

# APPENDIX I

## LIST OF ALL LOCATION DESCRIPTIONS WITHOUT AND WITH AUGMENTATION

| Coarse          | Augmented Coarse   | Fine                                      | Augmented Fine  |
|-----------------|--|---|---|
| Skull           | in the skull, bone of the upper head   | Skull                                     | in the skull, bone of the upper head  |
|                 |  | Mastoid process L/R                       | in the left/right mastoid process, a part of the skull located behind the ear   |
|                 |  | Maxilla                                   | in the maxilla, the upper part of the jawbone located on both sides of the face   |
|                 |  | Mandible                                  | in the mandible, the lower part of the jawbone located on both sides of the face  |
|                 |  | Upper alveolar cavity                     | in the upper alveolar cavity, the middle part of the maxilla  |
|                 |  | Lower alveolar cavity                     | in the lower alveolar cavity, the middle part of the mandible   |
| Brain           | in the brain, located within the cranial cavity of the skull   | Brain                                     | in the brain, located within the cranial cavity of the skull  |
| Occipitalia L/R | in the left/right occipital region, on the rear side of the skull  | Occipital muscles                         | in the muscle at the rear side of the head, overlying the occipital bone  |
|                 |  | Occipital subcutaneous tissue             | in the skin and subcutaneous tissue at the rear side of the head, overlying the occipital bone                              |
| Face L/R        | in the left/right facial region, the front part of the head  | Face muscles                              | in the muscle of the facial region, covering the front surface of the head  |
|                 |  | Face subcutaneous tissue                  | in the skin and subcutaneous tissue of the facial region, covering the front surface of the head                            |
| Eye L/R         | in the left/right eye, situated in the anterior part of the head and within the orbital cavity of the skull          | Eye                                       | in the eye, situated in the anterior part of the head and within the orbital cavity of the skull                            |
| Ear L/R         | in the left/right ear on the left-/right side of the head  | Ear                                       | in the ear on the lateral sides of the head   |
| Nose            | in the nose, located in the central part of the face, between the eyes   | Nasal cavity L/R                          | in the left/right nasal cavity, a part of the nose extending from the nostrils to the nasopharynx                           |
|                 |  | Nasal sinus L/R                           | in the left/right nasal sinus, a part of the nose located in the ethmoid bone of the skull                                  |
| Tongue          | in the tongue within the oral cavity, extending from the floor of the mouth to the pharynx                           | Tongue                                    | in the tongue within the oral cavity, extending from the floor of the mouth to the pharynx                                  |
|                 |  | Tongue base                               | in the base of the tongue, the part closest to the throat   |
| Pharynx         | in the pharynx located in the middle of the neck, connecting the oral and nasal cavities to the larynx and esophagus | Nasopharynx                               | in the nasopharynx, a part of the pharynx, behind the nasal cavity, near the upper part of the throat                       |
|                 |  | Retropharyngeal region L/R                | in the left/right retropharyngeal region, on the left/right side at the back of the nasopharynx, in the back of the throat  |
|                 |  | Oropharynx                                | in the oropharynx, a part of the pharynx located behind the oral cavity   |
|                 |  | Tonsil L/R                                | in the left/right tonsil, located at the back of the oral cavity  |
|                 |  | Larynx                                    | in the larynx, a part of the pharynx located between tongue and trachea   |
| Neck L/R        | in the left/right neck region, between the lower jaw and the clavicle bone   | Neck                                      | in the neck region, between the lower jaw and the clavicle bone   |
|                 |  | Parapharyngeal region                     | in the parapharyngeal region of the neck, situated beside the pharynx   |
|                 |  | Neck muscles                              | in the neck muscle, located between the lower jaw and the clavicle bone   |
|                 |  | Neck subcutaneous tissue                  | in the skin and subcutaneous tissue of the neck, located between the lower jaw and the clavicle bone                        |
|                 |  | Parotid gland                             | in the parotid gland, located on both sides of the neck, below the ear  |
|                 |  | Submandibular gland                       | in the submandibular gland located on both sides of neck, below the lower jaw   |
|                 |  | Clavicle                                  | in the clavicle, the bone on the anterior side of the scapula, spanning the upper chest                                     |
