Appendices

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Appendix 1: Using Microsoft Access 2010 to create new tables and forms within an existing database.

You first need to create a table in order to turn it into a form and thus a user-friendly database that is easy to read and query.

1. **Creating a table:**

   - Click the "Create" tab at the top of the screen.
   - Click "table design"
   - In the first "field name" box write in your identifying piece of data (e.g. PM number)
   - In "data type" scroll down to text and double click.

     Note 1: the "data type" box creates areas in your form (see later). For all numerical values and letters where you DO NOT need to do any calculations, click text. For numbers that require calculations click "number". For text boxes that allow more than 255 characters, click "memo".

     Note 2: The description box allows you to write notes for future users of the system.

   - Continue to add your required fields and data types for the information you would like to store.
   - Save the table by clicking the "file" tab, then "save object as" and save as a "table" with your designed title.
   - You can then use the "X" sign highlighted by a yellow background at the upper right corner of the screen (below the big X close sign) to close that window within access.

2. Creating a form from your table:

- The easiest way to do this is to click the “create” tab and then “form”. This should ask you which table you want to make a form out of. Click on the title of the table you have just saved.
- A form will automatically appear in the access window with your initial fields added into it.
- Save this in the same way as the table, however save as a FORM not a table.

3. Adding a form to your database:

- If you have a tabbed database, click onto the main page. Click the “HOME” tab at the top of the page.
- Click “View” at the top left of the ribbon bar and then click “design view”.
- Click onto the top of one of your tabs within the main database.
- Under “form design tools” there is a tab for “design” – click this.
- A selection of symbols will appear. If you hover over them their functions appears in a text box.
- Click the one called “insert page” with the symbol of a tabbed file with a star on the tab.
- A new tab should appear in your database.
- You can then use the “tab order” button (on the left hand side of the ribbon) to change the order of your tabs as necessary.
- Save the database by clicking the save symbol at the top of the page (above file).

- To add the form you have created to this new tab, under “form design tools” and “design” there is a symbol called “Subform/Subreport” (looks like a newspaper). Click this and a box will appear asking which table or form you want to add into the database.
- Click on the FORM version of the file you created. It should then appear in your database.
- Save the whole database again as described above.
- Save the database by also going to the “home” tab and clicking “save” – this is under the subheading of “records” in the ribbon at the top of the page.

Appendix 2: How to input data into new tabs: Antenatal; Delivery details, placental details; consent details and classification of cause of loss

Antenatal details:

- **PM number**: Add in current PM number
- **Folic Acid Supplement taken**: This is a drop down box – click yes, no or not given. Not given is used when there is no documentation as to whether folic acid was taken or not.
- **Maternal Height**: Enter this in metres e.g. 1.70
- **Maternal weight**: Enter in Kilograms
- **Maternal BMI**: You can calculate it manually in the following way; weight / height ^{2}
    - The weight MUST be in Kg and the height MUST be in metres.
    - BMI < 18.5 = underweight
    - BMI 18.5 – 24.9 = healthy range
    - BMI >25: overweight
    - BMI > 30: obese [(1)]
- **Anaemia**: Drop down box. Click, Yes, No or not given. Not given is used when no information is not supplied.
- **Rhesus D status**: Drop down box. Click positive, negative or not given. Not given is used when the information is not supplied.
- **If Rhesus Negative, was anti D given**: Only complete this section is mother rhesus negative. Drop down box- click yes, no or not given. Not given is used when no information is supplied.

- **Sickle Cell:** Drop down box. Click yes, no, not given. Not given is used when no information is supplied.
- **Thalasaemia**: Drop down box. Click yes, no, not given. Not given is used when no information is supplied.
- **Rubella Antibody**: Drop down box. Click yes for mother is immune, no for not immune or not given Not given is used when no information is supplied.
- **Proteinuria**: drop down box. Click yes, no, not given. Not given is used when no information is supplied.
    - Significant proteinuria is defined as more than 300mg of protein in a 24-hour urine collection or more than 30mg/mmol in a spot urinary protein: creatinine sample.[(2)]
- **Evidence of infection**: Drop down box. Click no, urinary infection, vaginal infection, other.
- **Details of any infection in this pregnancy**: This is a large memo box.
    - A positive urinary dipstick test is defined as:
        - More than a trace of blood
        - More than a trace of protein
        - Any positive result for nitrite
        - Any positive result for leucocyte esterase [(3)]
    - If there is a/many positive high vaginal swab(s) give details of organisms isolated e.g. group B strep etc.
    - Provide details of any other infections- acute/chronic, local/systemic.
    - Provide details of treatment given if information available.

- **Maternal blood pressure**: Drop down box- click within normal limits or hypertension.
    - Gestational Hypertension is defined as new hypertension presenting after 20 weeks without significant proteinuria;
        - **Mild**: 140/90 to 149/99mmHg
        - **Moderate**: 150/100 to 159/1090 mmHg
        - **Severe**: 160/110mmHg [(2)]
    - If the mother has chronic hypertension state as hypertension. Chronic hypertension is described as: hypertension that is present at the booking visit before 20 weeks or if the woman is already taking antihypertensive medication when referred to maternity services. It can be primary or secondary in aetiology. [(2)]
- **If hypertension give details**: This is a memo box for you to write free text providing details of blood pressure readings/ medication used. Discuss any complications developed e.g. pre-eclampsia etc.
    - Pre-eclampsia is defined as "new hypertension presenting after 20 weeks gestation with significant proteinuria" [(2)]
    - Severe pre-eclampsia is defined as "pre-eclampsia with severe hypertension and /or with symptoms and/ or biochemical and/ or haematological impairment." [(2)]
- **Downs Syndrome Screening**: Drop down box. Click yes, no or not given. Not given is used when no information is supplied.
- **If Yes provide details**: Enter the Down 's syndrome screening adjusted risk ratio if provided in the notes and details of any chorionic villous sampling (CVS) or amniocentesis that has been undertaken.
- **Dating foetal ultrasound scan**: Drop down box. Click either, normal, anomaly, IUGR (intrauterine growth restriction) or intrauterine death. These details should be written on the foetal ultrasound scan reports.

- IUGR is defined as <10th centile of reference curve. [3]

- **USS Doppler of uterine artery (dating)**: This doppler scan may be done at the dating scan and if it was will be recorded with the other details of the scan. Drop down box – click normal, abnormal, not done or not stated.
- **If Abnormal (UA** (– this is uterine artery)**) resistance index**? : State the PI and Vmax values.
- **USS Doppler of umbilical artery (dating)**: Drop down box. Click normal, abnormal, not done or not stated.
- **If abnormal (UmA** (-umbilical artery)**) resistance index? :** State the PI and Vmax values.
- **Gestation of dating scan and details of any anomalies:** This is a large memo box for free text.
- **The anomaly foetal ultrasound scan boxes and their equivalent Doppler USS boxes are to be completed in the same format as above.**
- **Mother known to have Diabetes Mellitus prior to pregnancy:** Drop down box. Click yes, no or not given. Not given is used when no information is supplied.
- **If yes, was insulin routinely taken:** Drop down box. Click yes, no or not given. Not given is used when no information is supplied.
- **Gestational diabetes:** Drop down box. Click yes, no or not given. Not given is used when no information is supplied.
    - Gestational diabetes is defined as "carbohydrate intolerance resulting in hyperglycaemia of variable severity with onset or first recognition during pregnancy and with return to normal after birth"[3]
- **Other current obstetric history**: this is a large memo box for free text for any information you feel is relevant to this pregnancy that has not already been recorded elsewhere. This includes any medication the mother is talking during pregnancy and also details leading up to the intrauterine or intra-partum death. Information about the mothers past medical history is also to be included in this memo box, for example if the mother has fibroids.

Delivery details:

- **PM number**: enter current PM number
- **Gestation at delivery**: Give as weeks plus days e.g. 32+4 means 32 weeks and 4 days.
- **Tick the correct box for what type of delivery it is**. Two boxes can be ticked e.g. if the delivery was induced and vaginal, tick both of these boxes.
- **If the delivery was a caesarean delivery tick caesarean and then tick whether it was a planned or emergency caesarean section and provide details in the memo box labelled "if caesarean, provide details"**. Details should include why the caesarean was carried out e.g. breech presentation.
- **Cord pH**: This value will be written in the delivery notes if present. Do not enter anything in this box if no cord pH is found in the notes.
- **Intrapartum events**: Drop down box for intrapartum complications Click either none, cord prolapse, shoulder dystocia, antepartum haemorrhage, twin complications, fetal distress or other. If more than one complication was encountered or one that is not in the drop down list, click other and then enter all the events into the free text box below labelled "if other, provide details.
- **Intrapartum fetal death**: Intrapartum foetal death is a death that occurs during delivery. Drop down box. Click yes or no.
- **If yes, provide details:** This is a large memo box for you to add in the details of the intrapartum death. Include the history of events in labour leading to death.
- **Foetal maceration:** Drop down box. Click mild, moderate, severe or other description. Provide description details in the memo box **"if other, provide details**".

Placental Details:

- **PM number:** enter current PM number
- **Placental weight**: This should be the TRIMMED placental weight and recorded in grams.
- **Tick a box to state if this was a single placenta or multiple placentas.** If multiple provide details in the box below called **"if multiple, provide details".** Enter details about if this was a twin or triplet placenta
- **Cord length**: measured in centimetres
- **Coiling index**: This is the ratio of coils in the cord per 10cm of cord.
- **Number of vessels in cord**: Drop down box. Click, 2,3,4 or other. If other – give details in box below labelled **"vessels – if other, details".**
- **Cord insertion**: Drop down box. Click central, eccentric, marginal, membranous, vellomentous, fucarta or other.
- **The next set of boxes are all drop down boxes or further detail memo boxes**. For the cord, membranes and placenta add in correct details for the macroscopic and microscopic descriptions. If there is more than one abnormality in the same category e.g. there is funisitis and angititis of the cord, click other in the drop down box and write the abnormalities in the free text box for "**cord other**".

Consent

- **PM Number**: add in current PM number
- **Hospital completing PM**: drop down box. Click either, Great Ormond Street or St Georges.

- **Tick a box for either complete PM, limited PM or external examination only.** If limited state in the **"if yes"** free text box what the PM was limited to e.g. chest or thorax etc.
- **Further examination of organs**: Drop down box. Click yes or no.
- **Organs examined further** – list the organs that parents have stated they consent to be examined further.
- **Disposal:** Drop down box. Click the description that is ticked on the consent form.
- **Tick the relevant boxes indicating "yes" if the parents consented to genetic testing, training and research to be completed on the foetal tissue**. **If the answer was no to any of these, leave the boxes un-ticked**

Classification of cause of loss and risk factors:

- **Cause of loss:** This is a drop down box. Click the option which classifies the cause of death. The options include:
    - Unexplained
    - Congenital anomalies
    - Infection (any infection except ascending vaginal infection)
    - Ascending infection
    - Abruption
    - Pre-eclampsia
    - Known IUGR (intrauterine growth restriction)

- Known cord accident (e.g. cord prolapse)
- Metabolic
- Other

- **Risk Factors:** These factors are tick boxes – if the mother has one or more of these risk factors, tick the appropriate boxes – leave blank for no. The risk factors include:
  - Obesity
  - GDM (gestational diabetes mellitus)
  - IDDM (insulin dependent diabetes mellitus)
  - Post term (i.e. delivery after 40/40 gestation)
  - IUG SGA detected at PM (Intrauterine growth small for gestational age detected at post-mortem)
  - Previous SB (previous fetal loss either miscarriage or stillbirth)

- **Abnormalities detected at PM (post-mortem):** Drop down box. Click none, placental abnormalities, cord abnormalities or organ abnormalities.

- **Cause of death:**
  - **Pathologists opinion**: Write in this memo box the pathologists opinion on the cause of death
  - "**Does this opinion match our classification?"** Tick this box if the pathologist's opinion matching our classification system.

- **Review opinion – final cause of death:** This is a memo box that should be left blank whilst completing data entry and reviewed when all data has been inputted.

***Note 3*: 1(a) cause of death on the Diagnosis tab should be classified in the following manner and should be also added into the cause of death memo box and the final other cause of death box at the bottom of the form in the diagnosis tab.**

Type of stillbirth	**1(a) cause of death to be entered**
Antepartum stillbirth with products retained <24 hours in utero	Stillbirth1
Antepartum stillbirth with products retained >24 hours in utero	Stillbirth2
Intrapartum detected stillbirth (Known)	Stillbirth3
Intrapartum undetected "fresh" stillbirth	Stillbirth4

References:

(1) http://www.nhs.uk/Livewell/loseweight/Pages/BodyMassIndex.aspx

Accessed 20.11.14

(2) Royal College of Obstetricians and Gynaecologists. Hypertension in Pregnancy: the management of hypertensive disorders during pregnancy. August 2010. NICE Clinical Guidance. Available online at: http://www.nice.org.uk/nicemedia/live/13098/50475/50475.pdf

Accessed: 27.08.13

(3) National Collaborating Centre for Women's and Children's Health. Antenatal Care routine care for the healthy pregnant woman. March 2008. Available online at:

http://www.nice.org.uk/nicemedia/live/11947/40145/40145.pdf Accessed: 27.08.13

Appendix 3: Statistical Tests

Chapter 3: Population Demographics

Chi-square			
Chi-square, df	0.004082, 1		
z	0.06389		
P value	0.9491		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Spring/Summer	228	341	569
Autumn/Winter	195	294	489
Total	423	635	1058

Chi-square			
Chi-square, df	0.3138, 1		
z	0.5602		
P value	0.5753		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Spring	99	140	239

Summer	129	201	330
Total	228	341	569

Chi-square	
Chi-square, df	0.06642, 1
z	0.2577
P value	0.7966
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriage	Stillbirth	Total
Summer	129	201	330
Winter	92	137	229
Total	221	338	559

Chi-square	
Chi-square, df	1.381e-007, 1
z	0.0003716
P value	0.9997
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Stillbirth	Miscarriage	Total
Male	348	221	569
Female	285	181	466
Total	633	402	1035

Table Analyzed	Data 41		
Chi-square			
Chi-square, df	0.1452, 1		
z	0.3811		
P value	0.7031		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Observed male	221	348	569
Expected male	213	320	533
Total	434	668	1102

Table Analyzed	Data 42		
Chi-square			
Chi-square, df	0.1309, 1		
z	0.3618		
P value	0.7175		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriages	Stillbirth	Total
Observed females	181	285	466
Expected females	213	320	533
Total	394	605	999

Column B	Miscarriage
vs.	vs.
Column A	Stillbirth
Mann Whitney test	
P value	0.6448
Exact or approximate P value?	Exact
P value summary	ns
Significantly different? (P < 0.05)	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	73 , 63
Mann-Whitney U	27
Difference between medians	
Median of column A	67.50, n=8
Median of column B	41.50, n=8
Difference: Actual	-26.00
Difference: Hodges-Lehmann	-17.00

Column B	Our population
vs.	vs.
Column A	National Data
Mann Whitney test	
P value	0.0012
Exact or approximate P value?	Exact
P value summary	**
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	120 , 51

Mann-Whitney U	6
Difference between medians	
Median of column A	30650, n=9
Median of column B	80.00, n=9
Difference: Actual	-30570
Difference: Hodges-Lehmann	-30570

Column B	Our population stillbirths
vs.	vs.
Column A	National data stillbirths
Mann Whitney test	
P value	0.1606
Exact or approximate P value?	Exact
P value summary	ns
Significantly different? (P < 0.05)	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	102 , 69
Mann-Whitney U	24
Difference between medians	
Median of column A	183.0, n=9
Median of column B	40.00, n=9
Difference: Actual	-143.0
Difference: Hodges-Lehmann	-147.0

Table Analyzed	Mat age nat vs stil
Column B	Our Stillbirth maternal age
vs.	vs.
Column A	National data maternal age
Mann Whitney test	
P value	0.0003
Exact or approximate P value?	Exact
P value summary	***
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	123 , 48
Mann-Whitney U	3
Difference between medians	
Median of column A	30650, n=9
Median of column B	40.00, n=9
Difference: Actual	-30610
Difference: Hodges-Lehmann	-30610

Column B	Our population - miscarriage
vs.	vs.
Column A	National data - miscarriage
Mann Whitney test	
P value	0.0008
Exact or approximate P value?	Exact
P value summary	***
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	121 , 50
Mann-Whitney U	5
Difference between medians	
Median of column A	3845, n=9
Median of column B	40.00, n=9
Difference: Actual	-3805
Difference: Hodges-Lehmann	-3805

Table Analyzed	Mat age nat vs mis
Column B	Miscarriages
vs.	vs.
Column A	National data
Mann Whitney test	
P value	< 0.0001
Exact or approximate P value?	Exact
P value summary	****
Significantly different? (P < 0.05)	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	125 , 46
Mann-Whitney U	1
Difference between medians	
Median of column A	30650, n=9
Median of column B	40.00, n=9
Difference: Actual	-30610
Difference: Hodges-Lehmann	-30610

Chi-square			
Chi-square, df	17.15, 1		
z	4.141		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	No. of stillbirths	No. of miscarriages	Total
White	311	158	469
Non-white	144	138	282
Total	455	296	751

Chi-square			
Chi-square			
Chi-square, df	15.55, 1		
Z	3.944		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analysed	Stillbirth	Miscarriage	Total
Black- black british African	69	80	149
All other ethnicity	385	217	602
Total	454	297	751

Chi-square	
Chi-square, df	0.03569, 1
z	0.1889

P value	0.8502		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Asian	24	34	58
Not Asian	282	421	703
Total	306	455	761

Fisher's exact test			
P value	1.0000		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Mixed Ethnicity	2	3	5
Other Ethnicty	295	452	747
Total	297	455	752

Chi-square, df	20.00, 1		
z	4.472		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Miscarriage	Stillbirth	Total
White	158	311	469
Black	107	99	206
Total	265	410	675

Chi-square			
Chi-square, df	787.4, 1		
z	28.06		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	National data all births	Our total population	Total
Black	33105	206	33311
Not black	626974	545	627519
Total	660079	751	660830

Column B	No. of stillbirths
vs.	vs.
Column A	No of miscarriages
Unpaired t test	
P value	0.3793
P value summary	Ns
Significantly different? (P < 0.05)	No
One- or two-tailed P value?	Two-tailed
t, df	t=0.8823 df=127
How big is the difference?	
Mean ± SEM of column A	3.169 ± 0.6227, n=65
Mean ± SEM of column B	4.047 ± 0.7777, n=64
Difference between means	0.8776 ± 0.9947
95% confidence interval	-1.091 to 2.846
R squared	0.006093
F test to compare variances	
F,DFn, Dfd	1.536, 63, 64
P value	0.0895
P value summary	Ns
Significantly different? (P < 0.05)	No

Chi-square	
Chi-square, df	0.5787, 1
z	0.7607
P value	0.4468
P value summary	ns
One- or two-tailed	Two-tailed

Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Overweight	72	81	153
Obese	61	82	143
Total	133	163	296
Chi-square			
Chi-square, df	0.4367, 1		
z	0.6608		
P value	0.5087		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillburth	Total
Normal weight	72	94	166
Overwiehgt	72	81	153
Total	144	175	319

Chi-square			
Chi-square, df	0.01607, 1		
z	0.1268		
P value	0.8991		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
BMI normal	72	94	166
BMI obese	61	82	143
Total	133	176	309

P value	0.3897
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriage	Stillbirth	Total
BMI underweight	1	4	5
BMI Normal	205	257	462
Total	206	261	467

Fisher's exact test

P value	0.3997
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriage	Stillbirth	Total
BMI underweight	1	4	5
BMI obese	61	82	143
Total	62	86	148

Chi-square	
Chi-square, df	12.40, 4
P value	0.0146
P value summary	*
One- or two-tailed	NA
Statistically significant? (alpha<0.05)	Yes
Data analyzed	
Number of rows	5
Number of columns	2

Fisher's exact test

P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	National data	Study population	Total
Normal BMI	275	166	441
Obese	116	143	259
Total	391	309	700

Chi-square	
Chi-square, df	19.16, 1
z	4.377
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	No of miscarriages	No. of stillbirths	Total
Primigravida	109	247	356
Not primigravida	287	354	641
Total	396	601	997

Chi-square			
Chi-square, df	14.31, 1		
Z	3.782		
P value	0.0002		
P value summary	***		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analysed	Miscarriage	Stillbirth	Total
Primigravida	109	247	356
G1+P0	80	88	168
Total	189	335	524

Chi-square			
Chi-square, df	12.56, 1		
z	3.545		
P value	0.0004		
P value summary	***		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Miscarriages	Stillbirth	Total
PV bleeding	42	28	70
No PV bleeding	383	611	994
Total	425	639	1064

Chi-square			
Chi-square, df	13.99, 1		
z	3.740		
P value	0.0002		
P value summary	***		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Miscarriage	Stillbirth	Total
Maternal Fiobroids	30	15	45
No maternal fibroids	395	624	1019
Total	425	639	1064

Chi-square			
Chi-square, df	14.48, 1		
z	3.805		
P value	0.0001		
P value summary	***		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Miscarriages	Stillbirth	Total
IVF	27	12	39
Not IVF	398	627	1025
Total	425	639	1064

Chi-square			
Chi-square, df	5.811, 1		
z	2.411		
P value	0.0159		
P value summary	*		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Miscarriage	Stillbirth	Total
No Diabetes	400	582	982
Diabetes	16	47	63
Total	416	629	1045
Fisher's exact test			
P value	1.0000		
P value summary	ns		

One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
DM	7	19	26
Gestastional DM	9	28	37
Total	16	47	63

Chi-square			
Chi-square, df	16.68, 1		
z	4.085		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Miscarriage	Stillbirth	Total
Normal BP	406	553	959
Hypertension	17	69	86
Total	423	622	1045

Fisher's exact test			
P value	0.7731		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
Chronic Hypertension	6	19	25
Pregnancy induced	10	25	35
Total	16	44	60

Fisher's exact test

P value	0.0496
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analysed	Miscarriage	Stillbirth	Total
Chronic Hypertension	6	19	25
Pre-eclampsia	1	25	26
Total	7	44	51

Fisher's exact test

P value	0.0173
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Miscarriage	Stillbirth	Total
Pregnancy induced	10	25	35
Pre-eclampsia	1	25	26
Total	11	50	61

Chi-square	
Chi-square, df	0.8830, 1
z	0.9397

P value	0.3474		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	National data	Study population	Total
Hypertension	34244	60	34304
No Hypertension	637011	985	637996
Total	671255	1045	672300

Chi-square			
Chi-square, df	2.911, 1		
z	1.706		
P value	0.0880		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Miscarriage	Stillbirth	Total
No infection	375	583	958
Infection	51	56	107
Total	426	639	1065

Table Analyzed	Data 1		
Chi-square			
Chi-square, df	49.65, 1		
z	7.046		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Ascending Infection	Not ascending Infection	Total
Black	69	137	206
Non-Black	63	482	545
Total	132	619	751

Chapter 4: Cause of Death

Table Analyzed	Data 1			
Chi-square				
Chi-square, df	5.862, 1			
z	2.421			
P value	0.0155			
P value summary	*			
One- or two-tailed	Two-tailed			
Statistically significant? (alpha<0.05)	Yes			
Data analyzed	Miscarriages	Stillbirths	Total	
Abruption	8	30	38	

Not Abruption	417	609	1026
Total	425	639	1064

Table Analyzed Data 3

Chi-square	
Chi-square, df	5.707, 1
z	2.389
P value	0.0169
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Miscarriages	Stillbirths	Total
Infection	1	12	13
Not infection	424	627	1051
Total	425	639	1064

Table Analyzed Data 1

Chi-square	
Chi-square, df	61.89, 1
z	7.867
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Miscarriages	Stillbirths	Total

AI	117	59	176
Not AI	308	580	888
Total	425	639	1064

Table Analyzed	Data 4

Chi-square	
Chi-square, df	0.1693, 1
z	0.4114
P value	0.6808
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriages	Stillbirths	Total
Know CA	2	2	4
Not CA	423	637	1060
Total	425	639	1064

Table Analyzed	Data 2

Chi-square	
Chi-square, df	3.120, 1
z	1.766
P value	0.0773
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriages	Stillbirths	Total

CA	14	36	50
Not CA		411	603	1014
Total	425	639	1064

Table Analyzed Data 5

Chi-square
Chi-square, df 22.33, 1
z 4.725
P value< 0.0001
P value summary ****
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) Yes

Data analyzed	Miscarriages	Stillbirths	Total
Placenta	5	49	54
Not Placenta	420	590	1010
Total	425	639	1064

Table Analyzed Data 6

Chi-square
Chi-square, df 2.642, 1
z 1.625
P value0.1041
P value summary ns
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) No

Data analyzed	Miscarriages	Stillbirths	Total
Twin complication	12	9	21

Not Twin	413	630	1043
Total	425	639	1064

Table Analyzed	Data 7

Chi-square	
Chi-square, df	18.66, 1
z	4.32
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Miscarriages	Stillbirths	Total
Unexplained lesion	29	100	129
Other	396	539	935
Total	425	639	1064

Table Analyzed	Data 8

Chi-square	
Chi-square, df	0.4415, 1
z	0.6644
P value	0.5064
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriages	Stillbirths	Total
Unexplained obese	36	47	83
Other	389	592	981
Total	425	639	1064

Table Analyzed Data 9

Chi-square
Chi-square, df 16.71, 1
z 4.088
P value< 0.0001
P value summary ****
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) Yes

Data analyzed	Miscarriages	Stillbirths	Total
Unexplained with previous loss	59	41	100
Other	366	598	964
Total	425	639	1064

Table Analyzed Data 10

Chi-square
Chi-square, df 0.7971, 1
z 0.8928
P value0.372
P value summary ns
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) No

Data analyzed	Miscarriages	Stillbirths	Total
Unexplained unexplained	123	169	292
Other	302	470	772
Total	425	639	1064

Table Analyzed Data 11

Chi-square	
Chi-square, df	1.189, 1
z	1.09
P value	0.2756
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriages	Stillbirths	Total
UE with DM	7	17	24
Other	418	622	1040
Total	425	639	1064

Table Analyzed Data 12

Chi-square	
Chi-square, df	2.023, 1
z	1.422
P value	0.1549
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Miscarriages	Stillbirths	Total
Black AI	49	20	69
White AI	28	20	48
Total	77	40	117

Table Analyzed	Data 13

Chi-square	
Chi-square, df	54.05, 1
z	7.352
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Black	White	Total
AI	69	48	117
Not AI	137	421	558
Total	206	469	675

Table Analyzed	Data 14

Chi-square	
Chi-square, df	16.82, 1
z	4.101
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	White	Other	Total
UE	315	147	462
Other COD	154	135	289
Total	469	282	751

Table Analyzed Data 17

Chi-square
Chi-square, df 4.989, 1
z 2.234
P value0.0255
P value summary *
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) Yes

Data analyzed	Mothers < 40 years old	Mothers > 40 years old	Total
Placental COD	50	6	56
Other COD	941	42	983
Total	991	48	1039

Table Analyzed Data 18

Chi-square
Chi-square, df 1.767, 1
z 1.329
P value0.1838
P value summary ns
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) No

Data analyzed	Mothers < 40 years old	Mothers >40 years old	Total

UE COD	611	25	636
Other COD	380	23	403
Total	991	48	1039

Table Analyzed	Data 3

Chi-square

Chi-square, df	6.627, 1
z	2.574
P value	0.0100
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	DM	No DM	Total
Twin complication	4	17	21
Not Twin	59	984	1043
Total	63	1001	1064

Table Analyzed	Data 1

Chi-square

Chi-square, df	1.234, 1
z	1.111
P value	0.2667
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	DM	No DM	Total
Unexplained	43	613	656

Not unexplained	20	388	408
Total	63	1001	1064

Table Analyzed	Data 2

Chi-square

Chi-square, df	0.7164, 1
z	0.8464
P value	0.3973
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	DM	No DM	Total
AI	8	168	176
Not AI	55	833	888
Total	63	1001	1064

Table Analyzed	Data 4

Chi-square

Chi-square, df	1.448, 1
z	1.203
P value	0.2288
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	DM	No DM	Total
CA	1	49	50
Not CA	62	952	1014

Total	63	1001	1064

Table Analyzed Data 5

Chi-square

Chi-square, df	0.1584, 1
z	0.3980
P value	0.6906
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	DM	No DM	Total
Placenta COD	4	52	56
Not Placenta COD	59	949	1008
Total	63	1001	1064

Table Analyzed Data 6

Chi-square

Chi-square, df	1.262, 1
z	1.123
P value	0.2612
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	DM	Not DM	Total
Pre eclamp	2	14	16
Not pre eclamp	61	987	1048
Total	63	1001	1064

Table Analyzed	Data 7

Chi-square

Chi-square, df	6.501, 1
z	2.550
P value	0.0108
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	BP	No BP	Total
UE	42	614	656
Not UE	44	364	408
Total	86	978	1064

Table Analyzed	Data 8

Chi-square

Chi-square, df	3.150, 1
z	1.775
P value	0.0759
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	BP	No BP	Total
Abruption	6	32	38
Not abruption	80	946	1026
Total	86	978	1064

Table Analyzed	Data 9

Chi-square

Chi-square, df	3.552, 1
z	1.885
P value	0.0595
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	BP	No BP	Total
AI	8	168	176
Not AI	78	810	888
Total	86	978	1064

Table Analyzed Data 10

Chi-square

Chi-square, df	1.177, 1
z	1.085
P value	0.2779
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	BP	No BP	Total
CA	2	48	50
Not CA	84	930	1014
Total	86	978	1064

Table Analyzed Data 11

Chi-square

Chi-square, df	0.9445, 1
z	0.9719

P value	0.3311
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	BP	NO BP	Total
Infection	2	11	13
Not infection	84	967	1051
Total	86	978	1064

Table Analyzed Data 12

Chi-square

Chi-square, df	10.63, 1
z	3.261
P value	0.0011
P value summary	**
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	BP	No BPO	Total
Placenta COD	11	45	56
Not placental COD	75	933	1008
Total	86	978	1064

Table Analyzed Data 21

Chi-square

Chi-square, df	88.51, 1
z	9.408
P value	< 0.0001

P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Macerated	Not macerated	Total
UE COD	408	128	536
Other COD	162	196	358
Total	570	324	894

Table Analyzed	Data 2
Chi-square	
Chi-square, df	17.36, 1
z	4.166
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Antepartum stillbirth	Intrapartum stillbirth	Total
Unexplained death	276	56	332
Not UE COD	135	65	200
Total	411	121	532

Table Analyzed	Data 1

Chi-square	
Chi-square, df	12.83, 1
z	3.581
P value	0.0003
P value summary	***
One- or two-tailed	Two-tailed

Statistically significant? (alpha<0.05)	Yes

Data analyzed	Non Mac	Any Mac	Total
UE COD	128	408	536
All other COD exclud AI	71	119	190
Total	199	527	726

Table Analyzed	Data 1
Chi-square	
Chi-square, df	0.08420, 1
z	0.2902
P value	0.7717
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	PM interval 1-9	PM interval 9-17+	Total
unexplained cod	377	270	647
Not unexplained death	232	160	392
Total	609	430	1039

Chapter 5: Intrauterine Growth restriction and SGA

Table Analyzed	Data 6		
Chi-square			
Chi-square, df	7.818, 1		
z	2.796		
P value	0.0052		
P value summary	**		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Non SGA	SGA	Total
CA COD	11	17	28
Not CA COD	330	175	505
Total	341	192	533

Table Analyzed	Data 5		
Chi-square			
Chi-square, df	34.77, 1		
z	5.897		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Non SGA	SGA	Total
Placental COD	12	36	48
Not Placental COD	329	156	485
Total	341	192	533

Table Analyzed	Data 4

Chi-square			
Chi-square, df	31.16, 1		
z	5.582		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Non SGA	SGA	Total
Unexplained death	243	90	333
Not unexplained death	98	102	200
Total	341	192	533

Table Analyzed	Data 1		
Chi-square			
Chi-square, df	4.117, 1		
z	2.029		
P value	0.0425		
P value summary	*		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Non SGA	SGA	Total
Normal BMI	43	36	79
Not normal BMI	104	49	153
Total	147	85	232
Table Analyzed	Data 2		
Chi-square			

Chi-square, df	1.027, 1		
z	1.013		
P value	0.3109		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Non SGA	SGA	Total
Obese	51	24	75
Not obese	96	61	157
Total	147	85	232

Table Analyzed	Data 3		
Chi-square			
Chi-square, df	2.547, 1		
z	1.596		
P value	0.1105		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Non SGA	SGA	Total
Overweight	53	22	75
Not overweight	94	63	157
Total	147	85	232

Table Analyzed	Data 17
Chi-square	
Chi-square, df	5.256, 1
z	2.293
P value	0.0219

P value summary	*		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Non SGA	SGA	Total
Underweight	0	3	3
Not underweight	147	82	229
Total	147	85	232

Table Analyzed	Data 8		
Chi-square			
Chi-square, df	0.09829, 1		
z	0.3135		
P value	0.7539		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		
Data analyzed	Non SGA	SGA	Total
Black	57	32	89
Not black	201	122	323
Total	258	154	412

Table Analyzed	Data 10		
Chi-square			
Chi-square, df	1.363, 1		
z	1.167		
P value	0.2430		
P value summary	ns		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	No		

Data analyzed	Non SGA	SGA	Total
DM	29	11	40
No DM	312	181	493
Total	341	192	533

Table Analyzed	Data 11
Chi-square	
Chi-square, df	0.1881, 1
z	0.4337
P value	0.6645
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Non SGA	SGA	Total
Gest DM	18	6	24
Other DM	11	5	16
Total	29	11	40

Table Analyzed	Data 12
Chi-square	
Chi-square, df	0.1770, 1
z	0.4207
P value	0.6740
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Non SGA	SGA	Total
Hypertension	34	17	51

No hypertension	307	175	482
Total	341	192	533

Table Analyzed	Data 13
Chi-square	
Chi-square, df	3.279, 1
z	1.811
P value	0.0702
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Non SGA	SGA	Total
Preeclampsia	11	10	21
Other hypertension	23	7	30
Total	34	17	51

Table Analyzed	Data 14
Chi-square	
Chi-square, df	0.01724, 1
z	0.1313
P value	0.8955
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Non SGA	SGA	Total
age < 35	253	139	392
Age equal to or greater than 35	85	48	133
Total	338	187	525

Table Analyzed	Data 15
Chi-square	
Chi-square, df	6.608, 1
z	2.571
P value	0.0102
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Non SGA	SGA	Total
Maceration	256	163	419
No maceration	79	27	106
Total	335	190	525

Table Analyzed	Data 16		
Chi-square			
Chi-square, df	4.081, 1		
z	2.020		
P value	0.0434		
P value summary	*		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Non SGA	SGA	Total
Maceration excluding AI	241	157	398
No maceration excluding AI	56	21	77
Total	297	178	475

Table Analyzed	Data 1		
Chi-square			
Chi-square, df	238.8, 1		
z	15.45		
P value	< 0.0001		
P value summary	****		
One- or two-tailed	Two-tailed		
Statistically significant? (alpha<0.05)	Yes		
Data analyzed	Maceration none or mild	Maceration moderate or severe	Total
IUI 1 or fewer days	202	24	226
IUI > 1 day	13	136	149
Total	215	160	375

Polynomial regression

Intercept	b0= -0.494843	t = -4.186782	P < 0.0001	
Intrauterine interval	b1= -0.117993	r = -0.205311	t = -3.663653	P = 0.0003
Intrauterine interval^2	b2= 0.001016	r = 0.084641	t = 1.483518	P = 0.139

= -0.494843 -0.117993 Intrauterine interval +0.001016 Intrauterine interval^2

Simple linear regression

Equation: Delat Value Birthweight = -0.07535 Intrauterine interval -0.581278

Standard Error of slope = 0.014554
95% CI for population value of slope = -0.103989 to -0.046711

Correlation coefficient (r) = -0.28379 (r^2 = 0.080537)

95% CI for r (Fisher's z transformed) = -0.383389 to -0.177667

t with 306 DF = -5.177154
Two sided P < 0.0001
Power (for 5% significance) = 99.91%

Correlation coefficient is significantly different from zero

Table Analyzed	Data 2
Chi-square	11.05,
Chi-square, df	1
z	3.324
P value	0.0009
P value summary	***
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Non SGA	SGA	Total
0 days	60	16	76
> 2 days	65	52	117
Total	125	68	193

Simple linear regression

Equation: B = -1.108091 A -3.506909

Standard Error of slope = 0.16928
95% CI for population value of slope = -1.49103 to -0.725152

Correlation coefficient (r) = -0.909075 (r^2 = 0.826418)

95% CI for r (Fisher's z transformed) = -0.976457 to -0.680057

t with 9 DF = -6.545893
Two sided P = 0.0001
Power (for 5% significance) = 98.77%

Correlation coefficient is significantly different from zero

Chapter 6 Organ Weights:

Females:

Mann-Whitney U test

Observations (x) in Normal Delta Female combined adrenal weight = 56 median = -0.172591 rank sum = 3,338.5
Observations (y) in Overweight Delta Female combined adrenal weight = 70 median = -0.082449
U = 1,742.5 U' = 2,177.5

Exact probability (adjusted for ties):
Lower side P = 0.1436 (H1: x tends to be less than y)
Upper side P = 0.8564 (H1: x tends to be greater than y)

Two sided P = 0.2872 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.555485 (95% CI: 0.454167 to 0.651551)

95% confidence interval for difference between medians or means:
Median difference = -0.12903 (CI: -0.39045 to 0.10843)

Mann-Whitney U test

Observations (x) in Normal Delta Female combined adrenal weight = 56 median = -0.172591 rank sum = 2,664
Observations (y) in Obese Delta Female combined adrenal weight = 48 median = -0.051566
U = 1,068 U' = 1,620

Exact probability (adjusted for ties):
Lower side P = 0.036 (H1: x tends to be less than y)
Upper side P = 0.964 (H1: x tends to be greater than y)
Two sided P = 0.0721 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.602679 (95% CI: 0.490877 to 0.703003)

95% confidence interval for difference between medians or means:
Median difference = -0.291715 (CI: -0.67878 to 0.02994)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Female combined adrenal weight = 70 median = -0.082449 rank sum = 3,992.5
Observations (y) in Obese Delta Female combined adrenal weight = 48 median = -0.051566
U = 1,507.5 U' = 1,852.5

Exact probability (adjusted for ties):
Lower side P = 0.1734 (H1: x tends to be less than y)
Upper side P = 0.8266 (H1: x tends to be greater than y)
Two sided P = 0.3467 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.551339 (95% CI: 0.445628 to 0.651766)

95% confidence interval for difference between medians or means:
Median difference = -0.123145 (CI: -0.41642 to 0.12314)

Mann-Whitney U test- not signif

Observations (x) in Obese Delta Female combined adrenal weight = 48 median = -0.051566 rank sum = 1,317
Observations (y) in Underweight Delta Female combined adrenal weight = 7 median = 0.467499
U = 141 U' = 195

Exact probability:
Lower side P = 0.2557 (H1: x tends to be less than y)
Upper side P = 0.7443 (H1: x tends to be greater than y)
Two sided P = 0.5115 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.580357 (95% CI: 0.3604 to 0.768881)

95.1% confidence interval for difference between medians or means:
Median difference = -0.28512 (CI: -0.90202 to 0.35381)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Female combined adrenal weight = 32 median = -0.26252 rank sum = 5,183.5
Observations (y) in No Hypertension Delta Female combined adrenal weight = 361 median = -0.069463
U = 4,655.5 U' = 6,896.5

Exact probability (adjusted for ties):
Lower side P = 0.0344 (H1: x tends to be less than y)
Upper side P = 0.9656 (H1: x tends to be greater than y)
Two sided P = 0.0688 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.596996 (95% CI: 0.49252 to 0.69188)

95% confidence interval for difference between medians or means:
Median difference = -0.286455 (CI: -0.60687 to 0.02167)

Mann-Whitney U test DM vs no DM - SIGNIFICANT!

Observations (x) in DM Delta Female combined adrenal weight = 26 median = 0.124918 rank sum = 6,393
Observations (y) in No DM Delta Female combined adrenal weight = 374 median = -0.090509
U = 6,042 U' = 3,682

Exact probability (adjusted for ties):
Lower side P = 0.019 (H1: x tends to be less than y)
Upper side P = 0.981 (H1: x tends to be greater than y)
Two sided P = 0.038 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.378651 (95% CI: 0.278013 to 0.493536)

95% confidence interval for difference between medians or means:
Median difference = 0.34291 (CI: 0.01708 to 0.70087)

Mann-Whitney U test significant!

Observations (x) in SGA Delta Female combined adrenal weight = 77 median = -0.70161 rank sum = 6,032.5
Observations (y) in Non SGA Delta Female combined adrenal weight = 140 median = 0.152456
U = 3,029.5 U' = 7,750.5

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.71897 (95% CI: 0.642546 to 0.782859)

95% confidence interval for difference between medians or means:
Median difference = -0.81702 (CI: -1.09755 to -0.54071)

Mann-Whitney U test UE vs Placenta SIGNIFICANT!

Observations (x) in COD UE Delta Female combined adrenal weight = 243 median = -0.102677 rank sum = 33,352.5
Observations (y) in COD Placenta Delta Female combined adrenal weight = 19 median = -0.840703
U = 3,706.5 U' = 910.5

Normalised statistic = 4.394824 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.197206 (95% CI: 0.116704 to 0.321547)

95% confidence interval for difference between medians or means:

Median difference = 0.74169 (CI: 0.4646 to 1.02246)

Mann-Whitney U test UE vs AI SIGNIFICANT!

