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

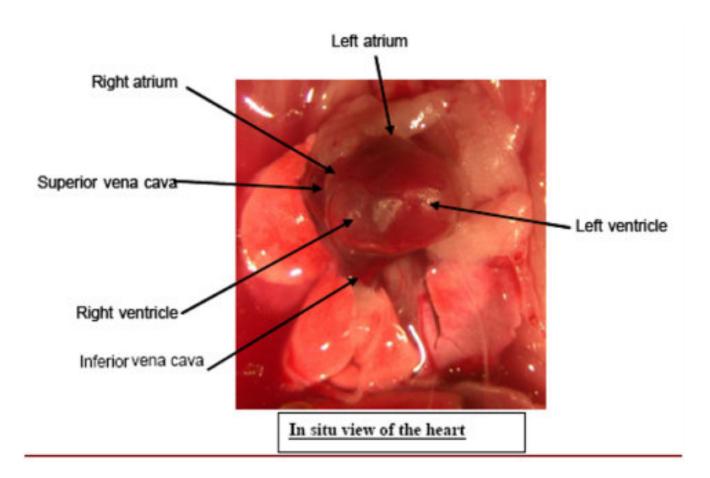
- fine forceps
- surgical scissors
- fine surgical scissor
- kim wipes (tissues) or surgical compress
- laboratory balance
- labelled jar with fixative
- corkplate or wax board
- pins
- jar containing tap water to rinse the tools

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

simpleParameter

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

Unit Measured: g

Description: body_weight

Heart weight UCD_OWT_002_001 | v1.0

simpleParameter

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

Unit Measured: mg

Description: heart_weight

.....

Spleen weight UCD_OWT_003_001 | v1.0

simpleParameter

Reg. Analysis: false Reg. Upload: true Is Annotated: true Unit Measured: g Description: spleen_weight Left kidney UCD_OWT_004_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: true Is Annotated: true Unit Measured: g **Description:** left kidney Right kidney UCD_OWT_005_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: true Is Annotated: true Unit Measured: g **Description:** right_kidney

Tibia length UCD_OWT_006_001 | v1.0

simpleParameter

Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: mm **Description:** tibia_length Pancreas weight UCD_OWT_007_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: g Description: pancreas_weight Liver weight UCD_OWT_008_001 | v1.0 simpleParameter Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: g **Description:** liver_weight

Thymus weight UCD_OWT_009_001 | v1.0

simpleParameter

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

Unit Measured: g

Description: thymus_weight

Brain weight UCD_OWT_010_001 | v1.0 simpleParameter

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

Unit Measured: g

Description: brain_weight

Left lung weight UCD_OWT_011_001 | v1.0

simpleParameter

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

Unit Measured: g

Description: left_lung_weight

......

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_weight

Left adrenal gland weight UCD_OWT_013_001 | v1.0

simpleParameter

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

Unit Measured: g

Description: left_adrenal_gland_weight

Right adrenal gland weight UCD_OWT_014_001 | v1.0

simpleParameter

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

Unit Measured: g

Description: right_adrenal_gland_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_epididymus_weight

.....

Right epididymus weight UCD_OWT_016_001 | v1.0

simpleParameter

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

Unit Measured: q

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

.....

Right epidymus adipose tissue weight UCD_OWT_018_001 | v1.0

simpleParameter

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

Unit Measured: q

Description: right_epidymus_adipose_tissue_weight

Left testis weight UCD_OWT_019_001 | v1.0

simpleParameter

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

Unit Measured: g

Description: left_testis_weight

Right testis weight UCD_OWT_020_001 | v1.0

simpleParameter

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

Unit Measured: g

Description: right_testis_weight

.....

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_gonadal_adipose_tissue_weight

Right female gonadal adipose tissue weight UCD_OWT_022_001

| v1.0

simpleParameter

Reg. Analysis: false Reg. 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	ht	
Right ovary weight simpleParameter	UCD_OWT_024_001 v1.0	
Req. Analysis: false	Req. Upload: false	Is Annotated: true
Unit Measured: g		
Description: right_ovary_weight	ght	
Sub-mandibular sa simpleParameter	alivary gland weight	UCD_OWT_025_001 v1.0
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 retroperitonea v1.0 simpleParameter	l adipose tissue we	ight ucd_owt_027_001		
Req. Analysis: false	Req. Upload: false	Is Annotated: false		
Unit Measured: g				
Description: left_retroperitoneal_adipose_tissue_weight				
Right retroperitone v1.0 simpleParameter	eal adipose tissue w	reight ucd_owt_028_001		
Req. Analysis: false	Req. Upload: false	Is Annotated: false		
Unit Measured: g				
Description: right_retroperitoneal_adipose_tissue_weight				

Req. Analysis: false Req. Upload: false Is Annotated: true Unit Measured: mm **Description:** body_length Experimenter ID UCD_OWT_030_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false Description: experimenter_id Date of sacrifice UCD_OWT_031_001 | v1.0 procedureMetadata Req. Analysis: false Req. Upload: true Is Annotated: false **Description:** date_of_sacrifice

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_CoprocedureMetadata	OWT_033_001 v1.0			
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					