


# Dysmorphology ESLIM\_001\_001

## Purpose

A simple method to examine mice for morphological abnormalities.

 Standard Operating Procedure	Title: Dysmorphology	
	Doc. Number: ESLIM_001_001 Rev No.	Date Issued: 01/06/04

## Change Record

Revision	Date	Responsible Person	Description of Change
D1.1	20 Sept 07	Hilary Gates	Click box and observation of locomotion removed

### 1.0 Purpose:

- 1.1 A simple method to examine mice for morphological abnormalities.

### 2.0 Scope:

- 2.1 Individuals who have been trained and are competent in performing the procedures described herein must follow this procedure.
- 2.2 Any queries, comments or suggestions, either relating to this SOP in general or to a specific problem encountered during a procedure, should be addressed to the Bone and Cartilage Research Project Leader.
- 2.3 Any deviances deviation from this protocol must be reported to the Bone and Cartilage Research Project Leader.

### 3.0 Safety Requirements:

- 3.1 General laboratory procedures should be followed, which include prohibition of eating, chewing gum, drinking, and applying of cosmetics in the work area. Laboratory coats and gloves must be worn at all times in the work area, unless the protocol specifically describes the appropriate attire for the procedure.

### 4.0 Associated Documents:

- 4.1 EMPReSS SOP 10\_002 Revision 0: Modified SHIRPA

### 5.0 Notes:





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- 5.1 The validity of results obtained from behavioural phenotyping is largely dependent on methods of animal husbandry. It is important that individuals following this procedure are experienced and aware of the animal's welfare, and is familiar with the animal being tested, in order to reduce the anxiety levels of the animal prior to testing.
- 5.2 The majority of mouse behavioural studies are age/sex/strain dependent. It is important to keep these parameters comparable throughout a single experiment.
- 5.3 Environmental factors may contribute to the levels of anxiety within the mouse. The temperature, humidity, ventilation, noise intensity and light intensity must be maintained at levels appropriate for mice. It is essential that the mice be kept in a uniform environment before and after testing to avoid anomalous results being obtained.
- 5.4 It is recommended that all phenotyping experimentation is conducted at approximately the same time of day because physiological and biochemical parameters change throughout the day.

## 6.0 Quality Control:

## 7.0 Equipment:

- 7.1 Balance
- 7.2 Photo and/or video camera

## 8.0 Supplies:

- 8.1 Ruler

## 9.0 Procedure:

- 9.1 Place a cage containing 5 mice onto an operating table. **Note:** *Morphological irregularities are recorded by video sequences or photos.*



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- 9.2 Initially observe mice carefully without disturbing them and note down the following:
  - 9.2.1 Any obvious dysmorphologies in the physical appearance, tail kinks or coat colour.
- 9.3 Remove a mouse from its home cage, gripping the tail between the thumb and the forefinger and place on a balance. Determine and record its weight.
- 9.4 Place the mouse on the table to examine and record the following dorsally:
  - 9.4.1 Irregularities in the shape of ears, eyes, head or limbs.
  - 9.4.2 Number and shape of digits.
  - 9.4.3 Irregularities in coat colour, hair distribution and development. Stroke the coat against the hair growth to note the repositioning of the hairs to their initial position as a measure of hair development.
  - 9.4.4 Subtle kinks in the tail. Stroke the tail along its entire length with 2 fingers.
- 9.5 Carefully scruff the mouse, holding the tail behind the little finger, to examine and record the following ventrally:
  - 9.5.1 Variations in coat colour.
  - 9.5.2 Irregularities in the genitals.
  - 9.5.3 Malformations on the ventral and lateral sides of head and body.
  - 9.5.4 Shape, number and colour of the teeth.
- 9.6 Suspend the mouse by the tail for a few seconds. Observe and record the movement and positioning of the limbs.

- 9.7 Drop the mouse from approximately 25 cm above an empty clean cage to observe and record the position of landing.



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### 10.0 Supporting information:

- 10.1 Fuchs H, Schughart K, Wolf E, Balling R, Hrabe de Angelis M, Screening for dysmorphological abnormalities—a powerful tool to isolate new mouse mutants. Mamm Genome. 2000 Jul;11(7):528-30. No abstract available.

