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Dentistry — Guidance on colour measurement

Médecine bucco-dentaire — Directives relatives au mesurage de la couleur



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Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Visual and instrumental colour assessment	3
4.1 Devices.....	3
4.2 Setting.....	4
4.2.1 Illuminant.....	4
4.2.2 Standard observer.....	4
4.2.3 Geometric conditions.....	4
4.2.4 Illuminance.....	4
4.2.5 Visual angle of subtense.....	4
4.2.6 Background.....	4
4.2.7 Surround.....	4
4.2.8 Additional/other considerations.....	5
5 Observers	5
5.1 Evaluation of colour competency of candidate for observer in studies on acceptability or perceptibility in dentistry.....	5
5.1.1 Ishihara colour blindness test.....	5
5.1.2 Farnsworth-Munsell 100 hue test.....	5
5.1.3 Test for colour discrimination competency in dentistry.....	5
5.2 Guidelines for observer selection for acceptability or perceptibility evaluation in dentistry.....	5
5.2.1 General tests.....	5
5.2.2 Test for colour discrimination competency in dentistry.....	5
5.2.3 Testing intervals for qualified observers.....	6
6 Testing of acceptability and perceptibility thresholds	6
6.1 Tissues and materials to be tested for perceptibility and acceptability thresholds.....	6
6.2 Test methods.....	6
6.2.1 Visual judgments.....	6
6.2.2 Instrumental evaluation.....	6
7 Application and interpretation	6
7.1 Colour compatibility.....	7
7.1.1 Colour compatibility between dental material and human tissues.....	7
7.1.2 Colour compatibility between dental materials.....	7
7.1.3 Coverage error of dental shade guides.....	7
7.2 Colour stability.....	7
7.2.1 Colour stability during fabrication/at placement.....	7
7.2.2 Colour stability after aging and staining[12].....	7
7.3 Colour interactions.....	7
7.3.1 Colour shifting of aesthetic restorative materials[13][14].....	7
7.3.2 Masking potential of opaque materials.....	8
8 Reporting of colour and colour difference assessment	8
8.1 Illuminant.....	8
8.2 Object.....	8
8.3 Observer/instrument.....	8
8.3.1 Observer.....	8
8.3.2 Instrument.....	9
Bibliography	10

Foreword

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The committee responsible for this document is ISO/TC 106, *Dentistry*, Subcommittee SC 2, *Prosthetic materials*.

This second edition cancels and replaces the first edition (ISO/TR 28642:2011), which has been technically revised.

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Introduction

The colour appearance of teeth and other dentistry-related tissues need to be matched and reproduced in order to achieve acceptable aesthetics in an efficient manner. Three major groups of issues, related to colour compatibility, colour stability and colour interactions, are identified and considered in this document. Interpretation of colour differences associated with these three groups through 50:50 % perceptibility and acceptability visual thresholds is suggested. Colour is a psychophysical phenomenon that is assessed by both visual and instrumental methods. Other elements of appearance, including gloss and translucency, affect aesthetics and may influence the characterization of colour appearance.

The International Commission on Illumination (CIE) colour difference formulae and resources, in particular CIE Pub No 15.3, were used in this document.