

# MicroCT E18.5 IMPC\_EMA\_002

## Purpose

To assess morphological defects in E18.5 embryos from lethal or subviable strains with MicroCT.

## Experimental Design

- Set up timed matings with heterozygous mice
- Day 0 is defined as the midpoint of the prior dark cycle following the identification of a copulation plug.
- Collect embryos at E18.5 with 3 minimum homozygous and 1 littermate control
- Ensure embryos are bled as much as possible.
- Reconstruct the scans according to manufacturer's instructions.

## Procedure

1. **Set up timed mating with heterozygous animals. Dissect and collect  $\geq 3$  homozygote embryos.**
2. **Process the embryos using the centre's staining and embedding protocol . Centre-specific methods are recorded within a document**
3. **Scan and generate reconstructions of embryos.**

## Notes

Embryos may be processed for Histopathology.

## Parameters and Metadata

### Embryo reconstruction IMPC\_EMA\_001\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Increments: Minimum 1

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## **Experimenter ID** IMPC\_EMA\_002\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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## **Equipment ID** IMPC\_EMA\_003\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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## **Equipment Manufacturer** IMPC\_EMA\_004\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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## **Equipment Model** IMPC\_EMA\_005\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

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## **Equipment Version** IMPC\_EMA\_006\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Image Pixel Size IMPC\_EMA\_007\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured:  $\mu\text{m}$

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## E18.5 MicroCT Preparation protocol IMPC\_EMA\_008\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Date equipment last calibrated IMPC\_EMA\_009\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: false

Is Annotated: false

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## Date of Sacrifice IMPC\_EMA\_010\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Date Preparation Finished IMPC\_EMA\_011\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Date of Scan IMPC\_EMA\_012\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

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## Source Voltage IMPC\_EMA\_013\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: kV

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## Source Current IMPC\_EMA\_014\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: uA

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## Object to Source IMPC\_EMA\_015\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: mm

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## Camera to Source IMPC\_EMA\_016\_001 | v1.1

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: mm

---

## Screenshots IMPC\_EMA\_017\_001 | v1.1

seriesMediaParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

**Increments:** Minimum 1

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## **Limb digits** IMPC\_EMA\_018\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Tail** IMPC\_EMA\_019\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Limbs** IMPC\_EMA\_020\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Pinna** IMPC\_EMA\_021\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Vibrissa** IMPC\_EMA\_022\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Edema** IMPC\_EMA\_023\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** yes, no, unobservable,

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## **Embryo size** IMPC\_EMA\_024\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Spinal Cord** IMPC\_EMA\_025\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Spine curvature** IMPC\_EMA\_026\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Craniofacial morphology** IMPC\_EMA\_027\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,