### 11.0 History Review:

### 12.0 Emergency Procedures:



## Parameters and Metadata

### **adult mouse weight** ESLIM\_001\_001\_001 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: false

Unit Measured: g

Description: adult\_mouse\_weight

---

### **adult mouse** ESLIM\_001\_001\_002 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: true

Is Annotated: true

Description: adult\_mouse

Options: as described for wt, abnormal,

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### **adult mouse abnormality description** ESLIM\_001\_001\_003 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** adult\_mouse\_abnormality\_description

---

## **adult mouse length** ESLIM\_001\_001\_004 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** adult\_mouse\_length

**Options:** wt distribution, decreased length, increased length,

---

## **adult mouse thickness** ESLIM\_001\_001\_005 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** adult\_mouse\_thickness

**Options:** wt distribution, decreased thickness, increased thickness,

---

## **fat distribution** ESLIM\_001\_001\_006 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** fat\_distribution

**Options:** wt distribution, abnormal distribution,

---

**coat hair** ESLIM\_001\_001\_007 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair

**Options:** as described for wt, abnormal,

---

**coat hair abnormality description** ESLIM\_001\_001\_008 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** coat\_hair\_abnormality\_description

---

**coat hair color** ESLIM\_001\_001\_009 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_color

**Options:** as described for wt, abnormal color,

---

## coat hair color pattern ESLIM\_001\_001\_010 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_color\_pattern

**Options:** as described for wt, multi-colored, spotted,

---

## coat hair presence ESLIM\_001\_001\_011 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_presence

**Options:** present, absent,

---

## coat hair placement ESLIM\_001\_001\_012 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_placement

**Options:** as described for wt, erect,

---

## **coat hair spatial pattern** ESLIM\_001\_001\_013 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_spatial\_pattern

**Options:** as described for wt, patchy,

---

## **coat hair distribution** ESLIM\_001\_001\_014 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_distribution

**Options:** as described for wt, sparse,

---

## **coat hair texture** ESLIM\_001\_001\_015 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_texture

**Options:** as described for wt, flaky, greasy,

---

## coat hair structure ESLIM\_001\_001\_016 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** coat\_hair\_structure

**Options:** as described for wt, matted,

---

## head + coat hair color ESLIM\_001\_001\_017 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_color

**Options:** as described for wt, abnormal color,

---

## head + coat hair color pattern ESLIM\_001\_001\_018 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_color\_pattern

**Options:** as described for wt, mono-colored, multi-colored, spotted,

---

## head + coat hair presence ESLIM\_001\_001\_019 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_presence

**Options:** present, absent,

---

## head + coat hair placement ESLIM\_001\_001\_020 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_placement

**Options:** as described for wt, erect,

---

## head + coat hair spatial pattern ESLIM\_001\_001\_021 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_spatial\_pattern

**Options:** as described for wt, patchy,

---

## head + coat hair distribution ESLIM\_001\_001\_022 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_distribution

**Options:** as described for wt, sparse,

---

## head + coat hair texture ESLIM\_001\_001\_023 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_\_coat\_hair\_texture

**Options:** as described for wt, flaky, greasy,

---



**head + coat hair structure** ESLIM\_001\_001\_024 | v1.0

simpleParameter

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

Description: head\_\_coat\_hair\_structure

Options: as described for wt, matted,

---

**back + coat hair color** ESLIM\_001\_001\_025 | v1.0

simpleParameter

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

Description: back\_\_coat\_hair\_color

Options: as described for wt, abnormal color,

---

**back + coat hair color pattern** ESLIM\_001\_001\_026 | v1.0

simpleParameter

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

Description: back\_\_coat\_hair\_color\_pattern

Options: as described for wt, mono-colored, multi-colored, spotted,

---

## back + coat hair presence ESLIM\_001\_001\_027 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** back\_\_coat\_hair\_presence

**Options:** present, absent,

---

## back + coat hair placement ESLIM\_001\_001\_028 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** back\_\_coat\_hair\_placement

**Options:** as described for wt, erect,

---

## back + coat hair spatial pattern ESLIM\_001\_001\_029 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** back\_\_coat\_hair\_spatial\_pattern

**Options:** as described for wt, patchy,

---

## back + coat hair distribution ESLIM\_001\_001\_030 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: back\_\_coat\_hair\_distribution

Options: as described for wt, sparse,

---

## back + coat hair texture ESLIM\_001\_001\_031 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: back\_\_coat\_hair\_texture