|                 |  | Supraclavicular region                    | in the supraclavicular region of the neck, surrounding the clavicle   |
| Thyroid gland   | in the thyroid gland of the lower part of the neck, located between the larynx and the clavicle                      | Thyroid lobe L/R                          | in the left/right lobe of the thyroid gland located in the lower part of the neck and on the side of the trachea and larynx |
|                 |  | Thyroid isthmus                           | in the isthmus of the thyroid gland, connecting the right and left lobes of the thyroid gland                               |
| Axilla L/R      | in the left/right axilla, located below the shoulder joint, between the upper arm and the chest                      | Axilla                                    | in the axilla, located below the shoulder joint, between the upper arm and the chest  |
|                 |  | Inner side of the latissimus dorsi muscle | at the inner side of the latissimus dorsi muscle, located behind the axilla   |
| Breast L/R      | in the left/right breast, located in front of the chest, covering the pectoralis major muscle                        | Breast                                    | in the skin and subcutaneous tissue of the breast, in the front of the chest  |
|                 |  | Nipple                                    | in the nipple, on the surface of the breast, in the front of the chest  |
|                 |  | Mammary gland                             | in the mammary gland of the breast, in the front of the chest   |

| Coarse         | Augmented Coarse   | Fine                                      | Augmented Fine   |
|----------------|--|---|--|
| Chest L/R      | in the left/right chest region, located in the anterior and lateral chest, covering the chest wall | Chest muscles                             | in the muscle of the chest, located in the anterior and lateral chest                                  |
|                |  | Chest subcutaneous tissue                 | in the skin and subcutaneous tissue of the chest, in the anterior and lateral chest                    |
|                |  | Inner side of the pectoralis minor muscle | at the inner side of the pectoralis minor muscle of the chest wall                                     |
|                |  | Between the pectoralis major and minor    | in the muscle gap between the pectoralis major and pectoralis minor, in the chest wall region          |
|                |  | Chest wall                                | in the chest wall, located on the inner side of the chest region, covering the lung                    |
|                |  | Internal mammary region                   | in the internal mammary region of the chest wall, located between the posterior edge of ribs and lungs |
|                |  | Costophrenic angle                        | at the costophrenic angle of the chest wall, located between the diaphragm and the lower rib cage      |
|                |  | Sterncostal joint                         | in the sternocostal joint of the chest wall, located between the rib and the sternum                   |
|                |  | Sternoclavicular joint                    | in the sternoclavicular joint, connecting the sternum and the clavicle                                 |
|                |  | Vertebrael joint                          | in the vertebrael joint of the chest wall, located between the rib and the thoracic vertebrae          |
| Upper back L/R | in the left/right upper back on the posterior side of the thoracic cavity                          | Back muscles                              | in the muscle at the back of chest region  |
|                |  | Back subcutaneous tissue                  | in the skin and subcutaneous tissue in the back of chest region  |
| Mediastinum    | in the mediastinum of the middle thoracic cavity, between the lungs                                | Mediastinum 1R                            | in the right supraclavicular region of the mediastinum   |
|                |  | Mediastinum 1L                            | in the left supraclavicular region of the mediastinum  |
|                |  | Mediastinum 2R                            | in the paratracheal right upper region of the mediastinum  |
|                |  | Mediastinum 2L                            | in the paratracheal left upper region of the mediastinum   |
|                |  | Mediastinum 3A                            | in the prevascular region of the mediastinum   |
|                |  | Mediastinum 3P                            | in the retrotracheal region of the mediastinum   |
|                |  | Mediastinum 4R                            | in the paratracheal right lower region of the mediastinum  |
|                |  | Mediastinum 4L                            | in the paratracheal left lower region of the mediastinum   |
|                |  | Mediastinum 5                             | in the subarotic region of the mediastinum   |
|                |  | Mediastinum 6                             | in the paraaortic region of the mediastinum  |
|                |  | Mediastinum 7                             | in the subcarinal region of the mediastinum  |
|                |  | Mediastinum 8                             | in the paraesophageal region of the mediastinum  |
|                |  | Mediastinum 9                             | in the pulmonary ligament region of the mediastinum  |