Observations (x) in COD AI Delta Female combined adrenal weight = 71 median = 0.301883 rank sum = 14,202.5
Observations (y) in COD UE Delta Female combined adrenal weight = 243 median = -0.102677
U = 11,646.5 U' = 5,606.5

Normalised statistic = 4.48757 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.324958 (95% CI: 0.259689 to 0.399514)

95% confidence interval for difference between medians or means:
Median difference = 0.42986 (CI: 0.24684 to 0.6228)

Mann-Whitney U test

Observations (x) in Normal Delta Female Brain weight = 51 median = 0.063564 rank sum = 2,671
Observations (y) in Ow Delta Female Brain weight = 62 median = 0.029946
U = 1,345 U' = 1,817

Exact probability (adjusted for ties):
Lower side P = 0.0872 (H1: x tends to be less than y)
Upper side P = 0.9128 (H1: x tends to be greater than y)
Two sided P = 0.1744 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.574636 (95% CI: 0.467482 to 0.674005)

95% confidence interval for difference between medians or means:
Median difference = -0.219975 (CI: -0.53589 to 0.10011)

Mann-Whitney U test - OW vs obese - not signif

Observations (x) in Overweight Delta Female Brain weight = 62 median = 0.029946 rank sum = 3,566
Observations (y) in Obese Delta Female Brain weight = 49 median = 0.10659
U = 1,613 U' = 1,425

Exact probability (adjusted for ties):
Lower side P = 0.2896 (H1: x tends to be less than y)
Upper side P = 0.7104 (H1: x tends to be greater than y)
Two sided P = 0.5791 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.469059 (95% CI: 0.365272 to 0.576156)

95.1% confidence interval for difference between medians or means:
Median difference = 0.089495 (CI: -0.21913 to 0.37218)

Mann-Whitney U test

Observations (x) in Normal Delta Female Brain weight = 51 median = 0.063564 rank sum = 2,439
Observations (y) in Obese Delta Female Brain weight = 49 median = 0.10659
U = 1,113 U' = 1,386

Exact probability:
Lower side P = 0.175 (H1: x tends to be less than y)
Upper side P = 0.825 (H1: x tends to be greater than y)
Two sided P = 0.3499 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.554622 (95% CI: 0.441814 to 0.661078)

95% confidence interval for difference between medians or means:
Median difference = -0.13872 (CI: -0.52784 to 0.14719)

Mann-Whitney U test - UW vs obese - not signif

Observations (x) in Obese Delta Female Brain weight = 49 median = 0.10659 rank sum = 1,367
Observations (y) in Underweight Delta Female Brain weight = 6 median = 0.021449
U = 142 U' = 152

Exact probability:
Lower side P = 0.4529 (H1: x tends to be less than y)
Upper side P = 0.5471 (H1: x tends to be greater than y)
Two sided P = 0.9058 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.517007 (95% CI: 0.295697 to 0.730932)

95.1% confidence interval for difference between medians or means:
Median difference = -0.0299 (CI: -0.60158 to 0.6677)

Mann-Whitney U test BP vs no BP - Not signif

Observations (x) in Hypertension Delta Female Brain weight = 32 median = -0.26092 rank sum = 4,913
Observations (y) in No Hypertension Delta Female Brain weight = 339 median = 0.103008
U = 4,385 U' = 6,463

Exact probability (adjusted for ties):
Lower side P = 0.0366 (H1: x tends to be less than y)
Upper side P = 0.9634 (H1: x tends to be greater than y)
Two sided P = 0.0732 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.595778 (95% CI: 0.491024 to 0.691009)

95% confidence interval for difference between medians or means:
Median difference = -0.312325 (CI: -0.60533 to 0.02843)

Mann-Whitney U test - DM vs No DM - not signif

Observations (x) in DM Delta Female Brain weight = 25 median = 0.143121 rank sum = 4,981.5
Observations (y) in No DM Delta Female Brain weight = 353 median = 0.074711
U = 4,656.5 U' = 4,168.5

Exact probability (adjusted for ties):
Lower side P = 0.323 (H1: x tends to be less than y)
Upper side P = 0.677 (H1: x tends to be greater than y)
Two sided P = 0.6461 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.472351 (95% CI: 0.360716 to 0.587407)

95% confidence interval for difference between medians or means:
Median difference = 0.10196 (CI: -0.32015 to 0.50549)

Mann-Whitney U test - SIGNIFICANT!

Observations (x) in SGA Delta Female Brain weight = 74 median = -0.638087 rank sum = 4,627.5
Observations (y) in Non SGA Delta Female Brain weight = 136 median = 0.331463
U = 1,852.5 U' = 8,211.5

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)

Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.815928 (95% CI: 0.746644 to 0.867806)

95% confidence interval for difference between medians or means:
Median difference = -1.04984 (CI: -1.3141 to -0.79584)

Mann-Whitney U test AI vs UE - SIGNIFICANT!

Observations (x) in AI COD Delta Female Brain weight = 67 median = 0.280978 rank sum = 12,236
Observations (y) in UE COD Delta Female Brain weight = 229 median = -0.030258
U = 9,958 U' = 5,385

Normalised statistic = 3.710468 (adjusted for ties)
Lower side P = 0.9999 (H1: x tends to be less than y)
Upper side P = 0.0001 (H1: x tends to be greater than y)
Two sided P = 0.0002 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.350974 (95% CI: 0.281689 to 0.428715)

95% confidence interval for difference between medians or means:
Median difference = 0.31601 (CI: 0.15341 to 0.47237)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!

Observations (x) in UE COD Delta Female Brain weight = 229 median = -0.030258 rank sum = 29,390
Observations (y) in Placenta COD Delta Female Brain weight = 18 median = -0.890347
U = 3,055 U' = 1,067

Normalised statistic = 3.405628 (adjusted for ties)
Lower side P = 0.9997 (H1: x tends to be less than y)
Upper side P = 0.0003 (H1: x tends to be greater than y)
Two sided P = 0.0007 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.258855 (95% CI: 0.162111 to 0.393792)

95% confidence interval for difference between medians or means:
Median difference = 0.7991 (CI: 0.35673 to 1.20795)

Mann-Whitney U test AI vs UE - SIGNIFICANT!

Observations (x) in AI COD Delta Female Heart Weight = 71 median = 0.230766 rank sum = 14,099
Observations (y) in UE COD Delta Female Heart Weight = 245 median = -0.088788
U = 11,543 U' = 5,852

Normalised statistic = 4.197672 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.336419 (95% CI: 0.270217 to 0.411325)

95% confidence interval for difference between medians or means:
Median difference = 0.30866 (CI: 0.17215 to 0.44183)

Mann-Whitney U test UE vs placenta - SIGNIFICANT!

Observations (x) in UE COD Delta Female Heart Weight = 245 median = -0.088788 rank sum = 33,556
Observations (y) in Placenta COD Delta Female Heart Weight = 19 median = -0.839286
U = 3,421 U' = 1,234

Normalised statistic = 3.410572 (adjusted for ties)
Lower side P = 0.9997 (H1: x tends to be less than y)
Upper side P = 0.0003 (H1: x tends to be greater than y)
Two sided P = 0.0006 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.265091 (95% CI: 0.169134 to 0.39654)

95% confidence interval for difference between medians or means:
Median difference = 0.66969 (CI: 0.26217 to 1.02774)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Female Heart Weight = 79 median = -0.836017 rank sum = 5,534.5
Observations (y) in Non SGA Delta Female Heart Weight = 142 median = 0.156719
U = 2,374.5 U' = 8,843.5

Normalised statistic = -7.100095 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.788331 (95% CI: 0.718267 to 0.843001)

95% confidence interval for difference between medians or means:
Median difference = -0.953105 (CI: -1.19299 to -0.70379)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Female Heart Weight = 70 median = -0.050529 rank sum = 4,278.5
Observations (y) in Obese Delta Female Heart Weight = 49 median = -0.059402
U = 1,793.5 U' = 1,636.5

Exact probability (adjusted for ties):
Lower side P = 0.3369 (H1: x tends to be less than y)
Upper side P = 0.6631 (H1: x tends to be greater than y)
Two sided P = 0.6738 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.477114 (95% CI: 0.375326 to 0.581236)

95.1% confidence interval for difference between medians or means:
Median difference = 0.038985 (CI: -0.13798 to 0.26509)

Mann-Whitney U test- significant

Observations (x) in Normal Delta Female Heart Weight = 58 median = -0.152206 rank sum = 3,318
Observations (y) in Overweight Delta Female Heart Weight = 70 median = -0.050529
U = 1,607 U' = 2,453

Exact probability (adjusted for ties):
Lower side P = 0.0214 (H1: x tends to be less than y)
Upper side P = 0.9786 (H1: x tends to be greater than y)
Two sided P = 0.0427 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.604187 (95% CI: 0.503337 to 0.695438)

95% confidence interval for difference between medians or means:
Median difference = -0.21717 (CI: -0.48458 to -0.00679)

Mann-Whitney U test

Observations (x) in Normal Delta Female Heart Weight = 58 median = -0.152206 rank sum = 2,898
Observations (y) in Obese Delta Female Heart Weight = 49 median = -0.059402
U = 1,187 U' = 1,655

Exact probability (adjusted for ties):
Lower side P = 0.0722 (H1: x tends to be less than y)
Upper side P = 0.9278 (H1: x tends to be greater than y)
Two sided P = 0.1444 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.582336 (95% CI: 0.472248 to 0.683417)

95% confidence interval for difference between medians or means:
Median difference = -0.172455 (CI: -0.42931 to 0.0666)

Mann-Whitney U test not signif

Observations (x) in Obese Delta Female Heart Weight = 49 median = -0.059402 rank sum = 1,401
Observations (y) in Underweight Delta Female Heart Weight = 7 median = -0.040636
U = 176 U' = 167

Exact probability:
Lower side P = 0.4614 (H1: x tends to be less than y)
Upper side P = 0.5386 (H1: x tends to be greater than y)
Two sided P = 0.9228 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.48688 (95% CI: 0.28327 to 0.695631)

95.1% confidence interval for difference between medians or means:
Median difference = 0.02455 (CI: -0.4854 to 0.49493)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Female Heart Weight = 32 median = -0.282429 rank sum = 5,576
Observations (y) in No Hypertension Delta Female Heart Weight = 365 median = -0.03416
U = 5,048 U' = 6,632

Exact probability (adjusted for ties):
Lower side P = 0.1022 (H1: x tends to be less than y)
Upper side P = 0.8978 (H1: x tends to be greater than y)
Two sided P = 0.2043 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.567808 (95% CI: 0.463702 to 0.665179)

95% confidence interval for difference between medians or means:
Median difference = -0.18936 (CI: -0.4617 to 0.1014)

Mann-Whitney U test - not significant

Observations (x) in DM Delta Female Heart Weight = 26 median = 0.223645 rank sum = 6,288.5
Observations (y) in No DM Delta Female Heart Weight = 372 median = -0.052107
U = 5,937.5 U' = 3,734.5

Exact probability (adjusted for ties):
Lower side P = 0.0259 (H1: x tends to be less than y)
Upper side P = 0.9741 (H1: x tends to be greater than y)
Two sided P = 0.0518 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.386115 (95% CI: 0.284598 to 0.501032)

95% confidence interval for difference between medians or means:
Median difference = 0.2722 (CI: -0.00208 to 0.56195)

Mann-Whitney U test - SGA vs no SGA - SIGNIFICANT!
SGA lighter kidneys
Observations (x) in SGA Delta Female Combined Kidney weight = 25 median = -0.635751 rank sum = 633.5
Observations (y) in Non SGA Delta Female Combined Kidney weight = 53 median = 0.146467
U = 308.5 U' = 1,016.5

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.76717 (95% CI: 0.635216 to 0.857875)

95% confidence interval for difference between medians or means:
Median difference = -0.89608 (CI: -1.41407 to -0.40342)

Mann-Whitney U test UE vs AI SIGNIFICANT!
UE LIGHTER kidneys
Observations (x) in COD AI Delta Female Combined Kidney weight = 34 median = 0.193943 rank sum = 3,122
Observations (y) in COD UE Delta Female Combined Kidney weight = 101 median = -0.146857
U = 2,527 U' = 907

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.264123 (95% CI: 0.181443 to 0.372199)

95% confidence interval for difference between medians or means:
Median difference = 0.408495 (CI: 0.24186 to 0.61641)

Mann-Whitney U test NOT SIGNIF

Observations (x) in COD UE Delta Female Combined Kidney weight = 101 median = -0.146857 rank sum = 5,564
Observations (y) in COD placenta Delta Female Combined Kidney weight = 6 median = -0.622944
U = 413 U' = 193

Exact probability (adjusted for ties):
Lower side P = 0.0704 (H1: x tends to be less than y)
Upper side P = 0.9296 (H1: x tends to be greater than y)
Two sided P = 0.1407 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.318482 (95% CI: 0.155171 to 0.555541)

95.1% confidence interval for difference between medians or means:
Median difference = 0.460715 (CI: -0.20035 to 1.31992)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Female Combined Kidney weight = 21 median = -0.047563 rank sum = 462.5
Observations (y) in Obese Delta Female Combined Kidney weight = 22 median = -0.075647
U = 231.5 U' = 230.5

Exact probability (adjusted for ties):
Lower side P = 0.4976 (H1: x tends to be less than y)
Upper side P = 0.5024 (H1: x tends to be greater than y)
Two sided P = 0.9952 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.498918 (95% CI: 0.33586 to 0.662245)

95% confidence interval for difference between medians or means:
Median difference = 0.00465 (CI: -0.38905 to 0.32497)

Mann-Whitney U test

Observations (x) in Overweight Delta Female Combined Kidney weight = 21 median = -0.047563 rank sum = 461
Observations (y) in Normal Delta Female Combined Kidney weight = 18 median = -0.176295
U = 230 U' = 148

Exact probability (adjusted for ties):
Lower side P = 0.1271 (H1: x tends to be less than y)
Upper side P = 0.8729 (H1: x tends to be greater than y)
Two sided P = 0.2541 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.391534 (95% CI: 0.239119 to 0.573201)

95.1% confidence interval for difference between medians or means:
Median difference = 0.174135 (CI: -0.12053 to 0.49912)

Mann-Whitney U test

Observations (x) in Normal Delta Female Combined Kidney weight = 18 median = -0.176295 rank sum = 326
Observations (y) in Obese Delta Female Combined Kidney weight = 22 median = -0.075647
U = 155 U' = 241

Exact probability:
Lower side P = 0.1255 (H1: x tends to be less than y)
Upper side P = 0.8745 (H1: x tends to be greater than y)
Two sided P = 0.251 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.608586 (95% CI: 0.428766 to 0.759649)

95.2% confidence interval for difference between medians or means:
Median difference = -0.19761 (CI: -0.82082 to 0.15592)

Mann-Whitney U test not signif

Observations (x) in Obese Delta Female Combined Kidney weight = 22 median = -0.075647 rank sum = 302
Observations (y) in Underweight Delta Female Combined Kidney weight = 4 median = -0.12436
U = 49 U' = 39

Exact probability:
Lower side P = 0.3789 (H1: x tends to be less than y)
Upper side P = 0.6211 (H1: x tends to be greater than y)
Two sided P = 0.7579 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.443182 (95% CI: 0.20127 to 0.719305)

95.2% confidence interval for difference between medians or means:
Median difference = 0.130725 (CI: -0.43335 to 1.2048)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Female Combined Kidney weight = 12 median = -0.177341
rank sum = 881
Observations (y) in No Hypertension Delta Female Combined Kidney weight = 148 median = -0.075385
U = 803 U' = 973

Exact probability (adjusted for ties):
Lower side P = 0.2938 (H1: x tends to be less than y)
Upper side P = 0.7062 (H1: x tends to be greater than y)
Two sided P = 0.5876 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.54786 (95% CI: 0.383214 to 0.701015)

95% confidence interval for difference between medians or means:
Median difference = -0.10496 (CI: -0.5165 to 0.30811)

Mann-Whitney U test not signif

Observations (x) in DM Delta Female Combined Kidney weight = 9 median = 0.23063 rank sum =
894.5
Observations (y) in No DM Delta Female Combined Kidney weight = 150 median = -0.079417
U = 849.5 U' = 500.5

Exact probability (adjusted for ties):
Lower side P = 0.0987 (H1: x tends to be less than y)
Upper side P = 0.9013 (H1: x tends to be greater than y)
Two sided P = 0.1973 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.370741 (95% CI: 0.216298 to 0.5636)

95.1% confidence interval for difference between medians or means:
Median difference = 0.25271 (CI: -0.15278 to 0.6188)

Mann-Whitney U test OW vs Obese - not signif

Observations (x) in Overweight Delta Female Liver weight = 70 median = -0.071169 rank sum = 4,193
Observations (y) in Obese Delta Female Liver weight = 48 median = -0.101251
U = 1,708 U' = 1,652

Exact probability:
Lower side P = 0.4404 (H1: x tends to be less than y)
Upper side P = 0.5596 (H1: x tends to be greater than y)
Two sided P = 0.8807 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.491667 (95% CI: 0.388437 to 0.595756)

95% confidence interval for difference between medians or means:
Median difference = 0.014775 (CI: -0.2209 to 0.2634)

Mann-Whitney U test

Observations (x) in OW Delta Female Liver weight = 70 median = -0.071169 rank sum = 4,847.5
Observations (y) in Normal Delta Female Liver weight = 57 median = -0.172186
U = 2,362.5 U' = 1,627.5

Exact probability (adjusted for ties):
Lower side P = 0.0375 (H1: x tends to be less than y)
Upper side P = 0.9625 (H1: x tends to be greater than y)
Two sided P = 0.075 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.407895 (95% CI: 0.315163 to 0.509213)

95% confidence interval for difference between medians or means:
Median difference = 0.211075 (CI: -0.02094 to 0.47607)

Mann-Whitney U test

Observations (x) in Normal Delta Female Liver weight = 57 median = -0.172186 rank sum = 2,800
Observations (y) in Obese Delta Female Liver weight = 48 median = -0.101251
U = 1,147 U' = 1,589

Exact probability:
Lower side P = 0.0783 (H1: x tends to be less than y)
Upper side P = 0.9217 (H1: x tends to be greater than y)
Two sided P = 0.1567 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.580775 (95% CI: 0.469658 to 0.682892)

95% confidence interval for difference between medians or means:
Median difference = -0.204305 (CI: -0.51985 to 0.07187)

Mann-Whitney U test - UW vs obese - not signif

Observations (x) in Obese Delta Female Liver weight = 48 median = -0.101251 rank sum = 1,347
Observations (y) in Underweight Delta Female Liver weight = 7 median = 0.037788
U = 171 U' = 165

Exact probability:
Lower side P = 0.4754 (H1: x tends to be less than y)

Upper side P = 0.5246 (H1: x tends to be greater than y)
Two sided P = 0.9508 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.491071 (95% CI: 0.286366 to 0.699282)

95.1% confidence interval for difference between medians or means:
Median difference = 0.041015 (CI: -0.50678 to 0.95118)

Mann-Whitney U test - BP vs no BP not signif.

Observations (x) in Hypertension Delta Female Liver weight = 32 median = -0.373011 rank sum = 5,678
Observations (y) in No Hypertension Delta Female Liver weight = 363 median = -0.053425
U = 5,150 U' = 6,466

Exact probability:
Lower side P = 0.1448 (H1: x tends to be less than y)
Upper side P = 0.8552 (H1: x tends to be greater than y)
Two sided P = 0.2897 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.556646 (95% CI: 0.45275 to 0.654904)

95% confidence interval for difference between medians or means:
Median difference = -0.176975 (CI: -0.47067 to 0.20638)

Mann-Whitney U test DM vs no DM - not signif

Observations (x) in DM Delta Female Liver weight = 26 median = 0.296685 rank sum = 6,134
Observations (y) in No DM Delta Female Liver weight = 370 median = -0.064725
U = 5,783 U' = 3,837

Exact probability (adjusted for ties):
Lower side P = 0.0424 (H1: x tends to be less than y)
Upper side P = 0.9576 (H1: x tends to be greater than y)
Two sided P = 0.0847 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.398857 (95% CI: 0.295912 to 0.513742)

95% confidence interval for difference between medians or means:
Median difference = 0.30592 (CI: -0.04932 to 0.66489)

Mann-Whitney U test SGA vs Non SGA - SIGNIFICANT!

Observations (x) in SGA Delta Female Liver weight = 78 median = -0.725493 rank sum = 5,203
Observations (y) in Non SGA Delta Female Liver weight = 141 median = 0.200112
U = 2,122 U' = 8,876

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.807056 (95% CI: 0.738552 to 0.859264)

95% confidence interval for difference between medians or means:
Median difference = -1.07867 (CI: -1.36389 to -0.81145)

Mann-Whitney U test - AI vs UE - SIGNIFICANT!

Observations (x) in AI COD Delta Female Liver weight = 72 median = 0.212789 rank sum = 15,045
Observations (y) in UE COD Delta Female Liver weight = 243 median = -0.114714

U = 12,417 U' = 5,079

Normalised statistic = 5.40537 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.290295 (95% CI: 0.22861 to 0.362801)

95% confidence interval for difference between medians or means:
Median difference = 0.40625 (CI: 0.27037 to 0.56788)

Mann-Whitney U test UE vs placenta - SIGNIFICANT!

Observations (x) in UE COD Delta Female Liver weight = 243 median = -0.114714 rank sum = 33,199
Observations (y) in Placenta COD Delta Female Liver weight = 19 median = -0.867218
U = 3,553 U' = 1,064

Normalised statistic = 3.912261 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.230453 (95% CI: 0.141993 to 0.358849)

95% confidence interval for difference between medians or means:
Median difference = 0.76036 (CI: 0.41272 to 1.13375)

Mann-Whitney U test SGA vs non SGA - significant
SGA lungs lighter
Observations (x) in SGA Delta Female Combined lung weight = 19 median = -0.888811 rank sum =

331
Observations (y) in Non SGA Delta Female Combined lung weight = 49 median = 0.072513
U = 141 U' = 790

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.84855 (95% CI: 0.711756 to 0.923393)

95.2% confidence interval for difference between medians or means:
Median difference = -1.09147 (CI: -1.61693 to -0.66596)

Mann-Whitney U test AI vs UE -SIGNIFICANT!
AI lungs heavier
Observations (x) in COD AI Delta Female Combined lung weight = 24 median = 0.514076 rank sum = 1,825.5
Observations (y) in COD UE Delta Female Combined lung weight = 80 median = -0.197505
U = 1,525.5 U' = 394.5

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.205469 (95% CI: 0.1241 to 0.328099)

95.1% confidence interval for difference between medians or means:
Median difference = 0.7622 (CI: 0.42674 to 1.07766)

Mann-Whitney U test not signif

Observations (x) in COD UE Delta Female Combined lung weight = 80 median = -0.197505 rank sum = 3,510
Observations (y) in COD Placenta Delta Female Combined lung weight = 5 median = -0.734496
U = 270 U' = 130

Exact probability (adjusted for ties):
Lower side P = 0.1003 (H1: x tends to be less than y)
Upper side P = 0.8997 (H1: x tends to be greater than y)
Two sided P = 0.2006 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.325 (95% CI: 0.148947 to 0.582945)

95.1% confidence interval for difference between medians or means:
Median difference = 0.54767 (CI: -0.27318 to 1.45151)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Female Combined lung weight = 14 median = -0.043932 rank sum = 243
Observations (y) in Obese Delta Female Combined lung weight = 17 median = -0.133709
U = 138 U' = 100

Exact probability:
Lower side P = 0.2341 (H1: x tends to be less than y)
Upper side P = 0.7659 (H1: x tends to be greater than y)
Two sided P = 0.4683 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.420168 (95% CI: 0.246245 to 0.620348)

95.2% confidence interval for difference between medians or means:
Median difference = 0.19114 (CI: -0.38766 to 0.67943)

Mann-Whitney U test

Observations (x) in Normal Delta Female Combined lung weight = 15 median = -0.253646 rank sum = 234
Observations (y) in Obese Delta Female Combined lung weight = 17 median = -0.133709
U = 114 U' = 141

Exact probability:
Lower side P = 0.314 (H1: x tends to be less than y)
Upper side P = 0.686 (H1: x tends to be greater than y)
Two sided P = 0.6281 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.552941 (95% CI: 0.359222 to 0.729731)

95.1% confidence interval for difference between medians or means:
Median difference = -0.2043 (CI: -1.21901 to 0.44754)

Mann-Whitney U test

Observations (x) in Overweight Delta Female Combined lung weight = 14 median = -0.043932 rank sum = 232
Observations (y) in Normal Delta Female Combined lung weight = 15 median = -0.253646
U = 127 U' = 83

Exact probability:
Lower side P = 0.1768 (H1: x tends to be less than y)
Upper side P = 0.8232 (H1: x tends to be greater than y)
Two sided P = 0.3536 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.395238 (95% CI: 0.222966 to 0.603548)

95.4% confidence interval for difference between medians or means:
Median difference = 0.230345 (CI: -0.24936 to 1.04792)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Female Combined lung weight = 12 median = -0.321799 rank sum = 608
Observations (y) in No Hypertension Delta Female Combined lung weight = 112 median = -0.043932
U = 530 U' = 814

Exact probability (adjusted for ties):
Lower side P = 0.1172 (H1: x tends to be less than y)
Upper side P = 0.8828 (H1: x tends to be greater than y)
Two sided P = 0.2345 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.605655 (95% CI: 0.43489 to 0.7507)

95% confidence interval for difference between medians or means:
Median difference = -0.28581 (CI: -0.78401 to 0.23871)

Mann-Whitney U test not signif

Observations (x) in DM Delta Female Combined lung weight = 10 median = 0.073135 rank sum = 705
Observations (y) in No DM Delta Female Combined lung weight = 115 median = -0.102485
U = 650 U' = 500

Exact probability (adjusted for ties):
Lower side P = 0.2513 (H1: x tends to be less than y)

Upper side P = 0.7487 (H1: x tends to be greater than y)
Two sided P = 0.5026 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.434783 (95% CI: 0.272 to 0.615892)

95% confidence interval for difference between medians or means:
Median difference = 0.130185 (CI: -0.35275 to 0.53443)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Female Pancreas weight = 59 median = -0.465091 rank sum = 3,914.5
Observations (y) in Non SGA Delta Female Pancreas weight = 110 median = -0.028319
U = 2,144.5 U' = 4,345.5

Exact probability (adjusted for ties):
Lower side P = 0.0001 (H1: x tends to be less than y)
Upper side P = 0.9999 (H1: x tends to be greater than y)
Two sided P = 0.0002 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.669569 (95% CI: 0.579409 to 0.746978)

95% confidence interval for difference between medians or means:
Median difference = -0.521015 (CI: -0.82058 to -0.24264

Mann-Whitney U test AI vs UE - SIGNIFICANT
AI pancreas heavier
Observations (x) in COD AI Delta Female Pancreas weight = 64 median = 0.018439 rank sum = 9,609.5
Observations (y) in COD UE Delta Female Pancreas weight = 180 median = -0.168846
U = 7,529.5 U' = 3,990.5

Exact probability (adjusted for ties):
Lower side P = 0.0001 (H1: x tends to be less than y)
Upper side P = 0.9999 (H1: x tends to be greater than y)
Two sided P = 0.0002 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.346398 (95% CI: 0.27446 to 0.427858)

95% confidence interval for difference between medians or means:
Median difference = 0.31854 (CI: 0.14773 to 0.50377)

Mann-Whitney U test not signif

Observations (x) in COD UE Delta Female Pancreas weight = 180 median = -0.168846 rank sum = 17,741.5
Observations (y) in COD Placenta Delta Female Pancreas weight = 15 median = -0.351594
U = 1,451.5 U' = 1,248.5

Normalised statistic = 0.483338 (adjusted for ties)
Lower side P = 0.6856 (H1: x tends to be less than y)
Upper side P = 0.3144 (H1: x tends to be greater than y)
Two sided P = 0.6289 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.462407 (95% CI: 0.321974 to 0.610296)

95% confidence interval for difference between medians or means:
Median difference = 0.085075 (CI: -0.30046 to 0.44363)

Mann-Whitney U test -not signif

Observations (x) in Overweight Delta Female Pancreas weight = 58 median = -0.150167 rank sum =

2,695.5
Observations (y) in Obese Delta Female Pancreas weight = 36 median = -0.042537
U = 984.5 U' = 1,103.5

Exact probability (adjusted for ties):
Lower side P = 0.3232 (H1: x tends to be less than y)
Upper side P = 0.6768 (H1: x tends to be greater than y)
Two sided P = 0.6465 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.528496 (95% CI: 0.410188 to 0.6431)

95.1% confidence interval for difference between medians or means:
Median difference = -0.05875 (CI: -0.27818 to 0.21034)

Mann-Whitney U test

Observations (x) in Overweight Delta Female Pancreas weight = 58 median = -0.150167 rank sum = 3,070.5
Observations (y) in Normal Delta Female Pancreas weight = 48 median = -0.116253
U = 1,359.5 U' = 1,424.5

Exact probability (adjusted for ties):
Lower side P = 0.4192 (H1: x tends to be less than y)
Upper side P = 0.5808 (H1: x tends to be greater than y)
Two sided P = 0.8385 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.511674 (95% CI: 0.40329 to 0.618758)

95% confidence interval for difference between medians or means:
Median difference = -0.01926 (CI: -0.24965 to 0.21556)

Mann-Whitney U test

Observations (x) in Normal Delta Female Pancreas weight = 48 median = -0.116253 rank sum = 2,006
Observations (y) in Obese Delta Female Pancreas weight = 36 median = -0.042537
U = 830 U' = 898

Exact probability (adjusted for ties):
Lower side P = 0.3808 (H1: x tends to be less than y)
Upper side P = 0.6192 (H1: x tends to be greater than y)
Two sided P = 0.7616 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.519676 (95% CI: 0.397417 to 0.639188)

95% confidence interval for difference between medians or means:
Median difference = -0.044665 (CI: -0.25401 to 0.27276)

Mann-Whitney U test not signif

Observations (x) in Obese Delta Female Pancreas weight = 36 median = -0.042537 rank sum = 756.5
Observations (y) in underweight Delta Female Pancreas weight = 6 median = 0.06459
U = 90.5 U' = 125.5

Exact probability (adjusted for ties):
Lower side P = 0.2717 (H1: x tends to be less than y)
Upper side P = 0.7283 (H1: x tends to be greater than y)
Two sided P = 0.5434 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.581019 (95% CI: 0.343689 to 0.78218)

95.2% confidence interval for difference between medians or means:
Median difference = -0.14657 (CI: -0.55538 to 0.29318)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Female Pancreas weight = 24 median = -0.125028 rank sum = 3,405
Observations (y) in No Hypertension Delta Female Pancreas weight = 282 median = -0.119266
U = 3,105 U' = 3,663

Exact probability (adjusted for ties):
Lower side P = 0.2526 (H1: x tends to be less than y)
Upper side P = 0.7474 (H1: x tends to be greater than y)
Two sided P = 0.5052 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.541223 (95% CI: 0.422493 to 0.654596)

95% confidence interval for difference between medians or means:
Median difference = -0.089 (CI: -0.38878 to 0.16258)

Mann-Whitney U test not signif

Observations (x) in DM Delta Female Pancreas weight = 16 median = 0.008992 rank sum = 2,564.5
Observations (y) in No DM Delta Female Pancreas weight = 291 median = -0.122041
U = 2,428.5 U' = 2,227.5

Exact probability (adjusted for ties):
Lower side P = 0.3869 (H1: x tends to be less than y)
Upper side P = 0.6131 (H1: x tends to be greater than y)
Two sided P = 0.7739 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.478415 (95% CI: 0.341904 to 0.618876)

95% confidence interval for difference between medians or means:
Median difference = 0.065305 (CI: -0.32895 to 0.44648)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Female spleen weight = 80 median = -0.443789 rank sum = 6,174.5
Observations (y) in Non SGA Delta Female spleen weight = 136 median = 0.15425
U = 2,934.5 U' = 7,945.5

Normalised statistic = -5.648632 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.730285 (95% CI: 0.655138 to 0.792511)

95% confidence interval for difference between medians or means:
Median difference = -0.80475 (CI: -1.08358 to -0.5187)

Mann-Whitney U test AI vs UE SIGNIFICANT!

Observations (x) in COD AI Delta Female spleen weight = 71 median = 0.03679 rank sum = 12,545
Observations (y) in COD UE Delta Female spleen weight = 227 median = -0.048525
U = 9,989 U' = 6,128

Normalised statistic = 3.046392 (adjusted for ties)
Lower side P = 0.9988 (H1: x tends to be less than y)
Upper side P = 0.0012 (H1: x tends to be greater than y)
Two sided P = 0.0023 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.38022 (95% CI: 0.31009 to 0.456934)

95% confidence interval for difference between medians or means:
Median difference = 0.1714 (CI: 0.05684 to 0.37611)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!

Observations (x) in COD UE Delta Female spleen weight = 227 median = -0.048525 rank sum = 29,108
Observations (y) in COD placenta Delta Female spleen weight = 19 median = -0.595127
U = 3,230 U' = 1,083

Normalised statistic = 3.602943 (adjusted for ties)
Lower side P = 0.9998 (H1: x tends to be less than y)
Upper side P = 0.0002 (H1: x tends to be greater than y)
Two sided P = 0.0003 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.251101 (95% CI: 0.15787 to 0.381852)

95% confidence interval for difference between medians or means:
Median difference = 0.59978 (CI: 0.25252 to 0.99483)

Mann-Whitney U test Not signif

Observations (x) in Overweight Delta Female spleen weight = 62 median = -0.046106 rank sum = 3,312.5
Observations (y) in Obese Delta Female spleen weight = 45 median = 0.004359
U = 1,359.5 U' = 1,430.5

Exact probability (adjusted for ties):

Lower side P = 0.4124 (H1: x tends to be less than y)
Upper side P = 0.5876 (H1: x tends to be greater than y)
Two sided P = 0.8247 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.512724 (95% CI: 0.403919 to 0.620103)

95% confidence interval for difference between medians or means:
Median difference = -0.0132 (CI: -0.13938 to 0.15646)

Mann-Whitney U test

Observations (x) in Overweight Delta Female spleen weight = 62 median = -0.046106 rank sum = 3,748.5
Observations (y) in Normal Delta Female spleen weight = 55 median = -0.062801
U = 1,795.5 U' = 1,614.5

Exact probability (adjusted for ties):
Lower side P = 0.3117 (H1: x tends to be less than y)
Upper side P = 0.6883 (H1: x tends to be greater than y)
Two sided P = 0.6233 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.47346 (95% CI: 0.37242 to 0.577179)

95.1% confidence interval for difference between medians or means:
Median difference = 0.036605 (CI: -0.10336 to 0.2064)

Mann-Whitney U test

Observations (x) in Normal Delta Female spleen weight = 55 median = -0.062801 rank sum = 2,703
Observations (y) in Obese Delta Female spleen weight = 45 median = 0.004359
U = 1,163 U' = 1,312

Exact probability (adjusted for ties):
Lower side P = 0.3042 (H1: x tends to be less than y)
Upper side P = 0.6958 (H1: x tends to be greater than y)
Two sided P = 0.6084 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.530101 (95% CI: 0.417695 to 0.638967)

95% confidence interval for difference between medians or means:
Median difference = -0.04308 (CI: -0.22994 to 0.14615)

Mann-Whitney U test not signif

Observations (x) in Obese Delta Female spleen weight = 45 median = 0.004359 rank sum = 1,141.5
Observations (y) in Underweight Delta Female spleen weight = 6 median = 0.039662
U = 106.5 U' = 163.5

Exact probability (adjusted for ties):
Lower side P = 0.2085 (H1: x tends to be less than y)
Upper side P = 0.7915 (H1: x tends to be greater than y)
Two sided P = 0.417 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.605556 (95% CI: 0.367855 to 0.797334)

95.3% confidence interval for difference between medians or means:
Median difference = -0.17346 (CI: -1.07653 to 0.16739)

Mann-Whitney U test - BP vs no BP - SIGNIFICANT!

Observations (x) in Hypertension Delta Female spleen weight = 31 median = -0.327009 rank sum =

4,352.5
Observations (y) in No Hypertension Delta Female spleen weight = 346 median = -0.036444
U = 3,856.5 U' = 6,869.5

Exact probability (adjusted for ties):
Lower side P = 0.0046 (H1: x tends to be less than y)
Upper side P = 0.9954 (H1: x tends to be greater than y)
Two sided P = 0.0091 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.640453 (95% CI: 0.534548 to 0.7322)

95% confidence interval for difference between medians or means:
Median difference = -0.350795 (CI: -0.64331 to -0.10523)

Mann-Whitney U test not signif

Observations (x) in DM Delta Female spleen weight = 26 median = -0.032553 rank sum = 5,029.5
Observations (y) in No DM Delta Female spleen weight = 352 median = -0.043434
U = 4,678.5 U' = 4,473.5

Exact probability (adjusted for ties):
Lower side P = 0.425 (H1: x tends to be less than y)
Upper side P = 0.575 (H1: x tends to be greater than y)
Two sided P = 0.85 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.4888 (95% CI: 0.37789 to 0.601051)

95% confidence interval for difference between medians or means:
Median difference = 0.01858 (CI: -0.26452 to 0.30102)

Mann-Whitney U test OW vs Obese - not signif

Observations (x) in Overweight Delta Female Thymus weight = 67 median = -0.011791 rank sum = 4,097
Observations (y) in Obese Delta Female Thymus weight = 47 median = -0.041299
U = 1,819 U' = 1,330

Exact probability (adjusted for ties):
Lower side P = 0.0802 (H1: x tends to be less than y)
Upper side P = 0.9198 (H1: x tends to be greater than y)
Two sided P = 0.1603 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.422356 (95% CI: 0.322667 to 0.530239)

95.1% confidence interval for difference between medians or means:
Median difference = 0.11956 (CI: -0.03763 to 0.36219)

"Mann-Whitney U test

Observations (x) in OW Delta Female Thymus weight = 67 median = -0.011791 rank sum = 4,476
Observations (y) in Normal Delta Female Thymus weight = 55 median = -0.069681
U = 2,198 U' = 1,487

Exact probability (adjusted for ties):
Lower side P = 0.0337 (H1: x tends to be less than y)
Upper side P = 0.9663 (H1: x tends to be greater than y)
Two sided P = 0.0674 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.403528 (95% CI: 0.309497 to 0.506885)

95% confidence interval for difference between medians or means:
Median difference = 0.14312 (CI: -0.01026 to 0.38319)

Mann-Whitney U test

Observations (x) in Normal Delta Female Thymus weight = 55 median = -0.069681 rank sum = 2,788.5
Observations (y) in Obese Delta Female Thymus weight = 47 median = -0.041299
U = 1,248.5 U' = 1,336.5

Exact probability (adjusted for ties):
Lower side P = 0.385 (H1: x tends to be less than y)
Upper side P = 0.615 (H1: x tends to be greater than y)
Two sided P = 0.77 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.517021 (95% CI: 0.406495 to 0.625588)

95% confidence interval for difference between medians or means:
Median difference = -0.02326 (CI: -0.23033 to 0.18242)

Mann-Whitney U test UW vs obese - not signif

Observations (x) in Obese Delta Female Thymus weight = 47 median = -0.041299 rank sum = 1,295
Observations (y) in Underweight Delta Female Thymus weight = 7 median = -0.084561
U = 167 U' = 162

Exact probability:
Lower side P = 0.4799 (H1: x tends to be less than y)
Upper side P = 0.5201 (H1: x tends to be greater than y)
Two sided P = 0.9598 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.492401 (95% CI: 0.287175 to 0.700617)

95.1% confidence interval for difference between medians or means:
Median difference = 0.02643 (CI: -0.3982 to 0.45768)

Mann-Whitney U test BP vs no BP - not signif

Observations (x) in Hypertension Delta Female Thymus weight = 32 median = -0.211463 rank sum = 5,427
Observations (y) in No Hypertension Delta Female Thymus weight = 353 median = -0.043143
U = 4,899 U' = 6,397

Exact probability (adjusted for ties):
Lower side P = 0.1076 (H1: x tends to be less than y)
Upper side P = 0.8924 (H1: x tends to be greater than y)
Two sided P = 0.2152 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.566307 (95% CI: 0.462084 to 0.663924)

95% confidence interval for difference between medians or means:
Median difference = -0.153465 (CI: -0.45652 to 0.12008)

Mann-Whitney U test DM vs no DM - not signif.

Observations (x) in DM Delta Female Thymus weight = 27 median = -0.145675 rank sum = 4,688
Observations (y) in No DM Delta Female Thymus weight = 359 median = -0.041299
U = 4,310 U' = 5,383

Exact probability (adjusted for ties):
Lower side P = 0.1697 (H1: x tends to be less than y)
Upper side P = 0.8303 (H1: x tends to be greater than y)
Two sided P = 0.3394 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.555349 (95% CI: 0.443188 to 0.661125)

95% confidence interval for difference between medians or means:
Median difference = -0.12278 (CI: -0.40795 to 0.11371)

Mann-Whitney U test SGA vs Non SGA - SIGNIFICANT!

Observations (x) in SGA Delta Female Thymus weight = 76 median = -0.630227 rank sum = 5,130.5
Observations (y) in Non SGA Delta Female Thymus weight = 141 median = 0.125081
U = 2,204.5 U' = 8,511.5

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.79428 (95% CI: 0.72375 to 0.848751)

95% confidence interval for difference between medians or means:
Median difference = -1.00172 (CI: -1.30505 to -0.72859)

Mann-Whitney U test - AI vs UE - SIGNIFICANT!

Observations (x) in AI COD Delta Female Thymus weight = 72 median = 0.035993 rank sum = 12,670
Observations (y) in UE COD Delta Female Thymus weight = 233 median = -0.043543
U = 10,042 U' = 6,734

Normalised statistic = 2.528853 (adjusted for ties)
Lower side P = 0.9943 (H1: x tends to be less than y)
Upper side P = 0.0057 (H1: x tends to be greater than y)
Two sided P = 0.0114 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.401407 (95% CI: 0.330447 to 0.477728)

95% confidence interval for difference between medians or means:
Median difference = 0.11959 (CI: 0.02451 to 0.23959)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!

Observations (x) in UE COD Delta Female Thymus weight = 233 median = -0.043543 rank sum = 30,300.5
Observations (y) in Placenta COD Delta Female Thymus weight = 19 median = -0.553919
U = 3,039.5 U' = 1,387.5

Normalised statistic = 2.703697 (adjusted for ties)
Lower side P = 0.9966 (H1: x tends to be less than y)
Upper side P = 0.0034 (H1: x tends to be greater than y)
Two sided P = 0.0069 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.313418 (95% CI: 0.207985 to 0.447774)

95% confidence interval for difference between medians or means:
Median difference = 0.47687 (CI: 0.12452 to 0.84408)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Female Thyroid weight = 14 median = -0.574747 rank sum = 244
Observations (y) in Non SGA Delta Female Thyroid weight = 42 median = -0.086259
U = 139 U' = 449

Exact probability:
Lower side P = 0.0014 (H1: x tends to be less than y)
Upper side P = 0.9986 (H1: x tends to be greater than y)
Two sided P = 0.0027 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.763605 (95% CI: 0.590995 to 0.873247)

95.1% confidence interval for difference between medians or means:
Median difference = -0.481225 (CI: -0.81294 to -0.1744)

Mann-Whitney U test not signif

Observations (x) in COD AI Delta Female Thyroid weight = 6 median = -0.075033 rank sum = 165
Observations (y) in COD UE Delta Female Thyroid weight = 43 median = -0.11505
U = 144 U' = 114

Exact probability (adjusted for ties):
Lower side P = 0.3319 (H1: x tends to be less than y)
Upper side P = 0.6681 (H1: x tends to be greater than y)
Two sided P = 0.6639 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.44186 (95% CI: 0.236583 to 0.672648)

95.3% confidence interval for difference between medians or means:
Median difference = 0.114125 (CI: -0.37416 to 0.65643)

Mann-Whitney U test Mac vs non mac - SIGNIFICANT!

