Organ Weight UCD_OWT_001

Purpose

To evaluate weight of organs.

Experimental Design

- Minimum number of animals : 4M + 4F
- Age at test: Week 16

Equipment

- fine forceps
- surgical scissors
- fine surgical scissor
- kim wipes (tissues) or surgical compress
- laboratory balance
- labelled jar with fixative
- corkplate or wax board
- pins
- jar containing tap water to rinse the tools

Procedure

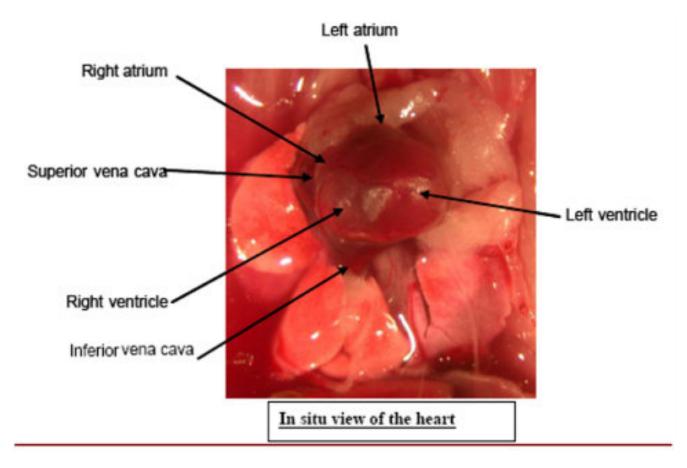
Methods and procedures used not including center-specific data entry methods.

- 1. Sacrifice the mouse
- 2. Weigh and record total body weight

3. Place mouse on its back and pin the mouse onto board with extended extremities (inner side of hands and foot)

- 4. Wipe or wet the mouse with 70% ethanol to control hair and dander
- 5. Option A (for mice that are undergoing complete necropsy):
 - Proceed with a complete necropsy and tissue collection according to Centre-specific technical SOP including removal of the heart by dissecting the aortic root immediately above the aortic valves and the superior vena cava above the atria
 - Remove adjacent mediastinal fat pads from the excised heart carefully with forceps
 - Empty heart blood by tapping the heart on a kim wipe (absorbent pad) or surgical compress. Repeat until the heart is totally dry

- Weigh the heart and other organs, record the weights in the Centre-specific database, and place the heart in fixative
- 6. Option B (for mice that are not undergoing complete necropsy):
 - Open the skin in the ventral midline and in the direction of the extremities and extend cut to hands and feet
 - Open the muscular abdominal wall in the midline and along the lower margin of the rib cage with small forceps
 - Open rib cage by removing the sternum and adjacent ribs
 - Remove the heart by dissecting the aortic root immediately above the aortic valves and the superior vena cava above the atria
 - Remove adjacent mediastinal fat pads from the excised heart carefully with forceps
 - Empty heart blood by tapping the heart on a kim wipe (absorbent pad) or surgical compress. Repeat until the heart is totally dry
 - Weigh the heart and other organs, and record the weights in the Centre-specific database
 - Discard the heart



Notes

All data are collected at a local workstation in the necropsy room (attached to a digital balance) and uploaded to the Centre-specific pathology data capture system.

Data QC

Mouse weight between 5 grams and 150 grams

IMPC Parameters (+ontology annotations)

Weight (in mg)

Data Analysis, annotation and display (+statistics)

Statistics: ANOVA/Wilcoxon test using normalized heart weights (for body weight) displayed in boxplot

Parameters and Metadata

Body weight UCD_OWT_001_001 | v1.0

Req. Analysis: false	Req. Upload: true	Is Annotated: false
Unit Measured: g		
Description: body_weight		
Heart weight UCD_OV simpleParameter	NT_002_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
Unit Measured: mg		
Description: heart_weight		

Spleen weight UCD_OWT_003_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: true	Is Annotated: true
Unit Measured: g		
Description: spleen_weight		
Left kidney UCD_OWT	_004_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
Unit Measured: g		
Description: left_kidney		
Right kidney UCD_OV simpleParameter	NT_005_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: true
Unit Measured: g		
Description: right_kidney		