|                |  | Pericardiophrenic region                  | in the pericardiophrenic region of the mediastinum, located between the pericardium and the diaphragm  |
|                |  | Lung hilum L/R                            | in the left/right pulmonary hilum, on the mediastinal surface of the lung                              |
|                |  | Esophagus                                 | in the esophagus, connecting the pharynx to the stomach  |
|                |  | Trachea                                   | in the trachea, extending from the larynx down to the bronchi in the chest                             |
|                |  | Aorta                                     | in the thoracic aorta, from the heart, through the chest cavity and abdominal cavity                   |
| Heart          | in the heart, between the lungs and behind the sternum   | Heart                                     | in the heart, between the lungs and behind the sternum   |
|                |  | Pericardium                               | in the pericardium within the middle mediastinum, enveloping the heart                                 |
| Lung L         | in the left lung within the thoracic cavity, situated on the left side of the mediastinum          | Apical Segment (S1)                       | at the apex of the left upper lobe, near the top of the lung   |
|                |  | Posterior Segment (S2)                    | in the posterior part of the left upper lobe, near the vertebral column                                |
|                |  | Anterior Segment (S3)                     | in the anterior part of the left upper lobe, near the sternum  |
|                |  | Lateral Segment (S4)                      | in the lateral part of the left upper lobe, near the lateral chest wall                                |
|                |  | Superior Lingular Segment (S5)            | in the superior part of the lingula, a small projection of the left upper lobe                         |
|                |  | Inferior Lingular Segment (S6)            | in the inferior part of the lingula, a small projection of the left upper lobe                         |
|                |  | Superior Segment (S7)                     | in the superior part of the left lower lobe, near the heart and mediastinum                            |
|                |  | Inferior Segment (S8)                     | in the inferior part of the left lower lobe, near the diaphragm  |
| Lung R         | in the right lung within the thoracic cavity, situated on the right side of the mediastinum        | Apical Segment (S1)                       | at the apex of the right upper lobe, near the top of the lung  |
|                |  | Posterior Segment (S2)                    | in the posterior part of the right upper lobe, near the vertebral column                               |
|                |  | Anterior Segment (S3)                     | in the anterior part of the right upper lobe, near the sternum   |
|                |  | Lateral Segment (S4)                      | in the lateral part of the right upper lobe, near the lateral chest wall                               |
|                |  | Medial Segment (S5)                       | in the medial part of the right middle lobe, near the heart and mediastinum                            |
|                |  | Lateral Segment (S6)                      | in the lateral part of the right middle lobe, near the lateral chest wall                              |
|                |  | Superior Anterior Basal Segment (S7)      | in the superior and anterior part of the right lower lobe, near the heart and mediastinum              |

| Coarse           | Augmented Coarse   | Fine                         | Augmented Fine  |
|------------------|--|------------------------------|---|
|                  |  | Anterior Basal Segment (S8)  | in the anterior part of the right lower lobe, near the sternum  |
|                  |  | Posterior Basal Segment (S9) | in the posterior part of the right lower lobe, near the vertebral column  |
|                  |  | Lateral Basal Segment (S10)  | in the lateral part of the right lower lobe, near the lateral chest wall  |
| Abdominal cavity | in the abdominal cavity, situated between the diaphragm and the pelvic cavity                                    | Abdominal cavity             | in the abdominal cavity, situated between the diaphragm and the pelvic cavity   |
|                  |  | Hepatogastric space          | between the liver and stomach, located in the upper abdominal cavity  |
|                  |  | Gastrosplenic space          | between the spleen and stomach, located in the upper left abdominal cavity  |
|                  |  | Peritoneum                   | in the peritoneum of the abdominal cavity, covering the abdominal organs  |
|                  |  | Mesentery                    | in the mesentery of the abdominal cavity, a double layer of peritoneum that attaches the intestines to the posterior abdominal wall |
| Retroperitoneum  | in the retroperitoneal region of the abdominal cavity, behind the peritoneum                                     | Retroperitoneum              | in the retroperitoneal region of the abdominal cavity, behind the peritoneum  |
|                  |  | Crus of diaphragm L/R        | in the left/right crus of diaphragm of the abdominal cavity, located on the left/right rear side of abdominal aorta                 |