Options: as described for wt, flaky, greasy,

---

## back + coat hair structure ESLIM\_001\_001\_032 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: back\_\_coat\_hair\_structure

Options: as described for wt, matted,

---

## stomach + coat hair color ESLIM\_001\_001\_033 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_color

Options: as described for wt, abnormal color,

---

## stomach + coat hair color pattern ESLIM\_001\_001\_034 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_color\_pattern

Options: as described for wt, mono-colored, multi-colored, spotted,

---

## stomach + coat hair presence ESLIM\_001\_001\_035 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_presence

Options: present, absent,

---

## stomach + coat hair placement ESLIM\_001\_001\_036 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_placement

Options: as described for wt, erect,

---

## stomach + coat hair spatial pattern ESLIM\_001\_001\_037 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_spatial\_pattern

Options: as described for wt, patchy,

---

## stomach + coat hair distribution ESLIM\_001\_001\_038 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_distribution

Options: as described for wt, sparse,

---

## stomach + coat hair texture ESLIM\_001\_001\_039 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_texture

Options: as described for wt, flaky, greasy,

---

## stomach + coat hair structure ESLIM\_001\_001\_040 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: stomach\_\_coat\_hair\_structure

Options: as described for wt, matted,

---

## skin ESLIM\_001\_001\_041 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: skin

Options: as described for wt, abnormal,

---

## skin abnormality description ESLIM\_001\_001\_042 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** skin\_abnormality\_description

---

## skin spatial pattern ESLIM\_001\_001\_043 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** skin\_spatial\_pattern

**Options:** as described for wt, patchy,

---

## skin texture ESLIM\_001\_001\_044 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** skin\_texture

**Options:** as described for wt, scaly,

---

## skin wetness ESLIM\_001\_001\_045 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: skin\_wetness

Options: as described for wt, dry, wet,

---

## skin color brightness ESLIM\_001\_001\_046 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: skin\_color\_brightness

Options: as described for wt, dark, light,

---

## skin relative color ESLIM\_001\_001\_047 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: skin\_relative\_color

Options: as described for wt, colorless, variable color,

---



## skin shape ESLIM\_001\_001\_048 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** skin\_shape

**Options:** as described for wt, loose,

---

## skin color ESLIM\_001\_001\_049 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** skin\_color

**Options:** as described for wt, abnormal color,

---

## nose skin spatial pattern ESLIM\_001\_001\_050 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** nose\_skin\_spatial\_pattern

**Options:** as described for wt, patchy,

---

## nose skin texture ESLIM\_001\_001\_051 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: nose\_skin\_texture

Options: as described for wt, scaly,

---

## nose skin wetness ESLIM\_001\_001\_052 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: nose\_skin\_wetness

Options: as described for wt, dry, wet,

---

## nose skin color brightness ESLIM\_001\_001\_053 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: nose\_skin\_color\_brightness

Options: as described for wt, dark, light,

---

## nose skin relative color ESLIM\_001\_001\_054 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** nose\_skin\_relative\_color

**Options:** as described for wt, colorless, variable color,

---

## nose skin shape ESLIM\_001\_001\_055 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** nose\_skin\_shape

**Options:** as described for wt, loose,

---

## nose skin color ESLIM\_001\_001\_056 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** nose\_skin\_color

**Options:** as described for wt, abnormal color,

---

## ear skin spatial pattern ESLIM\_001\_001\_057 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_skin\_spatial\_pattern

**Options:** as described for wt, left ear skin patchy, right ear skin patchy, bilaterally patchy,

---

## ear skin texture ESLIM\_001\_001\_058 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_skin\_texture

**Options:** as described for wt, left ear skin scaly, right ear skin scaly, bilaterally scaly,

---

## ear skin wetness ESLIM\_001\_001\_059 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_skin\_wetness

**Options:** as described for wt, left ear skin dry, right ear skin dry, bilaterally dry,  
left ear skin wet, right ear skin wet, bilaterally wet,

---

## ear skin color brightness ESLIM\_001\_001\_060 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Description:** ear\_skin\_color\_brightness

**Options:** as described for wt, left ear skin dark, right ear skin dark, bilaterally dark, left ear skin light, right ear skin light, bilaterally light,

---

## ear skin relative color ESLIM\_001\_001\_061 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Description:** ear\_skin\_relative\_color