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## Hindbrain subarachnoid space IMPC\_EMA\_028\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Midbrain roof plate IMPC\_EMA\_029\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Midbrain IMPC\_EMA\_030\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Cerebellum IMPC\_EMA\_031\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Cerebral cortex IMPC\_EMA\_032\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Thalamus IMPC\_EMA\_033\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Corpus striatum IMPC\_EMA\_034\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Hippocampus IMPC\_EMA\_035\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Hypothalamus IMPC\_EMA\_036\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Pineal gland IMPC\_EMA\_037\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Pons** IMPC\_EMA\_038\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Medulla oblongata** IMPC\_EMA\_039\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Lateral ventricles** IMPC\_EMA\_040\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Lateral ventricle choroid plexus** IMPC\_EMA\_041\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## 4th ventricle choroid plexus IMPC\_EMA\_042\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## 4th Ventricle IMPC\_EMA\_043\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Cerebral aqueduct IMPC\_EMA\_044\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Median sulcus IMPC\_EMA\_045\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## 3rd ventricle IMPC\_EMA\_046\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Olfactory lobe IMPC\_EMA\_047\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Trigeminal ganglion IMPC\_EMA\_048\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Pituitary gland IMPC\_EMA\_049\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Spinal cord cervical region IMPC\_EMA\_050\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Dorsal root ganglion IMPC\_EMA\_051\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Cochlea** IMPC\_EMA\_052\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Nasal septum** IMPC\_EMA\_053\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Nasal cavity** IMPC\_EMA\_054\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Nasopharynx IMPC\_EMA\_055\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Vomer nasal organ IMPC\_EMA\_056\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Oropharynx IMPC\_EMA\_057\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Oral cavity IMPC\_EMA\_058\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Optic nerve** IMPC\_EMA\_059\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Intraretinal space** IMPC\_EMA\_060\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Hyaloid cavity** IMPC\_EMA\_061\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Cornea IMPC\_EMA\_062\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Lens IMPC\_EMA\_063\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Eyelids IMPC\_EMA\_064\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Temporal bone IMPC\_EMA\_065\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Pharyngo-tympanic tube IMPC\_EMA\_066\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Palate IMPC\_EMA\_067\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Epiglottis IMPC\_EMA\_068\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Tongue** IMPC\_EMA\_069\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Mandible** IMPC\_EMA\_070\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Lower jaw molar** IMPC\_EMA\_071\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Upper jaw molar IMPC\_EMA\_072\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Sphenoid bone IMPC\_EMA\_073\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Thyroid gland IMPC\_EMA\_074\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Submandibular gland IMPC\_EMA\_075\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Brown fat** IMPC\_EMA\_076\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Vertebrae** IMPC\_EMA\_077\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Esophagus** IMPC\_EMA\_078\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Clavicle IMPC\_EMA\_079\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Scapula IMPC\_EMA\_080\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Ulna IMPC\_EMA\_081\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Humerus IMPC\_EMA\_082\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Arytenoid cartilage IMPC\_EMA\_083\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Cricoid cartilage IMPC\_EMA\_084\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Trachea IMPC\_EMA\_085\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Carotid artery** IMPC\_EMA\_086\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Thymus** IMPC\_EMA\_087\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Sternum** IMPC\_EMA\_088\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Rib IMPC\_EMA\_089\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## T1 rib IMPC\_EMA\_090\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Vena cava IMPC\_EMA\_091\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Inferior vena cava IMPC\_EMA\_092\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Superior vena cava IMPC\_EMA\_093\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Jugular vein IMPC\_EMA\_094\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Ductus arteriosus IMPC\_EMA\_095\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Pulmonary valve** IMPC\_EMA\_096\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Pulmonary trunk** IMPC\_EMA\_097\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Dorsal aorta** IMPC\_EMA\_098\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Ductus venosus IMPC\_EMA\_099\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Aorta IMPC\_EMA\_100\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Aortic valve IMPC\_EMA\_101\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Heart atrium IMPC\_EMA\_102\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Heart ventricle** IMPC\_EMA\_103\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Tricuspid valve** IMPC\_EMA\_104\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Mitral valve** IMPC\_EMA\_105\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Interventricular septum IMPC\_EMA\_106\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Pericardial cavity IMPC\_EMA\_107\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Pericardium IMPC\_EMA\_108\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Main bronchus IMPC\_EMA\_109\_001 | v1.0

simpleParameter



**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Bronchus** IMPC\_EMA\_110\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Right lung cranial lobe** IMPC\_EMA\_111\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## **Right lung middle lobe** IMPC\_EMA\_112\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Right lung caudal lobe IMPC\_EMA\_113\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Right lung accessory lobe IMPC\_EMA\_114\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

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## Left lung IMPC\_EMA\_115\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Diaphragm IMPC\_EMA\_116\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Peritoneal cavity IMPC\_EMA\_117\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Liver IMPC\_EMA\_118\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Liver left lobe IMPC\_EMA\_119\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Liver right lobe** IMPC\_EMA\_120\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Liver caudate lobe** IMPC\_EMA\_121\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Gallbladder** IMPC\_EMA\_122\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Liver lobar interzone IMPC\_EMA\_123\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Pancreas IMPC\_EMA\_124\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Stomach IMPC\_EMA\_125\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Pyloric antrum IMPC\_EMA\_126\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Stomach fundus IMPC\_EMA\_127\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Stomach lumen IMPC\_EMA\_128\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Small intestine IMPC\_EMA\_129\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Hindgut IMPC\_EMA\_130\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Midgut IMPC\_EMA\_131\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Hip joint IMPC\_EMA\_132\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Femur IMPC\_EMA\_133\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Fibula IMPC\_EMA\_134\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Tibia IMPC\_EMA\_135\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Adrenal gland IMPC\_EMA\_136\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true



**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Kidney** IMPC\_EMA\_137\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Renal calyx** IMPC\_EMA\_138\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## **Bladder** IMPC\_EMA\_139\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Rectum IMPC\_EMA\_140\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Spleen IMPC\_EMA\_141\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Ovary IMPC\_EMA\_142\_001 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** true

**Options:** present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Testes IMPC\_EMA\_143\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Penis IMPC\_EMA\_144\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Circumventricular organ IMPC\_EMA\_145\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Hyoid IMPC\_EMA\_146\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: present, absent, abnormal, unobservable, ambiguous, imageOnly,

---

## Severely dysmorphic IMPC\_EMA\_147\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: yes, no, unobservable,

---

## Delayed embryonic development IMPC\_EMA\_148\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Options: yes, no, unobservable,

---

## Annotator ID IMPC\_EMA\_149\_001 | v1.0

procedureMetadata

Req. Analysis: false

Req. Upload: true

Is Annotated: false

---

## Date of Annotation IMPC\_EMA\_150\_001 | v1.0

procedureMetadata

**Req. Analysis:** false

**Req. Upload:** true

**Is Annotated:** false

