/\*\* Feb 23, 2018 sub-groups compared by study\*\*/

**PROC** **IMPORT** DATAFILE= 'c:\Sarah\Manuscripts\2017\_DDW\_BK\2018Feb23\_DDW\_data.csv' DBMS=csv

OUT=GROWTH REPLACE;

GETNAMES=YES;

GUESSINGROWS=**355**;

**RUN**;

**proc** **contents**;

**run**;

**proc** **print**;

**run**;

/\*\*Table 1.\*\*/

**proc** **sort** data=growth;

by BMI\_cat;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*study / chisq exact;

**run**;

**proc** **sort** data=growth;

by age\_cat;

**run**;

**proc** **freq** data=growth;

tables age\_cat\*study / chisq exact;

**run**;

**proc** **sort** data=growth;

by parity\_cat;

**run**;

**proc** **freq** data=growth;

tables parity\_cat\*study / chisq exact;

**run**;

/\*\* Table 1. BMI categories compared by study\*\*/

/\*\*normal\*\*/

**data** BMI;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 8 25

BABY 6 15

;

**proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*overweight\*\*/

**data** BMI;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 3 25

BABY 5 15

;

**proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*obese\*\*/

**data** BMI;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 14 25

BABY 4 15

;

**proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*BMI catogories compared by study\*\*/

/\*\* Table 1. age groups compared by study\*\*/

/\*\*20to 24\*\*/

**data** age;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 1 25

BABY 1 15

;

**proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*25 to 29\*\*/

**data** age;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 8 25

BABY 2 15

;

**proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*30 to 34\*\*/

**data** age;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 8 25

BABY 6 15

;

**proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*35 to 39\*\*/

**data** age;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 8 25

BABY 6 15

; **proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*age groups compared by study\*\*/

/\*\*Table 1. parity compared by study\*\*/

/\*\*one\*\*/

**data** parity;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 9 25

BABY 5 15

; **proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*two\*\*/

**data** parity;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 10 25

BABY 10 15

; **proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\* 3 or more\*\*/

**data** parity;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

ARCH 6 25

BABY 0 15

; **proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*\*Parity compared by study\*\*/

/\*\*Fig 1. correlation between BMI and DDW score\*\*/

**proc** **univariate** data=growth plots;

var BMI ;

by BMI\_cat;

**run**;

**proc** **corr** data=growth spearman ;

var BMI MDDW\_total;

**run**;

/\*\*end\*\*/

/\*\*Fig 2. comparison among those achieving DDW score >5 by BMI category\*\*/

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5 / chisq;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5 / chisq exact;

**run**;

/\*end\*/

/\*\*Fig 2. comparison among those achieving DDW score >5 by BMI category normal versus obese\*\*/

**data** meetMDDW;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

Normal 12 14

Obese 7 18

; **proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*end\*/

/\*\*fig 2. comparison among those achieving DDW score >5 by BMI category overweight versus obese\*\*/

**data** meetMDDW;

input Normal $ NumYes Total;

Response="Yes"; Count=NumYes; output;

Response="No "; Count=Total-NumYes; output;

datalines;

Overweight 7 8

Obese 7 18

; **proc** **print** noobs;

var normal Response Count;

**run**;

**proc** **freq** order=data;

weight Count;

table normal \* Response / chisq exact riskdiff;

**run**;

/\*end\*/

/\*\*Fig 3. comparison among DDW scores by BMI category\*\*/

**proc** **npar1way** data=growth wilcoxin DSCF;

var MDDW\_total;

class BMI\_cat;

**run**;

/\*end\*/

/\*\*Figure 4 and data not shown. low nutrient density food comparisons\*\*/

**proc** **sort** data=growth;

by BMI\_cat;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*savory / chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*sweets / chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*sweet\_drinks / chisq exact;

**run**;

**proc** **sort** data=growth;

by study;

**run**;

**proc** **freq** data=growth;

tables study\*savory / chisq exact;

**run**;

**proc** **freq** data=growth;

tables study\*sweets / chisq exact;

**run**;

**proc** **freq** data=growth;

tables study\*sweet\_drinks / chisq exact;

**run**;

/\*\*end low nutrient density foods\*\*/

/\*\*Table 2. MDDW categories by BMI categories and if they met minimum dietary diversity\*\*/

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_grains;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_grains / chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_pulses;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_pulses/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_nuts;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_nuts/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_dairy;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_dairy/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_meat;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_meat/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_eggs;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_eggs/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_darkGreen;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_darkgreen/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_vitARich;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_vitArich/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_veggies;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_veggies/ chisq exact;

**run**;

**proc** **freq** data=growth;

tables BMI\_cat\*MDDW\_above\_5\*MDDW\_fruit;

**run**;

**proc** **freq** data=growth;

tables MDDW\_above\_5\*MDDW\_fruit/ chisq exact;

**run**;