

ISO/IEC 3532-1:2023-06 (E)

Information technology - Medical image-based modelling for 3D printing - Part 1: General requirements

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	1
3.1 Terms and definitions.....	1
3.2 Abbreviated terms.....	4
4 Overview of image processing for the medical industry	5
4.1 Process flow.....	5
4.1.1 3D printing process for medical applications.....	5
4.1.2 Explanation of a typical use case (cranial implant case).....	5
5 General requirements	6
6 Requirements of data processing	7
6.1 Medical image data flow.....	7
6.2 Medical image acquisition/computed tomography scan.....	8
6.3 Segmentation.....	9
6.4 3D reconstruction and visualization.....	11
6.5 Calibration and validation of 2D and 3D conversion.....	12
6.6 File format.....	13
Annex A (informative) Reporting	14
Bibliography	15