46)	31.33 (16.00-34.72)	19.98 (18.36-101.22)	131.67 (17.03-170.42)
Have pets at home, No	19.56 (4.60-33.19)	13.15 (5.81-56.93)	23.46 (11.43-65.17)	33.73 (15.18-185.44)
Incense use at home, Yes	14.52 (4.25-20.07)	20.08 (9.13-35.45)	19.41 (15.55-31.20)	25.99 (16.07-121.37)
Incense use at home, No	23.72 (9.89-28.93)	13.09 (9.04-71.11)	25.39 (11.48-101.10)	38.04 (23.63-205.28)

Table S3. (continued)

Case, median (interquartile rage)	MMP	MEP	MiBP	MnBP
Pesticide use at home, Yes	14.53 (4.84-19.13)	18.67 (8.80-32.69)	19.32 (14.58-48.76)	63.09 (16.07-176.72)
Pesticide use at home, No	23.57 (4.97-29.94)	26.77 (8.29-73.34)	23.72 (10.52-110.86)	31.51 (20.11-154.63)
Have home carpeted, Yes	4.18 (3.50-67.86)	34.72 (23.81-52.92)	19.98 (17.75-60.54)	25.70 (19.59-124.62)
Have home carpeted, No	15.62 (5.14-28.89)	16.00 (6.05-42.92)	20.41 (11.31-95.92)	34.81 (15.75-170.42)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, Yes	12.79 (4.06-25.00)	18.67 (8.05-62.64)	19.99 (15.60-97.22)	24.74 (15.18-75.14)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, No	15.43 (5.65-30.95)	13.22 (6.97-40.65)	20.41 (8.62-66.36)	36.45 (16.18-160.65)
Have children take vitamin C or E, Yes	13.61 (2.83-24.91)	16.00 (11.62-34.72)	20.00 (18.84-29.84)	30.36 (21.70-185.42)
Have children take vitamin C or E, No	17.58 (8.80-29.91)	22.87 (9.13-39.52)	25.90 (13.57-97.25)	36.07 (20.77-141.35)
Have children take cod liver oil, Yes	11.75 (5.61-21.60)	20.10 (11.94-28.01)	22.94 (16.64-28.86)	28.03 (16.53-75.46)
Have children take cod liver oil, No	19.87 (4.84-31.95)	20.08 (9.07-41.79)	25.90 (14.74-130.41)	37.24 (22.77-181.67)
Have children take deep sea fish oil, Yes	25.09 (24.68-25.50)	19.47 (15.54-23.39)	40.41 (33.16-47.66)	104.59 (67.48-141.71)
Have children take deep sea fish oil, No	14.96 (4.55-26.90)	21.35 (9.10-40.65)	20.41 (14.90-98.57)	35.69 (18.72-151.04)
Have children take vitamin D and calcium tablets, Yes	14.28 (5.28-25.16)	20.73 (3.88-45.63)	22.94 (10.88-106.98)	32.59 (20.57-100.70)
Have children take vitamin D and calcium tablets, No	19.87 (4.22-29.91)	20.08 (11.96-34.45)	25.90 (18.17-66.49)	38.21 (22.25-180.47)
Have children take lactic acid bacteria, Yes	17.21 (7.56-24.61)	33.93 (13.91-66.16)	27.87 (15.69-130.41)	63.09 (27.29-181.67)
Have children take lactic acid bacteria, No	19.05 (3.27-31.95)	12.99 (6.06-23.64)	20.97 (15.69-32.75)	30.12 (15.53-108.34)
Have children take propolis, Yes	3.06 (1.61-19.53)	85.96 (45.51-90.11)	18.84 (13.49-85.64)	21.70 (18.51-113.49)
Have children take propolis, No	17.58 (6.63-25.66)	20.08 (9.78-35.45)	23.72 (15.55-85.67)	36.07 (22.77-160.73)
Have children take traditional Chinese medicine (American ginseng), Yes	20.28 (4.18-25.91)	16.00 (12.89-34.72)	20.00 (18.84-31.33)	30.36 (25.70-38.04)
Have children take traditional Chinese medicine (American ginseng), No	15.33 (5.31-25.90)	24.33 (7.80-43.74)	25.68 (13.57-143.21)	37.42 (15.64-172.52)

Table S3. (continued)

