

Information

This is a 3D pediatric model of a 5 years old boy, created under the [ERROR](#) project.

File: Pediatric_model.mhd

Format: unsigned integer 16 (little endian)

Matrix size: 512×511×190

Voxel size: 0.976562×0.976562×3.27002 mm³

Organs: all the organs have a specific label as shown in Table below.

| Label | Organs |
|-------|------------------|
| 0 | Air |
| 1 | Muscle |
| 2 | Bone |
| 8 | Stomach Interior |
| 21 | Cartilage |
| 38 | Brain |
| 226 | Bladder |
| 218 | Gallbladder |
| 180 | Heart |
| 222 | Kidneys |
| 223 | Kidneys |
| 214 | Small Intestine |
| 213 | Large Intestine |
| 216 | Liver |
| 172 | Lung |
| 173 | Lung |
| 219 | Pancreas |
| 220 | Spleen |
| 211 | Stomach |
| 195 | Thymus |
| 138 | Eyes |
| 139 | Eyes |
| 140 | Skull |
| 170 | Trachea |

Acknowledgment

If you use this phantom in your studies, please refer to the following publication and to the ERROR project (<https://error.upatras.gr>):

P. Papadimitroulas et al., "A Review on Personalized Pediatric Dosimetry Applications Using Advanced Computational Tools," in IEEE Transactions on Radiation and Plasma Medical Sciences, vol. 3, no. 6, pp. 607-620, Nov. 2019, doi: 10.1109/TRPMS.2018.2876562.