|                  |  | Diaphragm L/R                | in the left/right diaphragm that separates the chest cavity from the abdominal cavity   |
|                  |  | Adrenal gland L/R            | in the left/right adrenal gland, on top of the kidney in the upper abdominal cavity   |
|                  |  | Ureter                       | in the ureter of the abdomen, connecting the kidney and urinary bladder   |
|                  |  | Aorta                        | in the abdominal aorta, beginning at the level of the diaphragm and passing through the aortic hiatus of the diaphragm              |
| Spleen           | in the spleen of the upper abdominal cavity, located below the diaphragm and behind the stomach                  | Spleen                       | in the spleen of the upper abdominal cavity, located below the diaphragm and behind the stomach                                     |
|                  |  | Splenic hilum                | in the splenic hilum of the upper abdominal cavity, located on the medial border of the spleen                                      |
|                  |  | Perisplenic region           | in the perisplenic region of the left upper abdominal cavity, surrounding the spleen  |
| Stomach          | in the stomach of the upper abdominal cavity, located below the diaphragm, between esophagus and small intestine | Stomach                      | in the stomach of the upper abdominal cavity, located below the diaphragm, between esophagus and small intestine                    |
|                  |  | Cardia                       | in the cardia, the lower end of the esophagus, located inferior to the diaphragm and connecting to the stomach                      |
|                  |  | Perigastric region           | in the perigastric region of the upper abdominal cavity, surrounding the stomach  |
| Liver            | in the liver of the upper right abdominal cavity, located below the diaphragm and above the stomach              | Liver S1                     | in the posterosuperior part of liver, adjacent to the inferior vena cava and the porta hepatis                                      |
|                  |  | Liver S2                     | in the superior part of the left hepatic lobe   |
|                  |  | Liver S3                     | in the anterior part of the left hepatic lobe   |
|                  |  | Liver S4                     | in the medial part of the left hepatic lobe   |
|                  |  | Liver S5                     | in the anterior and inferior part of the right hepatic lobe   |
|                  |  | Liver S6                     | in the posterior and inferior part of the right hepatic lobe  |
|                  |  | Liver S7                     | in the posterior and superior part of the right hepatic lobe  |
|                  |  | Liver S8                     | in the anterior and superior part of the right hepatic lobe   |
|                  |  | Porta hepatis                | in the porta hepatis of the upper right abdominal cavity, on the visceral surface of the liver                                      |
|                  |  | Perihepatic region           | in the perihepatic region, surrounding the liver in the upper right abdominal cavity  |
| Gallbladder      | in the gallbladder of the upper right abdominal cavity, located below the liver                                  | Gallbladder                  | in the gallbladder of the upper right abdominal cavity, located below the liver   |
| Pancreas         | in the pancreas, behind the stomach, between the small intestine and spleen                                      | Pancreas                     | in the pancreas, behind the stomach, between the small intestine and spleen   |
|                  |  | Peripancreatic region        | surrounding the pancreas, near the pancreas, stomach, small intestine and spleen  |
| Kidney L         | in the left kidney, below the diaphragm and above the spleen   | Kidney                       | in the kidney, located on both sides of the upper abdominal cavity, posterior to the peritoneum                                     |
|                  |  | Perirenal fascia             | in the perirenal fascia, surrounding the kidneys and the adrenal glands   |
| Kidney R         | in the right kidney, behind and below the liver  | Kidney                       | in the kidney, located on both sides of the upper abdominal cavity, posterior to the peritoneum                                     |
|                  |  | Perirenal fascia             | in the perirenal fascia, surrounding the kidneys and the adrenal glands   |
| Umbilicus        | in the umbilicus, located on the midline of the abdomen  | Umbilicus                    | in the umbilicus, located on the midline of the abdomen   |

| Coarse              | Augmented Coarse   | Fine                          | Augmented Fine   |
|---------------------|--|-------------------------------|--|
| Abdomen L/R         | in the abdominal region, covering the abdominal cavity   | Abdominal subcutaneous tissue | in the skin and subcutaneous tissue of the abdominal region  |
|                     |  | Abdominal wall                | in the abdominal wall, muscle of the abdominal region  |
| Large intestine     | in the large intestine of the abdominal cavity, connecting the small intestine and the anus                                      | Large intestine               | in the large intestine of the abdominal cavity, connecting the small intestine and the anus                                      |