Case, median (interquartile range)	MBzP	MiNP	ΣDBPm	ΣDEHPm
Male	4.79 (ND-10.97)	ND (ND-15.88)	0.25 (0.16-1.14)	0.79 (0.24-2.08)
Female	2.04 (ND-14.03)	ND (ND-2.66)	0.76 (0.09-1.73)	0.82 (0.20-1.19)
Annual House income < 18,750	5.59 (ND-14.34)	ND (ND-15.83)	0.26 (0.19-0.99)	1.08 (0.39-1.80)
Annual House income 18,750-31,250	ND (ND-0.70)	ND (ND-25.94)	0.14 (0.11-0.18)	0.23 (0.15-0.40)
Annual House income > 31,250	2.04 (ND-8.71)	ND (ND-2.65)	0.25 (0.08-1.19)	0.78 (0.41-1.74)
Parents (at least one) have asthma or allergy, Yes	3.44 (ND-5.80)	ND (ND-17.60)	0.21 (0.17-2.85)	0.69 (0.35-1.36)
Parents (at least one) have asthma or allergy, No	4.51 (ND-12.01)	ND (ND-14.67)	0.27 (0.13-1.21)	0.85 (0.20-1.80)
Mother smoked or was exposed to secondhand smoke during pregnancy, Yes	3.15 (ND-7.87)	1.81 (ND-16.06)	0.23 (0.08-1.09)	0.80 (0.16-1.47)
Mother smoked or was exposed to secondhand smoke during pregnancy, No	6.20 (ND-16.82)	ND (ND-8.70)	0.27 (0.20-1.29)	0.78 (0.48-2.51)
Children exposed to secondhand smoke, Yes	3.69 (ND-8.31)	1.81 (ND-16.25)	0.42 (0.08-1.39)	1.00 (0.18-1.73)
Children exposed to secondhand smoke, No	5.59 (1.09-17.42)	ND (ND-5.32)	0.26 (0.17-0.88)	0.78 (0.46-2.35)
Home within 1 km from the main road, Yes	3.40 (ND-13.24)	ND (ND-16.06)	0.25 (0.14-1.09)	0.74 (0.19-1.76)
Home within 1 km from the main road, No	4.52 (0.97-9.38)	ND (ND-5.00)	1.28 (0.34-2.42)	1.14 (0.86-1.44)
Cockroaches exist at home, Yes	2.85 (ND-7.65)	ND (ND-15.69)	0.25 (0.16-1.05)	0.78 (0.28-1.45)
Cockroaches exist at home, No	10.64 (ND-21.60)	ND (ND-11.64)	0.29 (0.10-2.04)	1.19 (0.13-2.58)
Have pets at home, Yes	8.71 (ND-16.44)	ND (ND-ND)	0.76 (0.16-1.22)	0.28 (0.16-1.19)
Have pets at home, No	3.69 (ND-9.06)	1.38 (ND-15.84)	0.25 (0.14-1.22)	0.85 (0.38-1.80)
Incense use at home, Yes	3.40 (ND-15.23)	ND (ND-10.09)	0.22 (0.15-0.88)	0.53 (0.18-1.05)
Incense use at home, No	4.79 (ND-8.71)	ND (ND-15.69)	0.31 (0.16-1.46)	1.43 (0.69-2.97)

Table S3. (continued)

Case, median (interquartile rage)	MBzP	MiNP	ΣDBPm	ΣDEHPm
Pesticide use at home, Yes	3.15 (ND-8.02)	1.38 (ND-10.09)	0.60 (0.15-1.15)	0.78 (0.20-1.49)
Pesticide use at home, No	4.94 (ND-13.81)	ND (ND-15.72)	0.25 (0.14-1.47)	0.83 (0.36-1.94)
Have home carpeted, Yes	ND (ND-68.43)	ND (ND-8.04)	0.21 (0.17-0.83)	0.20 (0.19-3.53)
Have home carpeted, No	3.94 (ND-10.64)	ND (ND-15.69)	0.26 (0.14-1.19)	0.79 (0.28-1.74)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, Yes	2.04 (ND-7.23)	1.81 (ND-16.59)	0.22 (0.14-0.99)	0.46 (0.19-1.52)
Have mold plaque (wall cancer or moss) on the walls or bathroom at home, No	4.79 (ND-14.24)	ND (ND-11.84)	0.29 (0.13-1.36)	1.08 (0.43-1.63)
Have children take vitamin C or E, Yes	5.92 (ND-16.23)	ND (ND-15.69)	0.25 (0.18-0.92)	0.50 (0.20-1.43)
Have children take vitamin C or E, No	3.69 (ND-9.36)	ND (ND-8.70)	0.28 (0.15-1.20)	0.99 (0.38-1.94)
Have children take cod liver oil, Yes	ND (ND-5.78)	ND (ND-2.02)	0.23 (0.15-0.47)	0.56 (0.18-1.53)
Have children take cod liver oil, No	5.34 (0.62-12.01)	ND (ND-10.09)	0.45 (0.19-1.28)	0.99 (0.43-2.22)
Have children take deep sea fish oil, Yes	3.90 (2.03-5.78)	7.90 (4.00-11.79)	0.65 (0.45-0.85)	1.36 (1.14-1.58)
Have children take deep sea fish oil, No	3.94 (ND-11.77)	ND (ND-9.39)	0.26 (0.15-1.21)	0.78 (0.24-1.77)
Have children take vitamin D and calcium tablets, Yes	3.69 (ND-9.79)	ND (ND-9.92)	0.40 (0.14-0.79)	0.85 (0.19-1.57)
Have children take vitamin D and calcium tablets, No	5.34 (ND-11.54)	ND (ND-2.78)	0.28 (0.20-1.24)	0.99 (0.37-2.51)
Have children take lactic acid bacteria, Yes	6.78 (2.39-16.39)	ND (ND-2.02)	0.62 (0.22-1.21)	1.05 (0.35-1.69)
Have children take lactic acid bacteria, No	1.25 (ND-7.80)	ND (ND-11.42)	0.24 (0.14-0.87)	0.76 (0.23-2.22)
Have children take propolis, Yes	ND (ND-3.03)	ND (ND-150.11)	0.18 (0.14-0.90)	0.50 (0.33-0.96)
Have children take propolis, No	4.51 (ND-12.01)	ND (ND-10.09)	0.28 (0.17-1.15)	0.85 (0.28-1.80)
Have children take traditional Chinese medicine (American ginseng), Yes	2.35 (ND-11.30)	ND (ND-ND)	0.25 (0.18-0.59)	0.74 (0.28-0.92)
Have children take traditional Chinese medicine (American ginseng), No	4.51 (ND-9.60)	ND (ND-12.81)	0.40 (0.13-1.29)	1.31 (0.26-1.94)