Tibia length UCD_OWT_006_001 | v1.0

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: mm		
Description: tibia_length		
Pancreas weight UC simpleParameter	CD_OWT_007_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: pancreas_weigh	t	
Liver weight UCD_OV	VT_008_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: liver_weight		

Thymus weight UCD_OWT_009_001 | v1.0

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: thymus_weight		
Brain weight UCD_O	WT_010_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: brain_weight		
Left lung weight UC simpleParameter	CD_OWT_011_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: left_lung_weight	t	

Right lung weight UCD_OWT_012_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: right_lung_weigh	nt	
Left adrenal gland	weight UCD_OWT_013_0	001 v1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: g		
Description: left_adrenal_glar	nd_weight	
Right adrenal gland	d weight UCD_OWT_014	I_001 v1.0
Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: g		
Description: right_adrenal_gla	and_weight	

Left epididymus weight UCD_OWT_015_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: g		
Description: left_epididymu	ıs_weight	

Right epididymus weight UCD_OWT_016_001 | v1.0

simpleParameter

Req. Analysis: falseReq. Upload: falseIs Annotated: false

Unit Measured: g

Description: right_epididymus_weight

Left epididymus adipose tissue weight UCD_OWT_017_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false

Unit Measured: g

Description: left_epididymus_adipose_tissue_weight

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Right epidymus adipose tissue weight UCD_OWT_018_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: g		
Description: right_epidymus_	adipose_tissue_weight	
Left testis weight U simpleParameter	CD_OWT_019_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: left_testis_weigh	t	
Right testis weight simpleParameter	UCD_OWT_020_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: right_testis_weig	jht	

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Left female gonadal adipose tissue weight UCD_OWT_021_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false
Unit Measured: g		
Description: left_female_gona	adal_adipose_tissue_weight	

Right female gonadal adipose tissue weight UCD_OWT_022_001

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: false

Unit Measured: g

Description: right_female_gonadal_adipose_tissue_weight

Left ovary weight UCD_OWT_023_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Unit Measured: g

Description: left_ovary_weight

Right ovary weight UCD_OWT_024_001 | v1.0

simpleParameter

Req. Analysis: false	Req. Upload: false	Is Annotated: true	
Unit Measured: g			
Description: right_ovary_weight			

Sub-mandibular salivary gland weight UCD_OWT_025_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: false

Unit Measured: g

Description: sub_mandibular_salivary_gland_weight

Interscapular BAT weight UCD_OWT_026_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: false

Unit Measured: g

Description: interscapular_bat_weight

Left retroperitoneal adipose tissue weight UCD_OWT_027_001 |

v1.0 simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: false

Unit Measured: g

Description: left_retroperitoneal_adipose_tissue_weight

Right retroperitoneal adipose tissue weight UCD_OWT_028_001

| v1.0 simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: false

Unit Measured: g

Description: right_retroperitoneal_adipose_tissue_weight

Body length UCD_OWT_029_001 | v1.0

Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: mm		
Description: body_length		
Experimenter ID UC procedureMetadata	D_OWT_030_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Description: experimenter_id		
Date of sacrifice UC procedureMetadata	C_OWT_031_001 v1.0	
Req. Analysis: false	Req. Upload: true	Is Annotated: false
Description: date_of_sacrifice	e	

Method of sacrifice UCD_OWT_032_001 | v1.0

procedureMetadata

Req. Analysis: true Req. Upload: true Is Annotated: false

Description: method_of_sacrifice

Equipment ID UCD_OWT_033_001 | v1.0

procedureMetadata

Req. Analysis: false	Req. Upload: true	Is Annotated: false			
Description: equipment_id					
Date equipment last calibrated UCD_OWT_034_001 v1.0 procedureMetadata					
Req. Analysis: false	Req. Upload: false	Is Annotated: false			
Description: date_equipment_last_calibrated					

Equipment manufacturer UCD_OWT_035_001 | v1.0

procedureMetadata

Req. Analysis: true	Req. Upload: true	Is Annotated: false

Description: equipment_manufacturer

Equipment model UCD_OWT_036_001 | v1.0

procedureMetadata

Req. Analysis: true	Req. Upload: true	Is Annotated: false		
Description: equipment_model				