Observations (x) in Macerated Delta Female Brain weight = 264 median = -0.147302 rank sum = 42,842
Observations (y) in Non macerated Delta Female Brain weight = 108 median = 0.370243

U = 7,862 U' = 20,650

Normalised statistic = -6.79196 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.724256 (95% CI: 0.663853 to 0.776281)

95% confidence interval for difference between medians or means:
Median difference = -0.52287 (CI: -0.65466 to -0.38524)

Mann-Whitney U test mac vs non mac - SIGNIFICANT!

Observations (x) in Macerated Delta Female Liver weight = 280 median = -0.229789 rank sum = 46,908.5
Observations (y) in Non macerated Delta Female Liver weight = 116 median = 0.19691
U = 7,568.5 U' = 24,911.5

Normalised statistic = -8.365302 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.76698 (95% CI: 0.711448 to 0.813453)

95% confidence interval for difference between medians or means:
Median difference = -0.58066 (CI: -0.74022 to -0.44799)

Mann-Whitney U test Mac vs non Mac - SIGNIFICANT!

Observations (x) in Macerated Delta Female Thymus weight = 275 median = -0.094157 rank sum =

47,697
Observations (y) in Non macerated Delta Female Thymus weight = 111 median = 0.085735
U = 9,747 U' = 20,778

Normalised statistic = -5.558961 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.680688 (95% CI: 0.61921 to 0.735461)

95% confidence interval for difference between medians or means:
Median difference = -0.26446 (CI: -0.3982 to -0.15951)

Mann-Whitney U test- SIGNIFICANT!
Macerated lighter
Observations (x) in Mace ratedDelta Female combined adrenal weight = 279 median = -0.237005 rank sum = 48,480
Observations (y) in Non Macertaed Delta Female combined adrenal weight = 115 median = 0.258435
U = 9,420 U' = 22,665

Normalised statistic = -6.444125 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.706405 (95% CI: 0.646981 to 0.758485)

95% confidence interval for difference between medians or means:
Median difference = -0.5329 (CI: -0.68894 to -0.37746)

Mann-Whitney U test- significant!
Mac heart lighter
Observations (x) in Mac Delta Female Heart Weight = 283 median = -0.165992 rank sum = 49,280
Observations (y) in Non Mac Delta Female Heart Weight = 115 median = 0.265336
U = 9,094 U' = 23,451

Normalised statistic = -6.900751 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.720572 (95% CI: 0.662002 to 0.771389)

95% confidence interval for difference between medians or means:
Median difference = -0.46401 (CI: -0.58699 to -0.34379)

Mann-Whitney U test SOGNIFICANT!
Mac lighter
Observations (x) in Mac Delta Female Combined Kidney weight = 109 median = -0.222355 rank sum = 7,224.5
Observations (y) in Non Mac Delta Female Combined Kidney weight = 50 median = 0.22309
U = 1,229.5 U' = 4,220.5

Normalised statistic = -5.547795 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.774404 (95% CI: 0.685788 to 0.841339)

95% confidence interval for difference between medians or means:

Median difference = -0.56456 (CI: -0.76703 to -0.3707)

Mann-Whitney U test- SIGNIFICANT!
Mac lighter
Observations (x) in Mac Delta Female Combined lung weight = 86 median = -0.236588 rank sum = 4,490
Observations (y) in Non Mac Delta Female Combined lung weight = 37 median = 0.372205
U = 749 U' = 2,433

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.764613 (95% CI: 0.65999 to 0.84168)

95% confidence interval for difference between medians or means:
Median difference = -0.675965 (CI: -0.97324 to -0.41908)

Mann-Whitney U test SIGNIFICANT!
Mac lighter
Observations (x) in Mac Delta Female Pancreas weight = 213 median = -0.210185 rank sum = 30,200.5
Observations (y) in Non Mac Delta Female Pancreas weight = 96 median = -0.014669
U = 7,409.5 U' = 13,038.5

Normalised statistic = -3.872481 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P = 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.637642 (95% CI: 0.568784 to 0.700313)

95% confidence interval for difference between medians or means:
Median difference = -0.29729 (CI: -0.4511 to -0.14845)

Mann-Whitney U test SIGNIFICANT!
Mac lighter
Observations (x) in M acDelta Female spleen weight = 262 median = -0.124109 rank sum = 44,472.5
Observations (y) in Non Mac Delta Female spleen weight = 116 median = 0.039413
U = 10,019.5 U' = 20,372.5

Normalised statistic = -5.283596 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.670324 (95% CI: 0.608987 to 0.725414)

95% confidence interval for difference between medians or means:
Median difference = -0.30755 (CI: -0.47971 to -0.1753)

Mann-Whitney U test- SIGNIFICANT
Mac lighter
Observations (x) in Mac Delta Female Thyroid weight = 56 median = -0.292981 rank sum = 1,767
Observations (y) in Non Mac Delta Female Thyroid weight = 12 median = 0.157634
U = 171 U' = 501

Exact probability (adjusted for ties):
Lower side P = 0.0035 (H1: x tends to be less than y)
Upper side P = 0.9965 (H1: x tends to be greater than y)
Two sided P = 0.0069 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.745536 (95% CI: 0.566166 to 0.862688)

95% confidence interval for difference between medians or means:
Median difference = -0.499985 (CI: -0.90954 to -0.1391)

Males:

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Male combined Adrenal weight = 28 median = 0.42937 rank sum = 1,150
Observations (y) in Obese Delta Male combined Adrenal weight = 42 median = -0.058551
U = 744 U' = 432

Exact probability (adjusted for ties):
Lower side P = 0.0308 (H1: x tends to be less than y)
Upper side P = 0.9692 (H1: x tends to be greater than y)
Two sided P = 0.0616 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.367347 (95% CI: 0.250246 to 0.506355)

95% confidence interval for difference between medians or means:
Median difference = 0.555495 (CI: -0.03986 to 1.14704)

Mann-Whitney U test

Observations (x) in Overweight Delta Male combined Adrenal weight = 28 median = 0.42937 rank sum = 1,028.5
Observations (y) in Normal Delta Male combined Adrenal weight = 35 median = -0.045902
U = 622.5 U' = 357.5

Exact probability (adjusted for ties):
Lower side P = 0.0336 (H1: x tends to be less than y)
Upper side P = 0.9664 (H1: x tends to be greater than y)
Two sided P = 0.0671 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.364796 (95% CI: 0.244167 to 0.509354)

95% confidence interval for difference between medians or means:
Median difference = 0.45256 (CI: -0.05463 to 0.8824)

Mann-Whitney U test

Observations (x) in Normal Delta Male combined Adrenal weight = 35 median = -0.045902 rank sum = 1,404.5
Observations (y) in Obese Delta Male combined Adrenal weight = 42 median = -0.058551
U = 774.5 U' = 695.5

Exact probability (adjusted for ties):
Lower side P = 0.3448 (H1: x tends to be less than y)
Upper side P = 0.6552 (H1: x tends to be greater than y)
Two sided P = 0.6897 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.473129 (95% CI: 0.350014 to 0.600261)

95% confidence interval for difference between medians or means:
Median difference = 0.11731 (CI: -0.43501 to 0.69942)

Mann-Whitney U test not signif

Observations (x) in Obese Delta Male combined Adrenal weight = 42 median = -0.058551 rank sum =

1,100
Observations (y) in Underweight Delta Male combined Adrenal weight = 9 median = -0.356813
U = 197 U' = 181

Exact probability (adjusted for ties):
Lower side P = 0.4263 (H1: x tends to be less than y)
Upper side P = 0.5737 (H1: x tends to be greater than y)
Two sided P = 0.8525 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.478836 (95% CI: 0.291643 to 0.673177)

95.2% confidence interval for difference between medians or means:
Median difference = 0.051595 (CI: -0.8332 to 0.89855)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Male combined Adrenal weight = 99 median = -0.620872 rank sum = 8,170.5
Observations (y) in Non SGA Delta Male combined Adrenal weight = 153 median = 0.384822
U = 3,220.5 U' = 11,926.5

Normalised statistic = -7.702937 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.787384 (95% CI: 0.723453 to 0.838297)

95% confidence interval for difference between medians or means:
Median difference = -0.97399 (CI: -1.21408 to -0.75092)

Mann-Whitney U test Mac vs Non Mac - significant!
Macerated smaller adrenals
Observations (x) in Macerated Delta Male combined Adrenal weight = 205 median = -0.214898 rank sum = 24,621.5
Observations (y) in Non Macerated Delta Male combined Adrenal weight = 46 median = 0.429215
U = 3,506.5 U' = 5,923.5

Normalised statistic = -2.7157 (adjusted for ties)
Lower side P = 0.0033 (H1: x tends to be less than y)
Upper side P = 0.9967 (H1: x tends to be greater than y)
Two sided P = 0.0066 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.628155 (95% CI: 0.535955 to 0.71038)

95% confidence interval for difference between medians or means:
Median difference = -0.49879 (CI: -0.8334 to -0.144)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Male combined Adrenal weight = 26 median = -0.178382 rank sum = 3,057
Observations (y) in No Hypertension Delta Male combined Adrenal weight = 225 median = -0.136815
U = 2,706 U' = 3,144

Exact probability (adjusted for ties):
Lower side P = 0.2673 (H1: x tends to be less than y)
Upper side P = 0.7327 (H1: x tends to be greater than y)
Two sided P = 0.5347 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.537436 (95% CI: 0.421765 to 0.648468)

95% confidence interval for difference between medians or means:
Median difference = -0.139795 (CI: -0.59594 to 0.29106)

Mann-Whitney U test DM vs No DM - Significant!
DM have heavier adrenals
Observations (x) in DM Delta Male combined Adrenal weight = 15 median = 0.152678 rank sum = 2,496
Observations (y) in No DM Delta Male combined Adrenal weight = 237 median = -0.178754
U = 2,376 U' = 1,179

Exact probability (adjusted for ties):
Lower side P = 0.0139 (H1: x tends to be less than y)
Upper side P = 0.9861 (H1: x tends to be greater than y)
Two sided P = 0.0279 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.331646 (95% CI: 0.212823 to 0.48247)

95% confidence interval for difference between medians or means:
Median difference = 0.50511 (CI: 0.04496 to 0.96234)

Mann-Whitney U test - UE vs placenta SIGNIFICANT!
COD placenta have smaller adrenals than UE
Observations (x) in COD UE Delta Male combined Adrenal weight = 154 median = -0.015904 rank sum = 15,219
Observations (y) in COD placenta Delta Male combined Adrenal weight = 30 median = -0.74802
U = 3,284 U' = 1,336

Normalised statistic = 3.649586 (adjusted for ties)
Lower side P = 0.9999 (H1: x tends to be less than y)

Upper side P = 0.0001 (H1: x tends to be greater than y)
Two sided P = 0.0003 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.289177 (95% CI: 0.202014 to 0.399599)

95% confidence interval for difference between medians or means:
Median difference = 0.64852 (CI: 0.30939 to 0.98154)

Mann-Whitney U test UE vs AI - SIGNIFICANT!
UE smaller adrenals than AI
Observations (x) in COD AI Delta Male combined Adrenal weight = 21 median = 0.586726 rank sum = 2,346.5
Observations (y) in COD UE Delta Male combined Adrenal weight = 154 median = -0.015904
U = 2,115.5 U' = 1,118.5

Exact probability (adjusted for ties):
Lower side P = 0.0107 (H1: x tends to be less than y)
Upper side P = 0.9893 (H1: x tends to be greater than y)
Two sided P = 0.0214 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.345857 (95% CI: 0.237132 to 0.477687)

95% confidence interval for difference between medians or means:
Median difference = 0.56649 (CI: 0.0906 to 1.02011)

Mann-Whitney U test- Overweight vs Obese - not signif

Observations (x) in Overweight Delta Male Brain weight = 27 median = 0.04204 rank sum = 929
Observations (y) in Obese Delta Male Brain weight = 39 median = -0.118765

U = 551 U' = 502

Exact probability:
Lower side P = 0.378 (H1: x tends to be less than y)
Upper side P = 0.622 (H1: x tends to be greater than y)
Two sided P = 0.7559 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.476733 (95% CI: 0.342707 to 0.614851)

95% confidence interval for difference between medians or means:
Median difference = 0.09793 (CI: -0.36834 to 0.56321)

Observations (x) in OW Delta Male Brain weight = 27 median = 0.04204 rank sum = 812
Observations (y) in Normal Delta Male Brain weight = 34 median = 0.315838
U = 434 U' = 484

Exact probability:
Lower side P = 0.362 (H1: x tends to be less than y)
Upper side P = 0.638 (H1: x tends to be greater than y)
Two sided P = 0.724 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.527233 (95% CI: 0.384948 to 0.664472)

95.1% confidence interval for difference between medians or means:
Median difference = -0.07288 (CI: -0.56471 to 0.39073)

Mann-Whitney U test

Observations (x) in Normal Delta Male Brain weight = 34 median = 0.315838 rank sum = 1,324
Observations (y) in Obese Delta Male Brain weight = 39 median = -0.118765

U = 729 U' = 597

Exact probability:
Lower side P = 0.2356 (H1: x tends to be less than y)
Upper side P = 0.7644 (H1: x tends to be greater than y)
Two sided P = 0.4712 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.450226 (95% CI: 0.326511 to 0.581712)

95.1% confidence interval for difference between medians or means:
Median difference = 0.192455 (CI: -0.33868 to 0.65432)

Mann-Whitney U test - BP vs no BP - not signif

Observations (x) in Hypertension Delta Male Brain weight = 24 median = -0.055009 rank sum = 3,122
Observations (y) in No hypertension Delta Male Brain weight = 222 median = -0.026093
U = 2,822 U' = 2,506

Exact probability (adjusted for ties):
Lower side P = 0.318 (H1: x tends to be less than y)
Upper side P = 0.682 (H1: x tends to be greater than y)
Two sided P = 0.6359 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.470345 (95% CI: 0.354863 to 0.589761)

95% confidence interval for difference between medians or means:
Median difference = 0.102155 (CI: -0.30545 to 0.5186)

Mann-Whitney U test - DM vs no DM - No signif

Observations (x) in DM Delta Male Brain weight = 17 median = 0.211132 rank sum = 2,457
Observations (y) in No DM Delta Male Brain weight = 231 median = -0.041591
U = 2,304 U' = 1,623

Exact probability (adjusted for ties):
Lower side P = 0.1178 (H1: x tends to be less than y)
Upper side P = 0.8822 (H1: x tends to be greater than y)
Two sided P = 0.2357 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.413293 (95% CI: 0.287038 to 0.554721)

95% confidence interval for difference between medians or means:
Median difference = 0.25918 (CI: -0.16843 to 0.68579)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Male Brain weight = 94 median = -0.522619 rank sum = 8,016
Observations (y) in Non SGA Delta Male Brain weight = 158 median = 0.308405
U = 3,551 U' = 11,301

Normalised statistic = -6.924844 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.760908 (95% CI: 0.694001 to 0.815511)

95% confidence interval for difference between medians or means:
Median difference = -0.847475 (CI: -1.07173 to -0.63514)

Mann-Whitney U test AI vs UE - not signif

Observations (x) in AI Delta Male Brain weight = 21 median = 0.243145 rank sum = 2,049
Observations (y) in UE Delta Male Brain weight = 155 median = 0.105088
U = 1,818 U' = 1,437

Exact probability (adjusted for ties):
Lower side P = 0.194 (H1: x tends to be less than y)
Upper side P = 0.806 (H1: x tends to be greater than y)
Two sided P = 0.3879 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.441475 (95% CI: 0.320146 to 0.571752)

95% confidence interval for difference between medians or means:
Median difference = 0.16139 (CI: -0.18363 to 0.48329)

Mann-Whitney U test - UE vs Placenta - SIGNIFICANT!!

Observations (x) in UE Delta Male Brain weight = 155 median = 0.105088 rank sum = 15,439
Observations (y) in Placenta Delta Male Brain weight = 29 median = -0.744089
U = 3,349 U' = 1,146

Normalised statistic = 4.184321 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.25495 (95% CI: 0.172581 to 0.364543)

95% confidence interval for difference between medians or means:

Median difference = 0.83034 (CI: 0.47391 to 1.18526)

Mann-Whitney U test- Mac vs non mac - SIGNIFICANT!

Observations (x) in Macerated Delta Male Brain weight = 206 median = -0.137634 rank sum = 24,141.5
Observations (y) in Non Macerated Delta Male Brain weight = 41 median = 0.388433
U = 2,820.5 U' = 5,625.5

Normalised statistic = -3.356931 (adjusted for ties)
Lower side P = 0.0004 (H1: x tends to be less than y)
Upper side P = 0.9996 (H1: x tends to be greater than y)
Two sided P = 0.0008 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.666055 (95% CI: 0.570274 to 0.747885)

95% confidence interval for difference between medians or means:
Median difference = -0.534965 (CI: -0.82958 to -0.24123)

Mann-Whitney U test UE vs Placenta - significant
Placenta COD have lighter kidneys than UE
Observations (x) in COD UE Delta male combined kidney weight = 56 median = 0.213252 rank sum = 2,206
Observations (y) in COD Placenta Delta male combined kidney weight = 13 median = -0.884312
U = 610 U' = 118

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.162088 (95% CI: 0.076761 to 0.324113)

95% confidence interval for difference between medians or means:
Median difference = 1.037785 (CI: 0.59994 to 1.71626)

Mann-Whitney U test AI vs UE not signif

Observations (x) in COD AI Delta male combined kidney weight = 8 median = 0.600033 rank sum = 269
Observations (y) in COD UE Delta male combined kidney weight = 56 median = 0.213252
U = 233 U' = 215

Exact probability:
Lower side P = 0.4328 (H1: x tends to be less than y)
Upper side P = 0.5672 (H1: x tends to be greater than y)
Two sided P = 0.8656 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.479911 (95% CI: 0.288454 to 0.678455)

95.1% confidence interval for difference between medians or means:
Median difference = 0.103065 (CI: -0.82889 to 0.95323)

Mann-Whitney U test SGA vs No SGA - significant!
SGA kidneys lighter
Observations (x) in SGA Delta male combined kidney weight = 42 median = -0.443889 rank sum = 1,342
Observations (y) in Non SGA Delta male combined kidney weight = 53 median = 0.619412
U = 439 U' = 1,787

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.802785 (95% CI: 0.696596 to 0.875242)

95% confidence interval for difference between medians or means:
Median difference = -1.037385 (CI: -1.4824 to -0.72745)

Mann-Whitney U test mac vs no mac - not signif

Observations (x) in Macerated Delta male combined kidney weight = 72 median = -0.26661 rank sum = 3,115.5
Observations (y) in Non Macerated Delta male combined kidney weight = 19 median = 0.419309
U = 487.5 U' = 880.5

Exact probability (adjusted for ties):
Lower side P = 0.0274 (H1: x tends to be less than y)
Upper side P = 0.9726 (H1: x tends to be greater than y)
Two sided P = 0.0547 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.64364 (95% CI: 0.496917 to 0.764275)

95% confidence interval for difference between medians or means:
Median difference = -0.56449 (CI: -1.13366 to 0.01103)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta male combined kidney weight = 39 median = -0.548555 rank sum =

1,130.5
Observations (y) in Non SGA Delta male combined kidney weight = 53 median = 0.619412
U = 350.5 U' = 1,716.5

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.830431 (95% CI: 0.72578 to 0.897652)

95% confidence interval for difference between medians or means:
Median difference = -1.13325 (CI: -1.55607 to -0.82276)

Mann-Whitney U test BP vs no BP not signif

Observations (x) in Hypertension Delta male combined kidney weight = 11 median = -0.272127 rank sum = 468.5
Observations (y) in No Hypertension Delta male combined kidney weight = 81 median = -0.108915
U = 402.5 U' = 488.5

Exact probability (adjusted for ties):
Lower side P = 0.3052 (H1: x tends to be less than y)
Upper side P = 0.6948 (H1: x tends to be greater than y)
Two sided P = 0.6104 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.54826 (95% CI: 0.372733 to 0.710758)

95.1% confidence interval for difference between medians or means:
Median difference = -0.16428 (CI: -0.89242 to 0.50501)

Mann-Whitney U test DM vs no DM not signif

Observations (x) in DM Delta male combined kidney weight = 3 median = 1.375557 rank sum = 208.5
Observations (y) in No DM Delta male combined kidney weight = 89 median = -0.112607
U = 202.5 U' = 64.5

Exact probability (adjusted for ties):
Lower side P = 0.068 (H1: x tends to be less than y)
Upper side P = 0.932 (H1: x tends to be greater than y)
Two sided P = 0.1361 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.241573 (95% CI: 0.078025 to 0.57135)

confidence interval not calculated if n1 or n2 < 4

Mann-Whitney U test not signif

Observations (x) in Normal Delta male combined kidney weight = 16 median = -0.355366 rank sum = 227
Observations (y) in Overweight Delta male combined kidney weight = 13 median = -0.108915
U = 91 U' = 117

Exact probability:
Lower side P = 0.2945 (H1: x tends to be less than y)
Upper side P = 0.7055 (H1: x tends to be greater than y)
Two sided P = 0.589 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.5625 (95% CI: 0.358136 to 0.745104)

95% confidence interval for difference between medians or means:

Median difference = -0.2058 (CI: -0.80691 to 0.65528)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta male combined kidney weight = 13 median = -0.108915 rank sum = 212
Observations (y) in Obese Delta male combined kidney weight = 15 median = -0.405046
U = 121 U' = 74

Exact probability:
Lower side P = 0.1472 (H1: x tends to be less than y)
Upper side P = 0.8528 (H1: x tends to be greater than y)
Two sided P = 0.2945 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.379487 (95% CI: 0.208547 to 0.593117)

95.4% confidence interval for difference between medians or means:
Median difference = 0.41527 (CI: -0.41953 to 1.19765)

Mann-Whitney U test not signif

Observations (x) in Obese Delta male combined kidney weight = 15 median = -0.405046 rank sum = 222
Observations (y) in Normal Delta male combined kidney weight = 16 median = -0.355366
U = 102 U' = 138

Exact probability:
Lower side P = 0.2473 (H1: x tends to be less than y)
Upper side P = 0.7527 (H1: x tends to be greater than y)
Two sided P = 0.4945 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.575 (95% CI: 0.376096 to 0.74939)

95.1% confidence interval for difference between medians or means:
Median difference = -0.231545 (CI: -1.07055 to 0.45024)

Mann-Whitney U test

Observations (x) in OW Delta Male liver weight = 28 median = 0.251838 rank sum = 969
Observations (y) in Normal Delta Male liver weight = 36 median = -0.114175
U = 563 U' = 445

Exact probability:
Lower side P = 0.2156 (H1: x tends to be less than y)
Upper side P = 0.7844 (H1: x tends to be greater than y)
Two sided P = 0.4312 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.441468 (95% CI: 0.310574 to 0.58275)

95.2% confidence interval for difference between medians or means:
Median difference = 0.176145 (CI: -0.28492 to 0.70849)

Mann-Whitney U test OW vs obese - not signif

Observations (x) in Overweight Delta Male liver weight = 28 median = 0.251838 rank sum = 1,102
Observations (y) in Obese Delta Male liver weight = 44 median = -0.360678
U = 696 U' = 536

Exact probability:
Lower side P = 0.1804 (H1: x tends to be less than y)

Upper side P = 0.8196 (H1: x tends to be greater than y)
Two sided P = 0.3608 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.435065 (95% CI: 0.309716 to 0.571096)

95% confidence interval for difference between medians or means:
Median difference = 0.305035 (CI: -0.29965 to 0.91391)

Mann-Whitney U test

Observations (x) in Normal Delta Male liver weight = 36 median = -0.114175 rank sum = 1,515
Observations (y) in Obese Delta Male liver weight = 44 median = -0.360678
U = 849 U' = 735

Exact probability:
Lower side P = 0.2934 (H1: x tends to be less than y)
Upper side P = 0.7066 (H1: x tends to be greater than y)
Two sided P = 0.5867 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.464015 (95% CI: 0.343767 to 0.589462)

95% confidence interval for difference between medians or means:
Median difference = 0.1369 (CI: -0.33098 to 0.59722)

Mann-Whitney U test - UW vs obese - not signif

Observations (x) in Obese Delta Male liver weight = 44 median = -0.360678 rank sum = 1,187
Observations (y) in Underweight Delta Male liver weight = 9 median = -0.257219
U = 197 U' = 199

Exact probability:

Lower side P = 0.4954 (H1: x tends to be less than y)
Upper side P = 0.5046 (H1: x tends to be greater than y)
Two sided P = 0.9907 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.502525 (95% CI: 0.311887 to 0.692316)

95.1% confidence interval for difference between medians or means:
Median difference = -0.01118 (CI: -0.67584 to 0.87492)

Mann-Whitney U test- BP vs np BP not signif

Observations (x) in Hypertension Delta Male liver weight = 26 median = -0.226221 rank sum = 3,293.5
Observations (y) in No Hypertension Delta Male liver weight = 231 median = -0.230568
U = 2,942.5 U' = 3,063.5

Exact probability (adjusted for ties):
Lower side P = 0.4337 (H1: x tends to be less than y)
Upper side P = 0.5663 (H1: x tends to be greater than y)
Two sided P = 0.8675 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.510073 (95% CI: 0.395925 to 0.622975)

95% confidence interval for difference between medians or means:
Median difference = -0.034835 (CI: -0.42563 to 0.32673)

Mann-Whitney U test- DM vs no DM not signif

Observations (x) in DM Delta Male liver weight = 16 median = 0.383175 rank sum = 2,583.5
Observations (y) in No DM Delta Male liver weight = 242 median = -0.249047
U = 2,447.5 U' = 1,424.5

Exact probability (adjusted for ties):
Lower side P = 0.0384 (H1: x tends to be less than y)
Upper side P = 0.9616 (H1: x tends to be greater than y)
Two sided P = 0.0768 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.367898 (95% CI: 0.245655 to 0.514158)

95% confidence interval for difference between medians or means:
Median difference = 0.55513 (CI: -0.05712 to 1.13528)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Male liver weight = 100 median = -0.596779 rank sum = 8,671
Observations (y) in Non SGA Delta Male liver weight = 162 median = 0.195342
U = 3,621 U' = 12,579

Normalised statistic = -7.516864 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.776481 (95% CI: 0.712566 to 0.828106)

95% confidence interval for difference between medians or means:
Median difference = -0.902745 (CI: -1.14799 to -0.66763)

Mann-Whitney U test- AI vs UE - SIGNIFICANT!

Observations (x) in AI Delta Male liver weight = 21 median = 0.589701 rank sum = 2,568
Observations (y) in UE Delta Male liver weight = 160 median = -0.171968
U = 2,337 U' = 1,023

Exact probability:
Lower side P = 0.0016 (H1: x tends to be less than y)
Upper side P = 0.9984 (H1: x tends to be greater than y)
Two sided P = 0.0032 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.304464 (95% CI: 0.202894 to 0.434777)

95.1% confidence interval for difference between medians or means:
Median difference = 0.71866 (CI: 0.23435 to 1.1939)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!

Observations (x) in UE Delta Male liver weight = 160 median = -0.171968 rank sum = 16,330
Observations (y) in Placenta Delta Male liver weight = 29 median = -0.738443
U = 3,450 U' = 1,190

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.256466 (95% CI: 0.174 to 0.365884)

95% confidence interval for difference between medians or means:
Median difference = 0.661225 (CI: 0.34839 to 1.01854)

Mann-Whitney U test mac vs non mac - SIGNIFICANT!!

Observations (x) in Macerated Delta Male liver weight = 209 median = -0.394742 rank sum = 23,865
Observations (y) in Non Macerated Delta Male liver weight = 48 median = 0.730075
U = 1,920 U' = 8,112

Normalised statistic = -6.666351 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.808612 (95% CI: 0.729986 to 0.866359)

95% confidence interval for difference between medians or means:
Median difference = -1.17368 (CI: -1.52276 to -0.87376)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Male Combined Lung weight = 8 median = 0.117854 rank sum = 81
Observations (y) in Obese Delta Male Combined Lung weight = 9 median = -0.615264
U = 45 U' = 27

Exact probability:
Lower side P = 0.2117 (H1: x tends to be less than y)
Upper side P = 0.7883 (H1: x tends to be greater than y)
Two sided P = 0.4234 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.375 (95% CI: 0.171093 to 0.643835)

95.4% confidence interval for difference between medians or means:
Median difference = 0.43327 (CI: -1.00187 to 1.59761)

Mann-Whitney U test not signif

Observations (x) in Normal Delta Male Combined Lung weight = 12 median = -0.242466 rank sum = 125
Observations (y) in Overweight Delta Male Combined Lung weight = 8 median = 0.117854
U = 47 U' = 49

Exact probability:
Lower side P = 0.485 (H1: x tends to be less than y)
Upper side P = 0.515 (H1: x tends to be greater than y)
Two sided P = 0.9699 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.510417 (95% CI: 0.277924 to 0.737947)

95.3% confidence interval for difference between medians or means:
Median difference = -0.05914 (CI: -1.06206 to 1.45268)

Mann-Whitney U test not signif

Observations (x) in Normal Delta Male Combined Lung weight = 12 median = -0.242466 rank sum = 145
Observations (y) in Obese Delta Male Combined Lung weight = 9 median = -0.615264
U = 67 U' = 41

Exact probability:
Lower side P = 0.1912 (H1: x tends to be less than y)
Upper side P = 0.8088 (H1: x tends to be greater than y)
Two sided P = 0.3824 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.37963 (95% CI: 0.188024 to 0.625334)

95.1% confidence interval for difference between medians or means:

Median difference = 0.436445 (CI: -0.689 to 2.04233)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Male Combined Lung weight = 9 median = -0.328659 rank sum = 321
Observations (y) in No Hypertension Delta Male Combined Lung weight = 65 median = -0.315802
U = 276 U' = 309

Exact probability:
Lower side P = 0.3974 (H1: x tends to be less than y)
Upper side P = 0.6026 (H1: x tends to be greater than y)
Two sided P = 0.7947 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.528205 (95% CI: 0.338628 to 0.708764)

95% confidence interval for difference between medians or means:
Median difference = -0.15596 (CI: -0.88229 to 0.67075)

Mann-Whitney U test not signif. Number too small.

Observations (x) in DM Delta Male Combined Lung weight = 3 median = 0.059094 rank sum = 124
Observations (y) in No DM Delta Male Combined Lung weight = 70 median = -0.322231
U = 118 U' = 92

Exact probability:
Lower side P = 0.3715 (H1: x tends to be less than y)
Upper side P = 0.6285 (H1: x tends to be greater than y)
Two sided P = 0.743 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.438095 (95% CI: 0.187553 to 0.729533)

confidence interval not calculated if n1 or n2 < 4

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Male Combined Lung weight = 34 median = -0.671579 rank sum = 885
Observations (y) in Non SGA Delta Male Combined Lung weight = 41 median = 0.360341
U = 290 U' = 1,104

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.791966 (95% CI: 0.669199 to 0.873904)

95.1% confidence interval for difference between medians or means:
Median difference = -1.103295 (CI: -1.60737 to -0.61546)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!
Placenta COD lungs lighter
Observations (x) in COD UE Delta Male Combined Lung weight = 43 median = -0.104404 rank sum = 1,305
Observations (y) in COD Placenta Delta Male Combined Lung weight = 10 median = -0.898292
U = 359 U' = 71

Exact probability:
Lower side P = 0.0003 (H1: x tends to be less than y)

Upper side P = 0.9997 (H1: x tends to be greater than y)
Two sided P = 0.0006 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.165116 (95% CI: 0.071116 to 0.355334)

95.2% confidence interval for difference between medians or means:
Median difference = 0.93111 (CI: 0.38415 to 1.59828)

Mann-Whitney U test AI vs UE - not signif

Observations (x) in COD AI Delta Male Combined Lung weight = 8 median = 0.383541 rank sum = 234
Observations (y) in COD UE Delta Male Combined Lung weight = 43 median = -0.104404
U = 198 U' = 146

Exact probability:
Lower side P = 0.2581 (H1: x tends to be less than y)
Upper side P = 0.7419 (H1: x tends to be greater than y)
Two sided P = 0.5161 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.424419 (95% CI: 0.241601 to 0.634643)

95.1% confidence interval for difference between medians or means:
Median difference = 0.320955 (CI: -0.92306 to 1.03681)

Mann-Whitney U test Mac vs no Mac - SIGNIFICANT!
Mac lungs lighter
Observations (x) in Macerated Delta Male Combined Lung weight = 55 median = -0.442166 rank sum = 1,810
Observations (y) in No maceration Delta Male Combined Lung weight = 17 median = 0.488464

U = 270 U' = 665

Exact probability:
Lower side P = 0.0041 (H1: x tends to be less than y)
Upper side P = 0.9959 (H1: x tends to be greater than y)
Two sided P = 0.0081 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.71123 (95% CI: 0.554268 to 0.825428)

95.1% confidence interval for difference between medians or means:
Median difference = -0.91325 (CI: -1.53991 to -0.34834)

Mann-Whitney U test obs vs OW not signif

Observations (x) in Overweight Delta Male pancreas weight = 27 median = 0.240314 rank sum = 924.5
Observations (y) in Obese Delta Male pancreas weight = 38 median = 0.327697
U = 546.5 U' = 479.5

Exact probability (adjusted for ties):
Lower side P = 0.3301 (H1: x tends to be less than y)
Upper side P = 0.6699 (H1: x tends to be greater than y)
Two sided P = 0.6602 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.467349 (95% CI: 0.333642 to 0.606851)

95.1% confidence interval for difference between medians or means:
Median difference = 0.237375 (CI: -1.06097 to 1.65486)

Mann-Whitney U test

Observations (x) in Overweight Delta Male pancreas weight = 27 median = 0.240314 rank sum = 811
Observations (y) in Normal Delta Male pancreas weight = 29 median = 0.087264
U = 433 U' = 350

Exact probability:
Lower side P = 0.2522 (H1: x tends to be less than y)
Upper side P = 0.7478 (H1: x tends to be greater than y)
Two sided P = 0.5044 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.446999 (95% CI: 0.308251 to 0.596214)

95.1% confidence interval for difference between medians or means:
Median difference = 0.47056 (CI: -0.95847 to 2.11519)

Mann-Whitney U test

Observations (x) in Normal Delta Male pancreas weight = 29 median = 0.087264 rank sum = 966.5
Observations (y) in Obese Delta Male pancreas weight = 38 median = 0.327697
U = 531.5 U' = 570.5

Exact probability (adjusted for ties):
Lower side P = 0.4044 (H1: x tends to be less than y)
Upper side P = 0.5956 (H1: x tends to be greater than y)
Two sided P = 0.8088 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.517695 (95% CI: 0.381939 to 0.650423)

95.1% confidence interval for difference between medians or means:
Median difference = -0.26711 (CI: -1.81849 to 1.31777)

Mann-Whitney U test DM vs no DM - not signif

Observations (x) in DM Delta Male pancreas weight = 13 median = 1.699648 rank sum = 1,710
Observations (y) in No DM Delta Male pancreas weight = 192 median = 0.035684
U = 1,619 U' = 877

Exact probability (adjusted for ties):
Lower side P = 0.0365 (H1: x tends to be less than y)
Upper side P = 0.9635 (H1: x tends to be greater than y)
Two sided P = 0.073 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.351362 (95% CI: 0.221263 to 0.51383)

95% confidence interval for difference between medians or means:
Median difference = 1.578585 (CI: -0.16675 to 3.71604)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Male pancreas weight = 23 median = 0.660844 rank sum = 2,684.5
Observations (y) in No Hypertension Delta Male pancreas weight = 181 median = 0.045412
U = 2,408.5 U' = 1,754.5

Exact probability (adjusted for ties):
Lower side P = 0.111 (H1: x tends to be less than y)
Upper side P = 0.889 (H1: x tends to be greater than y)
Two sided P = 0.222 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.421451 (95% CI: 0.307503 to 0.546347)

95% confidence interval for difference between medians or means:
Median difference = 0.70512 (CI: -0.47865 to 1.86818)

Mann-Whitney U test- not signif

Observations (x) in SGA Delta Male pancreas weight = 71 median = 0.541467 rank sum = 7,822
Observations (y) in Non SGA Delta Male pancreas weight = 135 median = -0.188047
U = 5,266 U' = 4,319

Exact probability (adjusted for ties):
Lower side P = 0.1226 (H1: x tends to be less than y)
Upper side P = 0.8774 (H1: x tends to be greater than y)
Two sided P = 0.2451 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.4506 (95% CI: 0.370867 to 0.533519)

95% confidence interval for difference between medians or means:
Median difference = 0.42066 (CI: -0.28504 to 1.0537)

Mann-Whitney U test mac vs non mac - not signif

Observations (x) in Macerated Delta Male pancreas weight = 165 median = 0.111087 rank sum = 17,073
Observations (y) in Non Macerated Delta Male pancreas weight = 39 median = -0.136472
U = 3,378 U' = 3,057

Normalised statistic = 0.484079 (adjusted for ties)
Lower side P = 0.6858 (H1: x tends to be less than y)
Upper side P = 0.3142 (H1: x tends to be greater than y)
Two sided P = 0.6283 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.475058 (95% CI: 0.377783 to 0.574667)

95% confidence interval for difference between medians or means:

Median difference = 0.19336 (CI: -0.66823 to 1.05045)

Mann-Whitney U test AI vs UE not signif

Observations (x) in COD AI Delta Male pancreas weight = 14 median = 0.476463 rank sum = 1,255.5
Observations (y) in COD UE Delta Male pancreas weight = 136 median = -0.16226
U = 1,150.5 U' = 753.5

Exact probability (adjusted for ties):
Lower side P = 0.1013 (H1: x tends to be less than y)
Upper side P = 0.8987 (H1: x tends to be greater than y)
Two sided P = 0.2025 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.395746 (95% CI: 0.259678 to 0.55395)

95% confidence interval for difference between medians or means:
Median difference = 0.755065 (CI: -0.37925 to 2.09186)

Mann-Whitney U test Placent vs UE not signif

Observations (x) in COD UE Delta Male pancreas weight = 136 median = -0.16226 rank sum = 10,435.5
Observations (y) in COD Placenta Delta Male pancreas weight = 19 median = 0.579237
U = 1,119.5 U' = 1,464.5

Normalised statistic = -0.941182 (adjusted for ties)
Lower side P = 0.1733 (H1: x tends to be less than y)
Upper side P = 0.8267 (H1: x tends to be greater than y)
Two sided P = 0.3466 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.566757 (95% CI: 0.42943 to 0.692883)

95% confidence interval for difference between medians or means:
Median difference = -0.502135 (CI: -1.54838 to 0.61704)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Male spleen weight = 28 median = -0.06735 rank sum = 929.5
Observations (y) in Obese Delta Male spleen weight = 49 median = 0.408361
U = 523.5 U' = 848.5

Exact probability (adjusted for ties):
Lower side P = 0.0429 (H1: x tends to be less than y)
Upper side P = 0.9571 (H1: x tends to be greater than y)
Two sided P = 0.0858 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.61844 (95% CI: 0.483623 to 0.734657)

95.1% confidence interval for difference between medians or means:
Median difference = -0.66701 (CI: -1.56858 to 0.076)

Mann-Whitney U test

Observations (x) in Overweight Delta Male spleen weight = 28 median = -0.06735 rank sum = 811.5
Observations (y) in normal Delta Male spleen weight = 36 median = 0.278793
U = 405.5 U' = 602.5

Exact probability (adjusted for ties):
Lower side P = 0.0925 (H1: x tends to be less than y)
Upper side P = 0.9075 (H1: x tends to be greater than y)
Two sided P = 0.1849 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.597718 (95% CI: 0.454756 to 0.723437)

95.2% confidence interval for difference between medians or means:
Median difference = -0.38666 (CI: -1.12329 to 0.21872)

Mann-Whitney U test

Observations (x) in normal Delta Male spleen weight = 36 median = 0.278793 rank sum = 1,475
Observations (y) in Obese Delta Male spleen weight = 49 median = 0.408361
U = 809 U' = 955

Exact probability (adjusted for ties):
Lower side P = 0.2598 (H1: x tends to be less than y)
Upper side P = 0.7402 (H1: x tends to be greater than y)
Two sided P = 0.5196 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.541383 (95% CI: 0.41848 to 0.658563)

95% confidence interval for difference between medians or means:
Median difference = -0.215145 (CI: -0.89159 to 0.48281)

Mann-Whitney U test not signif

Observations (x) in Obese Delta Male spleen weight = 49 median = 0.408361 rank sum = 1,404
Observations (y) in Underweight Delta Male spleen weight = 9 median = 1.107053
U = 179 U' = 262

Exact probability:
Lower side P = 0.1924 (H1: x tends to be less than y)
Upper side P = 0.8076 (H1: x tends to be greater than y)
Two sided P = 0.3848 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.594104 (95% CI: 0.392939 to 0.76434)

95% confidence interval for difference between medians or means:
Median difference = -0.70157 (CI: -2.28531 to 1.0366)

Mann-Whitney U test not signif

Observations (x) in Hypertension Delta Male spleen weight = 25 median = 0.279869 rank sum = 3,352.5
Observations (y) in No Hypertension Delta Male spleen weight = 228 median = 0.139803
U = 3,027.5 U' = 2,672.5

Exact probability (adjusted for ties):
Lower side P = 0.3059 (H1: x tends to be less than y)
Upper side P = 0.6941 (H1: x tends to be greater than y)
Two sided P = 0.6118 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.46886 (95% CI: 0.355576 to 0.586126)

95% confidence interval for difference between medians or means:
Median difference = 0.187735 (CI: -0.60815 to 0.97859)

Mann-Whitney U test not signif

Observations (x) in DM Delta Male spleen weight = 16 median = 0.286342 rank sum = 2,155
Observations (y) in No DM Delta Male spleen weight = 241 median = 0.126829
U = 2,019 U' = 1,837

Exact probability (adjusted for ties):

Lower side P = 0.3774 (H1: x tends to be less than y)
Upper side P = 0.6226 (H1: x tends to be greater than y)
Two sided P = 0.7549 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.4764 (95% CI: 0.339401 to 0.617761)

95% confidence interval for difference between medians or means:
Median difference = 0.09818 (CI: -0.67191 to 0.76362)

Mann-Whitney U test mac vs non mac - not signif

Observations (x) in Macerated Delta Male spleen weight = 206 median = 0.212711 rank sum = 26,839
Observations (y) in Non Macerated Delta Male spleen weight = 47 median = -0.07122
U = 5,518 U' = 4,164

Normalised statistic = 1.495481 (adjusted for ties)
Lower side P = 0.9326 (H1: x tends to be less than y)
Upper side P = 0.0674 (H1: x tends to be greater than y)
Two sided P = 0.1348 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.430076 (95% CI: 0.343958 to 0.521613)

95% confidence interval for difference between medians or means:
Median difference = 0.335085 (CI: -0.11553 to 0.77038)

Mann-Whitney U test- not signif

Observations (x) in SGA Delta Male spleen weight = 101 median = 0.277716 rank sum = 13,672.5
Observations (y) in Non SGA Delta Male spleen weight = 156 median = -0.040245
U = 8,521.5 U' = 7,234.5

Normalised statistic = 1.105624 (adjusted for ties)

Lower side P = 0.8656 (H1: x tends to be less than y)
Upper side P = 0.1344 (H1: x tends to be greater than y)
Two sided P = 0.2689 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.459158 (95% CI: 0.388951 to 0.531385)

95% confidence interval for difference between medians or means:
Median difference = 0.210425 (CI: -0.17974 to 0.54974)

Mann-Whitney U test not signif

Observations (x) in COD AI Delta Male spleen weight = 19 median = -0.373458 rank sum = 1,446.5
Observations (y) in COD UE Delta Male spleen weight = 158 median = 0.05783
U = 1,256.5 U' = 1,745.5

Exact probability (adjusted for ties):
Lower side P = 0.1245 (H1: x tends to be less than y)
Upper side P = 0.8755 (H1: x tends to be greater than y)
Two sided P = 0.2491 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.581446 (95% CI: 0.444702 to 0.704766)

95% confidence interval for difference between medians or means:
Median difference = -0.31631 (CI: -0.83502 to 0.26412)

Mann-Whitney U test not signif

Observations (x) in COD UE Delta Male spleen weight = 158 median = 0.05783 rank sum = 14,489.5
Observations (y) in COD placenta Delta Male spleen weight = 29 median = 0.676528

U = 1,928.5 U' = 2,653.5

Normalised statistic = -1.352985 (adjusted for ties)
Lower side P = 0.088 (H1: x tends to be less than y)
Upper side P = 0.912 (H1: x tends to be greater than y)
Two sided P = 0.1761 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.579114 (95% CI: 0.464853 to 0.684058)

95% confidence interval for difference between medians or means:
Median difference = -0.41911 (CI: -0.98335 to 0.23775)
Mann-Whitney U test

Observations (x) in OW Delta Male Thymus weight = 28 median = -0.147124 rank sum = 875.5
Observations (y) in Normal Delta Male Thymus weight = 36 median = -0.091578
U = 469.5 U' = 538.5

Exact probability (adjusted for ties):
Lower side P = 0.3226 (H1: x tends to be less than y)
Upper side P = 0.6774 (H1: x tends to be greater than y)
Two sided P = 0.6452 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.534226 (95% CI: 0.394456 to 0.66791)

95.2% confidence interval for difference between medians or means:
Median difference = -0.11705 (CI: -0.53744 to 0.27225)

Mann-Whitney U test overweight vs obese - not signif

Observations (x) in Overweight Delta Male Thymus weight = 28 median = -0.147124 rank sum = 1,013

Observations (y) in Obese Delta Male Thymus weight = 43 median = -0.201964
U = 607 U' = 597

Exact probability (adjusted for ties):
Lower side P = 0.4779 (H1: x tends to be less than y)
Upper side P = 0.5221 (H1: x tends to be greater than y)
Two sided P = 0.9558 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.495847 (95% CI: 0.363786 to 0.6286)

95% confidence interval for difference between medians or means:
Median difference = 0.00723 (CI: -0.5499 to 0.52068)

Mann-Whitney U test

Observations (x) in Normal Delta Male Thymus weight = 36 median = -0.091578 rank sum = 1,506
Observations (y) in Obese Delta Male Thymus weight = 43 median = -0.201964
U = 840 U' = 708

Exact probability (adjusted for ties):
Lower side P = 0.2598 (H1: x tends to be less than y)
Upper side P = 0.7402 (H1: x tends to be greater than y)
Two sided P = 0.5196 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.457364 (95% CI: 0.337158 to 0.583786)

95.1% confidence interval for difference between medians or means:
Median difference = 0.17357 (CI: -0.30562 to 0.66209)

Mann-Whitney U test- UW vs obese - not signif

Observations (x) in Obese Delta Male Thymus weight = 43 median = -0.201964 rank sum = 1,117
Observations (y) in Underweight Delta Male Thymus weight = 9 median = 0.042587
U = 171 U' = 216

Exact probability:
Lower side P = 0.3003 (H1: x tends to be less than y)
Upper side P = 0.6997 (H1: x tends to be greater than y)
Two sided P = 0.6005 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.55814 (95% CI: 0.358958 to 0.737792)

95.1% confidence interval for difference between medians or means:
Median difference = -0.29185 (CI: -1.09456 to 0.69096)

Mann-Whitney U test BP vs no BP - Not signif

Observations (x) in Hypertension Delta Male Thymus weight = 26 median = -0.275827 rank sum = 2,967
Observations (y) in No Hypertension Delta Male Thymus weight = 229 median = -0.144582
U = 2,616 U' = 3,338

Exact probability (adjusted for ties):
Lower side P = 0.1567 (H1: x tends to be less than y)
Upper side P = 0.8433 (H1: x tends to be greater than y)
Two sided P = 0.3133 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.560632 (95% CI: 0.444204 to 0.669577)

95% confidence interval for difference between medians or means:
Median difference = -0.15815 (CI: -0.47784 to 0.15396)

Mann-Whitney U test- DM vs no DM not signif.

