MicroCT E14.5-E15.5 IMPC_EMO_002

Purpose

To assess morphological defects in E14.5-E15.5 embryos from lethal 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 E14.5 or E15.5 with 3 minimum homozygous and 1 littermate control
- Ensure embryos are bleed as much as possible.
- Reconstruct the scans according to manufacturer's instructions.

Procedure

1. **Set up timed mating with heterozygous animals. Dissect and collect >=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_EMO_001_001 | v1.2

seriesMediaParameter

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

Increments: Minimum 1

Experimenter ID IMPC_EMO_002_001 | v1.0

procedureMetadata

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

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Equipment ID IMPC_EMO_003_001 | v1.0

procedureMetadata

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

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Equipment Manufacturer IMPC_EMO_004_001 | v1.0

procedureMetadata

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

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Equipment Model IMPC_EMO_005_001 | v1.0

procedureMetadata

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

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Equipment Version IMPC_EMO_006_001 | v1.0

procedureMetadata

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

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Image Pixel Size IMPC_EMO_007_001 | v1.0

procedureMetadata

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

Unit Measured: µm

E14.5-E15.5 MicroCT Preparation protocol IMPC_EMO_008_001 | v1.0

procedureMetadata

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

---

Object to Source IMPC_EMO_009_001 | v1.0

procedureMetadata

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

Unit Measured: mm

Camera to Source IMPC_EMO_010_001 | v1.0

procedureMetadata

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

Unit Measured: mm

Date equipment last calibrated IMPC_EMO_011_001 | v1.0

procedureMetadata

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

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Date of Sacrifice IMPC_EMO_012_001 | v1.0

procedureMetadata

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

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Date Preparation Finished IMPC_EMO_013_001 | v1.0

procedureMetadata

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

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Date of Scan IMPC_EMO_014_001 | v1.0

procedureMetadata

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

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Source Voltage IMPC_EMO_015_001 | v1.1

procedureMetadata

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

Unit Measured: kV

Source Current IMPC_EMO_016_001 | v1.0

procedureMetadata

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

Unit Measured: uA

Screenshots IMPC_EMO_017_002 | v2.1

seriesMediaParameter

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

Increments: Minimum 1

3rd ventricle IMPC_EMO_018_001 | v1.0

simpleParameter

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

Description: 3rd_ventricle

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

---

Median sulcus IMPC_EMO_019_001 | v1.0

simpleParameter

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

Description: median_sulcus

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

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4th ventricle IMPC_EMO_020_001 | v1.0

simpleParameter

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

Description: 4th_ventricle

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

---

Adrenal gland IMPC_EMO_021_001 | v1.0

simpleParameter

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

Description: adrenal_gland

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

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Aorta IMPC_EMO_022_001 | v1.0

simpleParameter

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

Description: aorta

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

---

Arch of aorta IMPC_EMO_023_001 | v1.0

simpleParameter

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

Description: arch_of_aorta

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

---

Heart atrium IMPC_EMO_024_001 | v1.0

simpleParameter

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

Description: heart_atrium

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

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basioccipital bone IMPC_EMO_025_001 | v1.0

simpleParameter

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

Description: basioccipital_bone

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

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Bladder IMPC_EMO_026_001 | v1.0

simpleParameter

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

Description: bladder

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

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Bronchus IMPC_EMO_027_001 | v1.0

simpleParameter

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

Description: bronchus

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

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Brown fat IMPC_EMO_028_001 | v1.0

simpleParameter

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

Description: brown_fat

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

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Dorsal root ganglia IMPC_EMO_029_001 | v1.0

simpleParameter

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

Description: dorsal_root_ganglia

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

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Carotid artery IMPC_EMO_030_001 | v1.0

simpleParameter

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

Description: carotid_artery

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

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Cerbral aqueduct IMPC_EMO_031_001 | v1.0

simpleParameter

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

Description: cerbral_aqueduct

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

---

Cerebellum IMPC_EMO_032_001 | v1.0

simpleParameter

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

Description: cerebellum

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

---

4th ventricle choroid plexus IMPC_EMO_033_001 | v1.0

simpleParameter

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

Description: 4th_ventricle_choroid_plexus

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

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lateral ventricle choroid plexus IMPC_EMO_034_001 | v1.0

simpleParameter

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

Description: lateral_ventricle_choroid_plexus

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

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Clavicle IMPC_EMO_035_001 | v1.0