**Options:** as described for wt, left ear skin colorless, right ear skin colorless, bilaterally colorless, left ear skin variable color, right ear skin variable color, bilaterally variable color,

---

## ear skin shape ESLIM\_001\_001\_062 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Description:** ear\_skin\_shape

**Options:** as described for wt, left ear skin loose, right ear skin loose, bilaterally loose,

---

## ear skin color ESLIM\_001\_001\_063 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_skin\_color

**Options:** as described for wt, left ear skin abnormal color, right ear skin abnormal color, bilaterally abnormal color,

---

## hand skin spatial pattern ESLIM\_001\_001\_064 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_spatial\_pattern

**Options:** as described for wt, left hand skin patchy, right hand skin patchy, bilaterally patchy,

---

## hand skin texture ESLIM\_001\_001\_065 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_texture

**Options:** as described for wt, left hand skin scaly, right hand skin scaly, bilaterally scaly,

---

## hand skin wetness ESLIM\_001\_001\_066 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_wetness

**Options:** as described for wt, left hand skin dry, right hand skin dry, bilaterally dry,  
left hand skin wet, right hand skin wet, bilaterally wet,

---

## hand skin color brightness ESLIM\_001\_001\_067 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_color\_brightness

**Options:** as described for wt, left hand skin dark, right hand skin dark, bilaterally dark,  
left hand skin light, right hand skin light, bilaterally light,

---

## hand skin relative color ESLIM\_001\_001\_068 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_relative\_color

**Options:** as described for wt, left hand skin colorless, right hand skin colorless, bilaterally colorless, left hand skin variable color, right hand skin variable color, bilaterally variable color,

---

## hand skin shape ESLIM\_001\_001\_069 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_shape

**Options:** as described for wt, left hand skin loose, right hand skin loose, bilaterally loose,

---

## hand skin color ESLIM\_001\_001\_070 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_skin\_color

**Options:** as described for wt, left hand skin abnormal color, right hand skin abnormal color, bilaterally abnormal color,

---



## foot skin spatial pattern ESLIM\_001\_001\_071 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_spatial\_pattern

**Options:** as described for wt, left foot skin patchy, right foot skin patchy, bilaterally patchy,

---

## foot skin texture ESLIM\_001\_001\_072 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_texture

**Options:** as described for wt, left foot skin scaly, right foot skin scaly, bilaterally scaly,

---

## foot skin wetness ESLIM\_001\_001\_073 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_wetness

**Options:** as described for wt, left foot skin dry, right foot skin dry, bilaterally dry,  
left foot skin wet, right foot skin wet, bilaterally wet,

---

## foot skin color brightness ESLIM\_001\_001\_074 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_color\_brightness

**Options:** as described for wt, left foot skin dark, right foot skin dark, bilaterally dark, left foot skin light, right foot skin light, bilaterally light,

---

## foot skin relative color ESLIM\_001\_001\_075 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_relative\_color

**Options:** as described for wt, left foot skin colorless, right foot skin colorless, bilaterally colorless, left foot skin variable color, right foot skin variable color, bilaterally variable color,

---

## foot skin shape ESLIM\_001\_001\_076 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_shape

**Options:** as described for wt, left foot skin loose, right foot skin loose, bilaterally loose,

---

## foot skin color ESLIM\_001\_001\_077 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_skin\_color

**Options:** as described for wt, left foot skin abnormal color, right foot skin abnormal color, bilaterally abnormal color,

---

## tail skin spatial pattern ESLIM\_001\_001\_078 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_spatial\_pattern

**Options:** as described for wt, patchy,

---

## tail skin texture ESLIM\_001\_001\_079 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_texture

**Options:** as described for wt, scaly,

---

## tail skin wetness ESLIM\_001\_001\_080 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_wetness

**Options:** as described for wt, dry, wet,

---

## tail skin color brightness ESLIM\_001\_001\_081 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_color\_brightness

**Options:** as described for wt, dark, light,

---

## tail skin relative color ESLIM\_001\_001\_082 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_relative\_color

**Options:** as described for wt, colorless, variable color,

---

## tail skin shape ESLIM\_001\_001\_083 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_shape

**Options:** as described for wt, loose,

---

## tail skin color ESLIM\_001\_001\_084 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_skin\_color

**Options:** as described for wt, abnormal color,

---

## head ESLIM\_001\_001\_085 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head

**Options:** as described for wt, abnormal,

---

## head abnormality description ESLIM\_001\_001\_086 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** head\_abnormality\_description

