

RESEARCH

Open Access



6. ...

7. ...

8. ...

9. ...

B 10. ...

11. D. ...

A ...

C ...

15 30 2 7 12.

B. 61% 3. 13.

14. ...

15, 16. ...

17. ...

A ...

B ...

B ...

18, 19.

B ...

B ...

(2015) ...

2 ...

: (1) ...

(2) ...

B ...

Methods

Study design and study population

F 2016 2017,

≥20 19–40

20. B

152 (42 ; 110).

13, 32

C 452

80% 14.3%

B 2. A

E 498

A

Data collection

A ...

AC ... A

Table 1 Maternal characteristics in urban and rural area (n = 437)

Characteristics	Urban (n = 199)	Rural (n = 238)	p-value
Age (years) ^a	29.54 (4.76)	29.19 (5.23)	0.44
Gestational age at study visit, (weeks) ^a	30.46 (5.52)	30.19 (5.82)	0.62
Second Trimester (≥20–26 weeks) (%)	49 (24.62)	75 (31.51)	0.11
Third Trimester (≥27 weeks) (%)	150 (75.38)	163 (68.49)	
Parity (%)			
0	91 (45.7)	79 (33.2)	0.01*
1–2	57 (28.6)	70 (29.4)	
≥ 3	51 (25.6)	89 (37.4)	
Ethnicity (%)			
Malay	145 (72.9)	182 (76.5)	0.02*
Chinese	26 (13.1)	12 (5.0)	
Indian	28 (14.1)	44 (18.5)	
Marital Status (%)			
Married	195 (98)	237 (99.6)	0.06
Single/Widowed	4 (2)	1 (0.4)	
Education Level (%)			
Primary School	4 (2)	10 (4.2)	< 0.001*
Secondary School	70 (35.2)	133 (55.9)	
Tertiary School	125 (62.8)	95 (39.9)	
Monthly Household Income (%) ^b			
Low (< RM2500)	58 (29.1)	143 (60.1)	< 0.001*
Middle (RM2500-RM5599)	105 (52.8)	77 (32.4)	
High (≥ RM5600)	36 (18.1)	18 (7.6)	
Occupation (%)			
Managers & Professional	57 (28.6)	36 (15.1)	< 0.001*
Technician, Associate Professional, Clerical, Sales Workers	79 (39.7)	59 (24.8)	
Agricultural, Forestry, Fishery, Craft Workers, Plant and Machine Operators	6 (3)	10 (4.2)	
Unemployed	57 (28.6)	133 (55.9)	

^aReported in Mean (SD); LMP Last menstrual period, RM Ringgit Malaysia (1 USD = RM4.04);

^bBased on the cut-off of 11th Malaysia Plan 2016–2020; * Significance value at $p < 0.05$

Table 2 Maternal physical activity level in urban and rural pregnant women (n = 437)

	Urban n = 199	Rural n = 238	p-value
Intensity of Physical Activity (MET-hours/week)	Median (25th, 75th)	Median (25th, 75th)	
Total	186.1 (130.0, 248.5)	184.8 (127.6, 247.3)	0.748
Sedentary	74.2 (41.7, 104.4)	58.0 (30.7, 96.0)	0.003*
Moderate	15.8 (0.8, 44.8)	15.8 (4.8, 47.9)	0.383
Light	79.5 (52.2, 108.8)	88.2 (57.6, 115.7)	0.111
Vigorous	0 (0, 0)	0 (0, 0)	0.228
Type of Physical Activity			
Household	76 (45.2, 113.9)	82.8 (52.5, 124.6)	0.036*
Occupational	49 (0, 86.5)	0 (0, 71)	0.000*

($p < 0.001$). B ($p = 0.001$)
($p = 0.001$)

($p = 0.001$) 3). B

Maternal and infant characteristics

A. 437

235

4.

(39.5% 30.7%). B

AC, 23 31

26, 27

($p = 0.03$),

($p = 0.008$).

(10% 2%)

(3.9%, $n = 4$)

(3.9% 1.5%)

(34.46

33.32).

Risk factors for low birth weight infant in urban and rural pregnant women

($p < 0.05$).

B

AC ($R = 0.735$, 95% C = 0.567 0.952)

($R = 0.267$, 95% C = 0.097-0.737)

B

($p = 0.001$) 5).

($R = 1.332$, 95% C = 1.039 1.708)

B D

31.7%

B

Discussion

B

30. A

E

32.

F

B

B

13, 33

B

33.

B

33. 5 () 89.4(5.1(B 4.1(A 8%) -5 -512.123(,) -36 D () 16.5() -315.8(((()) 11.6(-) -8150-1.2206
 (A) -9.87 ' 37() D 86 (2 9 321.2(F) ((((764 D78) ((9 8 -622.6()-17) -611.9
 38 .78 68 89.-(B -3)-11.7 3.4 D (73) 1D (9() -137 8 -721.7.3() -723 (2)- --3)-11.4(3(-313.6(
 43 (A) (-7) 23 3(8.6(() -315.8(() 3) D.2(3133) D77 62.4() 0-1