simpleParameter

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

Description: clavicle

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

---

Cochlea IMPC_EMO_036_001 | v1.0

simpleParameter

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

Description: cochlea

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

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Cerebral cortex IMPC_EMO_037_001 | v1.0

simpleParameter

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

Description: cerebral_cortex

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

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Ductus arteriosus IMPC_EMO_038_001 | v1.0

simpleParameter

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

Description: ductus_arteriosus

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

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Diaphragm IMPC_EMO_039_001 | v1.0

simpleParameter

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

Description: diaphragm

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

---

Diencephalon IMPC_EMO_040_001 | v1.0

simpleParameter

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

Description: diencephalon

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

---

Limb digit IMPC_EMO_041_001 | v1.0

simpleParameter

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

Description: limb_digit

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

---

Dorsal aorta IMPC_EMO_042_001 | v1.1

simpleParameter

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

Description: dorsal_aorta

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

---

Duodenum IMPC_EMO_043_001 | v1.0

simpleParameter

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

Description: duodenum

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

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Ejaculatory duct IMPC_EMO_044_001 | v1.0

simpleParameter

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

Description: ejaculatory_duct

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

---

Spinal cord cervical region IMPC_EMO_045_001 | v1.0

simpleParameter

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

Description: spinal_cord_cervical_region

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

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Epiglottis IMPC_EMO_046_001 | v1.0

simpleParameter

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

Description: epiglottis

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

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Esophagus IMPC_EMO_047_001 | v1.0

simpleParameter

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

Description: esophagus

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

---

Pharyngo-tympanic tube IMPC_EMO_048_001 | v1.0

simpleParameter

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

Description: pharyngo_tympanic_tube

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

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Exoccipital bone IMPC_EMO_049_001 | v1.0

simpleParameter

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

Description: exoccipital_bone

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

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Eyelid IMPC_EMO_050_001 | v1.0

simpleParameter

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

Description: eyelid

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

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Femur IMPC_EMO_051_001 | v1.0

simpleParameter

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

Description: femur

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

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Fibula IMPC_EMO_052_001 | v1.0

simpleParameter

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

Description: fibula

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

---

T1 rib IMPC_EMO_053_001 | v1.0

simpleParameter

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

Description: t1_rib

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

---

Soft palate IMPC_EMO_054_001 | v1.0

simpleParameter

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

Description: soft_palate

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

---

Palate IMPC_EMO_055_001 | v1.0

simpleParameter

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

Description: palate

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

---

Gallbladder IMPC_EMO_056_001 | v1.0

simpleParameter

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

Description: gallbladder

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

---

Gluteus maximus IMPC_EMO_057_001 | v1.0

simpleParameter

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

Description: gluteus_maximus

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

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Hepatic duct IMPC_EMO_058_001 | v1.0

simpleParameter

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

Description: hepatic_duct

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

---

Midgut IMPC_EMO_059_001 | v1.0

simpleParameter

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

Description: midgut

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

---

herniated abdominal wall IMPC_EMO_060_001 | v1.0

simpleParameter

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

Description: herniated_abdominal_wall

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

---

Hindbrain IMPC_EMO_061_001 | v1.0

simpleParameter

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

Description: hindbrain

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

---

Hindgut IMPC_EMO_062_001 | v1.0

simpleParameter

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

Description: hindgut

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

---

Hip IMPC_EMO_063_001 | v1.0

simpleParameter

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

Description: hip

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

---

Hippocampus IMPC_EMO_064_001 | v1.0

simpleParameter

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

Description: hippocampus

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

Humerus IMPC_EMO_065_001 | v1.0

simpleParameter

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

Description: humerus

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

---

Hyaloid cavity IMPC_EMO_066_001 | v1.0

simpleParameter

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

Description: hyaloid_cavity

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

---

Hyoid bone IMPC_EMO_067_001 | v1.0

simpleParameter

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

Description: hyoid_bone

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

Hypothalamus IMPC_EMO_068_001 | v1.0

simpleParameter

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

Description: hypothalamus

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

---

Inferior vena cava IMPC_EMO_069_001 | v1.0

simpleParameter

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

Description: inferior_vena_cava

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

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Pituitary gland IMPC_EMO_070_001 | v1.0

simpleParameter

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

Description: pituitary_gland

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

Pigmented retinal epiithelium IMPC_EMO_071_001 | v1.0

simpleParameter

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

Description: pigmented_retinal_epiithelium

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

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Innominate artery IMPC_EMO_072_001 | v1.0