---

## head length ESLIM\_001\_001\_087 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_length

**Options:** wt distribution, decreased length, increased length,

---

## head width ESLIM\_001\_001\_088 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_width

**Options:** wt distribution, decreased width, increased width,

---

## head bone curvature ESLIM\_001\_001\_089 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_bone\_curvature

**Options:** wt distribution, domed,

---

## head bone symmetry ESLIM\_001\_001\_090 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** head\_bone\_symmetry

**Options:** as described for wt, asymmetrical,

---

## muzzle/snout ESLIM\_001\_001\_091 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** muzzlesnout

**Options:** normal, abnormal,

---

## **muzzle/snout length** ESLIM\_001\_001\_092 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** muzzlesnout\_length

**Options:** wt distribution, decreased length, increased length,

---

## **muzzle/snout width** ESLIM\_001\_001\_093 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** muzzlesnout\_width

**Options:** wt distribution, decreased width, increased width,

---

## **vibrissa hair** ESLIM\_001\_001\_094 | v1.0



simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vibrissa\_hair

**Options:** normal, abnormal,

---

## **vibrissa hair presence** ESLIM\_001\_001\_095 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vibrissa\_hair\_presence

**Options:** present, absent,

---

## **vibrissa hair curvature** ESLIM\_001\_001\_096 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vibrissa\_hair\_curvature

**Options:** wt distribution, increased curvature, decreased curvature,

---

## **vibrissa hair length** ESLIM\_001\_001\_097 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vibrissa\_hair\_length

**Options:** wt distribution, decreased length, increased length,

---

## **vibrissa hair orientation** ESLIM\_001\_001\_098 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vibrissa\_hair\_orientation

**Options:** as described for wt, disoriented/random,

---

## **upper lip shape** ESLIM\_001\_001\_099 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** upper\_lip\_shape

**Options:** as described for wt, cleft,

---

## lower lip shape ESLIM\_001\_001\_100 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: lower\_lip\_shape

Options: as described for wt, cleft,

---

## mouth ESLIM\_001\_001\_101 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: mouth

Options: as described for wt, abnormal,

---

## tooth ESLIM\_001\_001\_102 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: tooth

Options: as described for wt, abnormal,

---

## tooth morphology ESLIM\_001\_001\_103 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tooth\_morphology

**Options:** as described for wt, deformed,

---

## tooth presence ESLIM\_001\_001\_104 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tooth\_presence

**Options:** present, absent,

---

## tooth relative color ESLIM\_001\_001\_105 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tooth\_relative\_color

**Options:** as described for wt, discolored,

---

## **tooth size** ESLIM\_001\_001\_106 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tooth\_size

**Options:** wt distribution, decreased size, increased size,

---

## **upper jaw tooth + misaligned with + lower jaw tooth presence** ESLIM\_001\_001\_107 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** upper\_jaw\_tooth\_\_misaligned\_with\_\_lower\_jaw\_tooth\_presence

**Options:** absent, present,

---

## **ear** ESLIM\_001\_001\_108 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear

**Options:** as described for wt, left ear abnormal, right ear abnormal, bilaterally abnormal,

---

## ear position ESLIM\_001\_001\_109 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_position

**Options:** as described for wt, right ear decreased position, left ear decreased position, bilaterally decreased position,

---

## ear presence ESLIM\_001\_001\_110 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_presence

**Options:** present, left ear absent, right ear absent, bilaterally absent,

---

## ear shape ESLIM\_001\_001\_111 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_shape

**Options:** as described for wt, left ear folded, right ear folded, bilaterally folded, left ear pointed, right ear pointed, bilaterally pointed,

---

## ear size ESLIM\_001\_001\_112 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_size

**Options:** wt distribution, left ear decreased size, right ear decreased size, bilaterally decreased size, left ear increased size, right ear increased size, bilaterally increased size,

---

## ear rotation ESLIM\_001\_001\_113 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** ear\_rotation

**Options:** as described for wt, left ear anteriorly rotated, right ear anteriorly rotated, bilaterally anteriorly rotated, left ear posteriorly rotated, right ear posteriorly rotated, bilaterally posteriorly rotated,

