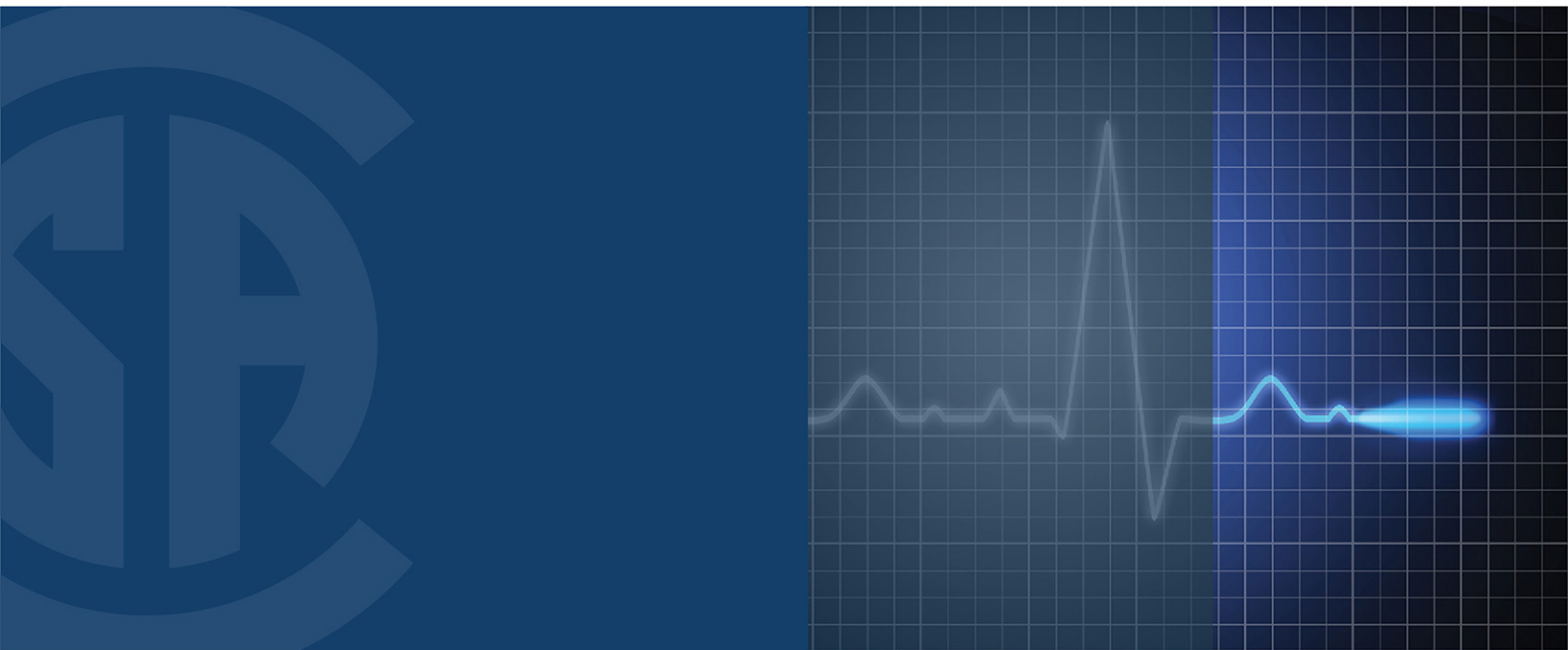




Safe use of lasers in health care



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Safe use of lasers in health care