Observations (x) in DM Delta Male Thymus weight = 16 median = 0.170297 rank sum = 2,458
Observations (y) in No DM Delta Male Thymus weight = 240 median = -0.192419
U = 2,322 U' = 1,518

Exact probability (adjusted for ties):
Lower side P = 0.0813 (H1: x tends to be less than y)
Upper side P = 0.9187 (H1: x tends to be greater than y)
Two sided P = 0.1627 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.395313 (95% CI: 0.268705 to 0.541081)

95% confidence interval for difference between medians or means:
Median difference = 0.325805 (CI: -0.14941 to 0.77685)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Male Thymus weight = 98 median = -0.467297 rank sum = 8,383.5
Observations (y) in Non SGA Delta Male Thymus weight = 161 median = 0.156998
U = 3,532.5 U' = 12,245.5

Normalised statistic = -7.451032 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.776112 (95% CI: 0.711644 to 0.828122)

95% confidence interval for difference between medians or means:

Median difference = -0.749705 (CI: -0.96449 to -0.55176)

Mann-Whitney U test AI vs UE not signif

Observations (x) in AI Delta Male Thymus weight = 21 median = 0.158441 rank sum = 2,273.5
Observations (y) in UE Delta Male Thymus weight = 158 median = -0.109444
U = 2,042.5 U' = 1,275.5

Exact probability (adjusted for ties):
Lower side P = 0.0429 (H1: x tends to be less than y)
Upper side P = 0.9571 (H1: x tends to be greater than y)
Two sided P = 0.0858 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.384418 (95% CI: 0.270182 to 0.516117)

95% confidence interval for difference between medians or means:
Median difference = 0.29269 (CI: -0.05022 to 0.67844)

Mann-Whitney U test- UE vs Placenta - SIGNIFICANT!!

Observations (x) in UE Delta Male Thymus weight = 158 median = -0.109444 rank sum = 15,983
Observations (y) in Placenta Delta Male Thymus weight = 30 median = -0.614358
U = 3,422 U' = 1,318

Normalised statistic = 3.850234 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P = 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.278059 (95% CI: 0.192838 to 0.387529)

95% confidence interval for difference between medians or means:

Median difference = 0.574685 (CI: 0.29707 to 0.90223)

Mann-Whitney U test Mac vs non Mac - SIGNIFICANT!

Observations (x) in Macerated Delta Male Thymus weight = 208 median = -0.235497 rank sum = 24,726
Observations (y) in Non Macerated Delta Male Thymus weight = 47 median = 0.158441
U = 2,990 U' = 6,786

Normalised statistic = -4.156109 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.694149 (95% CI: 0.605073 to 0.768779)

95% confidence interval for difference between medians or means:
Median difference = -0.60182 (CI: -0.92829 to -0.32375)

Mann-Whitney U test - significant!

Observations (x) in SGA Delta Male Thyroid weight = 16 median = -0.379526 rank sum = 386
Observations (y) in Non SGA Delta Male Thyroid weight = 49 median = -0.078426
U = 250 U' = 534

Exact probability (adjusted for ties):
Lower side P = 0.0149 (H1: x tends to be less than y)
Upper side P = 0.9851 (H1: x tends to be greater than y)
Two sided P = 0.0299 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.681122 (95% CI: 0.517077 to 0.805573)

95% confidence interval for difference between medians or means:
Median difference = -0.34822 (CI: -0.69926 to -0.03807)

Mann-Whitney U test mac vs no mac - SIGNIFICANT!
Mac thyroids lighter
Observations (x) in Macerated Delta Male Thyroid weight = 53 median = -0.196028 rank sum = 1,591
Observations (y) in Non Macerated Delta Male Thyroid weight = 12 median = 0.491753
U = 160 U' = 476

Exact probability (adjusted for ties):
Lower side P = 0.0033 (H1: x tends to be less than y)
Upper side P = 0.9967 (H1: x tends to be greater than y)
Two sided P = 0.0065 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.748428 (95% CI: 0.568226 to 0.865193)

95% confidence interval for difference between medians or means:
Median difference = -0.749105 (CI: -1.3263 to -0.22065)

Mann-Whitney U test - AI vs UE not signif

Observations (x) in AI Delta Male Heart Weight = 21 median = 0.194275 rank sum = 2,093
Observations (y) in UE Delta Male Heart Weight = 158 median = -0.024829
U = 1,862 U' = 1,456

Exact probability (adjusted for ties):
Lower side P = 0.1831 (H1: x tends to be less than y)
Upper side P = 0.8169 (H1: x tends to be greater than y)

Two sided P = 0.3662 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.438819 (95% CI: 0.317905 to 0.569064)

95% confidence interval for difference between medians or means:
Median difference = 0.20704 (CI: -0.28489 to 0.64288)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!

Observations (x) in UE Delta Male Heart Weight = 158 median = -0.024829 rank sum = 16,084.5
Observations (y) in Placenta Delta Male Heart Weight = 30 median = -0.941285
U = 3,523.5 U' = 1,216.5

Normalised statistic = 4.221713 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.256646 (95% CI: 0.175047 to 0.364514)

95% confidence interval for difference between medians or means:
Median difference = 0.775425 (CI: 0.45569 to 1.11425)

Mann-Whitney U test BP vs no BP not signif

Observations (x) in Hypertension Delta Male Heart Weight = 26 median = -0.070624 rank sum = 3,517
Observations (y) in No Hypertension Delta Male Heart Weight = 230 median = -0.225605
U = 3,166 U' = 2,814

Exact probability (adjusted for ties):
Lower side P = 0.3127 (H1: x tends to be less than y)

Upper side P = 0.6873 (H1: x tends to be greater than y)
Two sided P = 0.6253 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.470569 (95% CI: 0.359029 to 0.585749)

95% confidence interval for difference between medians or means:
Median difference = 0.110275 (CI: -0.32556 to 0.5496)

Mann-Whitney U test DM vs no DM not signif

Observations (x) in DM Delta Male Heart Weight = 16 median = 0.184524 rank sum = 2,480.5
Observations (y) in No DM Delta Male Heart Weight = 241 median = -0.226315
U = 2,344.5 U' = 1,511.5

Exact probability (adjusted for ties):
Lower side P = 0.0747 (H1: x tends to be less than y)
Upper side P = 0.9253 (H1: x tends to be greater than y)
Two sided P = 0.1494 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.391987 (95% CI: 0.265898 to 0.537827)

95% confidence interval for difference between medians or means:
Median difference = 0.41116 (CI: -0.14795 to 1.02994)

Mann-Whitney U test Mac vs Non Mac - SIGNIFICANT!
Macerated hearts lighter
Observations (x) in Macerated Delta Male Heart Weight = 208 median = -0.296937 rank sum = 25,048
Observations (y) in Non Macerated Delta Male Heart Weight = 48 median = 0.34349
U = 3,312 U' = 6,672

Normalised statistic = -3.633134 (adjusted for ties)
Lower side P = 0.0001 (H1: x tends to be less than y)

Upper side P = 0.9999 (H1: x tends to be greater than y)
Two sided P = 0.0003 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.668269 (95% CI: 0.578876 to 0.745203)

95% confidence interval for difference between medians or means:
Median difference = -0.65319 (CI: -0.97886 to -0.31635)

Mann-Whitney U test- significant!

Observations (x) in SGA Delta Male Heart Weight = 98 median = -0.753485 rank sum = 7,886
Observations (y) in Non SGA Delta Male Heart Weight = 159 median = 0.216153
U = 3,035 U' = 12,547

Normalised statistic = -8.216963 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.805224 (95% CI: 0.743347 to 0.85361)

95% confidence interval for difference between medians or means:
Median difference = -1.028145 (CI: -1.26696 to -0.79483)

Mann-Whitney U test not signif

Observations (x) in Overweight Delta Male Heart Weight = 27 median = -0.018186 rank sum = 1,161.5
Observations (y) in Obese Delta Male Heart Weight = 51 median = -0.1815
U = 783.5 U' = 593.5

Exact probability (adjusted for ties):
Lower side P = 0.1609 (H1: x tends to be less than y)

Upper side P = 0.8391 (H1: x tends to be greater than y)
Two sided P = 0.3218 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.431009 (95% CI: 0.307912 to 0.565131)

95.1% confidence interval for difference between medians or means:
Median difference = 0.29703 (CI: -0.25266 to 0.90969)

Mann-Whitney U test

Observations (x) in Overweight Delta Male Heart Weight = 27 median = -0.018186 rank sum = 947
Observations (y) in Normal Delta Male Heart Weight = 36 median = -0.227532
U = 569 U' = 403

Exact probability:
Lower side P = 0.1269 (H1: x tends to be less than y)
Upper side P = 0.8731 (H1: x tends to be greater than y)
Two sided P = 0.2539 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.414609 (95% CI: 0.286018 to 0.558582)

95.1% confidence interval for difference between medians or means:
Median difference = 0.25893 (CI: -0.21247 to 0.73554)

Mann-Whitney U test

Observations (x) in Normal Delta Male Heart Weight = 36 median = -0.227532 rank sum = 1,618
Observations (y) in Obese Delta Male Heart Weight = 51 median = -0.1815
U = 952 U' = 884

Exact probability:
Lower side P = 0.387 (H1: x tends to be less than y)
Upper side P = 0.613 (H1: x tends to be greater than y)
Two sided P = 0.774 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.481481 (95% CI: 0.3633 to 0.602189)

95% confidence interval for difference between medians or means:
Median difference = 0.07442 (CI: -0.40828 to 0.52325)

Body:Organ ratios:

Females:

Mann-Whitney U test AI vs UE - SIGNIFICANT!

Observations (x) in AI COD Female Body: Brain wt ratio = 68 median = 6.517746 rank sum = 8,308.5
Observations (y) in UE COD Female Body: Brain wt ratio = 234 median = 7.279039
U = 5,962.5 U' = 9,949.5

Normalised statistic = -3.145019 (adjusted for ties)
Lower side P = 0.0008 (H1: x tends to be less than y)
Upper side P = 0.9992 (H1: x tends to be greater than y)
Two sided P = 0.0017 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.625283 (95% CI: 0.54764 to 0.695874)

95% confidence interval for difference between medians or means:
Median difference = -0.72644 (CI: -1.18532 to -0.27514)

Mann-Whitney U test- UE vs Placenta not signif

Observations (x) in UE COD Female Body: Brain wt ratio = 234 median = 7.279039 rank sum = 30,159
Observations (y) in Placenta COD Female Body: Brain wt ratio = 18 median = 6.80043
U = 2,664 U' = 1,548

Exact probability:
Lower side P = 0.0305 (H1: x tends to be less than y)
Upper side P = 0.9695 (H1: x tends to be greater than y)
Two sided P = 0.061 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.367521 (95% CI: 0.250736 to 0.506176)

95% confidence interval for difference between medians or means:
Median difference = 0.91207 (CI: -0.04177 to 1.94335)

Mann-Whitney U test Mac vs non Mac - SIGNIFICANT!

Observations (x) in Macerated Female Body: Brain wt ratio = 269 median = 7.125984 rank sum = 54,002
Observations (y) in Non Macerated Female Body: Brain wt ratio = 109 median = 6.509828
U = 17,687 U' = 11,634

Normalised statistic = 3.145012
Lower side P = 0.9992 (H1: x tends to be less than y)
Upper side P = 0.0008 (H1: x tends to be greater than y)
Two sided P = 0.0017 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.39678 (95% CI: 0.336709 to 0.460866)

95% confidence interval for difference between medians or means:
Median difference = 0.61243 (CI: 0.23616 to 0.97708)

Mann-Whitney U test- significant!

Observations (x) in SGA Female Body: Brain wt ratio = 75 median = 6.931818 rank sum = 6,380
Observations (y) in Non SGA Female Body: Brain wt ratio = 137 median = 7.665877
U = 3,530 U' = 6,745

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P = 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.656448 (95% CI: 0.576141 to 0.727304)

95% confidence interval for difference between medians or means:
Median difference = -0.87647 (CI: -1.36074 to -0.42595)

Mann-Whitney U test - not signif

Observations (x) in UE UE Non SGA Female Body: Brain wt ratio = 45 median = 7.458034 rank sum = 1,160
Observations (y) in UE Placenta Non SGA Female Body: Brain wt ratio = 8 median = 7.686119
U = 125 U' = 235

Exact probability:
Lower side P = 0.0896 (H1: x tends to be less than y)
Upper side P = 0.9104 (H1: x tends to be greater than y)
Two sided P = 0.1792 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.652778 (95% CI: 0.435836 to 0.815266)

95% confidence interval for difference between medians or means:
Median difference = -0.710285 (CI: -1.91641 to 0.37688)

Mann-Whitney U test Mac vs Non Mac - SIGNIFICANT!!

Observations (x) in Macerated Female Body:Thymus Ratio = 275 median = 517.857143 rank sum = 56,002
Observations (y) in Non macerated Female Body:Thymus Ratio = 111 median = 385.571429
U = 18,052 U' = 12,473

Normalised statistic = 2.811472 (adjusted for ties)
Lower side P = 0.9975 (H1: x tends to be less than y)
Upper side P = 0.0025 (H1: x tends to be greater than y)
Two sided P = 0.0049 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.408616 (95% CI: 0.348527 to 0.472202)

95% confidence interval for difference between medians or means:
Median difference = 90.2198 (CI: 26.6578 to 156.015)

Mann-Whitney U test AI vs UR - not signif.

Observations (x) in COD AI Female Body:Thymus Ratio = 72 median = 415.734807 rank sum = 11,086
Observations (y) in Unexplained Female Body:Thymus Ratio = 233 median = 463.4
U = 8,458 U' = 8,318

Exact probability:
Lower side P = 0.4578 (H1: x tends to be less than y)
Upper side P = 0.5422 (H1: x tends to be greater than y)

Two sided P = 0.9156 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.495827 (95% CI: 0.420593 to 0.571291)

95% confidence interval for difference between medians or means:
Median difference = 3.5956 (CI: -74.2451 to 76.5653)

Mann-Whitney U test Placenta vs UE - SIGNIFICANT!

Observations (x) in Unexplained Female Body:Thymus Ratio = 233 median = 463.4 rank sum = 28,494
Observations (y) in Placenta Female Body:Thymus Ratio = 19 median = 982.089552
U = 1,233 U' = 3,194

Exact probability:
Lower side P = 0.0005 (H1: x tends to be less than y)
Upper side P = 0.9995 (H1: x tends to be greater than y)
Two sided P = 0.001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.721482 (95% CI: 0.58884 to 0.820315)

95% confidence interval for difference between medians or means:
Median difference = -398.3342 (CI: -840 to -155.9596)

Mann-Whitney U test- significant!

Observations (x) in SGA Female Body:Thymus Ratio = 76 median = 528.673724 rank sum = 10,476
Observations (y) in Non SGA Female Body:Thymus Ratio = 140 median = 333.824199
U = 7,550 U' = 3,090

Exact probability:

Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.290414 (95% CI: 0.225256 to 0.367731)

95% confidence interval for difference between medians or means:
Median difference = 173.2328 (CI: 107.7621 to 240.6687)

Mann-Whitney U test not signif
Observations (x) in UEUE Non SGA Female Body:Thymus Ratio = 47 median = 356.23053 rank sum = 1,308
Observations (y) in UE Placenta Non SGA Female Body:Thymus Ratio = 7 median = 337.15847
U = 180 U' = 149

Exact probability:
Lower side P = 0.3527 (H1: x tends to be less than y)
Upper side P = 0.6473 (H1: x tends to be greater than y)
Two sided P = 0.7053 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.452888 (95% CI: 0.256174 to 0.668117)

95.1% confidence interval for difference between medians or means:
Median difference = 32.8125 (CI: -70.4918 to 180.6986)

Mann-Whitney U test AI vs UE - SIGNIFICANT!

Observations (x) in COD AI Female Body:heart ratio = 71 median = 139.344262 rank sum = 9,274
Observations (y) in Unexplained Female Body:heart ratio = 245 median = 159.558011
U = 6,718 U' = 10,677

Normalised statistic = -2.920144 (adjusted for ties)
Lower side P = 0.0017 (H1: x tends to be less than y)
Upper side P = 0.9983 (H1: x tends to be greater than y)
Two sided P = 0.0035 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.613797 (95% CI: 0.537683 to 0.683751)

95% confidence interval for difference between medians or means:
Median difference = -15.31992 (CI: -25.48157 to -5.28337)

Mann-Whitney U test Placenta vs UE - not signif.

Observations (x) in Unexplained Female Body:heart ratio = 245 median = 159.558011 rank sum = 32,378
Observations (y) in Placenta Female Body:heart ratio = 19 median = 157.391304
U = 2,243 U' = 2,412

Normalised statistic = -0.263551 (adjusted for ties)
Lower side P = 0.3961 (H1: x tends to be less than y)
Upper side P = 0.6039 (H1: x tends to be greater than y)
Two sided P = 0.7921 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.518153 (95% CI: 0.387366 to 0.646035)

95% confidence interval for difference between medians or means:
Median difference = -2.29 (CI: -20.29524 to 16.29791)

Mann-Whitney U test

Observations (x) in Macerated Female Body:heart ratio = 283 median = 160.973684 rank sum = 60,522.5
Observations (y) in Non Macerated Female Body:heart ratio = 115 median = 138
U = 20,336.5 U' = 12,208.5

Normalised statistic = 3.906751 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.375127 (95% CI: 0.317668 to 0.437169)

95% confidence interval for difference between medians or means:
Median difference = 17.3589 (CI: 8.82902 to 25.51432)

Mann-Whitney U test not significant anymore!

Observations (x) in Normal BMI Female Body:heart ratio = 52 median = 156.284382 rank sum = 3,153
Observations (y) in Overweight Female Body:heart ratio = 70 median = 150.593168
U = 1,775 U' = 1,865

Exact probability:
Lower side P = 0.4092 (H1: x tends to be less than y)
Upper side P = 0.5908 (H1: x tends to be greater than y)
Two sided P = 0.8185 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.512363 (95% CI: 0.410398 to 0.613106)

95% confidence interval for difference between medians or means:
Median difference = -2.036855 (CI: -21.48674 to 16.92632)

Mann-Whitney U test Normal vs OW - Not signif

Observations (x) in Normal Female Body:liver wt ratio = 51 median = 25.671642 rank sum = 3,275
Observations (y) in Overweight Female Body:liver wt ratio = 71 median = 25.883069
U = 1,949 U' = 1,672

Exact probability:
Lower side P = 0.2376 (H1: x tends to be less than y)
Upper side P = 0.7624 (H1: x tends to be greater than y)
Two sided P = 0.4752 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.461751 (95% CI: 0.362337 to 0.564956)

95% confidence interval for difference between medians or means:
Median difference = 1.24683 (CI: -2.57505 to 5.41824)

Mann-Whitney U test Mac vs Non Mac - SIGNIFICANT!

Observations (x) in Macerated Female Body:liver wt ratio = 281 median = 27.684564 rank sum = 64,383.5
Observations (y) in Non Macerated Female Body:liver wt ratio = 116 median = 18.544441
U = 24,762.5 U' = 7,833.5

Normalised statistic = 8.140822 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.240321 (95% CI: 0.193148 to 0.296345)

95% confidence interval for difference between medians or means:

Median difference = 8.22891 (CI: 6.45631 to 9.98003)

Mann-Whitney U test AI vs UE - SIGNIFICANT!

Observations (x) in AI Female Body:liver wt ratio = 72 median = 16.938061 rank sum = 6,032.5
Observations (y) in Unexplained Female Body:liver wt ratio = 244 median = 26.537896
U = 3,404.5 U' = 14,163.5

Normalised statistic = -7.89663 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.80621 (95% CI: 0.741432 to 0.856277)

95% confidence interval for difference between medians or means:
Median difference = -9.047525 (CI: -10.99924 to -6.96404)

Mann-Whitney U test - Placenta vs UE - SIGNIFICANT!

Observations (x) in Unexplained Female Body:liver wt ratio = 244 median = 26.537896 rank sum = 30,985
Observations (y) in Placenta Female Body:liver wt ratio = 19 median = 44.461404
U = 1,095 U' = 3,541

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.763805 (95% CI: 0.634842 to 0.853553)

95% confidence interval for difference between medians or means:
Median difference = -15.134685 (CI: -22.55231 to -7.27148)

Mann-Whitney U test- significant!

Observations (x) in SGA Female Body:liver wt ratio = 78 median = 31.241029 rank sum = 10,356
Observations (y) in Non SGA Female Body:liver wt ratio = 141 median = 25.81262
U = 7,275 U' = 3,723

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.338516 (95% CI: 0.269244 to 0.417195)

95% confidence interval for difference between medians or means:
Median difference = 5.826265 (CI: 2.93504 to 8.82651)

Mann-Whitney U test not signif.

Observations (x) in UE UE Non SGA Female Body:liver wt ratio = 48 median = 27.755862 rank sum = 1,366
Observations (y) in UE Placenta Non SGAFemale Body:liver wt ratio = 8 median = 26.218964
U = 190 U' = 194

Exact probability:
Lower side P = 0.4863 (H1: x tends to be less than y)
Upper side P = 0.5137 (H1: x tends to be greater than y)
Two sided P = 0.9725 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.505208 (95% CI: 0.307288 to 0.701259)

95.1% confidence interval for difference between medians or means:
Median difference = -0.20646 (CI: -6.86144 to 7.25001)

Males:

Mann-Whitney U test Mac vs non Mac - noty signif

Observations (x) in Macerated Male Body: brain wt ratio = 331 median = 6.941772 rank sum = 78,768
Observations (y) in Non Macerated Male Body: brain wt ratio = 135 median = 6.714286
U = 23,822 U' = 20,863

Normalised statistic = 1.121931 (adjusted for ties)
Lower side P = 0.8691 (H1: x tends to be less than y)
Upper side P = 0.1309 (H1: x tends to be greater than y)
Two sided P = 0.2619 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.46689 (95% CI: 0.410194 to 0.524646)

95% confidence interval for difference between medians or means:
Median difference = 0.20089 (CI: -0.14465 to 0.55453)

Mann-Whitney U test- AI Vs UE - SIGNIFICANT!

Observations (x) in AI Male Body: brain wt ratio = 73 median = 6.514658 rank sum = 10,834
Observations (y) in Unexplained Male Body: brain wt ratio = 292 median = 7.171119
U = 8,133 U' = 13,183

Normalised statistic = -3.131545 (adjusted for ties)
Lower side P = 0.0009 (H1: x tends to be less than y)
Upper side P = 0.9991 (H1: x tends to be greater than y)
Two sided P = 0.0017 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.618456 (95% CI: 0.544679 to 0.686186)

95% confidence interval for difference between medians or means:
Median difference = -0.626595 (CI: -1.03791 to -0.23658)

Mann-Whitney U test UE vs Placenta - SIGNIFICANT!

Observations (x) in Unexplained Male Body: brain wt ratio = 292 median = 7.171119 rank sum = 48,700
Observations (y) in Placenta Male Body: brain wt ratio = 31 median = 6.146667
U = 5,922 U' = 3,130

Normalised statistic = 2.823783 (adjusted for ties)
Lower side P = 0.9976 (H1: x tends to be less than y)
Upper side P = 0.0024 (H1: x tends to be greater than y)
Two sided P = 0.0047 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.34578 (95% CI: 0.255033 to 0.452226)

95% confidence interval for difference between medians or means:
Median difference = 1.042805 (CI: 0.34498 to 1.7605)

ann-Whitney U test- significant!

Observations (x) in SGA Male Body: brain wt ratio = 95 median = 6.062016 rank sum = 8,010
Observations (y) in Non SGA Male Body: brain wt ratio = 153 median = 7.78872
U = 3,450 U' = 11,085

Normalised statistic = -6.951244 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.762642 (95% CI: 0.695669 to 0.817178)

95% confidence interval for difference between medians or means:
Median difference = -1.7849 (CI: -2.24572 to -1.32711)

Mann-Whitney U test UE vs UE placenta - not signif.

Observations (x) in UE UE Non SGA Male Body: brain wt ratio = 45 median = 7.583832 rank sum = 1,262
Observations (y) in UE placenta non SGA Male Body: brain wt ratio = 14 median = 8.168087
U = 227 U' = 403

Exact probability:
Lower side P = 0.0599 (H1: x tends to be less than y)
Upper side P = 0.9401 (H1: x tends to be greater than y)
Two sided P = 0.1198 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.639683 (95% CI: 0.465577 to 0.779442)

95.2% confidence interval for difference between medians or means:
Median difference = -0.722055 (CI: -1.70802 to 0.10417)

Mann-Whitney U test - AI vs UE - SIGNIFICANT!

Observations (x) in COD AI Male Body:heart ratio = 74 median = 145.237395 rank sum = 12,478
Observations (y) in Unexplained Male Body:heart ratio = 309 median = 155
U = 9,703 U' = 13,163

Exact probability:
Lower side P = 0.0215 (H1: x tends to be less than y)
Upper side P = 0.9785 (H1: x tends to be greater than y)
Two sided P = 0.043 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.575658 (95% CI: 0.502338 to 0.64516)

95% confidence interval for difference between medians or means:
Median difference = -10.39899 (CI: -20.91667 to -0.37287)

Mann-Whitney U test UE vs Placenta - not signif

Observations (x) in Unexplained Male Body:heart ratio = 309 median = 155 rank sum = 52,226
Observations (y) in Placenta Male Body:heart ratio = 32 median = 164.043528
U = 4,331 U' = 5,557

Exact probability:
Lower side P = 0.1249 (H1: x tends to be less than y)
Upper side P = 0.8751 (H1: x tends to be greater than y)
Two sided P = 0.2498 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.561994 (95% CI: 0.45724 to 0.660499)

95% confidence interval for difference between medians or means:

Median difference = -8.52036 (CI: -23.5155 to 6.39194)

Mann-Whitney U test

Observations (x) in Macerated Male Body:heart ratio = 347 median = 160.144928 rank sum = 89,067
Observations (y) in Non Macerated Male Body:heart ratio = 144 median = 146.554945
U = 28,689 U' = 21,279

Normalised statistic = 2.588513
Lower side P = 0.9952 (H1: x tends to be less than y)
Upper side P = 0.0048 (H1: x tends to be greater than y)
Two sided P = 0.0096 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.425853 (95% CI: 0.371978 to 0.481951)

95% confidence interval for difference between medians or means:
Median difference = 10.52107 (CI: 2.55735 to 18.74356)

Mann-Whitney U test OW vs Obese - not signif

Observations (x) in Overweight Male Body:Liver ratio = 57 median = 24.242424 rank sum = 3,746
Observations (y) in Obese Male Body:Liver ratio = 74 median = 24.89169
U = 2,093 U' = 2,125

Exact probability:
Lower side P = 0.4714 (H1: x tends to be less than y)
Upper side P = 0.5286 (H1: x tends to be greater than y)
Two sided P = 0.9428 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.503793 (95% CI: 0.405873 to 0.601365)

95% confidence interval for difference between medians or means:
Median difference = -0.12115 (CI: -3.15185 to 2.92824)

Mann-Whitney U test Normal vs OW - not signif

Observations (x) in Normal Male Body:Liver ratio = 54 median = 26.263601 rank sum = 3,118
Observations (y) in Overweight Male Body:Liver ratio = 57 median = 24.242424
U = 1,633 U' = 1,445

Exact probability:
Lower side P = 0.2913 (H1: x tends to be less than y)
Upper side P = 0.7087 (H1: x tends to be greater than y)
Two sided P = 0.5826 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.469461 (95% CI: 0.366279 to 0.575872)

95% confidence interval for difference between medians or means:
Median difference = 1.104355 (CI: -2.73587 to 5.56955)

Mann-Whitney U test N vs Obese - not signif

Observations (x) in Normal Male Body:Liver ratio = 54 median = 26.263601 rank sum = 3,583
Observations (y) in Obese Male Body:Liver ratio = 74 median = 24.89169
U = 2,098 U' = 1,898

Exact probability:
Lower side P = 0.3162 (H1: x tends to be less than y)
Upper side P = 0.6838 (H1: x tends to be greater than y)
Two sided P = 0.6323 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.474975 (95% CI: 0.37709 to 0.575228)

95% confidence interval for difference between medians or means:
Median difference = 1.033775 (CI: -3.0301 to 5.1103)

Mann-Whitney U test UW vs obese - not signif

Observations (x) in Obese Male Body:Liver ratio = 74 median = 24.89169 rank sum = 3,150
Observations (y) in Underweight Male Body:Liver ratio = 12 median = 31.302593
U = 375 U' = 513

Exact probability:
Lower side P = 0.199 (H1: x tends to be less than y)
Upper side P = 0.801 (H1: x tends to be greater than y)
Two sided P = 0.3979 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.577703 (95% CI: 0.404547 to 0.731031)

95.1% confidence interval for difference between medians or means:
Median difference = -4.05259 (CI: -11.11828 to 5.31515)

Mann-Whitney U test Mac vs non mac - SIGNIFICANT!

Observations (x) in Macerated Male Body:Liver ratio = 341 median = 30.659091 rank sum = 98,181.5
Observations (y) in Non Macerated Male Body:Liver ratio = 142 median = 19.232869
U = 39,870.5 U' = 8,551.5

Normalised statistic = 11.205326 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.176604 (95% CI: 0.139831 to 0.221921)

95% confidence interval for difference between medians or means:
Median difference = 10.96272 (CI: 9.25447 to 12.68958)

Mann-Whitney U test - AI vs UE - SIGNIFICANT!

Observations (x) in AI Male Body:Liver ratio = 73 median = 18.085106 rank sum = 7,118.5
Observations (y) in Unexplained Male Body:Liver ratio = 305 median = 27.25
U = 4,417.5 U' = 17,847.5

Normalised statistic = -8.007662 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.801594 (95% CI: 0.738397 to 0.851046)

95% confidence interval for difference between medians or means:
Median difference = -8.56738 (CI: -10.77617 to -6.48248)

Mann-Whitney U test - UE vs Placenta _ SIGNIFICANT!

Observations (x) in Unexplained Male Body:Liver ratio = 305 median = 27.25 rank sum = 49,103
Observations (y) in Placenta Male Body:Liver ratio = 31 median = 39.255618
U = 2,438 U' = 7,017

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.742147 (95% CI: 0.64054 to 0.820207)

95% confidence interval for difference between medians or means:
Median difference = -10.67016 (CI: -14.48734 to -6.30504)

Mann-Whitney U test- significant!

Observations (x) in SGA Male Body:Liver ratio = 99 median = 34.201031 rank sum = 15,428.5
Observations (y) in Non SGA Male Body:Liver ratio = 159 median = 27.785185
U = 10,478.5 U' = 5,262.5

Normalised statistic = 4.474374 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.334318 (95% CI: 0.271315 to 0.405298)

95% confidence interval for difference between medians or means:
Median difference = 6.96029 (CI: 3.89095 to 9.95167)

Mann-Whitney U test UE UE vs UE placenta - SIGNIFICANT!

Observations (x) in UE UE Non SGAMale Body:Liver ratio = 44 median = 26.172804 rank sum = 1,100
Observations (y) in UE placenta Non SGA Male Body:Liver ratio = 14 median = 34.139936
U = 110 U' = 506

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P = 0.0002 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.821429 (95% CI: 0.656929 to 0.912419)

95.2% confidence interval for difference between medians or means:
Median difference = -8.103225 (CI: -11.91533 to -4.12121)

Mann-Whitney U test - Mac vs non Mac - SIGNIFICANT!

Observations (x) in Macerated Male Body:thymus wt = 330 median = 542.242798 rank sum = 81,906
Observations (y) in Non Macerated Male Body:thymus wt = 142 median = 429.054054
U = 27,291 U' = 19,569

Normalised statistic = 2.840919 (adjusted for ties)
Lower side P = 0.9978 (H1: x tends to be less than y)
Upper side P = 0.0022 (H1: x tends to be greater than y)
Two sided P = 0.0045 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.417606 (95% CI: 0.363381 to 0.474359)

95% confidence interval for difference between medians or means:
Median difference = 90.27285 (CI: 27.7108 to 155.0521)

Mann-Whitney U test AI vs UE - not signif

Observations (x) in AI Male Body:thymus wt = 73 median = 542.941176 rank sum = 14,394
Observations (y) in Unexplained Male Body:thymus wt = 295 median = 471.09375
U = 11,693 U' = 9,842

Normalised statistic = 1.137317 (adjusted for ties)
Lower side P = 0.8723 (H1: x tends to be less than y)

Upper side P = 0.1277 (H1: x tends to be greater than y)
Two sided P = 0.2554 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.457023 (95% CI: 0.385355 to 0.530913)

95% confidence interval for difference between medians or means:
Median difference = 46.8571 (CI: -34.0659 to 131.6687)

Mann-Whitney U test UE vs placenta - SIGNIFICANT!

Observations (x) in Unexplained Male Body:thymus wt = 295 median = 471.09375 rank sum = 46,670
Observations (y) in Placenta Male Body:thymus wt = 32 median = 758.217593
U = 3,010 U' = 6,430

Normalised statistic = -3.366386 (adjusted for ties)
Lower side P = 0.0004 (H1: x tends to be less than y)
Upper side P = 0.9996 (H1: x tends to be greater than y)
Two sided P = 0.0008 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.681144 (95% CI: 0.577219 to 0.767324)

95% confidence interval for difference between medians or means:
Median difference = -261.7823 (CI: -434.5812 to -107.9678)

Mann-Whitney U test- significant!

Observations (x) in SGA Male Body:thymus wt = 99 median = 776.5 rank sum = 17,205.5
Observations (y) in Non SGA Male Body:thymus wt = 160 median = 356.890681
U = 12,255.5 U' = 3,584.5

Normalised statistic = 7.400582 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.226294 (95% CI: 0.174084 to 0.290831)

95% confidence interval for difference between medians or means:
Median difference = 342.73945 (CI: 239.6276 to 462.25)

Mann-Whitney U test - SIGNIFICANT!