---

## eye ESLIM\_001\_001\_114 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** eye

**Options:** as described for wt, left eye abnormal, right eye abnormal, bilaterally abnormal,

---

## eye opacity ESLIM\_001\_001\_115 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** eye\_opacity

**Options:** as described for wt, left eye opaque, right eye opaque, bilaterally opaque, left eye transparent, right eye transparent, bilaterally transparent,

---

## eye presence ESLIM\_001\_001\_116 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** eye\_presence

**Options:** present, left eye absent, right eye absent, bilaterally absent,

---



## eye size ESLIM\_001\_001\_117 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: eye\_size

Options: wt distribution, left eye decreased size, right eye decreased size, bilaterally decreased size, left eye increased size, right eye increased size, bilaterally increased size,

---

## eye wetness ESLIM\_001\_001\_118 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: eye\_wetness

Options: as described for wt, left eye wet, right eye wet, bilaterally wet,

---

## eye color ESLIM\_001\_001\_119 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: eye\_color

**Options:** as described for wt, left eye abnormal color, right eye abnormal color, bilaterally abnormal color,

---

## eyelid closure ESLIM\_001\_001\_120 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** eyelid\_closure

**Options:** as described for wt, left eyelid closed, right eyelid closed, bilaterally closed, left eyelid closure incomplete, right eyelid closure incomplete, bilateral closure incomplete,

---

## eyelid presence ESLIM\_001\_001\_121 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** eyelid\_presence

**Options:** bilaterally present, left eyelid absent, right eyelid absent, bilaterally absent,

---

## vagina ESLIM\_001\_001\_122 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vagina

**Options:** as described for wt, abnormal,

---

## **vagina abnormality description** ESLIM\_001\_001\_123 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** vagina\_abnormality\_description

---

## **vagina size** ESLIM\_001\_001\_124 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vagina\_size

**Options:** wt distribution, increased size, decreased size,

---

## **vagina presence** ESLIM\_001\_001\_125 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vagina\_presence

**Options:** present, absent,

---

**vagina structure** ESLIM\_001\_001\_126 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** vagina\_structure

**Options:** as described for wt, swollen,

---

**testis** ESLIM\_001\_001\_127 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** testis

**Options:** as described for wt, abnormal,

---

**testis abnormality description** ESLIM\_001\_001\_128 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: false

Description: testis\_abnormality\_description

---

## testis size ESLIM\_001\_001\_129 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: testis\_size

Options: wt distribution, increased size, decreased size,

---

## testis presence ESLIM\_001\_001\_130 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: testis\_presence

Options: present, absent,

---

## testis structure ESLIM\_001\_001\_131 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Description:** testis\_structure

**Options:** as described for wt, underdeveloped,

---

**forelimb** ESLIM\_001\_001\_132 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** forelimb

**Options:** as described for wt, left forelimb abnormal, right forelimb abnormal, bilaterally abnormal,

---

**forelimb abnormality description** ESLIM\_001\_001\_133 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** forelimb\_abnormality\_description

---

**forelimb size** ESLIM\_001\_001\_134 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** forelimb\_size

**Options:** wt distribution, left forelimb increased size, right forelimb increased size, bilaterally increased size, left forelimb decreased size, right forelimb decreased size, bilaterally decreased size,

---

## forelimb angle ESLIM\_001\_001\_135 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** forelimb\_angle

**Options:** as described for wt, left forelimb abnormal, right forelimb abnormal, bilaterally abnormal,

---

## forelimb flexibility ESLIM\_001\_001\_136 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** forelimb\_flexibility

**Options:** as described for wt, left forelimb inflexible, right forelimb inflexible, bilaterally inflexible,

---

## forelimb length

ESLIM\_001\_001\_137 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: forelimb\_length

Options: wt distribution, left forelimb increased length, right forelimb increased length, bilaterally increased length, left forelimb decreased length, right forelimb decreased length, bilaterally decreased length,

---

## forelimb thickness

ESLIM\_001\_001\_138 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: forelimb\_thickness

Options: as described for wt, left forelimb increased thickness, right forelimb increased thickness, bilaterally increased thickness, left forelimb decreased thickness, right forelimb decreased thickness, bilaterally decreased thickness,

---

## forelimb shape

ESLIM\_001\_001\_139 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: forelimb\_shape