|                     |  | Ileocecal region              | in the ileocecal region, the initial portion of the large intestine located in the right lower quadrant of the abdominal cavity  |
|                     |  | Appendix                      | in the appendix, at the junction of the small intestine and large intestine  |
|                     |  | Rectum                        | in the rectum, at the final section of the large intestine, connecting the colon to the anus                                     |
|                     |  | Anal canal                    | in the anal canal, the terminal part of the large intestine, connecting the rectum to the anus                                   |
| Small intestine     | in the small intestine of the abdominal cavity, between the stomach and the large intestine                                      | Small intestine               | in the small intestine of the abdominal cavity, between the stomach and the large intestine                                      |
| Lower back L/R      | in the left/right lower back on the posterior side of the abdominal cavity   | Back muscles                  | in the muscle at the back of abdomen region  |
|                     |  | Back subcutaneous tissue      | in the skin and subcutaneous tissue in the back of abdomen region  |
|                     |  | Lumbodorsal muscles           | in the muscle at the lumbar region or lower back area of the spine   |
| Pelvic cavity       | in the pelvic cavity, located below the abdominal cavity, surrounded by the pelvic bones   | Pelvic cavity                 | in the pelvic cavity, located below the abdominal cavity, surrounded by the pelvic bones   |
|                     |  | Iliac vessel L/R              | in the left/right iliac vessel in the pelvic cavity  |
|                     |  | Parailiac region L/R          | in the left/right parailiac region, located in the pelvis and lower abdomen, surrounding the iliac vessels                       |
|                     |  | Peritoneum                    | in the peritoneum of the pelvic cavity, covering the abdominal organs  |
|                     |  | Mesentery                     | in the mesentery of the pelvic cavity, a double layer of peritoneum that attaches the intestines to the posterior abdominal wall |
| Ureter              |  | Ureter                        | in the ureter of the abdomen, connecting the kidney and urinary bladder  |
|                     |  |                               |  |
| Urinary bladder     | in the urinary bladder of the pelvic cavity, above the pelvic bones  | Urinary bladder               | in the urinary bladder of the pelvic cavity, above the pelvic bones  |
|                     |  |                               |  |
|                     |  |                               |  |
|                     |  |                               |  |
|                     |  |                               |  |
| Reproductive system | in the reproductive system, in the pelvic cavity   | Prostate                      | in the prostate gland of the pelvic cavity, below the urinary bladder and surrounding the urethra                                |
|                     |  | Scrotum                       | in the scrotum, in front of the pelvic cavity, beneath the penis   |
|                     |  | Penis                         | in the penis, in front of the pelvic cavity, above the scrotum   |
|                     |  | Uterus                        | in the uterus of the pelvis cavity, between the urinary bladder and the rectum of the large intestine                            |
|                     |  | Adnexa L/R                    | in the left/right adnexa, on the left/right side of the uterus   |
| Urethra             | in the urethra, below the pelvic cavity  | Urethra                       | in the urethra, below the pelvic cavity  |
|                     |  | Vagina                        | in the female vagina of the pelvic cavity, between the urethra and the anus  |
| Inguinal region L/R | in the left/right inguinal region, in front of the pelvic cavity, connecting the thigh and the abdomen                           | Inguinal region               | in the inguinal region, in front of the pelvic cavity, connecting the thigh and the abdomen                                      |
| Vertebrae C1-C7     | in the 1st-7th cervical vertebrae, the upper part of the spine, on the posterior side of the upper/middle/lower neck             | Cervical Spine                | in the cervical vertebrae, the upper part of the spine, on the posterior side of the neck  |
|                     |  | Cervical Spinous process      | in the spinous process of the vertebrae at the posterior aspect of each cervical vertebrae                                       |
|                     |  | Cervical paravertebral area   | near the cervical vertebrae of the neck  |
| Vertebrae T1-T12    | in the 1st-12th thoracic vertebrae, the middle part of the spine, on the posterior side of the upper/middle/lower chest          | Thoracic Spine                | in the thoracic vertebrae, the middle part of the spine, on the posterior side of the chest                                      |
|                     |  | Thoracic Spinous process      | in the spinous process of the vertebrae at the posterior aspect of each thoracic vertebrae                                       |