Observations (x) in UE UE Non SGA Male Body:thymus wt = 45 median = 322.64 rank sum = 1,204
Observations (y) in UE Placenta Non SGA Male Body:thymus wt = 14 median = 472.003434
U = 169 U' = 461

Exact probability:
Lower side P = 0.0042 (H1: x tends to be less than y)
Upper side P = 0.9958 (H1: x tends to be greater than y)
Two sided P = 0.0084 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.731746 (95% CI: 0.558594 to 0.849577)

95.2% confidence interval for difference between medians or means:
Median difference = -128.88809 (CI: -256.2 to -39.80501)

Brain:Liver ratio

Mann-Whitney U test- Mac vs Non Mac significant!
Macerated fetuses have proportioanlly smaller livers compared to non macerated
Observations (x) in Macerated Male B:L Ratio = 300 median = 4.097955 rank sum = 76,230
Observations (y) in Non Macerated Male B:L Ratio = 132 median = 2.825432

U = 31,080 U' = 8,520

Normalised statistic = 9.436441 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.215152 (95% CI: 0.172703 to 0.266134)

95% confidence interval for difference between medians or means:
Median difference = 1.264175 (CI: 1.02163 to 1.52224)

Mann-Whitney U test Mac vs non mac - SIGNIFICANT!
Macerated fetus' have smaller livers propotionally to brain in macerated
Observations (x) in Macerated Female B:L ratio = 260 median = 3.879037 rank sum = 53,639
Observations (y) in Non Macerated Female B:L ratio = 108 median = 2.771078
U = 19,709 U' = 8,371

Normalised statistic = 6.10078 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.298113 (95% CI: 0.244076 to 0.359824)

95% confidence interval for difference between medians or means:
Median difference = 0.937745 (CI: 0.65036 to 1.23189)

Mann-Whitney U test

Observations (x) in Macerated B:L ratio = 549 median = 3.936508 rank sum = 248,716
Observations (y) in Non Macerated B:L ratio = 239 median = 2.778947

U = 97,741 U' = 33,470

Normalised statistic = 10.940875 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.255085 (95% CI: 0.220063 to 0.294304)

95% confidence interval for difference between medians or means:
Median difference = 1.08778 (CI: 0.90203 to 1.27323)

Mann-Whitney U test

Observations (x) in UE Mac B:L ratio = 420 median = 3.848701 rank sum = 116,771.5
Observations (y) in UE No mac B:L ratio = 99 median = 3.054518
U = 28,361.5 U' = 13,218.5

Normalised statistic = 5.640644 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.317905 (95% CI: 0.263583 to 0.378892)

95% confidence interval for difference between medians or means:
Median difference = 0.774085 (CI: 0.51914 to 1.04332)

Mann-Whitney U test

Observations (x) in UE non mac B:L ratio = 99 median = 3.054518 rank sum = 11,403

Observations (y) in AI non mac B:L ratio = 101 median = 2.654867
U = 6,453 U' = 3,546

Exact probability:
Lower side P = 0.0002 (H1: x tends to be less than y)
Upper side P = 0.9998 (H1: x tends to be greater than y)
Two sided P = 0.0003 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.354635 (95% CI: 0.283829 to 0.434)

95% confidence interval for difference between medians or means:
Median difference = 0.40401 (CI: 0.18803 to 0.62111)

Mann-Whitney U test

Observations (x) in SGA B:L ratio = 150 median = 4.84182 rank sum = 42,522.5
Observations (y) in non SGA B:L ratio = 285 median = 3.427812
U = 31,197.5 U' = 11,552.5

Normalised statistic = 7.881364 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.270234 (95% CI: 0.224255 to 0.322914)

95% confidence interval for difference between medians or means:
Median difference = 1.375605 (CI: 1.03239 to 1.72505)

Mann-Whitney U test

Observations (x) in SGA with placenta COD B:L ratio = 51 median = 6.03681 rank sum = 4,976
Observations (y) in SGA -non placenta COD B:L ratio = 101 median = 4.271914
U = 3,650 U' = 1,501

Exact probability:
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.2914 (95% CI: 0.214373 to 0.385789)

95% confidence interval for difference between medians or means:
Median difference = 1.55218 (CI: 0.86473 to 2.21303)

Mann-Whitney U test

Observations (x) in SGA -non placenta COD B:L ratio = 101 median = 4.271914 rank sum = 19,301
Observations (y) in Non SGA UE deaths = 209 median = 3.45077
U = 14,150 U' = 6,959

Normalised statistic = 4.861115
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.32967 (95% CI: 0.270151 to 0.396541)

95% confidence interval for difference between medians or means:
Median difference = 0.85527 (CI: 0.51013 to 1.20767)

Mann-Whitney U test

Observations (x) in SGA placenta COD B:L ratio = 49 median = 6.101583 rank sum = 16,727
Observations (y) in SGA and non SGA non placental B:L ratio = 389 median = 3.587145
U = 15,502 U' = 3,559

Exact probability (adjusted for ties):
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.186716 (95% CI: 0.132343 to 0.260058)

95% confidence interval for difference between medians or means:
Median difference = 2.37658 (CI: 1.83316 to 2.93634)

Body:Thymus weight ratio

Mann-Whitney U test

Observations (x) in No Mac Body:Tyhymus weight ratio = 272 median = 405.75 rank sum = 108,053
Observations (y) in Any Mac Body:Tyhymus weight ratio = 638 median = 532.694915
U = 70,925 U' = 102,611

Normalised statistic = -4.364898 (adjusted for ties)
Lower side P < 0.0001 (H1: x tends to be less than y)
Upper side P > 0.9999 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.591295 (95% CI: 0.550557 to 0.630565)

95% confidence interval for difference between medians or means:
Median difference = -95.06185 (CI: -140.2528 to -52.0771)

Mann-Whitney U test

Observations (x) in SGA Body:Tyhymus weight ratio = 174 median = 638.890244 rank sum = 53,667.5
Observations (y) in NON SGA Body:Tyhymus weight ratio = 298 median = 355.144983
U = 38,442.5 U' = 13,409.5

Normalised statistic = 8.755082 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.258611 (95% CI: 0.215825 to 0.307656)

95% confidence interval for difference between medians or means:
Median difference = 242.87845 (CI: 184.825 to 313.8454)

Mann-Whitney U test

Observations (x) in SGA Placental COD Body:Tyhymus weight ratio = 64 median = 830.555556 rank sum = 6,487
Observations (y) in SGA non placental COD Body:Tyhymus weight ratio = 110 median = 551.425502
U = 4,407 U' = 2,633

Exact probability (adjusted for ties):
Lower side P = 0.0027 (H1: x tends to be less than y)
Upper side P = 0.9973 (H1: x tends to be greater than y)

Two sided P = 0.0054 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.374006 (95% CI: 0.29425 to 0.462912)

95% confidence interval for difference between medians or means:
Median difference = 208.66465 (CI: 70.0966 to 386.9472)

Mann-Whitney U test

Observations (x) in SGA Placental COD Body:Tyhymus weight ratio = 64 median = 830.555556 rank sum = 21,376.5
Observations (y) in SGA non placental and non SGA all other COD Body:Thymus weight ratio = 408 median = 394.707273
U = 19,296.5 U' = 6,815.5

Normalised statistic = 6.151194 (adjusted for ties)
Lower side P > 0.9999 (H1: x tends to be less than y)
Upper side P < 0.0001 (H1: x tends to be greater than y)
Two sided P < 0.0001 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.26101 (95% CI: 0.202367 to 0.331809)

95% confidence interval for difference between medians or means:
Median difference = 369.4722 (CI: 247.4765 to 530.805)

Chapter 7 The Placenta

Significant!
Mann-Whitney U test

Observations (x) in Black Placental weight (g) = 109 median = 179 rank sum = 21,488

Observations (y) in White Placental weight (g) = 337 median = 243
U = 15,493 U' = 21,240

Normalised statistic = -2.45653 (adjusted for ties)
Lower side P = 0.007 (H1: x tends to be less than y)
Upper side P = 0.993 (H1: x tends to be greater than y)
Two sided P = 0.014 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.578227 (95% CI: 0.515851 to 0.637718)

95% confidence interval for difference between medians or means:
Median difference = -39 (CI: -73 to -7.6)

Mann-Whitney U test

Observations (x) in Asian Placental weight (g) = 44 median = 217.5 rank sum = 3,735
Observations (y) in Black Placental weight (g) = 109 median = 179
U = 2,745 U' = 2,051

Exact probability (adjusted for ties):
Lower side P = 0.0814 (H1: x tends to be less than y)
Upper side P = 0.9186 (H1: x tends to be greater than y)
Two sided P = 0.1628 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.427648 (95% CI: 0.333247 to 0.528829)

95% confidence interval for difference between medians or means:
Median difference = 31.5 (CI: -11 to 79.6)

Mann-Whitney U test

Observations (x) in White Placental weight (g) = 337 median = 243 rank sum = 59,476.5
Observations (y) in Mixed/Oriental Placental weight (g) = 12 median = 200.95
U = 2,523.5 U' = 1,520.5

Normalised statistic = 1.460238 (adjusted for ties)
Lower side P = 0.9279 (H1: x tends to be less than y)
Upper side P = 0.0721 (H1: x tends to be greater than y)
Two sided P = 0.1442 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.375989 (95% CI: 0.238579 to 0.541732)

95% confidence interval for difference between medians or means:
Median difference = 60.75 (CI: -21 to 148.3)

Mann-Whitney U test

Observations (x) in Black Placental weight (g) = 109 median = 179 rank sum = 6,684
Observations (y) in Mixed/Oriental Placental weight (g) = 12 median = 200.95
U = 689 U' = 619

Exact probability (adjusted for ties):
Lower side P = 0.3831 (H1: x tends to be less than y)
Upper side P = 0.6169 (H1: x tends to be greater than y)
Two sided P = 0.7662 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.473242 (95% CI: 0.315125 to 0.637944)

95% confidence interval for difference between medians or means:

Median difference = 8.3 (CI: -45 to 72.2)

Table Analyzed	Data 1

Chi-square	
Chi-square, df	6.364, 1
z	2.523
P value	0.0116
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Study population		Reference population	Total
Central Cord	252	239	491	
Other cord insertion	499	622	1121	
Total	751	861	1612	

Table Analyzed	Data 2

Chi-square	
Chi-square, df	20.04, 1
z	4.477
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Study population		Reference population	Total
Eccentric cord	398	551	949	
All other cord insertions		353	310	663

Total	751	861	1612

Table Analyzed Data 3

Chi-square
Chi-square, df 33.89, 1
z 5.822
P value< 0.0001
P value summary ****
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) Yes

Data analyzed	Study population	Reference population	Total
Vellementous cord	34	2	36
all other cord insertions	717	859	1576
Total	751	861	1612

Table Analyzed Data 1

Chi-square
Chi-square, df 32.36, 1
z 5.689
P value < 0.0001
P value summary ****
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) Yes

Data analyzed	Miscarriages	stillbirth	Total
Plac abnoormal cord and membranes N	164	172	336
Place, cord and mem normal	69	196	265

Total	233	368	601

Table Analyzed Data 1

Chi-square

Chi-square, df	49.65, 1
z	7.046
P value	< 0.0001
P value summary	****
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Cases of AI	Number of cases minus AI	Total
Black	69	137	206
Non Black	63	482	545
Total	132	619	751

Table Analyzed Data 2

Chi-square

Chi-square, df	5.648, 1
z	2.377
P value	0.0175
P value summary	*
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	Yes

Data analyzed	Malperfusion cases	Total cases minus malperfusion cases	Total
White	27	442	469
Non white	6	279	285
Total	33	721	754

Mann-Whitney U test

Observations (x) in Mums Age in cases of AI = 174 median = 31 rank sum = 87,789
Observations (y) in Mums Age in all other cases = 866 median = 31
U = 72,564 U' = 78,120

Normalised statistic = -0.769314 (adjusted for ties)
Lower side P = 0.2209 (H1: x tends to be less than y)
Upper side P = 0.7791 (H1: x tends to be greater than y)
Two sided P = 0.4417 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.518436 (95% CI: 0.471502 to 0.564977)

95% confidence interval for difference between medians or means:
Median difference = 0 (CI: -1 to 1)

Mann-Whitney U test

Observations (x) in Maternal BMI AI cases = 85 median = 26.4 rank sum = 19,038
Observations (y) in Maternal BMIcases minus AI = 383 median = 26.8
U = 15,383 U' = 17,172

Normalised statistic = -0.793129 (adjusted for ties)
Lower side P = 0.2139 (H1: x tends to be less than y)
Upper side P = 0.7861 (H1: x tends to be greater than y)
Two sided P = 0.4277 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.527477 (95% CI: 0.459834 to 0.593917)

95% confidence interval for difference between medians or means:
Median difference = -0.5 (CI: -2 to 0.9)

Mann-Whitney U test

Observations (x) in Uteroplacental Insufficiency Mums Age = 41 median = 29 rank sum = 18,643.5
Observations (y) in Mums Age all causes of death except placental = 987 median = 31
U = 17,782.5 U' = 22,684.5

Normalised statistic = -1.317406 (adjusted for ties)
Lower side P = 0.0939 (H1: x tends to be less than y)
Upper side P = 0.9061 (H1: x tends to be greater than y)
Two sided P = 0.1877 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.560568 (95% CI: 0.470537 to 0.646029)

95% confidence interval for difference between medians or means:
Median difference = -2 (CI: -4 to 1)

Mann-Whitney U test

Observations (x) in Maternal BMI Pacental COD = 16 median = 26.1 rank sum = 3,108.5
Observations (y) in Maternal BMI ecept Placenta = 445 median = 26.9
U = 2,972.5 U' = 4,147.5

Exact probability (adjusted for ties):
Lower side P = 0.1323 (H1: x tends to be less than y)
Upper side P = 0.8677 (H1: x tends to be greater than y)
Two sided P = 0.2646 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.582514 (95% CI: 0.439673 to 0.710593)

95% confidence interval for difference between medians or means:
Median difference = -1.55 (CI: -4.5 to 1.2)

Mann-Whitney U test

Observations (x) in UE lesion Mums Age = 91 median = 30 rank sum = 6,709
Observations (y) in COD Placenta Mums Age = 54 median = 30
U = 2,523 U' = 2,391

Exact probability (adjusted for ties):
Lower side P = 0.3942 (H1: x tends to be less than y)
Upper side P = 0.6058 (H1: x tends to be greater than y)
Two sided P = 0.7884 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.486569 (95% CI: 0.391842 to 0.582472)

95% confidence interval for difference between medians or means:
Median difference = 0 (CI: -2 to 3)

Mann-Whitney U test

Observations (x) in UE lesion placenta Gestation = 91 median = 32 rank sum = 6,851.5
Observations (y) in COD Placenta Gestation = 56 median = 29
U = 2,665.5 U' = 2,430.5

Exact probability (adjusted for ties):
Lower side P = 0.3202 (H1: x tends to be less than y)
Upper side P = 0.6798 (H1: x tends to be greater than y)
Two sided P = 0.6405 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.476943 (95% CI: 0.383722 to 0.572138)

95% confidence interval for difference between medians or means:
Median difference = 1 (CI: -2 to 3)

Mann-Whitney U test

Observations (x) in Unexplained Unexplaiend mums age = 284 median = 32 rank sum = 54,594
Observations (y) in UE lesion Mums Age = 91 median = 30
U = 14,124 U' = 11,720

Normalised statistic = 1.337647 (adjusted for ties)
Lower side P = 0.9095 (H1: x tends to be less than y)
Upper side P = 0.0905 (H1: x tends to be greater than y)
Two sided P = 0.181 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.45349 (95% CI: 0.387374 to 0.521657)

95% confidence interval for difference between medians or means:
Median difference = 1 (CI: 0 to 2)

Mann-Whitney U test

Observations (x) in UE lesion placenta Gestation = 91 median = 32 rank sum = 19,412
Observations (y) in Unexplained Unexplained fetal gestation = 283 median = 26
U = 15,226 U' = 10,527

Normalised statistic = 2.62274 (adjusted for ties)
Lower side P = 0.9956 (H1: x tends to be less than y)

Upper side P = 0.0044 (H1: x tends to be greater than y)
Two sided P = 0.0087 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.408768 (95% CI: 0.344578 to 0.476954)

95% confidence interval for difference between medians or means:
Median difference = 2 (CI: 1 to 5)

Chapter 9 Thymus Histology

Mann-Whitney U test- significant!

Observations (x) in SGA Ab Placenta Corticomedullary ratio = 13 median = 1.631179 rank sum = 151
Observations (y) in Controls Corticomedullary ratio = 18 median = 3.31558
U = 60 U' = 174

Exact probability:
Lower side P = 0.011 (H1: x tends to be less than y)
Upper side P = 0.989 (H1: x tends to be greater than y)
Two sided P = 0.0221 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.74359 (95% CI: 0.534975 to 0.873897)

95.4% confidence interval for difference between medians or means:
Median difference = -1.24191 (CI: -2.39728 to -0.20602)

Mann-Whitney U test- not signif

Observations (x) in Controls Corticomedullary ratio = 18 median = 3.31558 rank sum = 301

Observations (y) in UE N Placenta Corticomedullary ratio = 11 median = 2.427386
U = 130 U' = 68

Exact probability:
Lower side P = 0.0866 (H1: x tends to be less than y)
Upper side P = 0.9134 (H1: x tends to be greater than y)
Two sided P = 0.1733 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.343434 (95% CI: 0.181169 to 0.561655)

95.1% confidence interval for difference between medians or means:
Median difference = 0.887015 (CI: -0.57642 to 2.19635)

Mann-Whitney U test- not signif

Observations (x) in UE N Placenta Corticomedullary ratio = 11 median = 2.427386 rank sum = 145
Observations (y) in SGA Ab Placenta Corticomedullary ratio = 13 median = 1.631179
U = 79 U' = 64

Exact probability:
Lower side P = 0.3453 (H1: x tends to be less than y)
Upper side P = 0.6547 (H1: x tends to be greater than y)
Two sided P = 0.6905 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.447552 (95% CI: 0.248394 to 0.667886)

95.3% confidence interval for difference between medians or means:
Median difference = 0.29962 (CI: -0.49101 to 1.42708)

Mann-Whitney U test- not signif

Observations (x) in SGA Ab Placenta Number of HC (6 fields at x4) = 14 median = 115.5 rank sum =

245.5
Observations (y) in Controls Number of HC (6 fields at x4) = 20 median = 95
U = 140.5 U' = 139.5

Exact probability (adjusted for ties):
Lower side P = 0.4966 (H1: x tends to be less than y)
Upper side P = 0.5034 (H1: x tends to be greater than y)
Two sided P = 0.9931 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.498214 (95% CI: 0.315013 to 0.681972)

95.3% confidence interval for difference between medians or means:
Median difference = 0.5 (CI: -36 to 49)

Mann-Whitney U test- not signif

Observations (x) in Controls Number of HC (6 fields at x4) = 20 median = 95 rank sum = 348.5
Observations (y) in UE N Placenta Number of HC (6 fields at x4) = 12 median = 94.5
U = 138.5 U' = 101.5

Exact probability (adjusted for ties):
Lower side P = 0.2415 (H1: x tends to be less than y)
Upper side P = 0.7585 (H1: x tends to be greater than y)
Two sided P = 0.483 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.422917 (95% CI: 0.246874 to 0.624788)

95.2% confidence interval for difference between medians or means:
Median difference = 15 (CI: -21 to 51)

Mann-Whitney U test- not significant

Observations (x) in UE N Placenta Number of HC (6 fields at x4) = 12 median = 94.5 rank sum = 148
Observations (y) in SGA Ab Placenta Number of HC (6 fields at x4) = 14 median = 115.5
U = 70 U' = 98

Exact probability (adjusted for ties):
Lower side P = 0.243 (H1: x tends to be less than y)
Upper side P = 0.757 (H1: x tends to be greater than y)
Two sided P = 0.486 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.583333 (95% CI: 0.366328 to 0.768848)

95.4% confidence interval for difference between medians or means:
Median difference = -18 (CI: -78 to 31)

Mann-Whitney U test= not significant

Observations (x) in SGA Ab placenta Distance between lobules (6 fields at x4) (Micro meters) = 14
median = 86.258333 rank sum = 230
Observations (y) in Controls Distance between lobules (6 fields at x4) (Micro meters) = 20 median = 98.3
U = 125 U' = 155

Exact probability:
Lower side P = 0.3082 (H1: x tends to be less than y)
Upper side P = 0.6918 (H1: x tends to be greater than y)
Two sided P = 0.6165 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.553571 (95% CI: 0.362713 to 0.727765)

95.3% confidence interval for difference between medians or means:
Median difference = -5.01667 (CI: -22.46666 to 13.55)

Mann-Whitney U test- not significant

Observations (x) in Controls Distance between lobules (6 fields at x4) (Micro meters) = 20 median = 98.3 rank sum = 340.5
Observations (y) in UE N Placenta Distance between lobules (6 fields at x4) (Micro meters) = 12 median = 88.658333
U = 130.5 U' = 109.5

Exact probability (adjusted for ties):
Lower side P = 0.347 (H1: x tends to be less than y)
Upper side P = 0.653 (H1: x tends to be greater than y)
Two sided P = 0.6939 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.45625 (95% CI: 0.273275 to 0.653922)

95.2% confidence interval for difference between medians or means:
Median difference = 5.225 (CI: -20.98333 to 23.48333)

Mann-Whitney U test- not significant

Observations (x) in UE N Placenta Distance between lobules (6 fields at x4) (Micro meters) = 12 median = 88.658333 rank sum = 163
Observations (y) in SGA Ab placenta Distance between lobules (6 fields at x4) (Micro meters) = 14
median = 86.258333
U = 85 U' = 83

Exact probability:
Lower side P = 0.4899 (H1: x tends to be less than y)
Upper side P = 0.5101 (H1: x tends to be greater than y)

Two sided P = 0.9798 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.494048 (95% CI: 0.291525 to 0.698829)

95.4% confidence interval for difference between medians or means:
Median difference = 1.18333 (CI: -22.38333 to 22.46666)

Mann-Whitney U test- not significant

Observations (x) in SGA Ab Placenta Number of tingible body macrophages (1xHPF) = 13 median = 36
rank sum = 222.5
Observations (y) in Controls Number of tingible body macrophages (1xHPF) = 20 median = 41
U = 131.5 U' = 128.5

Exact probability (adjusted for ties):
Lower side P = 0.4819 (H1: x tends to be less than y)
Upper side P = 0.5181 (H1: x tends to be greater than y)
Two sided P = 0.9638 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.494231 (95% CI: 0.308172 to 0.682154)

95.2% confidence interval for difference between medians or means:
Median difference = 1 (CI: -10 to 15)

Mann-Whitney U test - not significant

Observations (x) in Controls Number of tingible body macrophages (1xHPF) = 20 median = 41 rank
sum = 357
Observations (y) in UE N Placenta Number of tingible body macrophages (1xHPF) = 12 median = 35
U = 147 U' = 93

Exact probability (adjusted for ties):
Lower side P = 0.1511 (H1: x tends to be less than y)
Upper side P = 0.8489 (H1: x tends to be greater than y)
Two sided P = 0.3021 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.3875 (95% CI: 0.219607 to 0.592923)

95.2% confidence interval for difference between medians or means:
Median difference = 5.5 (CI: -4 to 14)

Mann-Whitney U test- not significant

Observations (x) in UE N Placenta Number of tingible body macrophages (1xHPF) = 12 median = 35
rank sum = 137.5
Observations (y) in SGA Ab Placenta Number of tingible body macrophages (1xHPF) = 13 median = 36
U = 59.5 U' = 96.5

Exact probability (adjusted for ties):
Lower side P = 0.1633 (H1: x tends to be less than y)
Upper side P = 0.8367 (H1: x tends to be greater than y)
Two sided P = 0.3266 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.61859 (95% CI: 0.393875 to 0.797418)

95.4% confidence interval for difference between medians or means:
Median difference = -6 (CI: -24 to 6)

Mann-Whitney U test - not different

Observations (x) in Control Gestation = 20 median = 36 rank sum = 345.5
Observations (y) in SGA Normal Placenta Gestation = 12 median = 29.5
U = 135.5 U' = 104.5

Exact probability (adjusted for ties):
Lower side P = 0.2783 (H1: x tends to be less than y)
Upper side P = 0.7217 (H1: x tends to be greater than y)
Two sided P = 0.5566 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.435417 (95% CI: 0.25669 to 0.635808)

95.2% confidence interval for difference between medians or means:
Median difference = 1 (CI: -2 to 9)

Mann-Whitney U test- not different

Observations (x) in SGA Normal Placenta Gestation = 12 median = 29.5 rank sum = 197.5
Observations (y) in SGA Ab placenta Gestation = 16 median = 28
U = 119.5 U' = 72.5

Exact probability (adjusted for ties):
Lower side P = 0.1415 (H1: x tends to be less than y)
Upper side P = 0.8585 (H1: x tends to be greater than y)
Two sided P = 0.2829 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.377604 (95% CI: 0.206172 to 0.592917)

95.3% confidence interval for difference between medians or means:
Median difference = 2 (CI: -2 to 9)

Mann-Whitney U test- significantly different

Observations (x) in SGA Ab placenta Gestation = 16 median = 28 rank sum = 214
Observations (y) in Control Gestation = 20 median = 36
U = 78 U' = 242

Exact probability (adjusted for ties):
Lower side P = 0.0039 (H1: x tends to be less than y)
Upper side P = 0.9961 (H1: x tends to be greater than y)
Two sided P = 0.0078 (H1: x tends to be distributed differently to y)

Theta (U'/mn) = 0.75625 (95% CI: 0.565876 to 0.875312)

95.1% confidence interval for difference between medians or means:
Median difference = -6 (CI: -9 to -1)

Table Analyzed	Data 1

Chi-square	
Chi-square, df	0.9207, 1
z	0.9595
P value	0.3373
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Expected	Obseverd	Total
Low Grade	10	13	23
High Grade	10	7	17
Total	20	20	40

Table Analyzed	Data 2

Chi-square	
Chi-square, df	0.8292, 1
z	0.9106
P value	0.3625

P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Expected	Obsevered	Total
Low Grade	7	10	17
High Grade	7	5	12
Total	14	15	29

Table Analyzed Data 3

Chi-square

Chi-square, df	3.000, 1
z	1.732
P value	0.0833
P value summary	ns
One- or two-tailed	Two-tailed
Statistically significant? (alpha<0.05)	No

Data analyzed	Expected	Observed	Total
Low Grade	6	10	16
High Grade	6	2	8
Total	12	12	24

Table Analyzed Data 1

Fisher's exact test

P value	1
P value summary	ns
One- or two-tailed	Two-tailed

Statistically significant? (alpha<0.05) No

Data analyzed	Control	SGA ab place	Total
Low Grade	13	9	22
High Grade	7	5	12
Total	20	14	34

Table Analyzed Data 2

Fisher's exact test

P value0.4224
P value summary ns
One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) No

Data analyzed	Control	SGA normal plac	Total
Low Grade	13	10	23
High Grade	7	2	9
Total	20	12	32

Table Analyzed Data 3

Fisher's exact test

P value0.3913
P value summary ns

One- or two-tailed Two-tailed
Statistically significant? (alpha<0.05) No

Data analyzed	SGA ab place	SGA normal plac	Total
Low Grade	9	10	19
High Grade	5	2	7
Total	14	12	26

Appendix 4: 'Other' causes of death stated within the post-mortem data that were reclassified and the number of incidences recorded

In the Early miscarriage category the "other" causes of death were:

- Disconcordant placental share (x 2)

- Chorionic Haemosiderosis indicating premature separation of the placenta (x 2)
- Plasma cell deciduitis (x1)
- Massive perivillous fibrin deposition (x1)
- Cervical incompetence (x2)
- Placental Insufficiency (x 1)
- Placental calcifications suggesting chromosomal abnormalities (x2)
- Retroplacental Haemorrhage (x 3)
- Vasculitis and chroioamnionitis (x1)
- Hydropic growth restriction with Epstein abnormality and fetal and placental hydrops (x1)
- Lymphoplasmocytic inflammation of decidua (x2)
- TTTS (x2)
- Hydrops and trisomy 21 (x1)
- Placental Infarction (x1)
- Subchorionic thrombus in placenta (x1)
- Vasculitis of unknown aetiology (x1)

- Triploidy (x1)
- Subchorionic haemorrhage (x1)
- Evidence of bleeding into amniotic fluid, lungs and stomach (x1)

In the late miscarriage category, the “other” causes of death were;

- Placental calcifications indicating placental chromosomal abnormalities (x 2)
- Cervical incompetence (x 2)
- Amniotic band over umbilical cord (x 1)
- Pregnancy induced hypertension and IUGR (x1)
- Twin to Twin Transfusion Syndrome (TTTS) (x 1)
- Complications post laser ablation for TTTS (x 1)
- Massive Histiocytic intervillositis (x1)
- Mosaicism for dicondric triploidy (x 1)
- Retroplacental haematoma (x 2)
- Intervillous placental haemorrhage (x1)
- Placental Infraction (x 2)
- Diabetes Mellitus and IUGR (x 1)

In the stillbirth category the “other” causes of death were:

- Vascular Necrosis of the cord (x1)
- Thrombosis of fetal chorionic vessels with renal and hepatic thrombi (x1)
- Uteroplacental vasculopathy (x 6)
- Congenital malformation (x1)
- Infarction of the placenta (x29)
- Fetal thrombotic vasculopathy (x20)
- Vascular under perfusion of the placenta (x2)
- Hypercoiled coil found around neck of fetus at delivery (x 1)
- Cervical incompetence (x1)
- Long nuchal cord and maternal raised BP (x 1)
- Feto-maternal haemorrhage (x 9)
- Placental insufficiency (x4)
- Cord around neck at delivery (x1)
- Maternal Diabetes mellitus (x 2)

- Maternal Gestational DM (x1)
- Maternal DM and PET (x 2)
- Abnormality of placentation (x 4)
- Cerebral haemorrhage (x 1)
- Thrombosis of fetal vellamentous vessels (x1)
- Umbilical cord haematoma (x1)
- Umbilical and renal vein thrombosis (x1)
- Massive perivillous fibrin deposition (x 4)
- Tightening of umbilical cord true knot (x 5)
- Abnormal villous tissue (x 1)
- Acute thrombosis of umbilical vein (x1)
- Placental vasculitis (x1)
- Retroplacental Haemorrhage (x 3)
- Massive thymic Haemorrhage (x1)
- Maternal HELLP syndrome (x1)
- Cholestasis of pregnancy (x1)

- Maternal events (i.e. events in labour) (x1)
- Fetal vascular thrombosis (x1)
- Furcate cord with thrombus formation (x1)
- Fetal thrombophilia (x1)
- Thrombus in large fetal vessel of placenta (x1)
- Thrombosis of vessels in cord (x1)
- Stem vessel thrombosis (x1)
- Chronic Histiocytic intervillositis (x2)
- Thrombus in vessels of vellamentous cord (x1)
- Underperfusion of placental (x1)
- True cord knot thrombosis (x1)
- Stricture of cord with thrombosis (x1)
- Viral intrauterine infection (x1)
- Chronic villitis (x8)
- Hydrops (x1)
- Entaglement of umbilical cord (x1)

- TTTS (x6)
- Intestinal perforation (x1)
- TRAP syndrome (x1)

Appendix 5: Delta male birthweight calculations:

Gestation	Birth Weight	WHO expected BW (50th centile)	Obs-exp	SD (g)	Delat = (obs-Exp)/SD in grams	SGA = when delat value < -1.375	Review opinion - final cause of death	Sex
23	31	600	-569	82.44023083	-6.90197	Y	Unexplained, obese	M
25	181	800	-619	115.4163232	-5.363192857	Y	Unexplained lesion, placenta	M
25	200	800	-600	115.4163232	-5.198571429	Y	Known IUGR	M
24	210	700	-490	98.928277	-4.953083333	Y	Abruption	M
23	220	600	-380	82.44023083	-4.6094	Y	Unexplained lesion, baby	M

26	265	925	-660	148.3924155	-4.447666667	Y	Unexplained, unexplained	M
26	270	925	-655	148.3924155	-4.413972222	Y	Placenta	M
24	280	700	-420	98.928277	-4.2455	Y	Unexplained lesion, baby	M
24	284	700	-416	98.928277	-4.205066667	Y	Pre-eclampsia	M
23	290	600	-310	82.44023083	-3.7603	Y	Congenital abnormalities	M
35	296	2475	-2179	362.7370157	-6.007106818	Y	Congenital abnormalities	M
24	300	700	-400	98.928277	-4.043333333	Y	Placenta	M
23	300	600	-300	82.44023083	-3.639	Y	Unexplained obese	M

27	310	1025	-715	148.3924155	-4.818305556	Y	Unexplained lesion, placenta	M
28	320	1150	-830	181.3685078	-4.576318182	Y	Known IUGR	M
24	360	700	-340	98.928277	-3.436833333	Y	Unexplained, obese	M
24	395	700	-305	98.928277	-3.083041667	Y	Unexplained, unexplained	M
23	400	600	-200	82.44023083	-2.426	Y	Congenital abnormalities	M
24	410	700	-290	98.928277	-2.931416667	Y	Ascending infection	M
26	420	925	-505	148.3924155	-3.403138889	Y	Placenta	M
28	424	1150	-726	181.3685078	-4.0029	Y	Placenta	M

28	430	1150	-720	181.3685078	-3.969818182	Y	Congenital abnormalities	M
25	435	800	-365	115.4163232	-3.162464286	Y	Infection	M
25	438	800	-362	115.4163232	-3.136471429	Y	Unexplained, unexplained	M
29	440	1275	-835	197.856554	-4.220229167	Y	Placenta	M
26	450	925	-475	148.3924155	-3.200972222	Y	Unexplained previous SB	M
24	454	700	-246	98.928277	-2.48665	Y	Unexplained lesion, placenta	M
25	455	800	-345	115.4163232	-2.989178571	Y	Known IUGR	M
23	458	600	-142	82.44023083	-1.72246	Y	Ascending infection	M
27	484	1025	-541	148.3924155	-3.645738889	Y	Placenta	M

30	495	1425	-930	230.8326463	-4.028892857	Y	Unexplained lesion, baby	M
25	505	800	-295	115.4163232	-2.555964286	Y	Placenta	M
24	506	700	-194	98.928277	-1.961016667	Y	Ascending infection	M
23	506	600	-94	82.44023083	-1.14022	N	Preterm	M
27	525	1025	-500	148.3924155	-3.369444444	Y	Unexplained lesion, placenta	M
26	526	925	-399	148.3924155	-2.688816667	Y	Placenta	M
24	538	700	-162	98.928277	-1.63755	Y	Unexplained, unexplained	M
33	540	2000	-1460	296.784831	-4.919388889	Y	Unexplained, obese	M

24	570	700	-130	98.928277	-1.314083333	N	Unexplained lesion, baby	M
25	570	800	-230	115.4163232	-1.992785714	Y	Pre-eclampsia	M
25	570	800	-230	115.4163232	-1.992785714	Y	Ascending infection	M
27	580	1025	-445	148.3924155	-2.998805556	Y	Placenta	M
23	580	600	-20	82.44023083	-0.2426	N	Ascending Infection	M
27	598	1025	-427	148.3924155	-2.877505556	Y	Pre-eclampsia	M
29	600	1275	-675	197.856554	-3.4115625	Y	Placenta	M
23	600	600	0	82.44023083	0	N	Abruption	M

28	605	1150	-545	181.3685078	-3.004931818	Y	Placenta	M
30	610	1425	-815	230.8326463	-3.530696429	Y	Twin complication	M
29	620	1275	-655	197.856554	-3.310479167	Y	Congenital abnormalities	M
25	630	800	-170	115.4163232	-1.472928571	Y	Unexplained, unexplained	M
25	632	800	-168	115.4163232	-1.4556	Y	Pre-eclampsia	M
24	641	700	-59	98.928277	-0.596391667	N	Placenta	M
26	650	925	-275	148.3924155	-1.853194444	Y	Twin complication	M

25	660	800	-140	115.4163232	-1.213	N	Unexplained, previous SB	M
25	670	800	-130	115.4163232	-1.126357143	N	Unexplained, unexplained	M
24	680	700	-20	98.928277	-0.202166667	N	Unexplained , unexplained	M
25	682	800	-118	115.4163232	-1.022385714	N	Ascending infection	M
27	695	1025	-330	148.3924155	-2.223833333	Y	Unexplained, unexplained	M
28	700	1150	-450	181.3685078	-2.481136364	Y	Abruption	M
25	710	800	-90	115.4163232	-0.779785714	N	Unexplained, unexplained	M

29	720	1275	-555	197.856554	-2.8050625	Y	Placenta	M
31	720	1600	-880	263.8087387	-3.33575	Y	Placenta	M
24	725	700	25	98.928277	0.252708333	N	Unexplained lesion, placenta	M
29	730	1275	-545	197.856554	-2.754520833	Y	Placenta	M
26	732	925	-193	148.3924155	-1.300605556	N	Unexplaine dlesion, clinical	M
28	740	1150	-410	181.3685078	-2.260590909	Y	Placenta	M
26	740	925	-185	148.3924155	-1.246694444	N	Unexplained, unexplained	M
24	740	700	40	98.928277	0.404333333	N	Abruption	M
27	750	1025	-275	148.3924155	-1.853194444	Y	Unexplained unexplained	M

24	752	700	52	98.928277	0.525633333	N	Ascending infection	M
24	756	700	56	98.928277	0.566066667	N	Unexplained lesion, baby	M
31	760	1600	-840	263.8087387	-3.184125	Y	Unexplained, unexplained	M
26	770	925	-155	148.3924155	-1.044527778	N	Unexplained, unexpalined	M
25	780	800	-20	115.4163232	-0.173285714	N	Congenital abnormalities	M
25	800	800	0	115.4163232	0	N	Ascending infection	M
25	828	800	28	115.4163232	0.2426	N	Unexplained, unexplained	M
26	840	925	-85	148.3924155	-0.572805556	N	Unexplained, unexplained	M
26	840	925	-85	148.3924155	-0.572805556	N	Unexplained, obese	M

31	850	1600	-750	263.8087387	-2.84296875	Y	Unexplaiend lesion, placenta	M
27	858	1025	-167	148.3924155	-1.125394444	N	Unexplained obese	M
25	870	800	70	115.4163232	0.6065	N	Ascending infection	M
31	880	1600	-720	263.8087387	-2.72925	Y	Placenta	M
25	880	800	80	115.4163232	0.693142857	N	Unexplained, unexplained	M
26	890	925	-35	148.3924155	-0.235861111	N	Pre-eclampsia	M
27	900	1025	-125	148.3924155	-0.842361111	N	Unexplained lesion, clinical	M

27	920	1025	-105	148.3924155	-0.707583333	N	Unexplained, unexplained	M
29	928	1275	-347	197.856554	-1.753795833	Y	Unexplained, unexplained	M
28	930	1150	-220	181.3685078	-1.213	N	Unexplained, unexplained	M
29	940	1275	-335	197.856554	-1.693145833	Y	Pre-eclampsia	M
28	940	1150	-210	181.3685078	-1.157863636	N	Unexplained, previous SB	M
27	950	1025	-75	148.3924155	-0.505416667	N	Unexplained, unexplained	M
29	965	1275	-310	197.856554	-1.566791667	Y	Unexplained lesion, baby	M
32	990	1800	-810	296.784831	-2.72925	Y	Placenta	M

31	996	1600	-604	263.8087387	-2.2895375	Y	Known IUGR	M
27	1002	1025	-23	148.3924155	-0.154994444	N	Unexplained, unexplained	M
31	1020	1600	-580	263.8087387	-2.1985625	Y	Congenital abnormalities	M
27	1030	1025	5	148.3924155	0.033694444	N	Infection	M
27	1030	1025	5	148.3924155	0.033694444	N	Unexplained lesion, placenta	M
30	1060	1425	-365	230.8326463	-1.581232143	Y	Unexplained, unexplained	M
28	1080	1150	-70	181.3685078	-0.385954545	N	Unexplained, unexplained	M

31	1110	1600	-490	263.8087387	-1.85740625	Y	Unexplained, unexplained	M
30	1110	1425	-315	230.8326463	-1.364625	N	Unexplained, previous SB	M
30	1110	1425	-315	230.8326463	-1.364625	N	Congenital Abnormalities	M
29	1114	1275	-161	197.856554	-0.813720833	N	Unexplained lesion, clinical	M
29	1120	1275	-155	197.856554	-0.783395833	N	Placenta	M
36	1140	2700	-1560	362.7370157	-4.300636364	Y	Congenital abnormalities	M
28	1140	1150	-10	181.3685078	-0.055136364	N	Ascending infection	M

27	1140	1025	115	148.3924155	0.774972222	N	Ascedning infection	M
34	1170	2250	-1080	346.2489695	-3.119142857	Y	Unexplained lesion, placenta	M
29	1185	1275	-90	197.856554	-0.454875	N	Unexplained lesion, placenta	M
28	1188	1150	38	181.3685078	0.209518182	N	Ascending infection	M
31	1200	1600	-400	263.8087387	-1.51625	Y	Unexplained lesion, post-term	M
31	1204	1600	-396	263.8087387	-1.5010875	Y	Unexplained, unexplained	M
30	1230	1425	-195	230.8326463	-0.844767857	N	Unexplained lesion, cord	M

29	1244	1275	-31	197.856554	-0.156679167	N	Congenital abnormalities	M
28	1245	1150	95	181.3685078	0.523795455	N	Ascending infection	M
31	1288	1600	-312	263.8087387	-1.182675	N	Unexplained, unexplained	M
33	1300	2000	-700	296.784831	-2.358611111	Y	Placenta	M
35	1310	2475	-1165	362.7370157	-3.211693182	Y	Placenta	M
35	1310	2475	-1165	362.7370157	-3.211693182	Y	Abruption	M
32	1336	1800	-464	296.784831	-1.563422222	Y	Abruption	M

34	1355	2250	-895	346.2489695	-2.584845238	Y	Placenta	M
30	1360	1425	-65	230.8326463	-0.281589286	N	Unexplained, unexplained	M
29	1382	1275	107	197.856554	0.540795833	N	Congeniatl abnormalities	M
32	1400	1800	-400	296.784831	-1.347777778	N	Congenital abnormalities	M
29	1400	1275	125	197.856554	0.631770833	N	Unexplained, unexplained	M
31	1410	1600	-190	263.8087387	-0.72021875	N	Unexplained, previous SB	M
35	1424	2475	-1051	362.7370157	-2.897415909	Y	Unexplained lesion, placenta	M

29	1495	1275	220	197.856554	1.111916667	N	Unexplained with IDDM	M
29	1500	1275	225	197.856554	1.1371875	N	Congenital abnormalities	M
38	1504	3175	-1671	395.713108	-4.22275625	Y	Unexplained lesion, placenta	M
34	1516	2250	-734	346.2489695	-2.119861905	Y	Unexplained, obese	M
32	1520	1800	-280	296.784831	-0.943444444	N	Unexplained lesion, baby	M
34	1550	2250	-700	346.2489695	-2.021666667	Y	Abruption	M

32	1552	1800	-248	296.784831	-0.835622222	N	Unexplained obese with previous SB	M
33	1608	2000	-392	296.784831	-1.320822222	N	Ascending infection	M
33	1674	2000	-326	296.784831	-1.098438889	N	Unexplained, previous SB	M
31	1680	1600	80	263.8087387	0.30325	N	Unexplained unexplained	M
36	1685	2700	-1015	362.7370157	-2.798170455	Y	Unexplained lesion, placenta	M
34	1700	2250	-550	346.2489695	-1.588452381	Y	Placenta	M
32	1729	1800	-71	296.784831	-0.239230556	N	Pre-eclampsia	M

31	1740	1600	140	263.8087387	0.5306875	N	Unexplained lesion, previous SB	M
33	1790	2000	-210	296.784831	-0.707583333	N	Unexplained, unexplained	M
35	1815	2475	-660	362.7370157	-1.8195	Y	Abruption	M
35	1824	2475	-651	362.7370157	-1.794688636	Y	Unexplained unexplained	M
35	1892	2475	-583	362.7370157	-1.607225	Y	Unexplained, unexplained	M
35	1900	2475	-575	362.7370157	-1.585170455	Y	Unexplained unexplained	M
35	1920	2475	-555	362.7370157	-1.530034091	Y	Unexplained lesion, placenta	M

33	1920	2000	-80	296.784831	-0.269555556	N	Twin complication	M
32	1930	1800	130	296.784831	0.438027778	N	Unexplained, previous SB	M
32	1950	1800	150	296.784831	0.505416667	N	Unexplained lesion, placenta	M
31	1980	1600	380	263.8087387	1.4404375	N	Unexplained with GDM	M
31	1984	1600	384	263.8087387	1.4556	N	Unexplained unexplained	M
34	2015	2250	-235	346.2489695	-0.678702381	N	Unexplained lesion, placenta	M
36	2070	2700	-630	362.7370157	-1.736795455	Y	Unexplained with GDM	M
32	2092	1800	292	296.784831	0.983877778	N	Ascending infection	M

34	2100	2250	-150	346.2489695	-0.433214286	N	Unexplained, previous SB	M
36	2155	2700	-545	362.7370157	-1.502465909	Y	Unexplained, unexplained	M
32	2180	1800	380	296.784831	1.280388889	N	Unexplained, unexplained	M
36	2242	2700	-458	362.7370157	-1.262622727	N	Unexplained with GDM and obese	M
31	2254	1600	654	263.8087387	2.47906875	N	Congenital abnormalities	M
40	2270	3550	-1280	395.713108	-3.234666667	Y	Ascending infection	M
35	2300	2475	-175	362.7370157	-0.482443182	N	Congenital abnormalities	M
38	2360	3175	-815	395.713108	-2.059572917	Y	Unexplained lesion, placenta	M

40	2380	3550	-1170	395.713108	-2.9566875	Y	Unexplained, unexplained	M
36	2390	2700	-310	362.7370157	-0.854613636	N	Infection	M
36	2390	2700	-310	362.7370157	-0.854613636	N	Unexplained lesion, placenta	M
36	2444	2700	-256	362.7370157	-0.705745455	N	Unexplained obese	M
32	2475	1800	675	296.784831	2.274375	N	Unexplained, unexplained	M
37	2500	2950	-450	379.2250618	-1.186630435	N	Abruption	M
40	2520	3550	-1030	395.713108	-2.602895833	Y	Unexplained, unexplained	M
42	2540	3850	-1310	395.713108	-3.310479167	Y	Placenta	M
35	2560	2475	85	362.7370157	0.234329545	N	Unexpalined, unexplained	M

