\*Title: X-ray

\*Centre: IMPC

\*Date\_modified: 03-04-2012

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\*Version: 1

{Sections:}

## \*1. Purpose:

Construct and analyse digital X-ray images in immobilised mice using a Faxitron X-Ray system or NTB digital X-ray scanner.

## \*2. Experimental Design

* **Minimum number of animals**: 5+5
* **Age at test :** adult
* **Sex:** males and females

## \*3. Procedure

Perform steps 3.1 and 3.2 unless the mouse is coming from DEXA analysis

3.1 Anesthetize the mice.

3.2 Monitor the animal carefully until unconsciousness by ensuring that the mouse is adequately sedated.

3.3 Mount the anesthetized mouse onto an X-ray permeable plate. Curve the tail

along the left side of the mouse. (Note: this will enable identification of

the X-ray as a dorsal or ventral image.)

Faxitron X-ray system

3.3.1 Insert the plate into the Faxitron X-ray system.

3.3.2 Take an image using the software that is supplied by the X-ray

scanner.

3.4 Remove the mouse once the image is captured. Place the mouse on a heated mat,

set at 37°C, in a cage and monitor closely until consciousness is fully regained.

3.5 Analyze the image.

3.6 Or continue with ABR

## \*4. Notes

The protocol described herein employs anaesthesia using intraperitoneal (IP) administration; however, anaesthesia using isofluorane is also suitable.

|  |  |  |  |
| --- | --- | --- | --- |
| **Meta Data** | **Example Value** | **Required for Upload** | **Required for Data Analysis** |
| Xray Equipment name | X-ray | Yes | No |
| Xray Equipment manufacturer | Pony Industry | Yes | No |
| Xray Equipment model | DFX- 100K | Yes | No |
| Settings time of exposure | 24.7sec | Yes | No |
| Settings level |  | Yes | No |
| Experimenter (scan) |  | Yes | No |
| Experimenter(analysis) |  | Yes | No |
| Voltage settings | 100kV | Yes | No |
| Scanner equipment name |  | No | No |
| Scanner equipment manufacturer |  | No | No |
| Scanner equipment model |  | No | No |

### Data QC

## \*6 . Measured Parameters - list

{Placed in Parameters spreadsheet}

## \*7. MetaData Parameters - list

{Placed in Paramters spreadsheet