|                     |  | Thoracic paravertebral area   | near the thoracic vertebrae, in the posterior chest  |
| Vertebrae L1-L6     | in the 1st-6th lumbar vertebrae, the lower part of the spine, on the posterior side of the upper/middle/lower abdomen            | Lumbar Spine                  | in the lumbar vertebrae, the lower part of the spine, on the posterior side of the abdomen                                       |
|                     |  | Lumbar Spinous process        | in the spinous process of the vertebrae at the posterior aspect of each lumbar vertebrae   |
|                     |  | Lumbar paravertebral area     | near the lumbar vertebrae, on the posterior side of the abdomen  |
| Rib L/R1-12         | in the 1st-12th left/right rib, the bone in the thoracic cavity, extending from the thoracic vertebrae to the front of the chest | Rib                           | in the rib, the bone in the thoracic cavity, extending from the thoracic vertebrae to the front of the chest                     |

| Coarse                | Augmented Coarse  | Fine                         | Augmented Fine  |
|-----------------------|---|------------------------------|---|
| Sternum               | in the sternum, the bone in the midline of the thoracic cavity  | Sternum                      | in the sternum, the bone in the midline of the thoracic cavity  |
|                       |   | Parasternal area             | near the sternum, in the anterior chest   |
| Hip bone L/R          | in the left/right hip bone located in the pelvis  | Ischium                      | in the ischium, the lower and posterior part of the hip bone, forming part of the hip socket            |
|                       |   | Paraishial area              | in the paraishial area, surrounding the ischium in the pelvic cavity                                    |
|                       |   | Pubis                        | in the pubis, the bone at the front of the pelvic, forming part of the hip socket                       |
|                       |   | Parapubic area               | in the parapubic area, surrounding the pubis in the pelvic cavity                                       |
|                       |   | Ilium                        | in the ilium, the bone at the upper part of the pelvis, forming part of the hip socket                  |
|                       |   | Para-iliac area              | in the para-iliac area, surrounding the ilium in the pelvic cavity                                      |
|                       |   | Sacroiliac joint             | in the sacroiliac joint of the pelvis, located between the sacrum and the ilium                         |
|                       |   | Hip joint                    | in the hip joint, connecting the femur and pelvis   |
| Sacrococcygeal region | in the sacrum and coccyx, bones in the pelvis, located below the lumbar vertebrae                                 | Sacrum                       | in the sacrum, the bone in the pelvis, between the lumbar vertebrae and the coccyx                      |
|                       |   | Coccyx                       | in the coccyx, the bone in the pelvis, below the sacrum at the end of the spinal column                 |
|                       |   | Paracoccygeal area           | in the paracoccygeal area, surrounding the coccyx in the pelvic cavity                                  |
| Shoulder L/R          | in the left/right shoulder, located between the upper arm and the chest   | Scapula                      | in the scapula, the bone in the shoulder and upper back, connecting the humerus with the clavicle       |
|                       |   | Shoulder muscles             | in the muscle of the shoulder, between the upper arm and the chest                                      |
|                       |   | Shoulder muscular intervals  | in the area between the muscles of the shoulder, located between the upper arm and the chest            |
|                       |   | Shoulder subcutaneous tissue | in the skin and subcutaneous tissue of the shoulder, located between the upper arm and the chest        |
|                       |   | Shoulder joint               | in the shoulder joint, connecting the scapula and the humerus   |
| Upper arm L/R         | in the left/right upper arm at the upper part of the upper limb, between the elbow joint and shoulder             | Arm muscles                  | in the muscle of the arm, located between the hand and shoulder   |
|                       |   | Arm muscular intervals       | in the area between the muscles of the arm, located between the hand and shoulder                       |
|                       |   | Arm subcutaneous tissue      | in the skin and subcutaneous tissue of the arm, located between the hand and shoulder                   |
|                       |   | Humerus                      | in the humerus, the bone in the upper arm, extending from the shoulder to the elbow                     |
| Elbow L/R             | in the left/right elbow, connecting the upper arm and the forearm   | Supratrochlear region        | in the supratrochlear region of the upper inner arm, located above the medial epicondyle of the humerus |
|                       |   | Elbow joint                  | in the elbow joint, connecting the humerus with the radius and ulna                                     |