**Options:** as described for wt, left forelimb abnormal, right forelimb abnormal,  
bilaterally abnormal,

---

## forelimb joint structure ESLIM\_001\_001\_140 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** forelimb\_joint\_structure

**Options:** as described for wt, left forelimb joint swollen, right forelimb joint swollen,  
bilaterally swollen,

---

## hand shape ESLIM\_001\_001\_141 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_shape

**Options:** as described for wt, left hand abnormal, right hand abnormal, bilaterally abnormal,

---

## hand size ESLIM\_001\_001\_142 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_size

**Options:** wt distribution, left hand decreased size, right hand decreased size, bilaterally decreased size, left hand increased size, right hand increased size, bilaterally increased size,

---

## hand length ESLIM\_001\_001\_143 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_length

**Options:** wt distribution, left hand decreased length, right hand decreased length, bilaterally decreased length, left hand increased length, right hand increased length, bilaterally increased length,

---

## hand structure ESLIM\_001\_001\_144 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_structure

**Options:** as described for wt, left hand swollen, right hand swollen, bilaterally swollen,

---

## hand footpad structure ESLIM\_001\_001\_145 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_footpad\_structure

**Options:** as described for wt, left hand footpad swollen, right hand footpad swollen, bilaterally swollen,

---

## hand digit count ESLIM\_001\_001\_146 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_digit\_count

**Options:** as described for wt, left hand digit decreased number, right hand digit decreased number, bilaterally decreased number, left hand digit increased number, right hand digit increased number, bilaterally increased number,

---

## hand digit thickness ESLIM\_001\_001\_147 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_digit\_thickness

**Options:** as described for wt, left hand digit decreased thickness,  
right hand digit decreased thickness, bilaterally decreased thickness,  
left hand digit increased thickness, right hand digit increased thickness,  
bilaterally increased thickness,

---

## hand digit presence ESLIM\_001\_001\_148 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_digit\_presence

**Options:** present, left hand digit absent, right hand digit absent, bilaterally absent,

---

## hand digit structure ESLIM\_001\_001\_149 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_digit\_structure

**Options:** as described for wt, left hand digit swollen, right hand digit swollen,  
bilaterally swollen,

---

## hand digit length ESLIM\_001\_001\_150 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hand\_digit\_length

**Options:** wt distribution, left hand digit length increased, right hand digit length increased, bilaterally length increased, left hand digit length decreased, right hand digit length decreased, bilaterally length decreased,

---

## hindlimb ESLIM\_001\_001\_151 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hindlimb

**Options:** as described for wt, left hindlimb abnormal, right hindlimb abnormal, bilaterally abnormal,

---

## hindlimb abnormality description ESLIM\_001\_001\_152 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** hindlimb\_abnormality\_description

---

## hindlimb size ESLIM\_001\_001\_153 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: hindlimb\_size

Options: wt distribution, left hindlimb increased size, right hindlimb increased size, bilaterally increased size, left hindlimb decreased size, right hindlimb decreased size, bilaterally decreased size,

---

## hindlimb angle ESLIM\_001\_001\_154 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: hindlimb\_angle

Options: as described for wt, left hindlimb abnormal, right hindlimb abnormal, bilaterally abnormal,

---

## hindlimb flexibility ESLIM\_001\_001\_155 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: hindlimb\_flexibility

**Options:** as described for wt, left hindlimb inflexible, right hindlimb inflexible, bilaterally inflexible,

---

## hindlimb length ESLIM\_001\_001\_156 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hindlimb\_length

**Options:** wt distribution, left hindlimb increased length, right hindlimb increased length, bilaterally increased length, left hindlimb decreased length, right hindlimb decreased length, bilaterally decreased length,

---

## hindlimb thickness ESLIM\_001\_001\_157 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** hindlimb\_thickness

**Options:** as described for wt, left hindlimb increased thickness, right hindlimb increased thickness, bilaterally increased thickness, left hindlimb decreased thickness, right hindlimb decreased thickness, bilaterally decreased thickness,

---

## hindlimb shape ESLIM\_001\_001\_158 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: hindlimb\_shape

Options: as described for wt, left hindlimb abnormal, right hindlimb abnormal, bilaterally abnormal,

---

## hindlimb joint structure ESLIM\_001\_001\_159 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: hindlimb\_joint\_structure

