

ISO/TR 20896-2:2023-02 (E)

Dentistry - Digital impression devices - Part 2: Methods for assessing accuracy for implanted devices

Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Literature review	3
5 Assessment of accuracy	3
5.1 General	3
5.1.1 Clinical quality	3
5.1.2 Sources of uncertainty	4
5.1.3 Auxiliary methods	4
5.2 Accuracy	4
5.2.1 General	4
5.2.2 Trueness	4
5.2.3 Precision	5
5.2.4 External reliability	5
5.3 Test objects	5
5.3.1 General	5
5.3.2 Single implant	5
5.3.3 Multiple implants	5
5.4 Reference measurement of test objects	6
5.4.1 Calibrated measures of interest	6
5.4.2 Independent scanning device	6
5.5 Auxiliary devices	6
5.5.1 General	6
5.5.2 Calliper measurement	6
5.5.3 Extra-oral photogrammetry	6
6 Accuracy assessment methods	7
6.1 Measures of interest	7
6.1.1 General	7
6.1.2 Position of interest	7
6.2 Assessment of trueness	7
6.2.1 Single implant	7
6.2.2 Multiple implants	7
6.3 Assessment of precision	8
6.3.1 Repeated scanning procedures	8
6.3.2 Design analysis	8
6.4 Expression of accuracy	8
6.5 Assessment of reliability	8
7 Test report	9
7.1 General	9
7.2 Device	9
7.3 Test object	9
7.4 Test method	10
7.5 Test results	10
7.6 Test data	10

Annex A (Informative) Scan body for accuracy assessment.....	11
Annex B (informative) Test object — Single implant.....	13
Annex C (informative) Test object — Multiple implants	16
Annex D (informative) Guidance on evaluating precision and external reliability.....	18
Bibliography.....	22