35	2580	2475	105	362.7370157	0.289465909	N	Unexplained, unexplained	M
36	2583	2700	-117	362.7370157	-0.322547727	N	Pre-eclampsia	M
38	2600	3175	-575	395.713108	-1.453072917	Y	Unexplained lesion, placenta	M
40	2620	3550	-930	395.713108	-2.3501875	Y	Unexplained obese	M
38	2664	3175	-511	395.713108	-1.291339583	N	Unexplained, unexplained	M
36	2680	2700	-20	362.7370157	-0.055136364	N	Unexplained unexplained	M
37	2680	2950	-270	379.2250618	-0.711978261	N	Congenital Abnormalities	M

36	2680	2700	-20	362.7370157	-0.055136364	N	Unexplained, obese	M
37	2690	2950	-260	379.2250618	-0.685608696	N	Placenta	M
38	2694	3175	-481	395.713108	-1.215527083	N	Unexplained lesion, placenta	M
38	2700	3175	-475	395.713108	-1.200364583	N	Unexplained, unexplained	M
35	2700	2475	225	362.7370157	0.620284091	N	Congenital abnormalities	M
37	2710	2950	-240	379.2250618	-0.632869565	N	Unexplained, unexplained	M
41	2740	3700	-960	389.1178895	-2.467118644	Y	Placenta	M

40	2770	3550	-780	395.713108	-1.971125	Y	Unexplained, unexplained	M
41	2800	3700	-900	389.1178895	-2.312923729	Y	Unexplained, previous SB	M
42	2800	3850	-1050	395.713108	-2.6534375	Y	Ascending infection	M
40	2800	3550	-750	395.713108	-1.8953125	Y	Known IUGR	M
38	2810	3175	-365	395.713108	-0.922385417	N	Placenta	M
42	2820	3850	-1030	395.713108	-2.602895833	Y	Congenital abnormalities	M
35	2840	2475	365	362.7370157	1.006238636	N	Unexplained lesion, placenta	M

38	2860	3175	-315	395.713108	-0.79603125	N	Pre-eclampsia	M
37	2888	2950	-62	379.2250618	-0.163491304	N	Unexplained, unexplained	M
40	2905	3550	-645	395.713108	-1.62996875	Y	Unexplained, unexplained	M
41	2910	3700	-790	389.1178895	-2.030233051	Y	Unexplained obese with previous SB	M
35	2926	2475	451	362.7370157	1.243325	N	Unexplained with GDM	M
40	2940	3550	-610	395.713108	-1.541520833	Y	Unexplained, unexplained	M
37	2950	2950	0	379.2250618	0	N	Unexplained lesion, clinical	M

38	2976	3175	-199	395.713108	-0.502889583	N	Unexplained, previous SB	M
39	2980	3375	-395	395.713108	-0.998197917	N	Unexplained, unexplained	M
38	2980	3175	-195	395.713108	-0.49278125	N	Unexplained obese with previous SB	M
40	2986	3550	-564	395.713108	-1.425275	N	Unexplained lesion, baby	M
37	3000	2950	50	379.2250618	0.131847826	N	Unexplained, unexplained	M
38	3020	3175	-155	395.713108	-0.391697917	N	Unexplained, unexplained, unexplained	M
39	3024	3375	-351	395.713108	-0.88700625	N	Unexplained obese	M

41	3030	3700	-670	389.1178895	-1.72184322	Y	Unexplained, previous SB	M
39	3040	3375	-335	395.713108	-0.846572917	N	Unexplained, obese	M
41	3064	3700	-636	389.1178895	-1.634466102	Y	Unexplained obese and post-term	M
38	3070	3175	-105	395.713108	-0.26534375	N	Unexplained, unexplained	M
37	3080	2950	130	379.2250618	0.342804348	N	Unexplained, unexplained	M
40	3100	3550	-450	395.713108	-1.1371875	N	Placenta	M
36	3130	2700	430	362.7370157	1.185431818	N	Unexplained lesion, clinical	M

39	3150	3375	-225	395.713108	-0.56859375	N	Unexplained, unexplained	M
40	3158	3550	-392	395.713108	-0.990616667	N	Unexplained, unexplained	M
40	3160	3550	-390	395.713108	-0.9855625	N	Unexplained, unexplained	M
41	3180	3700	-520	389.1178895	-1.336355932	N	Unexplained, post term	M
40	3180	3550	-370	395.713108	-0.935020833	N	Placenta	M
36	3184	2700	484	362.7370157	1.3343	N	Unexplained lesion, placenta	M
41	3190	3700	-510	389.1178895	-1.31065678	N	Ascending infection	M

39	3190	3375	-185	395.713108	-0.467510417	N	Unexplained, previous SB	M
41	3200	3700	-500	389.1178895	-1.284957627	N	Unexplained lesion, placenta	M
39	3200	3375	-175	395.713108	-0.442239583	N	Unexplained lesion, placenta	M
36	3200	2700	500	362.7370157	1.378409091	N	Unexplained, unexplained	M
30	3200	1425	1775	230.8326463	7.689553571	N	Unexplained, unexplained	M
39	3246	3375	-129	395.713108	-0.32599375	N	Ascending infection	M
40	3260	3550	-290	395.713108	-0.732854167	N	Unexplained, unexplained	M

39	3260	3375	-115	395.713108	-0.290614583	N	Unexplained, unexplained	M
40	3278	3550	-272	395.713108	-0.687366667	N	Unexplained lesion, placenta	M
39	3320	3375	-55	395.713108	-0.138989583	N	Unexplained obese with GDM	M
40	3350	3550	-200	395.713108	-0.505416667	N	Unexplained, unexplained	M
38	3350	3175	175	395.713108	0.442239583	N	Unexplained lesion, clinical	M
39	3395	3375	20	395.713108	0.050541667	N	Unexplained unexplained	M
42	3400	3850	-450	395.713108	-1.1371875	N	Unexplained obese and post-term	M

40	3410	3550	-140	395.713108	-0.353791667	N	Unexplained lesion, placenta	M
38	3430	3175	255	395.713108	0.64440625	N	Unexplained lesion, obese	M
39	3460	3375	85	395.713108	0.214802083	N	Unexplained, unexplained	M
42	3464	3850	-386	395.713108	-0.975454167	N	Unexplained, post-term	M
38	3470	3175	295	395.713108	0.745489583	N	Unexplained, previous SB	M
41	3510	3700	-190	389.1178895	-0.488283898	N	Ascending infection	M
36	3520	2700	820	362.7370157	2.260590909	N	Unexplained lesion, baby	M

37	3535	2950	585	379.2250618	1.542619565	N	Feto-maternal haemorrghae	M
40	3546	3550	-4	395.713108	-0.010108333	N	Unexplained, unexplained	M
41	3550	3700	-150	389.1178895	-0.385487288	N	Unexplained, post-term	M
38	3556	3175	381	395.713108	0.96281875	N	Unexplained lesion, cord	M
38	3575	3175	400	395.713108	1.010833333	N	Unexplained, obese	M
38	3580	3175	405	395.713108	1.02346875	N	Birth trauma	M
40	3590	3550	40	395.713108	0.101083333	N	Ascending infection	M

40	3590	3550	40	395.713108	0.101083333	N	Unexplained unexplained	M
39	3600	3375	225	395.713108	0.56859375	N	Unexplained, unexplained	M
39	3600	3375	225	395.713108	0.56859375	N	Unexplained lesion, cord	M
40	3610	3550	60	395.713108	0.151625	N	Infection	M
42	3632	3850	-218	395.713108	-0.550904167	N	Unexplained, post-term and obese	M
41	3705	3700	5	389.1178895	0.012849576	N	Unexpalined, post-term	M
41	3710	3700	10	389.1178895	0.025699153	N	Unexplained, previous SB	M
40	3710	3550	160	395.713108	0.404333333	N	Unexplained, unexplained	M
42	3740	3850	-110	395.713108	-0.277979167	N	unexplained, post-term	M
39	3748	3375	373	395.713108	0.942602083	N	Unexplained obese and previous SB	M

42	3770	3850	-80	395.713108	-0.202166667	N	Infection	M
41	3870	3700	170	389.1178895	0.436885593	N	Unexplained, unexplained	M
38	3870	3175	695	395.713108	1.756322917	N	Unexplained obese	M
41	3890	3700	190	389.1178895	0.488283898	N	Unexplained, post-term	M
41	3914	3700	214	389.1178895	0.549961864	N	Unexplained obese and post-term	M
41	3930	3700	230	389.1178895	0.591080508	N	Unexplained, post-term	M
42	3950	3850	100	395.713108	0.252708333	N	Unexplained lesion, placenta	M
42	3960	3850	110	395.713108	0.277979167	N	Ascending infection	M

40	3960	3550	410	395.713108	1.036104167	N	Unexplained lesion, clinical	M
39	4045	3375	670	395.713108	1.693145833	N	Unexplained with IDDM and previous SB	M
41	4095	3700	395	389.1178895	1.015116525	N	Unexplained, post-term	M
38	4096	3175	921	395.713108	2.32744375	N	Unexplained lesion, placenta	M
40	4100	3550	550	395.713108	1.389895833	N	Unexplained, unexplained	M
40	4105	3550	555	395.713108	1.40253125	N	Birth trauma	M
40	4136	3550	586	395.713108	1.480870833	N	Unexplained lesion. Placenta	M
40	4225	3550	675	395.713108	1.70578125	N	Unexplained lesion, baby	M
42	4230	3850	380	395.713108	0.960291667	N	Unexplained, post-term	M

40	4300	3550	750	395.713108	1.8953125	N	Unexplained obese with previous SB	M
41	4450	3700	750	389.1178895	1.927436441	N	Unexplained post-term	M
41	4480	3700	780	389.1178895	2.004533898	N	Placenta	M
40	4715	3550	1165	395.713108	2.944052083	N	Unexplained, unexplained	M
36	4720	2700	2020	362.7370157	5.568772727	N	Unexplained obese with GDM	M
40	5130	3550	1580	395.713108	3.992791667	N	Unexplained obese and previous SB	M
41	5150	3700	1450	389.1178895	3.726377119	N	Unexplained obese and post-term	M

Appendix 6: Thymus gland measurements

Gestation	Thymic weight	Lobule area (mm2)	Medulla Area (mm2)	Cortex Area (mm2)	CM ratio	Number of HC (6 fields at x4)	Distance between lobules (6 fields at x4) (Micro meters)	Number ofTBMs (1xHPF)	VB Grade	Category
40	8.7	4.46	1.28	3.18	2.484375	147	83.75	29	2	Control
26	1.6	4.73	1.01	3.72	3.683168317	65	57.25		2	Control
32	3.5	1.65	0.36	1.29	3.583333333	193	60.91666667	40	2	Control
31	4.4	0.931	0.23	0.701	3.047826087	111	97.9	32	2	Control
38	4	1.55	0.813	0.737	0.906519065	97	63.91666667	21	3	Control
39	11.4	5.96	1.17	4.79	4.094017094	69	106.9833333	43	3	Control
35	9.6	0.709	0.229	0.48	2.096069869	93	105.1833333	70	3	Control
35	8.63	5.43	2.27	3.16	1.392070485	74	82.65	50	2	Control
26	0.9	0.858	0.15	0.708	4.72	68	124.2166667	34	2	Control
40	11.2	5.27	1.57	3.7	2.356687898	238	94.46666667	41	4	Control
39	14.2	0.673	0.109	0.564	5.174311927	35	88.28333333	54	3	Control
24	1.8	0.835	0.358	0.477	1.332402235	89	126.8666667	33	2	Control
37	17.1	1.97	0.297	1.673	5.632996633	129	125.35	41	2	Control
36	N/G	2.4	0.664	1.736	2.614457831	61	127.1	55	3	Control
37	3.6	1.01	0.139	0.871	6.26618705	129	105.7833333	47	2	Control
36	9.2	Too high grade	Too high grade	Too high grade	Too high grade	199	78.1	55	3	Control
37	15.4	2.4	0.404	1.996	4.940594059	83	98.7	21	2	Control
25	1	0.869	0.239	0.63	2.635983264	93	102.9833333	34	1	Control
29	4.1	1.68	0.298	1.382	4.637583893	181	123.5	39	2	Control
40	19	Too autolysed	Too autolysed	Too autolysed	Too autolysed	141	60.26666667	76	2	Control
31	2.8	1.65	0.751	0.899	1.197070573	194	81.3	35	2	SGA Ab placenta
24	0.5	Not Thymus	Not thymus	Not Thymus	Not Thymus	Not thymus	Not thymus	Not thymus	Not Thymus	SGA Ab placenta
28	0.8	1.21	0.549	0.661	1.204007286	45	65.03333333	28	2	SGA Ab placenta
29	0.7	4.72	1.98	2.74	1.383838384	262	80.16666667	35	2	SGA Ab placenta
39	6.6	1.29	0.2999	0.9901	3.301433811	56	76.8	Too autolysed	3	SGA Ab placenta
24	0.11	1.41	0.645	0.765	1.186046512	48	82.71666667	24	2	SGA Ab placenta
27	0.4	0.556	0.231	0.325	1.406926407	61	108.0166667	36	4	SGA Ab placenta
24	0.2	0.838	0.372	0.466	1.252688172	77	78.63333333	31	2	SGA Ab placenta
24	0.55	0.692	0.263	0.429	1.631178707	107	89.8	67	2	SGA Ab placenta
32	0.25	0.439	0.139	0.3	2.158273381	70	82.65	33	2	SGA Ab

										placenta
28	1.3	0.5	0.176	0.324	1.840909091	220	120.4333333	68	2	SGA Ab placenta
37	2.5	1	0.234	0.766	3.273504274	219	90.15	78	3	SGA Ab placenta
28	0.37	0.104	0.0201	0.0839	4.174129353	134	91	61	2	SGA Ab placenta
35	2.8	0.88	0.206	0.674	3.27184466	124	125.3666667	42	3	SGA Ab placenta
31	1.05	Too high grade	Too high grade	Too high grade	Too high grade	165	135.85	63	4	SGA Ab placenta
25	0.45	0.545	0.217	0.328	1.511520737	132	62.53333333	30	2	SGA Ab placenta
39	3.8	8.26	2.41	5.85	2.427385892	108	147.7666667	44	2	SGA N placenta
26	0.8	1.59	0.279	1.311	4.698924731	117	41.16666667	34	1	SGA N placenta
40	7.8	3.94	1.95	1.99	1.020512821	189	60.26666667	56	2	SGA N placenta
25	1.5	2.04	0.245	1.795	7.326530612	22	84.9	29	2	SGA N placenta
38	9.6	1.79	0.603	1.187	1.968490879	113	67.5	22	3	SGA N placenta
27	1.5	2.59	1.2	1.39	1.158333333	81	76.98333333	26	2	SGA N placenta
29	0.8	2.39	1.11	1.28	1.153153153	69	89.18333333	41	2	SGA N placenta
24	N/G	1.9	0.702	1.198	1.706552707	46	105.1833333	33	2	SGA N placenta
38	4.7	Too Autolysed	Too autoloysed	Too autolysed	Too autolysed	81	88.13333333	44	2	SGA N placenta
40	8.7	1.23	0.286	0.944	3.300699301	150	152.6333333	36	2	SGA N placenta
30	1.72	0.397	0.0939	0.3031	3.227902023	142	112	52	3	SGA N placenta
27	1.05	2.02	0.587	1.433	2.441226576	46	100.0166667	28	2	SGA N placenta

Appendix 7: Proteomic results

Accession Number Key	Accession
1	P23284
2	P62937;C9J5S7;E5RIZ5;F8WE65;P62937-2
3	Q8N0Y7
4	P62701;A6NH36
5	P08246
6	Q04917;A2IDB2
7	P08107;P08107-2;P17066
8	P07437;Q5JP53;Q5ST81
9	P05108;C9JXV4;E7EPP8;P05108-2
10	I3L504;C9J4W5;C9J7B5;F8WCJ1;I3L397;P63241;P63241-2;Q9GZV4
11	Q58FF3
12	Q13509-2;A0A0B4J269;Q13509
13	A0A087X0S5;P12109
14	P31946;P31946-2;Q4VY19;Q4VY20
15	P04083;Q5T3N0;Q5T3N1
16	A0A087WUJ4;Q92618
17	P12814;H0YJ11;H0YJW3;H7C5W8;H9KV75;P12814-2;P12814-3;P12814-4
18	P49454;A0A087WTY4
19	P02768;A0A087WWT3;A0A0C4DGB6;B7WNR0;C9JKR2;D6RHD5;H0YA55;H7C013;P02768-2;P02768-3
20	P18669;P15259
21	P62269
22	F8VSD4;F8VV71;F8VZ29;P61088;Q5JXB2
23	P31947;P31947-2
24	P61158

25	E9PJZ0
26	E5RHG9;B7Z2R2;P14927;P14927-2
27	Q99497
28	P19105;J3QRS3;O14950
29	I6L9I8;Q9H201;Q9H201-2
30	P07910-3;B2R5W2;B2RXH8;B4DSU6;B4DY08;B7ZW38;G3V251;G3V2H6;G3V2Q1;G3V3K6;G3V4C1;G3V4M8;G3V4W0;G3V555;G3V575;G3V576;G3V5X6;O60812;P07910;P07910-2;P07910-4;P0DMR1
31	P04259;P02538;P48668
32	P30043;M0QZL1;M0R192
33	P09211;A0A087X243;A0A087X2E9;A8MX94
34	P01009-2;P01009
35	X6RJP6;P37802;P37802-2
36	M0R1M6
37	A0A0A0MRE3;A0A0C4DGK3;G3V5X4;Q8WXH0;Q8WXH0-2;Q8WXH0-7
38	Q6DN14;D6R8Z9;D6RA42;D6RC97;H0Y8M9;H0Y9S8;H0Y9Y6;Q6DN14-2;Q6DN14-3;Q6DN14-4
39	P12429;D6RFG5
40	P27338-2
41	P00915;E5RFE7;E5RFL2;E5RG43;E5RG81;E5RGU8;E5RH81;E5RHP7;E5RIF9;E5RII2;E5RJF6;E5RJI8;H0YBE2
42	P15880;E9PMM9;E9PPT0;E9PQD7;H0YE27;H0YEN5;H3BNG3
43	P51884
44	Q96QV6;P16104;Q8IUE6
45	J3QRK5;J3KSM4;J3QLP7
46	P08133-2;P08133
47	Q9BVQ7-2;Q9BVQ7;Q9BVQ7-3
48	P09104;F5H0C8;F5H1C3;P09104-2
49	P30044-2;P30044;P30044-3;P30044-4
50	P62834;A6NIZ1;B7ZB78;F5GZG1;F5H823;P61224;P61224-2;P61224-3;P61224-4
51	P20929-2

52	P02671-2;A0A087WUA0;P02671
53	P07355;A6NMY6;H0YKL9;H0YKS4;H0YKV8;H0YKX9;H0YKZ7;H0YL33;H0YLE2;H0YM50;H0YMD0;H0YMD9;H0YMM1;H0YMT9;H0YMU9;H0YMW4;H0YN28;H0YN42;H0YN52;H0YNA0;H0YNP5;P07355-2
54	O95428-6;H0YMM2;O95428;O95428-2;O95428-4;O95428-5
55	A8MW49;P07148;Q9NQV6-6
56	Q9BTM1;H0YFX9;P04908;P0C0S8;P20671;Q16777;Q6FI13;Q71UI9-5;Q7L7L0;Q93077;Q96KK5;Q99878;Q9BTM1-2
57	P69891
58	P40926;G3XAL0;P40926-2
59	P30086
60	P14061;A0A0A0MQS7;B4DU11
61	P02008
62	P68363;C9J2C0;C9JDS9;F5H5D3;F8VQQ4;F8VRK0;F8VRZ4;F8VS66;F8VVB9;F8VWV9;F8VX09;P68363-2;Q13748;Q13748-2;Q6PEY2;Q71U36;Q71U36-2;Q9BQE3;Q9NY65;Q9NY65-2;V9GZ17
63	P08758;D6RBE9;D6RBL5;D6RCN3;E9PHT9
64	P84077;C9J1Z8;F5H423;P61204;P61204-2;P84085
65	Q9UJZ1;Q9UJZ1-2
66	O14931-6;O14931-3
67	P98161-2;P98161;P98161-3
68	P14625;F8W026;H0YIV0;Q96GW1
69	P69892;E9PBW4
70	A0A0A0MS07;A0A087WV47;A0A087WYC5;A0A087WYE1;A0A087X010;A0A087X079;A0A087X1C7;A0A0A0MS08;P01857
71	Q9UBI6
72	P35754
73	J3KNE3;P68402
74	M0R210;A0A087WZ27;M0QX76;M0R1M5;M0R3H0;P62249;Q6IPX4
75	P05388-2;F8VPE8;F8VU65;F8VW21;F8VWS0;F8W1K8;G3V210;P05388;Q8NHW5
76	F8VXI2
77	P13645
78	P04792;C9J3N8;F8WE04
79	Q6B0K9

80	P07951;A0A087WWU8;B7Z596;D6R904;F5H7S3;H0YK48;H0YKP3;H0YKX5;H0YL52;H0YL80;H0YNC7;H7BYY1;J3KN67;K7ENT6;K7EP68;K7ERG3;P06753;P06753-2;P06753-3;P06753-4;P06753-5;P06753-6;P07951-2;P07951-3;P09493;P09493-10;P09493-2;P09493-3;P09493-4;P09493-5;P09493-6;P09493-7;P09493-8;P09493-9;P67936;P67936-2;Q5HYB6;Q5TCU3;Q5TCU8;Q6ZN40
81	P21980
82	P26038;V9GZ54
83	P02042;C9JRG0;E9PEW8;E9PFT6
84	Q99996;A0A087WX84;A0A0A0MRE9;A0A0A0MRF6;Q99996-2;Q99996-3;Q99996-4;Q99996-5;Q99996-6
85	Q9NSB2
86	Q9Y5U8;A0A087WVZ0;Q5TI65
87	P04004
88	Q9Y581
89	P63104;B0AZS6;B7Z2E6;E5RGE1;E5RIR4;E7ESK7;E7EVZ2;E7EX29;E9PD24;H0YB80;P63104-2
90	Q9NQP5;A6PVK5;P00488
91	P12036;P12036-2
92	P31327;P31327-2;P31327-3;Q5R211
93	Q8TES7;K7EL64;K7ENL6;Q8TES7-2;Q8TES7-5;Q8TES7-6
94	Q5T7W7
95	O15370
96	Q5JPF3;Q5JPF3-2;Q5JPF3-3;Q8N2N9-2;Q8N2N9-3
97	Q6W2J9-2;H7BYY2;Q6W2J9;Q6W2J9-3;Q6W2J9-4
98	P06702
99	P07237;H0Y3Z3;H7BZ94;I3L312;I3L398;I3L3U6;I3L4M2;I3NI03
100	P25705-2;K7EJP1;K7EK77;K7ENJ4;K7EQH4;K7ERX7;P25705;P25705-3
101	P32119;A6NIW5;P32119-2
102	O95201;C9JEY6
103	P69905;G3V1N2
104	P13804-2;H0YK49;H0YKF0;H0YL12;H0YLU7;P13804
105	P35232;C9JW96;C9JZ20;D6RBK0;E7ESE2;E9PCW0;P35232-2
106	H0YLV6

107	O60281;E5RFE6;H0YAU0;J3KNV1;O60281-2
108	Q149M9-3;F8W0U9;Q149M9
109	J3KT29;B9ZVP7;C9JD32;P62829
110	P06733;K7EM90;P06733-2;P13929-3
111	H0YCR7
112	Q9HC52;C9J6K3;C9JM54
113	P59665;P59666
114	Q6ZMR3;A0A087WUM2
115	P68871;F8W6P5
116	P00491;G3V5M2
117	P18615-4;A0A0A0MSN9;A0A0A0MT02;E9PD43;P18615;P18615-3
118	P07195;A8MW50;C9J7H8;F5H793
119	Q9BXT6-5;Q9BXT6
120	Q5VVC9;P62913;P62913-2;Q5VVC8
121	P61626;A0A0B4J259;F8VV32
122	P30050
123	P68366;P68366-2
124	P30041
125	J3QTB2;J3QTA6;Q9BRQ6
126	Q6DRA6;Q6DN03
127	Q9BYX7
128	A6NN06;Q5XG85
129	P02774;D6RBJ7;D6RF35;P02774-2;P02774-3
130	P0CG05;A0A075B6K9;A0A075B6L0;P0CG06
131	P09382
132	P49448
133	A0A0C4DGX0
134	Q13011
135	P60174;P60174-1;P60174-4;U3KPZ0;U3KQF3

136	P02792;A0A087X1B9
137	P05164-3;J3QSF7;P05164;P05164-2
138	P02787;C9JB55;F8WEK9;H7C5E8
139	Q5T6W2;P61978;P61978-2;P61978-3
140	P13647;H0YI76
141	P62081;B5MCP9
142	P11142;E9PI65;E9PK54;E9PKE3;E9PLF4;E9PN25;E9PN89;E9PNE6;E9PPY6;E9PQQ4;P11142-2;P48741
143	J3QSW6;H7BXZ5;O60229
144	A0A087WUV9;Q9NV66;Q9NV66-2
145	C9J0D1;C9J386;P0C0S5;Q71UI9;Q71UI9-2;Q71UI9-3;Q71UI9-4
146	Q58FF7
147	P60866;E5RIP1;E5RJX2;P60866-2
148	P62805
149	K7EQJ4;B7Z4G8;F5GZ08;P51693;P51693-2
150	Q92878;E7EN38;E7ESD9;E9PM98;Q92878-2
151	P04406-2;E7EUT5;P04406
152	H0YD74
153	Q5HY54;H0Y5F3;H7C2E7;P21333;P21333-2;Q60FE5
154	P60709;B8ZZJ2;C9JTX5;C9JUM1;C9JZR7;E7EVS6;F8WB63;F8WCH0;G5E9R0;I3L1U9;I3L3I0;I3L3R2;J3KT65;K7EM38;P63261
155	P04264;F8VUG2;F8W0C6;F8W1U3;Q7Z794
156	P02675;D6REL8
157	P12111;E7ENL6;P12111-2;P12111-3;P12111-4;P12111-5
158	O94964-2;H0YDM2;O94964
159	K7EKH6
160	Q8WXA9;Q8WXA9-2
161	Q13404;A0A0A0MSL3;G3V2F7;I3L0A0;Q13404-1;Q13404-2;Q13404-6;Q13404-7
162	Q13023;G3V3H2;G3V3H7;G3V569;Q13023-2
163	B1AHL2;P23142-4
164	E9PQK7

165	P05386
166	Q16352;A0A087WYG8
167	A0A087WVV1;P49721
168	P07737;I3L3D5;K7EJ44
169	P08779;K7ENW6
170	C9JC84;C9JEU5;C9JPQ9;C9JU00;P02679;P02679-2
171	H0YK65
172	D6RF44;D6RAF8;H0Y8G5;H0YA96;Q14103;Q14103-2;Q14103-3;Q14103-4
173	E9PLL6;E9PJD9;E9PLX7;P46776
174	P06576;F8W079;F8W0P7;H0YH81
175	H0YIN9
176	P02533;F5GWP8;K7EMS3;K7EPJ9;P19012;Q04695
177	Q9BVA1;Q13885
178	D6RFL4;P08571
179	P10809
180	Q96H55;Q96H55-3;Q96H55-4
181	P35527;K7EQQ3;Q99456
182	P19971;C9JGI3;P19971-2
183	Q9Y4C8
184	P17661
185	A6QL64;Q8N2N9
186	Q9BZ23;E5RHA5;Q9BZ23-3;Q9BZ23-4;Q9H999;V9GYZ0
187	F8W6K2
188	P05787;P05787-2
189	P11021
190	Q99819;A2ID99;C9J9L9
191	A0A075B6E2;P39019
192	E5RI24
193	P02100;A8MUF7

194	P30101
195	A0A0C4DG40;E7ENN3;Q8NF91;Q8NF91-4;Q8NF91-7
196	P38646
197	Q03001;E7ERU0;E7ETB9;E9PEB9;E9PHM6;F6QMI7;F8W9J4;Q03001-13;Q5T0V7
198	P63151
199	P55084-2;P55084
200	P34931
201	Q06830;A0A0A0MSI0
202	P62820-2;E7END7;E9PLD0;P62820;Q92928;Q9H0U4
203	P07197;E7EMV2;E7ESP9;P07197-2
204	H3BML9;H3BN54;H3BPK4;Q96A32
205	Q15582;H0Y8L3;H0Y8M8
206	P09110;B4DVF4;C9JDE9;P09110-2
207	P51993;P51993-2
208	P04040
209	P55072
210	Q13162;H7C3T4
211	Q10570
212	P13796;P13796-2
213	P08727;C9JM50
214	P00924;U3KQP4
215	Q9NUU6
216	Q5SX87;P50395;P50395-2;Q5SX91
217	P05109
218	Q9UGJ0;F8WDA1;Q9UGJ0-3
219	H3BQK9;H3BPE1
220	P35908;Q5XKE5
221	P18206-2;A0A096LPE1;P18206
222	P62258;B4DJF2;I3L3T1;K7EIT4;K7EM20;P62258-2

223	P05783;F8VZY9
224	A0A087X1H5;H7C3K3;Q15057
225	P29401;A0A0B4J1R6;P29401-2
226	M0R300;M0R0P8;Q13459;Q13459-2
227	P25054;E9PFT7;P25054-2
228	Q14CN4-2;H0YHD9;Q14CN4;Q14CN4-3
229	P53814;A0A087WVP4;A0A087X1R1;P53814-5;P53814-6
230	Q96KP4;A0A087WVS2;A0A087WYZ1;J3KRD5;J3KSV5;J3QKQ0;J3QKT2;J3QL02;J3QLU1;J3QQN6;J3QR27;J3QRD0
231	Q96CX2
232	G8JLA2;B7Z6Z4;F8VPF3;F8VXL3;F8VZU9;F8W180;F8W1R7;G3V1V0;G3V1Y7;H0YI43;J3KND3;P60660;P60660-2
233	Q15084-3;Q15084;Q15084-2;Q15084-4;Q15084-5
234	O60858;O60858-3
235	P13929-2;E5RG95;E5RGZ4;E5RI09;K7EKN2;K7EPM1;P13929
236	P07900-2;P07900
237	F5GWN5;O00750;Q5SW97;Q5SW98
238	P00761
239	Q7Z6B0-3;A0A0A0MTK0;A0A0A0MTP0;Q7Z6B0;Q7Z6B0-2
240	P54652
241	P02751-17;H0Y4K8;H0Y7Z1;P02751;P02751-10;P02751-11;P02751-12;P02751-13;P02751-14;P02751-15;P02751-3;P02751-4;P02751-5;P02751-6;P02751-7;P02751-8;P02751-9
242	P27797
243	H7BZJ3
244	P68032;A6NL76;C9JFL5;F6QUT6;F6UVQ4;P62736;P63267;P63267-2;P68133
245	Q02539
246	P0DML2;A0A087WU19;A0A087WUG6;A0A087WX75;A0A087WXJ5;A0A087X0G4;A0A0B4J1R0;A6NFB4;B1A4G9;B1A4H2;H0YM39;J3QT06;P01241;P01241-2;P01241-3;P01241-4;P01241-5;P01242;P01242-2;P01242-3;P01242-4;P0DML3;P0DML3-2;P0DML3-3;Q14406;Q14406-2;Q14406-3;Q14406-4
247	P10599;P10599-2
248	K7EK07;B4DEB1;K7EMV3;K7EP01;K7ES00;P68431;P84243;Q16695;Q5TEC6;Q6NXT2;Q71DI3
249	P08238;G3V2J8;Q58FF6
250	E9PMD7;A0A087WYY5;C9J9S3;C9JP48;E7ETD8;F5H037;F5H1L6;F8VR82;F8VYE8;F8W0W8;F8WE71;P36873;P36873-2;P62136;P62136-2;P62140

251	F8W0B5;F8VRK6
252	P52907
253	P00338-3;F5GXH2;F5GXY2;F5GYU2;F5GZQ4;F5H5J4;F5H6W8;P00338;P00338-2;P00338-4;P00338-5
254	P61981;E9PG15;P27348
255	Q8N3U4;Q8N3U4-2
256	P08311
257	P07339;H7C1V0;H7C469
258	P41219;F8W835;P41219-2
259	O60814;P57053;P58876;P62807;Q5QNW6;Q5QNW6-2;Q93079;Q96A08;Q99877;Q99879;Q99880;U3KQK0
260	P68104;A0A087WV01;A0A087WVQ9;P68104-2;Q05639;Q5VTE0
261	P31751;M0R0P9
262	Q9UKD2
263	P25101
264	P20160
265	Q12955;Q12955-4;Q12955-5;Q12955-6;Q12955-7
266	P23760-4;P23760;P23760-2;P23760-3;P23760-5;P23760-6;P23760-7;P23760-8
267	Q8WZ42-12;A0A0A0MTS7
268	F8WDD7;A0A0A6YYG9;F8WCF6;H7C0A3;P59998;P59998-2;P59998-3;P59998-4;R4GN08
269	A0A087X130;A0A075B6H6;A0A075B6H7;A0A087WTX5;A0A087WWV8;A0A087WYL9;A0A087WZW8;A0A0B4J1T9;A0A0C4DH55;A0A0C4DH90;P01605;P01624;P01834;P04207;P04434
270	P31150
271	P61604;B8ZZL8;S4R3N1
272	P08670;B0YJC4;B0YJC5;H7C5W5;P07196;P08729;Q5JVS8
273	A0A096LP30;Q8NDA2;Q8NDA2-2;Q8NDA2-3
274	P00558;P00558-2
275	P16402;P10412;P16403
276	Q9UHP3-1;Q9UHP3;Q9UHP3-3
277	P02788;C9JCF5;E7EQB2;E7ER44;P02788-2
278	Q9UI09

279	Q9H6S0;D6RA70;D6RF50
280	Q6S8J3
281	Q13951;J3KS23
282	O95678
283	A5A3E0
284	I3L4N8
285	A0A0A0MRQ5
286	C9JM00;O75635;O75635-2
287	Q9NX36
288	P06899;P23527;P33778;Q16778;Q8N257
289	B0QYN7
290	O43707;F5GXS2;H7C144;O43707-2;O43707-3
291	Q9Y2E4;E7EPU2
292	A8K7Q2
293	F8W754
294	H7C123
295	Q96C32;A0A087WV77;B4DV12;F5GXK7;F5GYU3;F5GZ39;F5H265;F5H2Z3;F5H388;F5H6Q2;F5H747;J3QKN0;J3QS39;J3QSA3;J3QTR3;K7EMA8;M0R1V7;M0R2S1;P0CG47;P0CG48;P62979;P62987;Q5PY61
296	Q9BZF1-3;F8VQX7;F8VUA7;F8VVD3;F8VVE7;F8VZ43;Q9BZF1;Q9BZF1-2
297	F5H5G7;F5H155;F5H245;G3XAP5;P07864
298	P49585;C9J050;C9JEJ2
299	P0CG38
300	P0CG39
301	Q562R1
302	Q9Y536
303	P29590;H3BVD2;P29590-2;P29590-3;P29590-4;P29590-5;P29590-8;P29590-9
304	O43678-2;O43678
305	Q12929;F5GYM8;F5H0R8;F5H1B5;F5H2B8;F5H3Q6

											Normalized abundance						
											Control			No Funisitis		Funisitis	
Accession Number Key	Peptide count	Unique peptides	Confidence score	Anova (p)	Max fold change	Fractions	Occurrences	Highest mean condition	Lowest mean condition	Description	1	2	3	1	2	1	2
1	15	12	102.0762	0.003508607	1.147509577	2	1	No Funisitis	Funisitis	Peptidyl-prolyl cis-trans isomerase B OS=Homo sapiens GN=PPIB PE=1 SV=2	147651.9	141480.3	147801.9	152353.6	151718.6	132778.5	132205.9
2	15	10	86.5089	0.010496563	1.241654952	1;2	2	Funisitis	No Funisitis	Peptidyl-prolyl cis-trans isomerase A OS=Homo sapiens GN=PPIA PE=1 SV=2	157239.8	157097.6	150743	149182.3	135975.3	176096.2	177971.2
3	5	3	25.6349	0.016703596	1.136192469	1;2	2	No Funisitis	Funisitis	Probable phosphoglycerate mutase 4 OS=Homo sapiens GN=PGAM4 PE=2 SV=1	13414.44	13931.79	14478.65	14180.25	13925.65	12271.45	12465.47
4	3	3	16.5092	0.030609615	1.221985903	2	1	Control	No Funisitis	40S ribosomal protein S4, X isoform OS=Homo sapiens GN=RPS4X PE=1 SV=2	96504.94	97956.54	101240.2	86914.83	74408.18	82210.32	82876.29
5	6	4	15.0455	0.058167813	1.816108606	2	1	Funisitis	No Funisitis	Neutrophil elastase OS=Homo sapiens GN=ELANE PE=1 SV=1	36922.31	27751.71	37678.69	27277.88	19263.19	40529.58	43994.06
6	6	1	55.1172	0.06176162	1.467476885	1;2	2	Funisitis	No Funisitis	14-3-3 protein eta OS=Homo sapiens GN=YWHAH PE=1 SV=4	13511.34	13389.64	14616.63	12189.14	8841.331	15580.36	15281.37
7	12	4	86.2934	0.067021796	1.221748371	1;2	2	No Funisitis	Control	Heat shock 70 kDa protein 1A/1B OS=Homo sapiens GN=HSPA1A PE=1 SV=5	79151.71	74688.03	66072.8	90608.41	88510.13	79563.26	79398.45
8	7	4	36.0544	0.06818497	1.132143505	1;2	2	No Funisitis	Funisitis	Tubulin beta chain OS=Homo sapiens GN=TUBB PE=1 SV=2	108361.7	111041.2	106842.3	127299.2	117568.8	103679	112608.1
9	6	5	35.5446	0.076304305	1.160005716	1	1	No Funisitis	Funisitis	Cholesterol side-chain cleavage enzyme, mitochondrial OS=Homo sapiens GN=CYP11A1 PE=1 SV=2	55599.45	52281.99	56768.27	58232.93	52913.21	46176.14	49639.03
10	2	2	9.0432	0.082184774	1.168135605	2	1	No Funisitis	Funisitis	Eukaryotic translation initiation factor 5A-1 OS=Homo sapiens GN=EIF5A PE=1 SV=1	39142.9	43376.65	38911.42	44874.26	43854.05	39236.29	36720.92
11	1	1	4.6221	0.09359994	1.357792222	1	1	No Funisitis	Funisitis	Putative endoplasmin-like protein OS=Homo sapiens GN=HSP90B2P PE=5 SV=1	33858.07	26882.28	35451.13	33261.1	34823.26	24298.59	25844.84
12	2	1	15.1166	0.101588241	1.129218552	1	1	No Funisitis	Funisitis	Isoform 2 of Tubulin beta-3 chain OS=Homo sapiens GN=TUBB3	29281.73	30667.44	31429.81	36326.17	32341.28	30655.24	30154.47
13	10	9	57.1123	0.127223827	1.428132774	1	1	No Funisitis	Funisitis	Collagen alpha-1(VI) chain OS=Homo sapiens GN=COL6A1 PE=1 SV=1	122372	89294.41	97435.57	111214.9	128362.8	78817.26	88938.66
14	10	2	83.6191	0.131797899	1.259832837	1;2	2	Funisitis	Control	14-3-3 protein beta/alpha OS=Homo sapiens GN=YWHAB PE=1 SV=3	10054.36	9414.034	11410.42	13089.27	11382.58	11924.37	14010.38
15	14	12	120.3505	0.138524117	1.212442322	1;2	2	No Funisitis	Funisitis	Annexin A1 OS=Homo sapiens GN=ANXA1 PE=1 SV=2	124341	142567.2	129533.4	157817.4	135614	120283.3	121733.4
16	1	1	11.0316	0.140351526	2.487457035	2	1	Control	Funisitis	Zinc finger protein 516 (Fragment) OS=Homo sapiens GN=ZNF516 PE=1	378536.5	466631.5	334905.3	226177.7	294063	72110.19	244162.8