| Forearm L/R           | in the left/right forearm at the lower part of the upper limb, located between the elbow joint and the hand       | Arm muscles                  | in the muscle of the arm, located between the hand and shoulder   |
|                       |   | Arm muscular intervals       | in the area between the muscles of the arm, located between the hand and shoulder                       |
|                       |   | Arm subcutaneous tissue      | in the skin and subcutaneous tissue of the arm, located between the hand and shoulder                   |
|                       |   | Ulna                         | in the ulna, the bone in the forearm, parallel to the radius  |
|                       |   | Radius                       | in the radius, the bone in the forearm, parallel to the ulna  |
| Hand L/R              | in the left/right hand, at the end of the upper limb  | Hand                         | in the hand, at the end of the upper limb   |
| Buttock L/R           | in the left/right buttock at the posterior side of the pelvis and hip joint, covering the hip bone and the sacrum | Buttock muscles              | in the muscle of the buttock, covering the hip bone and the sacrum                                      |
|                       |   | Buttock muscular intervals   | in the area between the muscles of the buttock, covering the hip bone and the sacrum                    |
|                       |   | Buttock subcutaneous tissue  | in the skin and subcutaneous tissue of the buttock, covering the hip bone and the sacrum                |
| Thigh L/R             | in the left/right thigh at the upper part of the lower limb, between the hip and the knee                         | Leg muscles                  | in the muscle of the leg, located between the hip and the ankle   |
|                       |   | Leg muscular intervals       | in the area between the muscles of the leg, located between the hip and the ankle                       |
|                       |   | Leg subcutaneous tissue      | in the skin and subcutaneous tissue of the leg, located between the hip and the ankle                   |
|                       |   | Femur                        | in the femur, the bone in the thigh, extending from the hip joint to the knee joint                     |
|                       |   | Parafemoral area             | in the parafemoral area, surrounding the femur, extending from the hip joint to the knee joint          |
| Knee L/R              | in the left/right knee at the middle lower limb, connecting the femur and the tibia                               | Patella                      | in the patella, the bone in front of the knee joint   |
|                       |   | Popliteal fossa              | in the popliteal fossa, at the back of the knee   |
|                       |   | Knee joint                   | in the knee joint, connecting the femur and the tibia   |

| Coarse        | Augmented Coarse  | Fine                    | Augmented Fine  |
|---------------|---|-------------------------|---|
| Lower leg L/R | in the left/right lower leg of the lower limb, located between the knee and the ankle | Leg muscles             | in the muscle of the leg, located between the hip and the ankle                       |
|               |   | Leg muscular intervals  | in the area between the muscles of the leg, located between the hip and the ankle     |
|               |   | Leg subcutaneous tissue | in the skin and subcutaneous tissue of the leg, located between the hip and the ankle |
|               |   | Fibula                  | in the fibula, the bone on the lateral side of the lower leg, parallel to the tibia   |
|               |   | Tibia                   | in the tibia, the bone on the inner side of the lower leg, parallel to the fibula     |
| Foot L/R      | in the foot, at the end of the left-/right lower limb, located below the lower leg    | Foot                    | in the foot, at the end of the lower limb, located below the lower leg                |
| Background    | outside the body  | Background              | outside the body  |

## APPENDIX II

### LIST OF LOCATION DESCRIPTIONS FOR ZERO-SHOT VALIDATION

| Coarse   | Augmented Coarse   | Fine            | Augmented Fine   |
|----------|--|-----------------|--|
| Stomach  | in the stomach of the upper abdominal cavity, located below the diaphragm, between esophagus and small intestine | Gastric fundus  | in the gastric fundus, the uppermost part of the stomach, located above the level of the cardia and to the left of the esophagus |
|          |  | Gastric body    | in the gastric body, the main part of the stomach, located between the gastric fundus and the pylorus                            |
|          |  | Antrum          | in the antrum, the lower part of the stomach, adjacent to the pylorus  |
|          |  | Pylorus         | in the pylorus, the lowest part of the stomach, connecting the stomach to the first part of the small intestine                  |
| Pancreas | in the pancreas, behind the stomach, between the small intestine and spleen                                      | Pancreatic head | in the pancreatic head, the right part of the pancreas, near the first part of the small intestine                               |
|          |  | Pancreatic body | in the pancreatic body, the middle part of the pancreas, located near the midline of the upper abdomen                           |
|          |  | Pancreatic tail | in the pancreatic tail, the left part of the pancreas, near the spleen   |