simpleParameter

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

Description: innominate_artery

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

---

Interventricular septum IMPC_EMO_073_001 | v1.0

simpleParameter

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

Description: interventricular_septum

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

Intraretinal space IMPC_EMO_074_001 | v1.0

simpleParameter

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

Description: intraretinal_space

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

Vomeronasal organ IMPC_EMO_075_001 | v1.0

simpleParameter

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

Description: vomeronasal_organ

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

Jejunum IMPC_EMO_076_001 | v1.0

simpleParameter

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

Description: jejunum

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

---

Jugular lymph sac IMPC_EMO_077_001 | v1.0

simpleParameter

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

Description: jugular_lymph_sac

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

---

Kidney IMPC_EMO_078_001 | v1.0

simpleParameter

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

Description: kidney

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

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Kidney pelvis IMPC_EMO_079_001 | v1.1

simpleParameter

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

Description: kidney_pelvix

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

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Renal cortex IMPC_EMO_080_001 | v1.0

simpleParameter

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

Description: renal_cortex

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

---

Renal medulla IMPC_EMO_081_001 | v1.0

simpleParameter

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

Description: renal_medulla

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

---

Larynx IMPC_EMO_082_001 | v1.0

simpleParameter

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

Description: larynx

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

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Lateral ventricle IMPC_EMO_083_001 | v1.0

simpleParameter

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

Description: lateral_ventricle

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

---

Lens IMPC_EMO_084_001 | v1.0

simpleParameter

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

Description: lens

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

---

Limb muscle IMPC_EMO_085_001 | v1.0

simpleParameter

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

Description: limb_muscle

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

---

Liver IMPC_EMO_086_001 | v1.0

simpleParameter

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

Description: liver

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

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Liver lobe IMPC_EMO_087_001 | v1.0

simpleParameter

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

Description: liver_lobe

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

---

Liver caudate lobe IMPC_EMO_088_001 | v1.0

simpleParameter

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

Description: liver_caudate_lobe

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

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Ductus venosus IMPC_EMO_089_001 | v1.0

simpleParameter

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

Description: ductus_venosus

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

---

Liver left lobe IMPC_EMO_090_001 | v1.0

simpleParameter

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

Description: liver_left_lobe

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

---

Liver right lobe IMPC_EMO_091_001 | v1.0

simpleParameter

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

Description: liver_right_lobe

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

---

Lower jaw molar IMPC_EMO_092_001 | v1.0

simpleParameter

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

Description: lower_jaw_molar

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

---

Right lung cranial lobe IMPC_EMO_093_001 | v1.0

simpleParameter

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

Description: right_lung_cranial_lobe

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

---

Right lung accessory lobe IMPC_EMO_094_001 | v1.0

simpleParameter

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

Description: right_lung_accessory_lobe

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

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Right lung caudal lobe IMPC_EMO_095_001 | v1.0

