

ISO 19233-1:2017-05 (E)

Implants for surgery - Orthopaedic joint prosthesis - Part 1: Procedure for producing parametric 3D bone models from CT data of the knee

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions and abbreviated terms	1
4	Principles	2
5	Requirements	2
5.1	Imaging conditions	2
5.1.1	Medical imaging apparatus	2
5.1.2	Region of interest	2
5.1.3	Body position	3
5.1.4	Field of view (FOV)	3
5.1.5	Slice thickness and slice spacing	3
5.1.6	Reconstruction kernel	4
5.1.7	X-ray tube current	4
5.1.8	X-ray tube voltage	4
5.1.9	Precautions	4
5.1.10	Leg alignment	4
5.2	Software regulatory requirements	5
5.3	Generation of bone models	5
5.3.1	Segmentation methods for bone and cartilage region	5
5.3.2	3D reconstruction	6
5.3.3	Data format	6
Annex A (informative) Method of the software validation		7
Annex B (informative) CT scanning conditions		8
Bibliography		9