										SV=1							
17	15	9	85.5505	0.141312714	1.508627139	1;2	2	Control	No Funisitis	Alpha-actinin-1 OS=Homo sapiens GN=ACTN1 PE=1 SV=2	215717.1	145543.1	216420	135318.9	119959.6	168141.3	202792.3
18	12	5	62.5878	0.152334469	1.244063314	1	1	Funisitis	Control	Centromere protein F OS=Homo sapiens GN=CENPF PE=1 SV=2	40573.69	36722.69	46634.88	55616.18	46693.54	54652.49	48133.07
19	46	40	367.5547	0.162733654	1.211427684	1;2	2	Control	Funisitis	Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2	325151.1	403078.1	336724.1	347330.9	329778.8	284626.2	301433.4
20	6	2	30.9098	0.164552402	1.161534138	1;2	2	Control	Funisitis	Phosphoglycerate mutase 1 OS=Homo sapiens GN=PGAM1 PE=1 SV=2	45670.11	42985.03	50490.41	43400.58	46917.82	38416.87	41446.21
21	3	2	15.4882	0.181637225	1.640412248	2	1	Funisitis	No Funisitis	40S ribosomal protein S18 OS=Homo sapiens GN=RPS18 PE=1 SV=3	43612.02	38425	52368.75	43024.13	24413.74	58149.96	52475.96
22	5	5	31.469	0.190763409	1.414538029	2	1	No Funisitis	Funisitis	Ubiquitin-conjugating enzyme E2 N OS=Homo sapiens GN=UBE2N PE=1 SV=1	93252.38	142761.5	100116.3	149694.6	155135.7	118755.4	96742.67
23	7	2	60.0578	0.19491784	1.26184777	1;2	2	Funisitis	No Funisitis	14-3-3 protein sigma OS=Homo sapiens GN=SFN PE=1 SV=1	27441.44	25619.28	23148.75	25257.65	19699.45	28622.23	28106.8
24	3	2	16.6985	0.202611005	1.317007853	1	1	Funisitis	Control	Actin-related protein 3 OS=Homo sapiens GN=ACTR3 PE=1 SV=3	10653.41	10460.91	7750.659	9750.308	10474.43	13766.38	11577.22
25	1	1	5.6144	0.22329092	1.912920894	2	1	No Funisitis	Funisitis	Neuroblast differentiation-associated protein AHNAK (Fragment) OS=Homo sapiens GN=AHNAK PE=1 SV=1	1712.572	4332.149	3313.25	4812.626	6746.474	3489.785	2552.858
26	1	1	4.6983	0.223401068	1.441253753	2	1	Funisitis	No Funisitis	Cytochrome b-c1 complex subunit 7 OS=Homo sapiens GN=UQCRB PE=1 SV=1	70328.09	63631.35	71279.18	68425.53	44045.73	90542.57	71557.06
27	5	3	27.6044	0.22697338	1.136376374	2	1	No Funisitis	Funisitis	Protein deglycase DJ-1 OS=Homo sapiens GN=PARK7 PE=1 SV=2	81500.64	85158.5	70054.78	89459.48	89053.6	78242.41	78847.33
28	2	2	16.0485	0.231477384	1.315872151	2	1	Funisitis	No Funisitis	Myosin regulatory light chain 12A OS=Homo sapiens GN=MYL12A PE=1 SV=2	74263.24	57167.78	68925.34	56033.55	57561.9	65593.77	83883.33
29	1	1	5.6532	0.235470488	1.291847595	1	1	No Funisitis	Control	EPN3 protein OS=Homo sapiens GN=EPN3 PE=1 SV=1	28789.69	22986.59	32063.68	37078.3	35127.33	33556.69	27379.5
30	2	2	9.6429	0.243018303	1.126467629	2	1	No Funisitis	Control	Isoform 3 of Heterogeneous nuclear ribonucleoproteins C1/C2 OS=Homo sapiens GN=HNRNPC	10589.62	11228.49	11601.94	12137.61	12960.12	13032.01	11182.73
31	6	3	43.5493	0.243315471	1.158619474	1	1	Funisitis	Control	Keratin, type II cytoskeletal 6B OS=Homo sapiens GN=KRT6B PE=1 SV=5	110642.5	97874.5	102997.4	115941.2	93973.72	120266	120351.8
32	5	5	42.882	0.263617338	1.721866582	2	1	Control	Funisitis	Flavin reductase (NADPH) OS=Homo sapiens GN=BLVRB PE=1 SV=3	182024.3	303350.5	184561.7	144647.9	206053.5	94633.64	164750.2
33	8	8	56.8992	0.265010194	1.174309228	1;2	2	Control	No Funisitis	Glutathione S-transferase P OS=Homo sapiens GN=GSTP1 PE=1 SV=2	202602.4	177307.3	217276.5	162210.2	176818.1	171292.3	193635
34	2	1	15.9327	0.271357517	2.081709461	1	1	Funisitis	No Funisitis	Isoform 2 of Alpha-1-antitrypsin OS=Homo sapiens GN=SERPINA1	23874.11	12935.11	15959.03	13021.91	11767.71	16534.15	35070.65

35	8	8	44.2945	0.278934588	1.078498446	1;2	2	Control	No Funisitis	Transgelin-2 (Fragment) OS=Homo sapiens GN=TAGLN2 PE=1 SV=1	130888.2	123236.2	124072.2	122603.3	111176.5	121635.5	129716.6
36	6	1	36.9392	0.281965158	2.8269693	1;2	2	Funisitis	No Funisitis	Ubiquitin-60S ribosomal protein L40 (Fragment) OS=Homo sapiens GN=UBA52 PE=1 SV=1	55850.1	32544.88	51551.04	20315.67	20043.79	23487.3	90607.65
37	7	4	38.3708	0.288343098	1.201690239	1	1	Control	Funisitis	Nesprin-2 OS=Homo sapiens GN=SYNE2 PE=1 SV=1	69492.51	83430.97	72815.63	65258.92	83342.66	65023.59	60210.63
38	3	2	19.4567	0.293529074	1.138454795	1	1	Control	Funisitis	Multiple C2 and transmembrane domain-containing protein 1 OS=Homo sapiens GN=MCTP1 PE=2 SV=2	56936.31	46229.37	50078.56	49582.93	49926.81	43489.69	46248.46
39	1	1	5.0084	0.29547485	1.162185315	1	1	Control	Funisitis	Annexin A3 OS=Homo sapiens GN=ANXA3 PE=1 SV=3	58671.72	67559.82	73831.65	59275.5	60669.11	53961.21	60801.42
40	3	3	9.4567	0.299473398	1.327361354	2	1	Funisitis	Control	Isoform 2 of Amine oxidase [flavin-containing] B OS=Homo sapiens GN=MAOB	10604.15	8976.22	12022.61	11822.69	9405.293	16362.03	11603.68
41	11	9	78.1691	0.304828163	1.439605265	1;2	2	Control	No Funisitis	Carbonic anhydrase 1 OS=Homo sapiens GN=CA1 PE=1 SV=2	259607.5	177793.4	264298.9	146851.9	178098.3	175519.7	256360.3
42	3	2	17.1718	0.308030131	1.436968889	1	1	No Funisitis	Control	40S ribosomal protein S2 OS=Homo sapiens GN=RPS2 PE=1 SV=2	14556.05	14826.09	7533.157	18534.95	16829.15	19467.3	15216.03
43	5	5	40.2043	0.311608467	1.145476145	1	1	Control	Funisitis	Lumican OS=Homo sapiens GN=LUM PE=1 SV=2	75451.99	81259.39	89981.5	82400.14	78211.86	65957.48	77617.68
44	13	2	53.4567	0.31175468	1.376858702	1;2	2	Funisitis	Control	Histone H2A type 1-A OS=Homo sapiens GN=HIST1H2AA PE=1 SV=3	57060.15	51618.75	43512.94	71150.49	52527.6	82730.61	56967.17
45	7	1	35.6576	0.314194099	1.273974498	1;2	2	No Funisitis	Funisitis	Protein UBBP4 OS=Homo sapiens GN=UBBP4 PE=1 SV=1	117603.5	149176.3	147021.6	185262.7	154249.6	152468.5	114030
46	4	4	18.396	0.322504409	1.148158213	1	1	Funisitis	No Funisitis	Isoform 2 of Annexin A6 OS=Homo sapiens GN=ANXA6	56062.73	47539.03	48369.45	46961.94	45696.3	49762.72	56623.6
47	2	1	9.0131	0.326254036	2.411222071	1	1	No Funisitis	Funisitis	Isoform 2 of Spermatogenesis-associated protein 5-like protein 1 OS=Homo sapiens GN=SPATA5L1	990.6364	485.8112	2087.925	1768.597	1745.419	765.0894	692.2694
48	8	2	59.3015	0.33720689	1.170493712	1;2	2	No Funisitis	Control	Gamma-enolase OS=Homo sapiens GN=ENO2 PE=1 SV=3	13229.15	14053.32	10672.76	14770.01	14847.56	13596.92	12005.63
49	5	5	37.2308	0.343084533	1.150358096	2	1	Control	Funisitis	Isoform Cytoplasmic+peroxisomal of Peroxiredoxin-5, mitochondrial OS=Homo sapiens GN=PRDX5	37179.12	37582.76	40961.25	35984.5	38380.18	29464.8	37600.19
50	1	1	5.8184	0.345707053	1.748682779	2	1	Control	Funisitis	Ras-related protein Rap-1A OS=Homo sapiens GN=RAP1A PE=1 SV=1	13027.36	8657.778	22316.52	14327.89	13573.71	6616.725	10158.44
51	8	6	27.0271	0.358470963	1.459084314	2	1	Control	No Funisitis	Isoform 2 of Nebulin OS=Homo sapiens GN=NEB	43959.89	60351.09	34391.87	25934.32	37440.06	36048.31	43240.29
52	22	19	179.4866	0.359889667	1.144194624	1;2	2	Control	No Funisitis	Isoform 2 of Fibrinogen alpha chain OS=Homo sapiens GN=FGA	296864.5	288558.1	248775.7	232287.7	253759.2	239591.9	277201.4

53	14	6	104.4274	0.361682773	1.242147222	1;2	2	Funisitis	No Funisitis	Annexin A2 OS=Homo sapiens GN=ANXA2 PE=1 SV=2	185854.7	154727.4	136978.8	137262.3	138617.1	153278.6	189404.2
54	3	2	13.6222	0.365856175	1.335799028	1	1	Funisitis	Control	Isoform 6 of Papilin OS=Homo sapiens GN=PAPLN	7452.006	6781.532	10849.76	12641.95	8876.582	9929.122	12408.37
55	8	7	63.2127	0.367951059	2.087366384	1;2	2	Funisitis	Control	Fatty acid-binding protein, liver OS=Homo sapiens GN=FABP1 PE=1 SV=1	115095.7	129945.6	113071.6	197388.5	106331.9	364888.7	133453.2
56	17	6	51.1149	0.371655581	1.286740772	1;2	2	No Funisitis	Control	Histone H2A.J OS=Homo sapiens GN=H2AFJ PE=1 SV=1	859205.8	814166.8	702863.5	1201501	836899	1029547	816372.9
57	53	5	264.6564	0.374333368	1.451959281	1;2	2	Funisitis	Control	Hemoglobin subunit gamma-1 OS=Homo sapiens GN=HBG1 PE=1 SV=2	2625100	2078839	2636075	2979680	1983270	4487685	2617250
58	14	12	98.5629	0.375281966	1.206194853	1;2	2	No Funisitis	Control	Malate dehydrogenase, mitochondrial OS=Homo sapiens GN=MDH2 PE=1 SV=3	105067.6	127124.7	104242.6	149952.8	120584.5	128448.1	105863.2
59	5	4	38.9433	0.384547978	1.343765693	2	1	Funisitis	Control	Phosphatidylethanolamine-binding protein 1 OS=Homo sapiens GN=PEBP1 PE=1 SV=3	44568.56	41790.09	52120.22	57938.59	43252.08	74649.68	49405.76
60	6	5	40.1177	0.388284255	1.335431438	1;2	2	No Funisitis	Control	Estradiol 17-beta-dehydrogenase 1 OS=Homo sapiens GN=HSD17B1 PE=1 SV=3	28020.73	21360.38	30464.72	42861.66	28224.1	27078.52	29196.92
61	8	4	46.7014	0.388408059	1.179657187	1;2	2	Funisitis	Control	Hemoglobin subunit zeta OS=Homo sapiens GN=HBZ PE=1 SV=2	6806.735	6764.513	8059.612	8156.704	7126.489	9428.422	7582.911
62	10	3	107.9309	0.395224727	1.126914161	1;2	2	No Funisitis	Control	Tubulin alpha-1B chain OS=Homo sapiens GN=TUBA1B PE=1 SV=1	27867.87	30615.3	30076.09	36646.44	29886.02	32032.68	30388.45
63	24	22	170.8449	0.397058195	1.153768129	1;2	2	No Funisitis	Funisitis	Annexin A5 OS=Homo sapiens GN=ANXA5 PE=1 SV=2	217206.8	248625	193081.1	254931.6	232260.7	218030.9	204230.9
64	5	5	29.5982	0.398010131	1.723457124	2	1	Control	No Funisitis	ADP-ribosylation factor 1 OS=Homo sapiens GN=ARF1 PE=1 SV=2	370808.3	222537	376410.1	138764.7	236355.5	182774.2	405281.2
65	5	3	31.4149	0.402974547	1.339302327	1	1	Control	Funisitis	Stomatin-like protein 2, mitochondrial OS=Homo sapiens GN=STOML2 PE=1 SV=1	102886.3	94522.21	123899.4	70885.93	104804	61815.23	98122.71
66	2	2	9.1181	0.408179177	1.304851987	1	1	Control	Funisitis	Isoform 6 of Natural cytotoxicity triggering receptor 3 OS=Homo sapiens GN=NCR3	12074.07	10033.83	14985.61	7853.492	11626.96	8191.362	10760.22
67	4	2	19.5823	0.408618327	1.237502748	2	1	Control	Funisitis	Isoform 2 of Polycystin-1 OS=Homo sapiens GN=PKD1	17106.3	14445.21	19115.19	13167.56	17923.57	14286.85	13008.28
68	11	7	57.9752	0.410241011	1.083212277	1	1	No Funisitis	Funisitis	Endoplasmin OS=Homo sapiens GN=HSP90B1 PE=1 SV=1	54438.45	55161.02	59488.85	61844.33	55477.15	55025.24	53283.62
69	52	4	272.339	0.410372955	1.443358826	1;2	2	Funisitis	Control	Hemoglobin subunit gamma-2 OS=Homo sapiens GN=HBG2 PE=1 SV=2	692668	557460.7	719417.7	802733.5	532980.7	1208713	686461.2
70	3	2	19.9124	0.4193471	1.16475427	1	1	Control	Funisitis	Ig gamma-1 chain C region (Fragment) OS=Homo sapiens GN=IGHG1 PE=1 SV=1	48984.84	52898.66	49281.39	45861.42	50847.89	36308.99	50212.78

71	1	1	5.0011	0.424134917	1.197270768	2	1	No Funisitis	Control	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-12 OS=Homo sapiens GN=GNG12 PE=1 SV=3	13305.27	11566.03	17059.55	17981.22	15487.17	14423.19	13702.78
72	3	3	20.4883	0.428348012	1.17805693	2	1	No Funisitis	Control	Glutaredoxin-1 OS=Homo sapiens GN=GLRX PE=1 SV=2	42667.23	49481.72	34053	48586.5	50528.89	44072.23	42550.71
73	1	1	4.5269	0.431764927	1.369172552	2	1	No Funisitis	Funisitis	Platelet-activating factor acetylhydrolase IB subunit beta (Fragment) OS=Homo sapiens GN=PAFAH1B2 PE=1 SV=1	4074.366	6215.474	6122.795	6416.977	7922.224	6525.88	3947.016
74	4	4	26.7493	0.434035106	1.244071184	1;2	2	No Funisitis	Control	40S ribosomal protein S16 OS=Homo sapiens GN=RPS16 PE=1 SV=1	51447.89	52305.37	33811.32	53577.2	60516.22	49215.36	54452.53
75	3	3	32.1088	0.441302284	1.214003366	1;2	2	Funisitis	Control	Isoform 2 of 60S acidic ribosomal protein P0 OS=Homo sapiens GN=RPLP0	25401.03	23321.42	26255.49	33451.19	24733.18	34662.71	26019.6
76	1	1	9.6778	0.444846929	2.856377913	2	1	Control	Funisitis	Phosphatidylinositol phosphatase PTPRQ (Fragment) OS=Homo sapiens GN=PTPRQ PE=4 SV=1	36803.15	36924.56	208036.6	76986.59	96996.63	28775.1	36987.5
77	17	11	112.9246	0.446031828	1.242560518	1;2	2	Funisitis	Control	Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6	273895.7	292673.4	200716.9	281413.8	245181.1	359424.8	276174.7
78	8	8	55.216	0.449105539	1.099297214	2	1	Funisitis	No Funisitis	Heat shock protein beta-1 OS=Homo sapiens GN=HSPB1 PE=1 SV=2	78881.61	82770.44	68804.32	72683.24	76608.93	81311.79	82804.68
79	2	2	6.3224	0.454011436	1.230541259	1;2	2	Funisitis	Control	Hemoglobin subunit mu OS=Homo sapiens GN=HBM PE=2 SV=1	21273.76	17217.95	25422.26	27875.17	23021.22	30101.59	22330.93
80	2	2	18.4127	0.45690348	1.230993548	1	1	No Funisitis	Funisitis	Tropomyosin beta chain OS=Homo sapiens GN=TPM2 PE=1 SV=1	63109.82	81027.22	64853.44	87001	66648.11	67257.76	57559.39
81	6	4	42.0717	0.462198286	1.262259474	1;2	2	No Funisitis	Control	Protein-glutamine gamma-glutamyltransferase 2 OS=Homo sapiens GN=TGM2 PE=1 SV=2	23581.26	22839.32	15338.61	29144.1	22826.65	23956.22	21264.73
82	6	3	38.737	0.467317529	1.124034217	1	1	Control	No Funisitis	Moesin OS=Homo sapiens GN=MSN PE=1 SV=3	40941.48	33171.34	41914.6	34340.93	34475.14	40367.53	36571.3
83	44	8	195.6523	0.469516505	1.224080542	1;2	2	Control	No Funisitis	Hemoglobin subunit delta OS=Homo sapiens GN=HBD PE=1 SV=2	308760.9	294234.2	282530.8	201853.8	280427	184992.1	301919.3
84	6	3	29.5413	0.469539432	1.311455443	1	1	No Funisitis	Control	A-kinase anchor protein 9 OS=Homo sapiens GN=AKAP9 PE=1 SV=3	16514.95	20123.77	11887.34	22675.82	19750.7	20821.25	14130.57
85	3	1	34.1305	0.477540981	1.210328838	1	1	Funisitis	No Funisitis	Keratin, type II cuticular Hb4 OS=Homo sapiens GN=KRT84 PE=2 SV=2	910.3905	874.2937	1284.314	985.0122	938.8187	1181.337	1147.131
86	1	1	10.0096	0.478444914	2.95981557	2	1	Funisitis	Control	Mitochondrial pyruvate carrier 1 OS=Homo sapiens GN=MPC1 PE=1 SV=1	39834.71	60411.27	54308.99	212413.2	48359.82	249311.8	55657.63
87	1	1	6.1818	0.479296346	1.1994748	1	1	Control	Funisitis	Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1	142681.8	118379.8	158758.5	126965.8	143411.8	98457.65	134877.8
88	2	2	8.7495	0.480306853	1.313101171	2	1	No Funisitis	Control	Insulin-like peptide INSL6 OS=Homo sapiens GN=INSL6 PE=2 SV=2	22836.83	25084.11	20406.28	37156.61	22657.08	31442.64	23534.51
89	15	8	137.7449	0.481301647	1.13837356	1;2	2	Funisitis	No Funisitis	14-3-3 protein zeta/delta OS=Homo sapiens	129244.6	102191.4	117405	112447.6	108676.6	117197.1	134524.9

										GN=YWHAZ PE=1 SV=1							
90	1	1	5.0902	0.481838848	1.118807518	2	1	Control	Funisitis	Coagulation factor XIII A chain (Fragment) OS=Homo sapiens GN=F13A1 PE=1 SV=2	23056.94	25693.76	26822.46	22548.35	23655.72	19820.94	25211.03
91	12	6	73.5299	0.487279205	1.221458007	1	1	Control	No Funisitis	Neurofilament heavy polypeptide OS=Homo sapiens GN=NEFH PE=1 SV=4	32909.91	26763.95	40834.32	25595.08	29261.86	28250.83	30824.19
92	12	11	81.1699	0.487534481	1.112602144	1	1	No Funisitis	Control	Carbamoyl-phosphate synthase [ammonia], mitochondrial OS=Homo sapiens GN=CPS1 PE=1 SV=2	75446.45	76669.54	85263.25	92819.3	83253.13	95068.9	77192.54
93	5	4	30.1895	0.489628273	1.35838052	1;2	2	No Funisitis	Control	Fas-binding factor 1 OS=Homo sapiens GN=FBF1 PE=1 SV=2	30328.87	42924.82	23283.78	52694.89	34728.18	36666.18	33017.48
94	4	3	9.6877	0.490715524	1.237199761	2	1	Funisitis	Control	Thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 2 OS=Homo sapiens GN=TSTD2 PE=1 SV=1	65522.84	61492.66	62801.47	78386.08	49214.35	89134.09	67426.92
95	1	1	5.5488	0.493289744	1.090972099	2	1	No Funisitis	Funisitis	Transcription factor SOX-12 OS=Homo sapiens GN=SOX12 PE=2 SV=2	162305.9	147024.4	146518	150398	170935.7	141574.3	152964.6
96	6	4	26.3748	0.494123172	1.173891018	1;2	2	Control	Funisitis	Ankyrin repeat domain-containing protein 36C OS=Homo sapiens GN=ANKRD36C PE=2 SV=3	57358.77	46029.61	48849.28	46915.53	44943.62	35927.13	50530.45
97	4	1	20.5842	0.496535511	1.235432862	1	1	No Funisitis	Control	Isoform 2 of BCL-6 corepressor OS=Homo sapiens GN=BCOR	271055.2	354705.2	244078.9	411252.8	305165.8	380168.9	297179
98	5	5	34.366	0.499633757	1.220281275	1;2	2	Funisitis	No Funisitis	Protein S100-A9 OS=Homo sapiens GN=S100A9 PE=1 SV=1	155385.3	108976.3	141947.4	115275.5	119560.8	126971.1	159595.2
99	14	14	110.9718	0.50467293	1.163896393	1	1	Funisitis	Control	Protein disulfide-isomerase OS=Homo sapiens GN=P4HB PE=1 SV=3	116207.8	81439.3	113433.8	103308.7	109952.8	118285.5	123091.8
100	12	11	109.1429	0.507032497	1.093494517	1;2	2	Funisitis	Control	Isoform 2 of ATP synthase subunit alpha, mitochondrial OS=Homo sapiens GN=ATP5A1	59819.52	53654.27	47902.07	55206.02	53418.93	60834.93	56807.49
101	20	16	147.3054	0.507815161	1.148140106	1;2	2	Funisitis	No Funisitis	Peroxiredoxin-2 OS=Homo sapiens GN=PRDX2 PE=1 SV=5	233999.5	188318	241633.7	188824.3	202348.8	204066.3	245055.3
102	3	1	16.9407	0.509845713	1.38939495	1	1	Control	Funisitis	Zinc finger protein 205 OS=Homo sapiens GN=ZNF205 PE=1 SV=2	57941.72	99410.65	58058.54	52351.76	74818.7	48492.16	54867.42
103	50	42	214.3774	0.510650084	1.500085003	1;2	2	Control	No Funisitis	Hemoglobin subunit alpha OS=Homo sapiens GN=HBA1 PE=1 SV=2	8162786	4976027	9173488	3842306	6073710	4595240	8111280
104	2	2	18.094	0.51179194	1.050567456	1;2	2	Control	No Funisitis	Isoform 2 of Electron transfer flavoprotein subunit alpha, mitochondrial OS=Homo sapiens GN=ETFA	187146.9	194035.9	178797.3	169878.7	185472.2	185201.9	181089.7
105	4	3	20.563	0.512087606	1.146073032	2	1	No Funisitis	Control	Prohibitin OS=Homo sapiens GN=PHB PE=1 SV=1	31660.93	33539.53	25044.89	35371.36	33580.48	35023.16	29569.14

106	8	2	65.9945	0.517859178	1.165276446	1;2	2	No Funisitis	Control	Annexin OS=Homo sapiens GN=ANXA2 PE=1 SV=1	16233.1	16447.16	11890.01	19004.14	15620.31	16218.85	16728.37
107	3	2	14.737	0.518160027	1.606529126	2	1	Control	Funisitis	Zinc finger protein 292 OS=Homo sapiens GN=ZNF292 PE=1 SV=3	23713.37	40369.97	15500.73	20279.35	17805.29	12485.84	20539.43
108	1	1	10.371	0.518188045	2.580351084	2	1	Control	No Funisitis	Isoform 3 of NACHT and WD repeat domain-containing protein 1 OS=Homo sapiens GN=NWD1	62089.32	104238.2	18929.56	15871.81	31991.72	5065.452	50088.42
109	4	4	18.222	0.522447047	1.140938726	2	1	Funisitis	Control	60S ribosomal protein L23 OS=Homo sapiens GN=RPL23 PE=1 SV=1	22457.43	22500.56	27671.78	28372.06	22927.32	29110.11	26133.97
110	23	13	157.1718	0.536686715	1.094995742	1;2	2	No Funisitis	Control	Alpha-enolase OS=Homo sapiens GN=ENO1 PE=1 SV=2	94236.12	101174	102827.6	121231.8	96480.95	107837.4	106427.8
111	1	1	5.9227	0.540504862	1.729823236	1	1	Control	No Funisitis	Ribonuclease inhibitor (Fragment) OS=Homo sapiens GN=RNH1 PE=1 SV=1	13421.71	6645.896	18779.71	6433.596	8537.998	4129.229	12066.78
112	2	2	9.445	0.541065036	1.179792285	2	1	Control	Funisitis	Chromobox protein homolog 8 OS=Homo sapiens GN=CBX8 PE=1 SV=3	23718.91	28203.65	19090.46	21798.34	20567.94	21244.02	18883.39
113	7	6	47.4329	0.547699079	2.286501958	1;2	2	Control	No Funisitis	Neutrophil defensin 1 OS=Homo sapiens GN=DEFA1 PE=1 SV=1	391192.6	142741.3	662191.5	150298.3	198451.4	201941.1	551137.8
114	4	2	32.445	0.548733955	1.396348678	1	1	Control	No Funisitis	L-lactate dehydrogenase A-like 6A OS=Homo sapiens GN=LDHAL6A PE=2 SV=1	14582.16	10302.2	21579.11	10442.19	11741.13	12562.79	14563.3
115	63	23	266.2916	0.549177984	1.461810164	1;2	2	Control	Funisitis	Hemoglobin subunit beta OS=Homo sapiens GN=HBB PE=1 SV=2	4966524	3809963	4262134	1923492	4762621	1621160	4325176
116	5	5	43.3274	0.5509211	1.173380269	2	1	No Funisitis	Control	Purine nucleoside phosphorylase OS=Homo sapiens GN=PNP PE=1 SV=2	42088.15	58654.44	39106.1	55763.84	53633.28	52495.45	44316.39
117	2	1	9.5511	0.551911809	1.346399777	1	1	Funisitis	Control	Isoform 3 of Negative elongation factor E OS=Homo sapiens GN=NELFE	86678.38	102921.5	48613.21	123362.1	87540	133158.3	80661.76
118	6	4	38.9145	0.552398557	1.122227465	1;2	2	No Funisitis	Funisitis	L-lactate dehydrogenase B chain OS=Homo sapiens GN=LDHB PE=1 SV=2	55773.01	54106.13	56200.38	67669.73	52779.5	56367.81	50962.69
119	1	1	3.9998	0.553083325	1.291112447	2	1	Funisitis	No Funisitis	Isoform 5 of Putative helicase Mov10l1 OS=Homo sapiens GN=MOV10L1	104173.6	73064.81	58452.74	72514.03	72540.79	81597.32	105684.8
120	1	1	6.6019	0.564745884	1.162144628	2	1	No Funisitis	Control	60S ribosomal protein L11 (Fragment) OS=Homo sapiens GN=RPL11 PE=1 SV=1	63459.23	63072.93	45793.18	60146.87	73364.44	59907.79	59733.06
121	3	3	27.0775	0.566790141	1.331544012	2	1	Control	No Funisitis	Lysozyme C OS=Homo sapiens GN=LYZ PE=1 SV=1	75462.17	53225.4	77111.29	42389.79	60647.91	42624.08	76058.15
122	4	4	17.4632	0.568316714	1.245113385	1;2	2	No Funisitis	Control	60S ribosomal protein L12 OS=Homo sapiens GN=RPL12 PE=1 SV=1	63910.06	78335.3	41681.2	83212.05	69460.89	67344.27	61402.88
123	8	1	79.5944	0.572430415	1.236865005	1;2	2	Control	Funisitis	Tubulin alpha-4A chain OS=Homo sapiens GN=TUBA4A PE=1 SV=1	101681.6	77157.44	110249.2	70934.01	88529.28	56846.94	98970.8

124	5	5	30.1927	0.575065704	1.074871202	1;2	2	No Funisitis	Control	Peroxiredoxin-6 OS=Homo sapiens GN=PRDX6 PE=1 SV=3	64130.28	69282.57	58960.77	72325.05	65526.19	67555.05	61537.85
125	1	1	11.6194	0.578570113	1.161590386	1	1	Control	Funisitis	MICOS complex subunit MIC25 OS=Homo sapiens GN=CHCHD6 PE=1 SV=1	64903.22	45190	53999.4	51967.79	56694.39	41393	52783.99
126	3	1	31.8425	0.582143898	1.652320227	1;2	2	Control	No Funisitis	Putative histone H2B type 2-D OS=Homo sapiens GN=HIST2H2BD PE=5 SV=3	278152	153171	431315.1	146529.3	201521.9	174191.6	284288.5
127	18	2	97.2243	0.590857777	1.467685133	1;2	2	Control	Funisitis	Putative beta-actin-like protein 3 OS=Homo sapiens GN=POTEKP PE=5 SV=1	15089.11	21542.65	9143.427	11091.59	12735.78	7614.025	13178.44
128	1	1	9.3154	0.592872641	1.394887558	2	1	Control	Funisitis	Putative UPF0633 protein MGC21881 OS=Homo sapiens PE=5 SV=1	92693.89	84326.56	65479.31	42443.79	89340.18	33051.36	82847.95
129	1	1	15.3396	0.596366205	2.328535849	1	1	Control	No Funisitis	Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1	7448.775	4987.348	27280.64	2543.541	8827.484	6304.124	17478.02
130	2	2	10.0227	0.598127908	1.260949083	2	1	Funisitis	Control	Ig lambda-2 chain C regions OS=Homo sapiens GN=IGLC2 PE=1 SV=1	7486.777	9174.668	6666.468	5745.07	10940.14	9872.984	9737.224
131	6	6	29.7083	0.599689679	1.170804052	2	1	Control	Funisitis	Galectin-1 OS=Homo sapiens GN=LGALS1 PE=1 SV=2	111794.2	102960	90364.73	86715.01	115721.8	70396.55	103340.9
132	3	3	32.2204	0.600115563	1.368881233	1	1	Funisitis	Control	Glutamate dehydrogenase 2, mitochondrial OS=Homo sapiens GN=GLUD2 PE=1 SV=2	68878.27	72417.66	36298.26	93886.18	59500.58	102127.4	59942.82
133	2	1	9.3217	0.602365603	1.156745388	2	1	Control	No Funisitis	Ankyrin repeat domain-containing protein 36B OS=Homo sapiens GN=ANKRD36B PE=4 SV=1	17976.34	15507.81	18200.82	13170.96	16616.62	13449.07	18619.9
134	4	3	20.2745	0.608437229	1.169341328	2	1	No Funisitis	Control	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial OS=Homo sapiens GN=ECH1 PE=1 SV=2	67862.09	73640.53	45704.81	71701.64	74237.95	67832.9	63220.53
135	10	5	55.6701	0.609383763	1.250175759	1;2	2	Funisitis	No Funisitis	Triosephosphate isomerase OS=Homo sapiens GN=TPI1 PE=1 SV=3	44399.45	29297.8	38910.05	42720.82	24629.11	42128.91	42070.34
136	10	9	72.8725	0.612231812	1.08646386	1;2	2	No Funisitis	Control	Ferritin light chain OS=Homo sapiens GN=FTL PE=1 SV=2	112613.1	95612.16	127030.3	119459.4	123369.4	116929.2	122250.5
137	19	18	140.8629	0.612575517	1.100672876	1;2	2	No Funisitis	Control	Isoform H7 of Myeloperoxidase OS=Homo sapiens GN=MPO	186892	160258	184240.8	220249.6	169675.3	203728	185405.7
138	8	8	56.8526	0.617413061	1.209123949	1	1	No Funisitis	Control	Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3	128213.7	155167	96936.69	167593.4	138973.8	164201.6	117134.6
139	2	2	9.9633	0.620434737	1.067537673	1	1	No Funisitis	Control	Heterogeneous nuclear ribonucleoprotein K (Fragment) OS=Homo sapiens GN=HNRNPK PE=1 SV=1	30128.63	30334.12	35895.49	35095.45	33481.92	33033.7	32700.22
140	5	1	36.8712	0.623107467	1.558280067	1	1	No Funisitis	Control	Keratin, type II cytoskeletal 5 OS=Homo sapiens GN=KRT5 PE=1 SV=3	22684.09	54111.54	10220.01	56769.23	33627.26	41635.86	19831.07
141	4	3	32.5354	0.623603789	1.194538263	1;2	2	Funisitis	Control	40S ribosomal protein S7 OS=Homo sapiens GN=RPS7 PE=1 SV=1	10255.71	7058.723	11398.99	11659.12	8420.049	11414.56	11451.63

142	19	4	151.6967	0.633214391	1.118532033	1;2	2	Funisitis	Control	Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1 SV=1	159800.9	128791.9	110930	144874.3	133611.6	146564.9	151354.5
143	4	2	17.1145	0.637841444	1.445543467	1	1	No Funisitis	Control	Kalirin OS=Homo sapiens GN=KALRN PE=1 SV=1	8576.902	17456.57	5078.64	18914.42	11068.19	13882.56	8885.318
144	2	1	10.6804	0.638263715	1.082895719	1	1	No Funisitis	Funisitis	S-adenosyl-L-methionine-dependent tRNA 4-demethylwyosine synthase OS=Homo sapiens GN=TYW1 PE=1 SV=1	26534.18	32233.89	26516.66	29558.14	27373.28	27709.43	24863.89
145	11	1	39.2311	0.639815825	1.189017701	1;2	2	No Funisitis	Funisitis	Histone H2A OS=Homo sapiens GN=H2AFV PE=3 SV=1	7444.068	8457.307	7141.152	10837.36	7414.342	9040.874	6309.363
146	2	1	9.5239	0.639957745	1.167335462	1	1	No Funisitis	Control	Putative heat shock protein HSP 90-beta-3 OS=Homo sapiens GN=HSP90AB3P PE=5 SV=1	40171.98	42022.62	25828.8	43943.96	40122.4	38423.08	35853.6
147	2	1	11.8034	0.645422533	1.298147923	2	1	Funisitis	Control	40S ribosomal protein S20 OS=Homo sapiens GN=RPS20 PE=1 SV=1	27190.87	22079.15	9804.774	19063.2	28378.41	24278.4	26846.81
148	31	27	146.6354	0.647336352	1.117837611	1;2	2	No Funisitis	Funisitis	Histone H4 OS=Homo sapiens GN=HIST1H4A PE=1 SV=2	1335038	1351279	943151.6	1365211	1338472	1186287	1232385
149	1	1	4.018	0.654378603	1.335969211	2	1	Funisitis	Control	Amyloid-like protein 1 (Fragment) OS=Homo sapiens GN=APLP1 PE=1 SV=1	5296.368	4600.201	6087.362	8146.159	5538.975	9666.184	4569.842
150	1	1	6.2198	0.656141291	1.18379166	1	1	No Funisitis	Control	DNA repair protein RAD50 OS=Homo sapiens GN=RAD50 PE=1 SV=1	92401.14	107885.5	89413.88	135381.3	93248.76	118546.8	91164.49
151	9	9	57.5232	0.658745912	1.070733277	1;2	2	No Funisitis	Control	Isoform 2 of Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH	271603.9	275623.7	224293.5	283277.3	267451.6	264960	269866.8
152	1	1	5.0658	0.659262944	1.229466395	1	1	No Funisitis	Funisitis	Complex I assembly factor TMEM126B, mitochondrial (Fragment) OS=Homo sapiens GN=TMEM126B PE=1 SV=4	17198.45	22196.38	13537.09	23975.86	17486.77	19280.64	14443.45
153	8	5	48.6172	0.660690014	1.104323667	1	1	Funisitis	Control	Filamin-A OS=Homo sapiens GN=FLNA PE=1 SV=1	27111.92	23093.02	18254.69	24667.19	24900.46	24422.94	25978.12
154	76	5	374.1434	0.666305589	1.108822319	1;2	2	No Funisitis	Funisitis	Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1	586217.7	650372.1	489997.6	706298.7	568637.3	580478.4	569332.5
155	26	20	247.2305	0.669766486	1.287143507	1;2	2	Funisitis	Control	Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6	261026	346458.7	166455.5	377556.7	265246.8	423028.4	241086.2
156	43	38	312.6718	0.67032289	1.124683407	1;2	2	Control	Funisitis	Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2	347424.2	315548.5	327243.9	280740.5	357697	242570.3	344389.8
157	55	45	392.0561	0.676529994	1.113215601	1	1	No Funisitis	Funisitis	Collagen alpha-3(VI) chain OS=Homo sapiens GN=COL6A3 PE=1 SV=5	139379.9	170427.4	128216	177588.9	145394.3	154340.4	135794.9
158	2	2	12.191	0.677197951	1.088198425	2	1	No Funisitis	Control	Isoform 2 of Protein SOGA1 OS=Homo sapiens GN=SOGA1	238615.7	189214.4	235964.8	257514.7	224045.7	230332.4	231305.1
159	1	1	4.2044	0.678817602	1.13480143	1	1	Funisitis	No Funisitis	Glial fibrillary acidic protein (Fragment) OS=Homo sapiens GN=GFAP PE=1 SV=1	43779.13	50257.45	49518.74	50053.34	38356.87	56554.03	43774.01

160	2	2	9.6418	0.680237397	1.155528234	2	1	Funisitis	No Funisitis	Splicing regulatory glutamine/lysine-rich protein 1 OS=Homo sapiens GN=SREK1 PE=1 SV=1	33435.85	23829.46	30529.97	24786.71	28746.19	27631.02	34227.75
161	4	3	20.8974	0.684636554	1.14201905	2	1	No Funisitis	Control	Ubiquitin-conjugating enzyme E2 variant 1 OS=Homo sapiens GN=UBE2V1 PE=1 SV=2	78981.9	72227.79	51646.8	72072.8	82371.18	63171.98	75915.56
162	2	2	10.5754	0.685220185	1.464494547	1	1	Control	No Funisitis	A-kinase anchor protein 6 OS=Homo sapiens GN=AKAP6 PE=1 SV=3	1941.419	1597.176	3721.46	1251.808	2053.112	1496	2662.442
163	6	5	31.7072	0.685301865	1.139905556	1	1	No Funisitis	Funisitis	Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=1	46712.54	36936.75	51265.66	44088.02	48293.92	34495.66	46547.85
164	7	1	67.4307	0.688994937	1.160962732	1;2	2	Funisitis	No Funisitis	Heat shock cognate 71 kDa protein (Fragment) OS=Homo sapiens GN=HSPA8 PE=1 SV=1	146560.7	104942.2	135875.1	112677.1	114946.1	111548.7	152713.4
165	2	1	11.1772	0.689418556	1.538875414	2	1	No Funisitis	Funisitis	60S acidic ribosomal protein P1 OS=Homo sapiens GN=RPLP1 PE=1 SV=1	2919.537	762.5833	5160.433	4199.518	3756.048	2567.383	2602.344
166	6	3	40.3002	0.690084163	1.127856466	1	1	No Funisitis	Funisitis	Alpha-internexin OS=Homo sapiens GN=INA PE=1 SV=2	18027.71	23334.67	18980.34	23240.18	18970.98	20109.92	17316.08
167	1	1	5.927	0.690198374	1.369353876	2	1	No Funisitis	Funisitis	Proteasome subunit beta type-2 OS=Homo sapiens GN=PSMB2 PE=1 SV=1	64.5164	48.03742	1297.29	624.4272	470.3366	711.0676	88.40709
168	11	9	84.4185	0.693889616	1.106159738	1;2	2	Control	Funisitis	Profilin-1 OS=Homo sapiens GN=PFN1 PE=1 SV=2	249794.4	209489.3	223796.7	193943.5	235916.9	178464.7	233218.2
169	8	1	39.1948	0.697355099	1.348826769	1	1	No Funisitis	Control	Keratin, type I cytoskeletal 16 OS=Homo sapiens GN=KRT16 PE=1 SV=4	12014.87	21010.27	9107.865	23290.42	14596.33	22655	11396.27
170	11	8	90.1971	0.700484198	1.154572128	1;2	2	Control	Funisitis	Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=1	132001	139595.7	95180.4	108115	115744	92454.87	119327.6
171	1	1	4.5307	0.701409277	1.306615884	1	1	Control	No Funisitis	Uncharacterized protein C15orf52 (Fragment) OS=Homo sapiens GN=C15orf52 PE=1 SV=1	36741.91	26127.78	54187.41	28491.34	31234	26263.76	38670.21
172	3	3	13.738	0.701498877	1.137090526	1	1	No Funisitis	Control	Heterogeneous nuclear ribonucleoprotein D0 (Fragment) OS=Homo sapiens GN=HNRNPD PE=1 SV=4	16936.81	20847.28	14678.18	22615.62	17153.94	18980.69	16443.56
173	2	1	11.9401	0.704815967	1.16193147	2	1	No Funisitis	Control	60S ribosomal protein L27a OS=Homo sapiens GN=RPL27A PE=1 SV=1	100146.9	106598	64299.97	95919.77	114037.2	84592.84	101880.8
174	16	12	92.9098	0.712963955	1.129645104	1	1	No Funisitis	Control	ATP synthase subunit beta, mitochondrial OS=Homo sapiens GN=ATP5B PE=1 SV=3	152964.1	181633.9	123759.7	188858.6	156329.1	173267.8	142991.3
175	3	1	24.6884	0.71517349	1.073517909	1	1	No Funisitis	Control	Keratin, type II cytoskeletal 5 (Fragment) OS=Homo sapiens GN=KRT5 PE=1 SV=1	55521.18	61144.73	52424.33	66113.41	54900.86	62651.37	56013.41
176	8	1	38.5641	0.719810737	1.391338758	1	1	No Funisitis	Control	Keratin, type I cytoskeletal 14 OS=Homo sapiens GN=KRT14 PE=1 SV=4	1114.819	1859.415	849.6331	2268.197	1278.666	2473.275	983.6713
177	3	1	15.0885	0.720689881	1.088808416	1	1	No Funisitis	Funisitis	Tubulin beta-2B chain OS=Homo sapiens GN=TUBB2B PE=1 SV=1	13678.3	13780.88	16376.57	16706.99	13939.97	14198.87	13948.38