Abbreviation: not detectable (ND).

Yellow color: comparison of different demographic factor by Wilcoxon signed-rank test or Kruskal-Wallis test and the groups' medians are significantly from each other, $p < 0.05$.

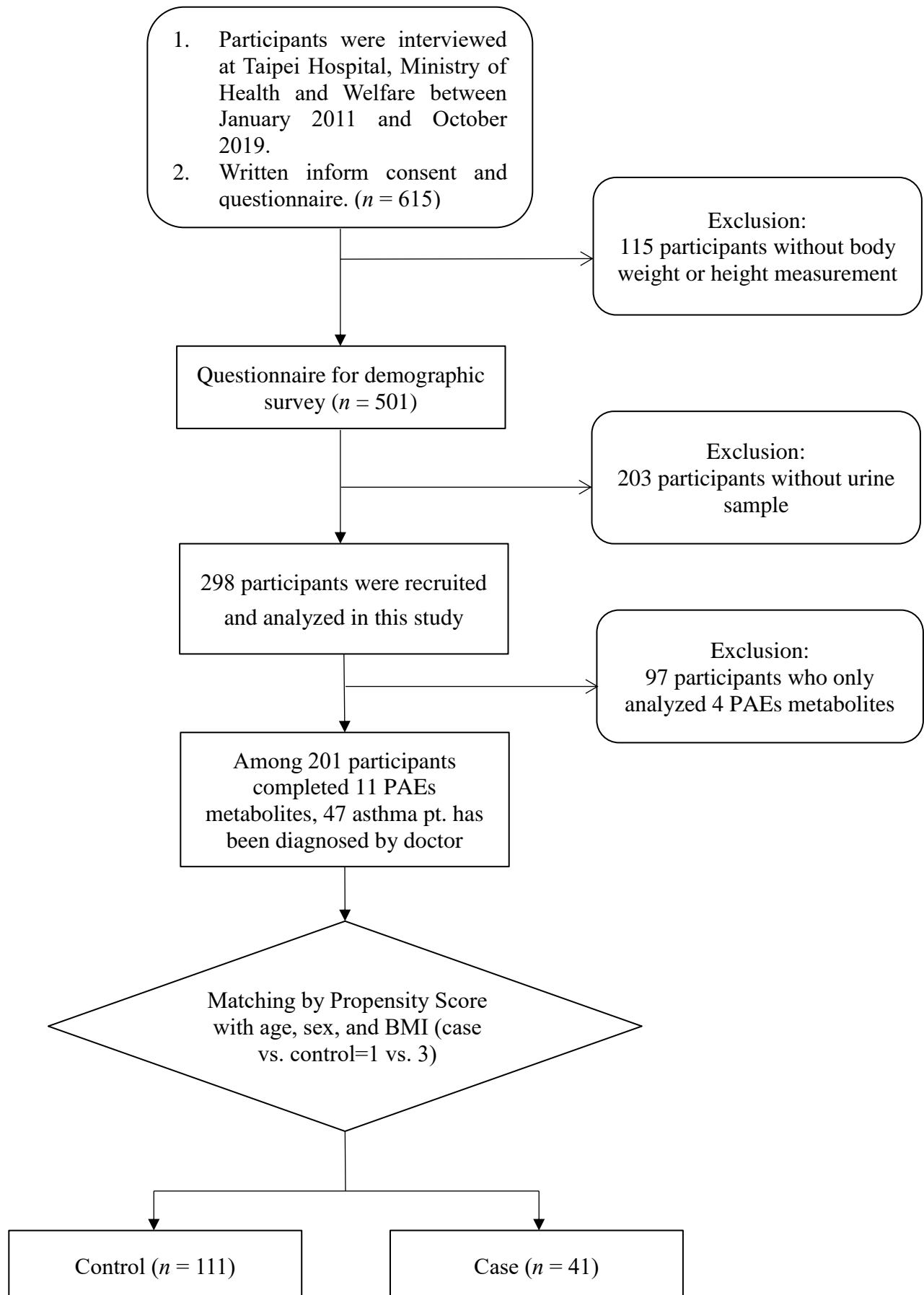


Figure S1. Flow chart of the recruitment of the study