simpleParameter

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

Description: right_lung_caudal_lobe

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

---

Left lung IMPC_EMO_096_001 | v1.0

simpleParameter

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

Description: left_lung

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

---

Right lung middle lobe IMPC_EMO_097_001 | v1.0

simpleParameter

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

Description: right_lung_middle_lobe

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

---

Mandible IMPC_EMO_098_001 | v1.0

simpleParameter

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

Description: mandible

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

---

Masseter IMPC_EMO_099_001 | v1.0

simpleParameter

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

Description: masseter

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

---

Meckel's cartilage IMPC_EMO_100_001 | v1.0

simpleParameter

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

Description: meckel_s_cartilage

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

---

Medulla oblongata IMPC_EMO_101_001 | v1.0

simpleParameter

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

Description: medulla_oblongata

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

---

Midbrain IMPC_EMO_102_001 | v1.0

simpleParameter

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

Description: midbrain

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

---

Midbrain roof plate IMPC_EMO_103_001 | v1.0

simpleParameter

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

Description: midbrain_roof_plate

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

---

Mitral valve IMPC_EMO_104_001 | v1.0

simpleParameter

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

Description: mitral_valve

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

---

Nasal capsule IMPC_EMO_105_001 | v1.0

simpleParameter

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

Description: nasal_capsule

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

---

Nasal cavity IMPC_EMO_106_001 | v1.0

simpleParameter

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

Description: nasal_cavity

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

---

Nasal septum IMPC_EMO_107_001 | v1.0

simpleParameter

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

Description: nasal_septum

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

---

Nasopharynx IMPC_EMO_108_001 | v1.0

simpleParameter

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

Description: nasopharynx

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

---

Neural retina IMPC_EMO_109_001 | v1.0

simpleParameter

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

Description: neural_retina

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

---

Olfactory epithelium IMPC_EMO_110_001 | v1.0

simpleParameter

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

Description: olfactory_epithelium

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

---

Olfactory lobe IMPC_EMO_111_001 | v1.0

simpleParameter

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

Description: olfactory_lobe

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

---

Optic nerve IMPC_EMO_112_001 | v1.0

simpleParameter

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

Description: optic_nerve

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

---

Oropharynx IMPC_EMO_113_001 | v1.0

simpleParameter

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

Description: oropharynx

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

---

Oral cavity IMPC_EMO_114_001 | v1.0

simpleParameter

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

Description: oral_cavity

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

---

Ovary IMPC_EMO_115_001 | v1.0

simpleParameter

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

Description: ovary

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

---

Palatal shelf IMPC_EMO_116_001 | v1.0

simpleParameter

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

Description: palatal_shelf

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

---

Pancreas IMPC_EMO_117_001 | v1.0

simpleParameter

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

Description: pancreas

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

---

Parathyroid gland IMPC_EMO_118_001 | v1.0

simpleParameter

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

Description: parathyroid_gland

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

---

Penis IMPC_EMO_119_001 | v1.0

simpleParameter

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

Description: penis

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

---

Pericardial cavity IMPC_EMO_120_001 | v1.0

simpleParameter

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

Description: pericardial_cavity

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

---

Pericardium IMPC_EMO_121_001 | v1.0

simpleParameter

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

Description: pericardium

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

---

Peritoneal cavity IMPC_EMO_122_001 | v1.0

simpleParameter

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

Description: peritoneal_cavity

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

---

Pineal primordium IMPC_EMO_123_001 | v1.0

simpleParameter

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

Description: pineal_primordium

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

---

Pinna IMPC_EMO_124_001 | v1.0

simpleParameter

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

Description: pinna

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

---

Pons IMPC_EMO_125_001 | v1.0

simpleParameter

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

Description: pons

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

---

Portal vein IMPC_EMO_126_001 | v1.0

simpleParameter

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

Description: portal_vein

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

Primary palate IMPC_EMO_127_001 | v1.0

simpleParameter

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

Description: primary_palate

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

---

Pulmonary artery IMPC_EMO_128_001 | v1.0

simpleParameter

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

Description: pulmonary_artery

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

---

Quadriceps muscle IMPC_EMO_129_001 | v1.0

simpleParameter

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

Description: quadriceps_muscle

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

---

Radius IMPC_EMO_130_001 | v1.0

simpleParameter

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

Description: radius

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

---

Rathke's pouch IMPC_EMO_131_001 | v1.0

simpleParameter

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

Description: rathke_s_pouch

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

---

Rectum IMPC_EMO_132_001 | v1.0

simpleParameter

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

Description: rectum

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

Rib IMPC_EMO_133_001 | v1.0

simpleParameter

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

Description: rib

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

---

S1 vertebral cartilage condensation IMPC_EMO_134_001 | v1.0

simpleParameter

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

Description: s1_vertebral_cartilage_condensation

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

---

Scapula IMPC_EMO_135_001 | v1.0

simpleParameter

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

Description: scapula

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

---

Semicircular canal IMPC_EMO_136_001 | v1.0

simpleParameter

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

Description: semicircular_canal

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

---

Small intestine IMPC_EMO_137_001 | v1.0

simpleParameter