Options: as described for wt, left hindlimb joint swollen, right hindlimb joint swollen, bilaterally swollen,

---

## foot shape ESLIM\_001\_001\_160 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: foot\_shape

Options: as described for wt, left foot abnormal, right foot abnormal, bilaterally abnormal,

---



## foot size ESLIM\_001\_001\_161 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: foot\_size

**Options:** wt distribution, left foot decreased size, right foot decreased size, bilaterally decreased size, left foot increased size, right foot increased size, bilaterally increased size,

---

## foot length ESLIM\_001\_001\_162 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

Description: foot\_length

**Options:** wt distribution, left foot decreased length, right foot decreased length, bilaterally decreased length, left foot increased length, right foot increased length, bilaterally increased length,

---

## foot structure ESLIM\_001\_001\_163 | v1.0

simpleParameter

Req. Analysis: false

Req. Upload: false

Is Annotated: true

**Description:** foot\_structure

**Options:** as described for wt, left foot swollen, right foot swollen, bilaterally swollen,

---

## foot footpad structure ESLIM\_001\_001\_164 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_footpad\_structure

**Options:** as described for wt, left foot footpad swollen, right foot footpad swollen, bilaterally swollen,

---

## foot digit count ESLIM\_001\_001\_165 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_digit\_count

**Options:** as described for wt, left foot digit decreased number, right foot digit decreased number, bilaterally decreased number, left foot digit increased number, right foot digit increased number, bilaterally increased number,

---

## foot digit thickness ESLIM\_001\_001\_166 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_digit\_thickness

**Options:** as described for wt, left foot digit decreased thickness,  
right foot digit decreased thickness, bilaterally decreased thickness,  
left foot digit increased thickness, right foot digit increased thickness,  
bilaterally increased thickness,

---

## foot digit presence ESLIM\_001\_001\_167 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_digit\_presence

**Options:** present, left foot digit absent, right foot digit absent, bilaterally absent,

---

## foot digit structure ESLIM\_001\_001\_168 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_digit\_structure

**Options:** as described for wt, left foot digit swollen, right foot digit swollen, bilaterally swollen,

---

## foot digit length ESLIM\_001\_001\_169 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** foot\_digit\_length

**Options:** wt distribution, left foot digit length increased, right foot digit length increased, bilaterally length increased, left foot digit length decreased, right foot digit length decreased, bilaterally length decreased,

---

## nail presence ESLIM\_001\_001\_170 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** nail\_presence

**Options:** present, left nail absent, right nail absent, bilaterally absent,

---

## nail length ESLIM\_001\_001\_171 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** nail\_length

**Options:** wt distribution, left nail increased length, right nail increased length, bilaterally increased length,

---

**nail angle** ESLIM\_001\_001\_172 | v1.0

simpleParameter

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

**Description:** nail\_angle

**Options:** as described for wt, left nail straight angle, right nail straight angle, bilaterally straight angle,

---

**nail curvature** ESLIM\_001\_001\_173 | v1.0

simpleParameter

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

**Description:** nail\_curvature

**Options:** as described for wt, left nail curved, right nail curved, bilaterally curved,

---

**nail color brightness** ESLIM\_001\_001\_174 | v1.0

simpleParameter

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

**Description:** nail\_color\_brightness

**Options:** as described for wt, left nail dark, right nail dark, bilaterally dark, left nail light, right nail light, bilaterally light,

---

**tail** ESLIM\_001\_001\_175 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail

**Options:** as described for wt, abnormal,

---

**tail abnormality description** ESLIM\_001\_001\_176 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** false

**Description:** tail\_abnormality\_description

---

**tail presence** ESLIM\_001\_001\_177 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_presence

**Options:** present, absent,

---

**tail length** ESLIM\_001\_001\_178 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_length

**Options:** wt distribution, decreased length, increased length,

---

**tail width** ESLIM\_001\_001\_179 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_width

**Options:** wt distribution, decreased width, increased width,

---

**tail shape** ESLIM\_001\_001\_180 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_shape

**Options:** as described for wt, kinked,

---

**tail curvature** ESLIM\_001\_001\_181 | v1.0

simpleParameter

**Req. Analysis:** false

**Req. Upload:** false

**Is Annotated:** true

**Description:** tail\_curvature

**Options:** as described for wt, curved,

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