

Due to the small sample size and the non-normality of DPPDPHP and BDCPPBDCIPP, exact Wilcoxon rank sum test was used to compare the median difference of each variable listed in Tables 1 and 2. While no significant results were found for DPPDPHP and BDCPPBDCIPP, the mean of DPPDPHP and BDCPPBDCIPP are higher in patients who had miscarriages than those who delivered at full term (mean (SD): 1.3 (1.4) vs. 2.0 (2.2) for DPPDPHP; 0.4(0.6) vs. 0.8(1.1) for BDCPPBDCIPP). The median of these compounds is similar between these two groups (0.8 vs. 0.7 for DPPDPHP and 0.2 vs. 0.2 for BDCPPBDCIPP).

**Table 1: comparison between miscarriage and normal deliver groups**

	0 (N=15)	1 (N=3)	Total (N=18)	p value
<b>age</b>				0.2868
N	15	2	17	
Mean (SD)	29.7 (4.0)	26.5 (2.1)	29.3 (3.9)	
Median	29.0	26.5	28.0	
Q1, Q3	26.0, 32.0	25.0, 28.0	26.0, 32.0	
Range	(25.0-40.0)	(25.0-28.0)	(25.0-40.0)	
<b><u>DPPDPHP</u></b>				0.9118
N	15	3	18	
Mean (SD)	1.3 (1.4)	2.0 (2.2)	1.4 (1.5)	
Median	0.8	0.7	0.8	
Q1, Q3	0.6, 1.4	0.6, 4.5	0.6, 1.4	
Range	(0.4-5.9)	(0.6-4.5)	(0.4-5.9)	
<b><u>BDCPPBDCIPP</u></b>				0.7770
N	15	3	18	
Mean (SD)	0.4 (0.6)	0.8 (1.1)	0.4 (0.7)	
Median	0.2	0.2	0.2	
Q1, Q3	0.2, 0.2	0.2, 2.1	0.2, 0.2	
Range	(0.2-2.2)	(0.2-2.1)	(0.2-2.2)	

(report generated on 28MAY2016)

Due to the small sample size and the non-normality of **DPPDPHP** and **BDCPPBDCIPP**, exact Wilcoxon rank sum test was used to compare the median difference of each variable listed in Tables 1 and 2. While no significant results were found for **DPPDPHP** and **BDCPPBDCIPP**, the mean and median of **DPPDPHP** are higher in patients with gestational diabetes than those without gestational diabetes (mean (SD): 2.6 (2.4) vs. 1.4 (1.7) and median: 1.8 vs. 0.8).

**Table 2: comparison between patients with and without gestational diabetes**

	0 (N=19)	1 (N=4)	Total (N=23)	p value
<b>age</b>				0.7091
N	17	4	21	
Mean (SD)	29.1 (3.8)	31.3 (6.8)	29.5 (4.4)	
Median	28.0	30.0	28.0	
Q1, Q3	26.0, 31.0	26.0, 36.5	26.0, 32.0	
Range	(25.0-40.0)	(25.0-40.0)	(25.0-40.0)	
<b>Bweight</b>				0.0557
N	11	4	15	
Mean (SD)	3259.5 (431.4)	3872.5 (631.7)	3423.0 (545.1)	
Median	3095.0	3680.0	3300.0	
Q1, Q3	2995.0, 3530.0	3412.5, 4332.5	3060.0, 3560.0	
Range	(2865.0-4360.0)	(3380.0-4750.0)	(2865.0-4750.0)	
<b><u>DPPDPHP</u></b>				0.1884
N	19	4	23	
Mean (SD)	1.4 (1.7)	2.6 (2.4)	1.6 (1.8)	
Median	0.8	1.8	0.8	
Q1, Q3	0.6, 1.4	0.9, 4.2	0.6, 1.5	
Range	(0.4-7.3)	(0.7-5.9)	(0.4-7.3)	
<b><u>BDCPPBDCIPP</u></b>				0.5623
N	19	4	23	
Mean (SD)	0.4 (0.6)	0.2 (0.0)	0.4 (0.6)	
Median	0.2	0.2	0.2	
Q1, Q3	0.2, 0.2	0.2, 0.2	0.2, 0.2	
Range	(0.2-2.2)	(0.2-0.2)	(0.2-2.2)	

### Multivariable logistic regression:

Since birthweight for DPPDHP is close to nominal significance for gestational diabetes, we conducted multivariable logistic regression model to test the effect of DPPDHP on gestational diabetes with adjustment of birthweight.

**Table 3: Multivariable logistic regression for gestational diabetes**

Variable	OR (95% CI)	p
Birth weight	1.00 (0.99, 1.006)	0.158
<u>DPPDHP</u>	4.63 (0.16, 133.88)	0.3725

**Table 4: Pairwise Spearman correlation for age, birthweight, DPPDHP, and BDCPPBDCIPP**

Correlation coefficient (r) (p value)	Age	Birthweight	<u>DPPDHP</u>	<u>BDCPPBDCIPP</u>
Age	1	0.161 (0.565)	-0.160 (0.489)	0.197 (0.391)
Birthweight		1	0.211 (0.451)	-0.319 (0.246)
<u>DPPDHP</u>			1	-0.275 (0.204)
<u>BDCPPBDCIPP</u>				1