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

Description: small_intestine

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

---

Sphenoid bone IMPC_EMO_138_001 | v1.0

simpleParameter

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

Description: sphenoid_bone

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

---

Spinal cord IMPC_EMO_139_001 | v1.0

simpleParameter

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

Description: spinal_cord

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

---

Spinal cord central canal IMPC_EMO_140_001 | v1.0

simpleParameter

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

Description: spinal_cord_central_canal

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

---

Spleen primordium IMPC_EMO_141_001 | v1.0

simpleParameter

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

Description: spleen_primordium

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

---

Sternum IMPC_EMO_142_001 | v1.0

simpleParameter

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

Description: sternum

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

---

Stomach IMPC_EMO_143_001 | v1.0

simpleParameter

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

Description: stomach

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

---

Stomach lumen IMPC_EMO_144_001 | v1.0

simpleParameter

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

Description: stomach_lumen

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

---

Stomach wall IMPC_EMO_145_001 | v1.0

simpleParameter

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

Description: stomach_wall

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

---

Stomach fundus IMPC_EMO_146_001 | v1.0

simpleParameter

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

Description: stomach_fundus

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

---

Stomach pyloric region IMPC_EMO_147_001 | v1.0

simpleParameter

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

Description: stomach_pyloric_region

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

---

Subclavian artery IMPC_EMO_148_001 | v1.0

simpleParameter

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

Description: subclavian_artery

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

---

Submandibular gland IMPC_EMO_149_001 | v1.0

simpleParameter

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

Description: submandibular_gland

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

---

Tail IMPC_EMO_150_001 | v1.0

simpleParameter

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

Description: tail

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

---

Nucleus pulposus IMPC_EMO_151_001 | v1.0

simpleParameter

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

Description: nucleus_pulposus

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

---

Temporal bone IMPC_EMO_152_001 | v1.0

simpleParameter

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

Description: temporal_bone

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

---

Testis IMPC_EMO_153_001 | v1.0

simpleParameter

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

Description: testis

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

---

Thalamus IMPC_EMO_154_001 | v1.0

simpleParameter

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

Description: thalamus

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

---

Descending aorta IMPC_EMO_155_001 | v1.2

simpleParameter

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

Description: descending_thoracic_aorta

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

---

Thymus IMPC_EMO_156_001 | v1.0

simpleParameter

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

Description: thymus

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

---

Thyroid gland IMPC_EMO_157_001 | v1.0

simpleParameter

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

Description: thyroid_gland

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

---

Tibia IMPC_EMO_158_001 | v1.0

simpleParameter

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

Description: tibia

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

---

Tongue IMPC_EMO_159_001 | v1.0

simpleParameter

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

Description: tongue

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

---

Trachea IMPC_EMO_160_001 | v1.0

simpleParameter

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

Description: trachea

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

---

Tricuspid valve IMPC_EMO_161_001 | v1.0

simpleParameter

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

Description: tricuspid_valve

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

---

Trigeminal V ganglion IMPC_EMO_162_001 | v1.0

simpleParameter

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

Description: trigeminal_v_ganglion

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

---

Ulna IMPC_EMO_163_001 | v1.0

simpleParameter

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

Description: ulna

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

---

Upper jaw incisor IMPC_EMO_164_001 | v1.0

simpleParameter

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

Description: upper_jaw_incisor

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

---

Upper jaw molar IMPC_EMO_165_001 | v1.0

simpleParameter

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

Description: upper_jaw_molar

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

---

Urethra IMPC_EMO_166_001 | v1.0

simpleParameter

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

Description: urethra

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

---

Vagal trunk IMPC_EMO_167_001 | v1.0

simpleParameter

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

Description: vagal_trunk

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

---

Vena cava IMPC_EMO_168_001 | v1.0

simpleParameter

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

Description: vena_cava

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

---

Heart ventricle IMPC_EMO_169_001 | v1.0

simpleParameter

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

Description: heart_ventricle

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

---

Vertebra IMPC_EMO_170_001 | v1.0

simpleParameter

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

Description: vertebra

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

---

Vibrissa IMPC_EMO_171_001 | v1.0

simpleParameter

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

Description: vibrissa

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

---

Oedema IMPC_EMO_172_001 | v1.0

simpleParameter

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

Description: oedema

Options: yes, no, unobservable,

---

physiological umbilical hernia morphology IMPC_EMO_173_001 | v1.0

simpleParameter

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

Description: physiological_umbilical_hernia_morphology

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

---

Cervical flexure morphology IMPC_EMO_174_001 | v1.0

simpleParameter

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

Description: cervical_flexure_morphology

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

---

Size IMPC_EMO_175_001 | v1.0

simpleParameter

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

Description: size

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

---

Spine curvature IMPC_EMO_176_001 | v1.0

simpleParameter

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

Description: spine_curvature

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

Craniofacial morphology IMPC_EMO_177_001 | v1.0

simpleParameter

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

Description: craniofacial_morphology

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

---

Annotator ID IMPC_EMO_178_001 | v1.0

procedureMetadata

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

Description: annotator_id

Date of Annotation IMPC_EMO_179_001 | v1.0

procedureMetadata

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

Description: date_of_annotation