178	3	2	21.7666	0.72176915	1.184476615	1	1	No Funisitis	Control	Monocyte differentiation antigen CD14 (Fragment) OS=Homo sapiens GN=CD14 PE=1 SV=1	12712.55	8295.269	18249.22	17108.34	13891.02	14373.59	14160.4
179	5	4	36.9265	0.721964872	1.064296263	1	1	Funisitis	No Funisitis	60 kDa heat shock protein, mitochondrial OS=Homo sapiens GN=HSPD1 PE=1 SV=2	30288.34	35214.61	32370.66	33256.04	29505.28	34960.69	31835.95
180	3	2	13.302	0.722886135	1.118971187	2	1	No Funisitis	Control	Unconventional myosin-XIX OS=Homo sapiens GN=MYO19 PE=2 SV=2	65411.13	66924.43	45738.93	61572.85	71267.3	55036.43	64315.17
181	17	14	153.8849	0.72308044	1.304369277	1;2	2	No Funisitis	Control	Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	139701.7	218165.6	110987.8	247896.4	159810.3	243917.1	125179.4
182	2	1	12.0438	0.726222099	1.415022411	1	1	Control	No Funisitis	Thymidine phosphorylase OS=Homo sapiens GN=TYMP PE=1 SV=2	14253.07	7502.171	19063.81	10705.23	8526.058	9459.031	13911.99
183	2	2	7.5706	0.728959845	1.06768378	1	1	Funisitis	Control	Probable RNA-binding protein 19 OS=Homo sapiens GN=RBM19 PE=1 SV=3	51926.95	43204.07	40243.86	47360.85	46096.95	46828.25	49530.13
184	8	1	84.0702	0.73396675	1.498067847	1	1	Control	No Funisitis	Desmin OS=Homo sapiens GN=DES PE=1 SV=3	1205.834	508.7933	1129.597	445.4151	820.3149	514.3505	1364.152
185	5	2	23.2452	0.738909191	1.103790529	2	1	Control	No Funisitis	Ankyrin repeat domain-containing protein 36A OS=Homo sapiens GN=ANKRD36 PE=2 SV=3	30687.38	26632.82	29696.97	22253.74	30302.84	22529.45	30888.58
186	11	7	65.3602	0.740712537	1.289054105	1;2	2	Funisitis	No Funisitis	Pantothenate kinase 2, mitochondrial OS=Homo sapiens GN=PANK2 PE=1 SV=3	437817.4	462755.3	213636.3	303804.5	311322.2	362063.3	430868.2
187	1	1	4.6669	0.743160351	1.095939429	2	1	Funisitis	Control	N-chimaerin (Fragment) OS=Homo sapiens GN=CHN1 PE=1 SV=1	1295.056	3067.085	106.532	1460.239	1764.875	1937.605	1327.325
188	5	1	53.7825	0.74677628	1.045956923	1	1	Control	Funisitis	Keratin, type II cytoskeletal 8 OS=Homo sapiens GN=KRT8 PE=1 SV=7	27740.09	27994.54	24494.7	27095.9	25257.13	26074.84	25061.32
189	16	11	96.3814	0.750216144	1.099021901	1;2	2	No Funisitis	Funisitis	78 kDa glucose-regulated protein OS=Homo sapiens GN=HSPA5 PE=1 SV=2	102535.6	131571.3	117529.2	130605	110738.3	119919.6	99678.59
190	1	1	4.7276	0.755278185	1.224585208	2	1	Control	Funisitis	Rho GDP-dissociation inhibitor 3 OS=Homo sapiens GN=ARHGDIG PE=2 SV=2	43055.85	24345.59	32144.38	25446.63	33450.92	18287.44	35905.51
191	3	3	19.8974	0.755906786	1.126462036	2	1	No Funisitis	Control	40S ribosomal protein S19 OS=Homo sapiens GN=RPS19 PE=1 SV=1	23594.24	22663.1	14657.65	21649.37	24096.25	19037.46	22411.47
192	1	1	5.5253	0.757308024	1.127175057	2	1	No Funisitis	Funisitis	Arginine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=RARS PE=1 SV=1	35389.71	31480.51	31036.49	29830.76	38672.05	24543.59	36230.29
193	14	1	58.2653	0.758273963	1.147993832	1;2	2	Funisitis	Control	Hemoglobin subunit epsilon OS=Homo sapiens GN=HBE1 PE=1 SV=2	3593.189	4511.461	2495.933	3847.988	3730.2	4592.158	3520.777
194	13	8	106.3763	0.759465788	1.083241317	1	1	Control	No Funisitis	Protein disulfide-isomerase A3 OS=Homo sapiens GN=PDIA3 PE=1 SV=4	136651.5	99027.2	109984.4	105840.1	106893.7	104443	109247
195	56	39	238.7676	0.765894077	1.049126616	1;2	2	No Funisitis	Control	Nesprin-1 OS=Homo sapiens GN=SYNE1 PE=4 SV=1	239157	224138.4	199425.5	229614.8	233904	215115.2	237044.5
196	5	4	28.7348	0.768304779	1.069931208	1	1	No Funisitis	Control	Stress-70 protein, mitochondrial OS=Homo	19140.16	21767.57	16664.64	21877.97	19187.69	19468.32	19421.47

										sapiens GN=HSPA9 PE=1 SV=2							
197	17	14	74.6132	0.774589035	1.19518	2	1	Control	No Funisitis	Dystonin OS=Homo sapiens GN=DST PE=1 SV=4	426050.4	288575	295826.5	229325.4	334300.7	231185.4	384577.2
198	1	1	3.7103	0.776673673	1.452057947	2	1	Control	No Funisitis	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform OS=Homo sapiens GN=PPP2R2A PE=1 SV=1	1366225	2423043	766373.5	681156	1410423	753978.9	1464482
199	2	2	9.66	0.776899966	1.092209003	1	1	No Funisitis	Control	Isoform 2 of Trifunctional enzyme subunit beta, mitochondrial OS=Homo sapiens GN=HADHB	15621.34	16359.27	13994.61	18702.51	14773.86	17361.91	13922.96
200	13	3	93.8407	0.77715165	1.048288097	1;2	2	Funisitis	No Funisitis	Heat shock 70 kDa protein 1-like OS=Homo sapiens GN=HSPA1L PE=1 SV=2	25190.63	22701.02	20731.54	22270.77	23042.16	24179.52	23321.49
201	12	4	80.1131	0.779233963	1.125859392	1;2	2	No Funisitis	Funisitis	Peroxiredoxin-1 OS=Homo sapiens GN=PRDX1 PE=1 SV=1	52946.15	67623.51	47413.75	71108.22	54144.73	63685.98	47565
202	1	1	6.6434	0.783607062	1.091730628	2	1	Control	No Funisitis	Isoform 2 of Ras-related protein Rab-1A OS=Homo sapiens GN=RAB1A	49900.49	40851.93	48541.58	47752	37308.06	39955.09	49641.62
203	6	1	40.3749	0.784803123	1.094620237	1	1	No Funisitis	Control	Neurofilament medium polypeptide OS=Homo sapiens GN=NEFM PE=1 SV=3	10305.63	12307.09	8798.041	12630.56	10291.34	11357.91	9787.787
204	1	1	6.678	0.785649852	1.131047496	1	1	No Funisitis	Funisitis	Myosin regulatory light chain 2, skeletal muscle isoform (Fragment) OS=Homo sapiens GN=MYLPF PE=1 SV=1	245862.3	289030.7	164575.4	243923.9	273252.8	237755.6	219499
205	2	2	10.7533	0.786605354	1.620371415	1	1	Control	No Funisitis	Transforming growth factor-beta-induced protein ig-h3 OS=Homo sapiens GN=TGFBI PE=1 SV=1	6255.032	2599.748	8183.742	2858.862	4151.268	2405.378	7657.635
206	2	2	11.0905	0.787408237	1.173720431	1	1	Funisitis	No Funisitis	3-ketoacyl-CoA thiolase, peroxisomal OS=Homo sapiens GN=ACAA1 PE=1 SV=2	11021.7	14093.39	13221.67	13291.56	10940.95	17416.98	11025.22
207	2	2	9.0905	0.789899519	1.163186615	2	1	Control	Funisitis	Alpha-(1,3)-fucosyltransferase 6 OS=Homo sapiens GN=FUT6 PE=1 SV=1	17617.63	14647.86	10786.13	12222.87	15212.98	9777.672	14896.86
208	13	10	83.9575	0.794536242	1.219633422	1	1	Control	Funisitis	Catalase OS=Homo sapiens GN=CAT PE=1 SV=3	68654.36	36587.56	71951.25	42932.53	54411.86	39565.57	57290.4
209	6	6	42.3268	0.796598327	1.069636794	1	1	No Funisitis	Control	Transitional endoplasmic reticulum ATPase OS=Homo sapiens GN=VCP PE=1 SV=4	36177.36	31381.63	39927.81	42307.23	34340.65	38363.22	36771.87
210	3	1	18.4291	0.800730784	1.169938052	1;2	2	No Funisitis	Control	Peroxiredoxin-4 OS=Homo sapiens GN=PRDX4 PE=1 SV=1	6805.63	9615.678	5061.167	7217.765	9537.677	9853.683	6116.539
211	2	2	10.0953	0.801743177	1.222432767	2	1	Control	No Funisitis	Cleavage and polyadenylation specificity factor subunit 1 OS=Homo sapiens GN=CPSF1 PE=1 SV=2	138476.3	96323.15	94068.07	64910.42	114441	68783.74	141863.4
212	9	8	57.2261	0.802617249	1.063473375	1	1	Control	Funisitis	Plastin-2 OS=Homo sapiens GN=LCP1 PE=1 SV=6	88520.42	80552.6	103331.8	88994.85	86276.31	82834.86	87929.37
213	8	2	39.3735	0.806910634	1.041725756	1;2	2	No Funisitis	Control	Keratin, type I cytoskeletal 19 OS=Homo sapiens	15758.74	16251.54	16583.11	18240.52	15506.8	17539.59	15957.22

										GN=KRT19 PE=1 SV=4							
214	41	38	334.487	0.810142744	1.266498758	1;2	2	Control	Funisitis	Enolase 1 OS=Saccharomyces cerevisiae (strain ATCC 204508 / S288c) GN=ENO1 PE=1 SV=3	670650.6	1061380	448783	620906.4	747655.6	538014.2	609934.6
215	1	1	4.9163	0.810528369	1.266007696	2	1	Control	No Funisitis	Inactive ubiquitin thioesterase FAM105A OS=Homo sapiens GN=FAM105A PE=2 SV=1	83372.44	55316.29	99171.34	44569.16	80685.51	46559.18	104221.7
216	3	1	22.1509	0.811455419	1.151117985	1	1	Funisitis	No Funisitis	Rab GDP dissociation inhibitor beta (Fragment) OS=Homo sapiens GN=GDI2 PE=1 SV=1	11071.19	7252.581	12922.02	10077.2	8459.316	10921.97	10415.75
217	3	3	34.813	0.811970055	1.093671347	1;2	2	Control	No Funisitis	Protein S100-A8 OS=Homo sapiens GN=S100A8 PE=1 SV=1	216670.4	163547.8	206859.2	169845	188018.4	158530.9	209104.5
218	2	1	15.53	0.814731996	1.194362403	2	1	No Funisitis	Funisitis	5'-AMP-activated protein kinase subunit gamma-2 OS=Homo sapiens GN=PRKAG2 PE=1 SV=1	46437.22	46117.25	30153.87	34175.25	52680.89	28676.69	44045.07
219	9	6	33.6165	0.81735264	1.104328984	1	1	Control	No Funisitis	Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5 OS=Homo sapiens GN=MACF1 PE=1 SV=1	53606.81	50855.42	73307.31	55713.27	51603.5	59252.36	54280.01
220	8	4	63.3134	0.818452882	1.153183003	1;2	2	No Funisitis	Control	Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2 PE=1 SV=2	37461.66	57701.26	25756.92	51946.65	41015.16	48179	32572.55
221	3	2	21.0185	0.818506251	1.298121555	1	1	Funisitis	No Funisitis	Isoform 1 of Vinculin OS=Homo sapiens GN=VCL	6069.476	2790.784	8987.941	4474.15	5508.051	6339.957	6618.153
222	13	6	108.0225	0.81923371	1.147219823	1;2	2	Control	Funisitis	14-3-3 protein epsilon OS=Homo sapiens GN=YWHAE PE=1 SV=1	374829	309520.9	342924.6	229267	416641.9	213684.1	383280.5
223	5	2	30.0147	0.820178232	1.058709604	1;2	2	Funisitis	Control	Keratin, type I cytoskeletal 18 OS=Homo sapiens GN=KRT18 PE=1 SV=2	61490.62	63597.01	63866.69	71378.16	61384.69	74641.8	58723.37
224	3	2	20.0487	0.823814613	1.078095018	2	1	No Funisitis	Control	Arf-GAP with coiled-coil, ANK repeat and PH domain-containing protein 2 OS=Homo sapiens GN=ACAP2 PE=1 SV=1	88025.74	71817.99	60342.16	85113.51	73140.69	71570.45	76873.1
225	4	3	20.0716	0.831178649	1.065945617	1	1	Funisitis	Control	Transketolase OS=Homo sapiens GN=TKT PE=1 SV=3	16907.3	15959.65	22675.56	20631.67	18518.86	21149.99	18320.21
226	3	2	11.7588	0.839335418	1.263292342	2	1	No Funisitis	Control	Unconventional myosin-IXb (Fragment) OS=Homo sapiens GN=MYO9B PE=1 SV=4	121182.1	368408.4	88752.35	338753.5	148323.9	269117.7	141523.6
227	4	3	21.6945	0.841295595	1.080821693	1	1	No Funisitis	Funisitis	Adenomatous polyposis coli protein OS=Homo sapiens GN=APC PE=1 SV=2	17244.58	18445.76	22107.83	17471.26	21104.17	14130.47	21560.37
228	1	1	4.7783	0.845520537	1.162853214	1	1	Control	Funisitis	Isoform 2 of Keratin, type II cytoskeletal 72 OS=Homo sapiens GN=KRT72	23092.99	42832.54	27201.6	27821.48	27269.09	28027.69	25362.33
229	2	2	7.1065	0.852889351	1.110249904	2	1	No Funisitis	Control	Smoothelin OS=Homo sapiens GN=SMTN PE=1 SV=7	86803.94	86978.26	49286.17	73491.45	91616.3	67218.17	82104.39

230	3	3	18.1884	0.853313384	1.06113532	1	1	Control	Funisitis	Cytosolic non-specific dipeptidase OS=Homo sapiens GN=CNDP2 PE=1 SV=2	30433.19	29626.32	37234.92	30468.3	33382.44	27846.87	33279.13
231	3	2	17.6022	0.854300955	1.069319512	2	1	Control	Funisitis	BTB/POZ domain-containing protein KCTD12 OS=Homo sapiens GN=KCTD12 PE=1 SV=1	26154.93	27911.99	24004.97	29445.65	21298.59	24609.44	24064.44
232	5	5	35.845	0.861269794	1.078980179	2	1	Funisitis	No Funisitis	Myosin light polypeptide 6 OS=Homo sapiens GN=MYL6 PE=1 SV=1	110217.5	80761.47	108619.5	95816.27	91780.09	93231.98	109180.8
233	8	4	60.1428	0.863455678	1.051497255	1	1	No Funisitis	Control	Isoform 3 of Protein disulfide-isomerase A6 OS=Homo sapiens GN=PDIA6	45366.66	47618.74	49278.26	54938.99	44787.58	52525.32	45356.99
234	1	1	3.8743	0.864730684	1.416013104	1	1	Control	No Funisitis	E3 ubiquitin-protein ligase TRIM13 OS=Homo sapiens GN=TRIM13 PE=1 SV=2	3460.339	1473.875	5373.805	2895.386	1957.686	2244.363	4227.104
235	5	1	41.4126	0.866109564	1.069148701	1;2	2	No Funisitis	Funisitis	Isoform 2 of Beta-enolase OS=Homo sapiens GN=ENO3	138350.8	138287.8	98592.46	127793.2	135250.7	121037.3	124993.9
236	7	1	45.5785	0.876908478	1.044976527	1	1	No Funisitis	Funisitis	Isoform 2 of Heat shock protein HSP 90-alpha OS=Homo sapiens GN=HSP90AA1	28614.89	26033.65	31096.57	31271.34	27382.67	29055.96	27073.54
237	2	1	9.4007	0.880009277	1.13601636	1	1	Funisitis	Control	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta OS=Homo sapiens GN=PIK3C2B PE=1 SV=1	10519.16	19804.16	9829.908	16263.27	12293.67	18871.23	11538.59
238	15	14	52.4613	0.881481795	1.404644094	1;2	2	Control	No Funisitis	Trypsin OS=Sus scrofa PE=1 SV=1	1738299	2626009	760673	1260190	1172208	1116800	1884831
239	5	3	27.2582	0.883548263	1.11564912	2	1	Control	Funisitis	Isoform 3 of Coiled-coil domain-containing protein 91 OS=Homo sapiens GN=CCDC91	84276.82	85446.99	56923.01	60462.05	84110.11	65116.49	70318.45
240	15	5	109.0178	0.886126529	1.079959881	1;2	2	No Funisitis	Funisitis	Heat shock-related 70 kDa protein 2 OS=Homo sapiens GN=HSPA2 PE=1 SV=1	22812.65	19115.08	29466.43	24661.48	24637.9	21195.81	24453.45
241	34	31	241.7267	0.888130839	1.056122443	1;2	2	No Funisitis	Funisitis	Isoform 17 of Fibronectin OS=Homo sapiens GN=FN1	253362.9	230501.5	167052.2	228885.6	229395.1	206076.6	227851
242	2	2	10.9013	0.888682937	1.194311962	1	1	Funisitis	No Funisitis	Calreticulin OS=Homo sapiens GN=CALR PE=1 SV=1	484504.5	354799.6	334084.1	253721.5	452760.2	280833	562926.5
243	5	1	36.5451	0.889478761	1.09073616	1	1	No Funisitis	Funisitis	Protein disulfide-isomerase A3 (Fragment) OS=Homo sapiens GN=PDIA3 PE=1 SV=1	16016.57	21292.45	13004.32	19367.04	16186.74	17600.9	14995.24
244	59	9	331.4744	0.89172766	1.052685733	1;2	2	No Funisitis	Control	Actin, alpha cardiac muscle 1 OS=Homo sapiens GN=ACTC1 PE=1 SV=1	656979.5	718739.8	571685	759541.1	607128.7	664983.8	665048.2
245	4	1	13.3881	0.896283399	1.16153988	1;2	2	Funisitis	Control	Histone H1.1 OS=Homo sapiens GN=HIST1H1A PE=1 SV=3	481.7546	1040.174	424.3304	1003.327	434.2404	922.2158	584.8892
246	16	15	120.6893	0.896473116	1.127913905	1;2	2	No Funisitis	Funisitis	Chorionic somatomammotropin hormone 1 OS=Homo sapiens GN=CSH1 PE=1 SV=1	301461.7	472611.4	228530.6	346673.4	344727.3	319135.7	293855
247	3	2	17.3372	0.896497656	1.13547704	2	1	No Funisitis	Funisitis	Thioredoxin OS=Homo sapiens GN=TXN PE=1	117841.4	112570	67391.35	88402.42	125650.2	86695.92	101817.5

										SV=3							
248	20	20	60.1271	0.901778735	1.049500018	1;2	2	Funisitis	No Funisitis	Histone H3 (Fragment) OS=Homo sapiens GN=H3F3B PE=1 SV=1	515402.7	485910.2	664321.2	549991.6	543999	573488.5	574654.6
249	10	3	61.8127	0.904657595	1.072307765	1	1	No Funisitis	Funisitis	Heat shock protein HSP 90-beta OS=Homo sapiens GN=HSP90AB1 PE=1 SV=4	100531.4	71577.95	89004.82	105506.8	79646.38	91309.17	81358.82
250	2	2	12.1923	0.907146999	1.15648573	1	1	Funisitis	No Funisitis	Serine/threonine-protein phosphatase (Fragment) OS=Homo sapiens GN=PPP1CA PE=1 SV=1	10781.14	5015.453	11033.55	7167.002	8834.792	8413.322	10092.52
251	1	1	5.3764	0.911023703	1.094525032	2	1	Control	No Funisitis	Ataxin-2 (Fragment) OS=Homo sapiens GN=ATXN2 PE=1 SV=3	87909.84	66380.07	59887.97	41395.06	89059.02	49345.18	90460.3
252	1	1	5.8624	0.911478821	1.108248672	1	1	Funisitis	No Funisitis	F-actin-capping protein subunit alpha-1 OS=Homo sapiens GN=CAPZA1 PE=1 SV=3	13212.55	8886.227	17085.44	11534.54	12637.48	12796.15	13992.47
253	8	6	59.5677	0.913676367	1.065096691	1;2	2	Control	Funisitis	Isoform 3 of L-lactate dehydrogenase A chain OS=Homo sapiens GN=LDHA	45060.24	41610.67	57859.07	52439.63	38916.87	47737.26	42727.13
254	11	4	96.2579	0.915913885	1.326217554	1;2	2	Control	Funisitis	14-3-3 protein gamma OS=Homo sapiens GN=YWHAG PE=1 SV=2	35785.03	94936.54	28513.61	46148.12	49147.64	45053.6	34991.17
255	2	1	11.9577	0.91680663	1.10765191	1	1	No Funisitis	Funisitis	Cohesin subunit SA-2 OS=Homo sapiens GN=STAG2 PE=1 SV=3	7729.472	18560.47	20459.17	18555.35	14937.72	16647.88	13590.02
256	6	6	47.9452	0.918403247	1.066026306	1;2	2	Control	No Funisitis	Cathepsin G OS=Homo sapiens GN=CTSG PE=1 SV=2	111383.2	81972.73	116665.1	95432.49	98447.03	93992.67	110540.7
257	5	4	32.6713	0.919546505	1.044761079	1	1	Funisitis	Control	Cathepsin D OS=Homo sapiens GN=CTSD PE=1 SV=1	49489.33	42752.95	66967.11	55597.44	53135.7	58451.14	52439.38
258	7	2	63.1633	0.920031274	1.086425598	1	1	Control	No Funisitis	Peripherin OS=Homo sapiens GN=PRPH PE=1 SV=2	19392.56	12784.86	18674.91	14706.21	16498.46	14718.62	17709.42
259	22	2	105.1757	0.921478128	1.038992526	1;2	2	No Funisitis	Control	Histone H2B type 1-K OS=Homo sapiens GN=HIST1H2BK PE=1 SV=3	457494.1	477639.7	337908.7	460849.5	420938.3	442590.3	426216.9
260	5	5	44.3923	0.921956768	1.044485846	1	1	No Funisitis	Control	Elongation factor 1-alpha 1 OS=Homo sapiens GN=EEF1A1 PE=1 SV=1	42709.18	52755.7	51647.76	56937.39	45500.66	51957.09	48506.34
261	2	2	8.8928	0.922363519	1.042718764	1	1	No Funisitis	Control	RAC-beta serine/threonine-protein kinase OS=Homo sapiens GN=AKT2 PE=1 SV=2	87141.93	88072.32	60817.63	84090.86	79985.71	79937.28	78732.63
262	4	1	14.487	0.927205861	1.123888714	2	1	Funisitis	No Funisitis	mRNA turnover protein 4 homolog OS=Homo sapiens GN=MRTO4 PE=1 SV=2	78260.57	56932.66	52645.76	45903	66531.05	42775.71	83587.65
263	1	1	4.4387	0.928684533	1.152628329	1	1	No Funisitis	Funisitis	Endothelin-1 receptor OS=Homo sapiens GN=EDNRA PE=1 SV=1	18643.28	36873.05	7446.817	25803.78	17471.69	20719.35	16825.69
264	3	2	15.5754	0.931850028	1.192771248	2	1	Funisitis	No Funisitis	Azurocidin OS=Homo sapiens GN=AZU1 PE=1 SV=3	18080.73	9876.937	11108.76	9470.994	15490.04	9639.942	20132.86
265	10	9	39.6439	0.93571854	1.042096093	2	1	Control	No Funisitis	Ankyrin-3 OS=Homo sapiens GN=ANK3 PE=1 SV=3	142428.5	121287.3	112890.8	112346	128582.9	112191.2	134237.5

266	3	1	14.8845	0.937680583	1.037016609	1	1	Funisitis	Control	Isoform Pax3G of Paired box protein Pax-3 OS=Homo sapiens GN=PAX3	475279.8	379226.4	327218.1	374169.3	416877.5	387738.8	429239.7
267	48	31	201.2852	0.938189594	1.068892493	1	1	No Funisitis	Funisitis	Isoform 12 of Titin OS=Homo sapiens GN=TTN	357616.8	523401.2	232639.5	414124.2	364561.6	413378.1	315119.6
268	3	3	17.8785	0.940489912	1.059082719	2	1	Control	Funisitis	Actin-related protein 2/3 complex subunit 4 OS=Homo sapiens GN=ARPC4 PE=1 SV=1	37588.54	31535.28	27061.68	25832.75	35883.34	25776.32	34770.1
269	6	4	64.2009	0.959343661	1.028695378	1;2	2	No Funisitis	Control	Ig kappa chain C region OS=Homo sapiens GN=IGKC PE=1 SV=1	116698	99569.73	108718.1	105058.7	117815.6	96481.14	122902.5
270	3	2	16.3346	0.960126127	1.02215502	1	1	No Funisitis	Control	Rab GDP dissociation inhibitor alpha OS=Homo sapiens GN=GDI1 PE=1 SV=2	61668.91	53586.16	69347.58	66455	59340.02	60958.86	62244.8
271	1	1	11.5806	0.961953119	1.025822781	2	1	Funisitis	No Funisitis	10 kDa heat shock protein, mitochondrial OS=Homo sapiens GN=HSPE1 PE=1 SV=2	38990.15	50746.04	42634.98	43948.58	42154.18	44046.08	44280.09
272	35	24	348.8489	0.967029613	1.039727338	1;2	2	No Funisitis	Funisitis	Vimentin OS=Homo sapiens GN=VIM PE=1 SV=4	614101.8	887437.8	368326.2	661044.8	603473.7	556190.9	660011
273	1	1	3.564	0.976087701	1.0333781	1	1	Control	Funisitis	Hemicentin-2 OS=Homo sapiens GN=HMCN2 PE=1 SV=1	61192.51	46504.94	73807.61	58711.94	61502.07	47249.82	69845.15
274	6	5	35.1493	0.979772647	1.086176409	1	1	Control	No Funisitis	Phosphoglycerate kinase 1 OS=Homo sapiens GN=PGK1 PE=1 SV=3	42049.04	29608.5	57813.07	39746.1	39719.57	36069.58	45640.49
275	5	3	27.0607	0.984407632	1.044644964	1	1	Control	Funisitis	Histone H1.3 OS=Homo sapiens GN=HIST1H1D PE=1 SV=2	28904.95	57006.25	25572.26	41056.54	32768.61	41902.67	29243.33
276	2	2	13.7943	0.984642404	1.026230904	2	1	Control	Funisitis	Isoform USP25b of Ubiquitin carboxyl-terminal hydrolase 25 OS=Homo sapiens GN=USP25	17154.05	12661.45	15774.1	13977.47	15893.11	13625.69	15990.52
277	11	10	79.4372	0.992585304	1.013270244	1	1	Control	Funisitis	Lactotransferrin OS=Homo sapiens GN=LTF PE=1 SV=6	133830.3	113489.4	144800.8	137704.5	120315.8	129854.7	128135.3
278	1	0	5.0276		1	2	1	---	---	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12 OS=Homo sapiens GN=NDUFA12 PE=1 SV=1							
279	2	0	14.3206		1	1	1	---	---	Probable ATP-dependent RNA helicase YTHDC2 OS=Homo sapiens GN=YTHDC2 PE=1 SV=2							
280	38	0	203.4723		1	1;2	2	---	---	POTE ankyrin domain family member E OS=Homo sapiens GN=POTEE PE=1 SV=3							
281	1	0	9.9018		1	1	1	---	---	Core-binding factor subunit beta OS=Homo sapiens GN=CBFB PE=1 SV=2							
282	2	0	18.1838		1	1	1	---	---	Keratin, type II cytoskeletal 75 OS=Homo sapiens GN=KRT75 PE=1 SV=2							
283	37	0	181.1994		1	1;2	2	---	---	POTE ankyrin domain family member F OS=Homo sapiens							

										GN=POTEF PE=1 SV=2							
284	42	0	210.3999		1	1;2	2	---	---	Actin, cytoplasmic 2 (Fragment) OS=Homo sapiens GN=ACTG1 PE=1 SV=4							
285	9	0	55.039		1	1;2	2	---	---	Peroxiredoxin-1 OS=Homo sapiens GN=PRDX1 PE=1 SV=1							
286	1	0	4.7343		1	2	1	---	---	Serpin B7 (Fragment) OS=Homo sapiens GN=SERPINB7 PE=1 SV=4							
287	2	0	16.0661		1	1	1	---	---	DnaJ homolog subfamily C member 28 OS=Homo sapiens GN=DNAJC28 PE=1 SV=2							
288	21	0	105.1133		1	1;2	2	---	---	Histone H2B type 1-J OS=Homo sapiens GN=HIST1H2BJ PE=1 SV=3							
289	1	0	8.931		1	1	1	---	---	SUMO-conjugating enzyme UBC9 OS=Homo sapiens GN=UBE2I PE=1 SV=1							
290	4	0	26.392		1	1;2	2	---	---	Alpha-actinin-4 OS=Homo sapiens GN=ACTN4 PE=1 SV=2							
291	1	0	5.2658		1	1	1	---	---	Disco-interacting protein 2 homolog C OS=Homo sapiens GN=DIP2C PE=1 SV=2							
292	7	0	43.2042		1	1	1	---	---	Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1 SV=1							
293	1	0	5.4074		1	1	1	---	---	Gamma-synuclein OS=Homo sapiens GN=SNCG PE=1 SV=1							
294	1	0	11.6728		1	1	1	---	---	60S ribosomal protein L10 (Fragment) OS=Homo sapiens GN=RPL10 PE=1 SV=1							
295	7	0	44.64		1	1;2	2	---	---	Polyubiquitin-C OS=Homo sapiens GN=UBC PE=1 SV=1							
296	1	0	5.2611		1	1	1	---	---	Isoform 3 of Oxysterol-binding protein-related protein 8 OS=Homo sapiens GN=OSBPL8							
297	4	0	21.1812		1	1	1	---	---	L-lactate dehydrogenase OS=Homo sapiens GN=LDHC PE=1 SV=1							
298	1	0	5.8474		1	2	1	---	---	Choline-phosphate cytidylyltransferase A OS=Homo sapiens GN=PCYT1A PE=1 SV=2							
299	34	0	173.5704		1	1;2	2	---	---	POTE ankyrin domain family member I OS=Homo sapiens GN=POTEI PE=3 SV=1							
300	33	0	162.0549		1	1;2	2	---	---	POTE ankyrin domain family member J OS=Homo sapiens GN=POTEJ PE=3 SV=1							

301	29	0	135.2467		1	1;2	2	---	---	Beta-actin-like protein 2 OS=Homo sapiens GN=ACTBL2 PE=1 SV=2								
302	3	0	17.0188		1	2	1	---	---	Peptidyl-prolyl cis-trans isomerase A-like 4A/B/C OS=Homo sapiens GN=PPIAL4A PE=2 SV=1								
303	1	0	4.7938		1	1	1	---	---	Protein PML OS=Homo sapiens GN=PML PE=1 SV=3								
304	1	0	10.9988		1	2	1	---	---	Isoform 2 of NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 OS=Homo sapiens GN=NDUFA2								
305	1	0	4.4097		1	1	1	---	---	Epidermal growth factor receptor kinase substrate 8 OS=Homo sapiens GN=EPS8 PE=1 SV=1								

Appendix 8: Pilot study

Introduction

Within the study, around 15-20% of causes of death could have been allocated from the antenatal history; with either the autopsy confirming what was clinically suspected or providing no additional information. In view of this, together with the large proportion of unexplained deaths within the study (63%), it was suggested by the examiners at the viva that a small pilot study was needed to assess concordance of important clinical details being present in the postmortem pack (provided for the autopsy) compared to the antenatal notes themselves. The cases used within the original study were non-identifiable based on study number only, hence those cases could not be used to review the original antenatal notes. To address this issue, a small audit study was performed using recent cases.

Methods

Perinatal deaths from University College London Hospital (UCLH) were selected from 2014/2015 in which the autopsies were completed at Great Ormond Street Hospital.

Details from these new cases were also entered into the Microsoft Access database that was used in the original study for consistency and ease of analysis. The antenatal clinical notes were reviewed for each case at UCLH and comparisons were made between the clinical details provided in the postmortem pack and the antennal clinical notes for major categories using Microsoft Excel.

Results

In total, 21 cases were selected for analysis, including five miscarriages, one stillbirth, three neonatal deaths and 12 terminations of pregnancies for fetal abnormality (*Figure 1*).

The majority of deaths (57%) were attributed to congenital abnormalities including organ, skeletal and genetic abnormalities (*Table 1*), corresponding to the number of terminations within the sample with other deaths classified as ascending infection, abruption, chronic lung disease and unexplained (*Figure 2*).

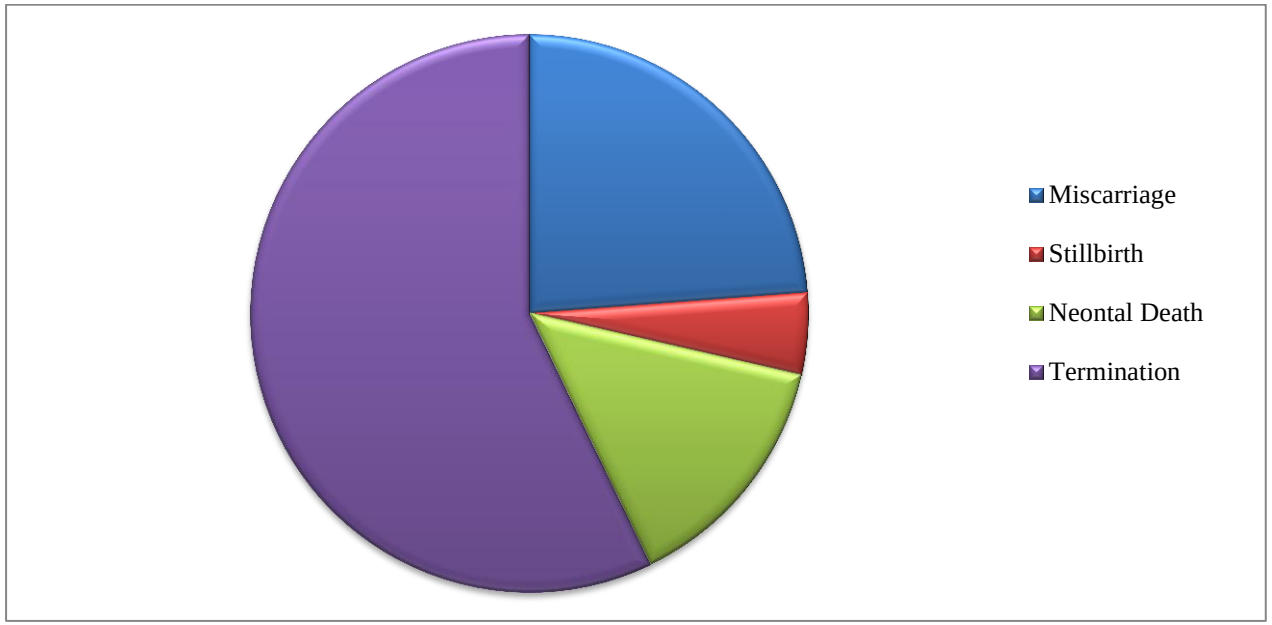

Figure 1: Proportion of different types of fetal death

Cause of death	Number of cases
Ascending Infection	3 (14%)
Abruption	1 (5%)
Chronic Lung disease	1 (5%)
Congenital Abnormalities	12 (57%)
Unexplained	4 (19%)

Total	**21**

Table 1: Proportion of cases with different causes of death

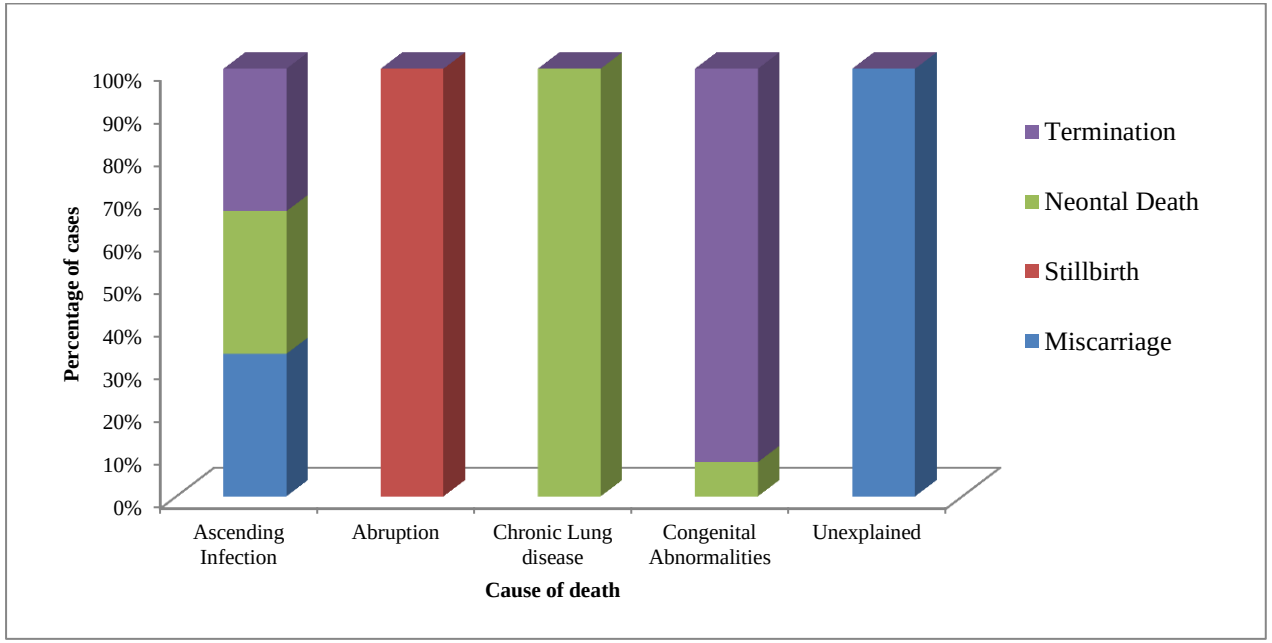

Figure 2: Proportion of each type of death within each cause of death

In all of the cases reviewed, the post-mortem pack information failed to provide a complete and detailed antenatal history. Missing information from the postmortem (PM) pack included: antenatal blood test results; history of antenatal dating and anomaly ultrasound scan results; maternal ethnicity; maternal smoking status; maternal obstetric history and fetal birth weight (*Table 2*).

Missing data	Complete Information not available from PM pack
Antenatal blood tests	18 out of 18 (100%)
Ultrasound scans	13 out of 18 (72%)
Maternal BMI	7 out of 18 (39%)

Maternal Ethnicity	8 out of 18 (44%)
Maternal Smoking status	5 out of 18 (28%)
Maternal Obstetric history	3 out of 18 (17%)
Fetal Birth weight	5 out of 18 (28%)

Table 2: Missing data from postmortem pack

18 out of 21 clinical notes were available for review at UCLH. 66% of the missing data items were provided by review of the full antenatal clinical notes: 100% of maternal obstetric history and maternal smoking status was achieved through review of the notes, however, the clinical notes did not provide the missing fetal birth weight data. The remainder of missing data was found in the clinical notes in 57-75% of cases (*Figure 3*).

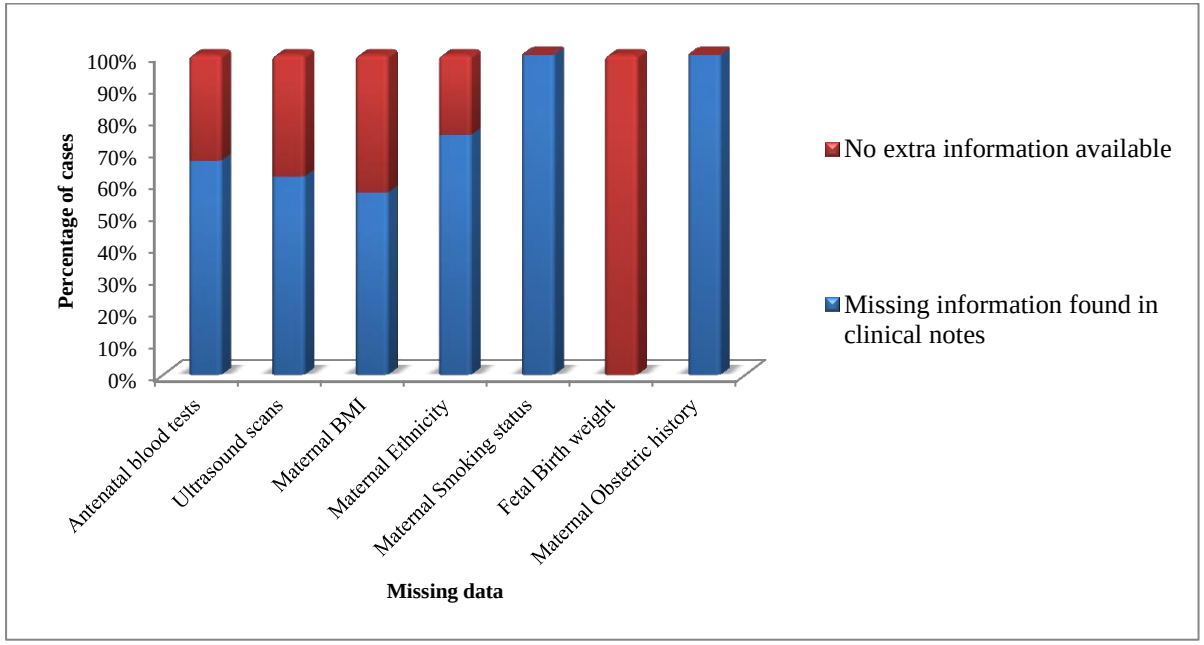

Figure 3: Proportion of cases in which missing data was found on review of clinical notes.

However, on review of the cases, with the additional clinical information, no effect was found on the cause of death provided at autopsy. All clinically relevant information had been included in the original postmortem pack with no causes of death altered based on full review of the clinical notes.

Discussion

This small audit study demonstrates that in all cases of perinatal deaths undergoing autopsy, an incomplete antenatal history was provided, including the absence of results such as antenatal blood tests and ultrasound scans. Most of this missing data was available on review of the clinical notes, but this additional information had no effect on the cause of death, indicating that important aspects of the antenatal history had been included within the postmortem pack.

These findings would suggest that, although not complete, the details provided routinely at the time of autopsy request, within the postmortem pack are sufficient to aid the pathologist in the attribution of cause of death. Cases which were unexplained within the main study are therefore likely to have remained unexplained regardless of whether the full antenatal details were available.

The additional benefits of the extra information provided by review of the full clinical notes would be for research studies looking for trends in data and relationships between antenatal history, such as maternal obstetric history, Body Mass Index and type or cause of death, rather than the determination of the overall cause of death.

There are limited data based on adult studies, evaluating clinical cause of death and cause of death attributed after autopsy with around 20% of cases having unexpected findings (1-5). This would suggest that whilst clinical information remains important, autopsy can identify pathologies missed clinically in the adult patient. The differences between these cases and fetal deaths are that the majority of patients in the aforementioned studies were long term patients on Intensive Care Units and thus there was time for clinicians to establish a suitable reason for death, with concurrent clinical investigations, which in most cases led to the true cause of death, whilst most intrauterine deaths are clinically unsuspected. Much research is still needed in the field of antenatal and fetal pathology to establish why so many stillbirths and miscarriages remain unexplained but the current audit suggest that additional clinical information provision is unlikely to significantly affect the rate of unexplained stillbirth.

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