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Contents

Technical Committee on Perioperative Safety	3
Subcommittee on Laser Safety in Health Care	6
Preface	8
0 Introduction	9
0.1 General	9
0.2 Copyright permissions	9
1 Scope	9
2 Reference publications	10
3 Definitions	11
4 Classification of lasers	13
5 Risk assessment — Hazards, risks, and control measures	14
5.1 Risk assessment	14
5.2 General requirements for controlling exposure	14
5.3 Laser beam-related hazards, risks, and control measures	15
5.3.1 Ocular	15
5.3.2 Skin	17
5.3.3 Fire and explosion	17
5.3.4 Plume and laser-generated air contaminant (LGAC)	19
5.4 Non-beam-related hazards, risks, and control measures	20
5.4.1 Infection	20
5.4.2 Gases, dyes, and liquid coolants	21
6 Responsibilities, education, training, and credentials	21
6.1 General	21
6.2 Administrative laser personnel	21
6.2.1 Laser safety committee (LSC)	21
6.2.2 Facility administration	22
6.3 Laser-specific personnel	23
6.3.1 Laser safety officer (LSO)	23
6.3.2 Laser user (LU)	25
6.3.3 Laser operator	26
6.4 Allied health personnel (health care personnel, observers, and trainees)	27
6.4.1 Health care personnel	27
6.4.2 Observers	28
6.4.3 Trainees	28
7 Administrative controls	29
7.1 General	29
7.2 Documentation	29

7.3	Indications for laser system shutdown	30
8	Other controls	31
8.1	NOHA delimitation	31
8.2	Laser-controlled area	31
8.2.1	Laser-controlled area procedures	31
8.2.2	Laser-controlled area surfaces	32
8.2.3	Laser storage	32
8.2.4	Laser-controlled area renovations and installations	32
8.3	Heating, ventilation, and air conditioning considerations	33
8.4	Laser equipment	33
8.5	Laser delivery devices	33
8.6	Laser instruments	33
8.7	Warning signs	33
9	Patient protection guidance	35
10	Acquisition, installation, and maintenance of health care lasers	35
10.1	Acquisition of health care lasers	35
10.2	Acceptance of health care lasers	37
10.3	Installation of health care lasers	38
10.4	Maintenance of health care lasers	38

Annex A (normative)	— Calculation of the NOHA	45
Annex B (informative)	— Standard operating procedures (SOPs)	50
Annex C (informative)	— Purchase considerations for health care facility equipment	51
Annex D (informative)	— Biological effects	53
Annex E (normative)	— Education and training of laser personnel	55

Preface

This is the fifth edition of CSA Z386, *Safe use of lasers in health care*. It supersedes the previous editions, published in 2014, 2008 under the title *Safe use of lasers in health care facilities*, and in 2001 and 1992 under the title *Laser Safety in Health Care Facilities*.

This Standard was prepared by the Subcommittee on Laser Safety in Health Care, under the jurisdiction of the Technical Committee on Perioperative Safety and the Strategic Steering Committee on Health and Well-being, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
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 - b) *provide an explanation of circumstances surrounding the actual field condition; and*
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 - b) *relevant clause, table, and/or figure number;*
 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

CSA Z386:20

Safe use of lasers in health care

0 Introduction

0.1 General

Health care lasers present unique hazards and risks not associated with other types of medical or surgical equipment. This Standard provides laser team members with the engineering, administrative, procedural, and control measures, as well as guidance on the selection and use of PPE, which is necessary for ensuring a safe operating environment and positive patient outcomes.

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1 Scope

1.1

This Standard provides guidance for the safe use of lasers in health care. It applies to all procedures in health care settings where health care lasers are used, including, but not limited to, the following:

- a) health care facilities;
- b) dental clinics, offices, and facilities;
- c) veterinary facilities;
- d) laboratories and other research facilities;
- e) physician offices;
- f) cosmetic and aesthetic treatment facilities;
- g) medical teaching facilities;
- h) medical professional exhibitions and trade shows; and
- i) medical laser servicing organizations.

1.2

This Standard presents the engineering, procedural, personal protective equipment, and administrative controls necessary to ensure the safety of persons at risk in the vicinity of a health care laser, based upon a risk assessment.

Note: *A risk assessment is a thorough analysis of the workplace to identify situations, processes, etc. that can cause harm. A risk assessment, performed before policies and procedures are developed, is useful for determining engineering, administrative, and procedural controls and work practices to reduce the risk of laser exposure through*

- a) *identification of hazards;*
- b) *analysis or evaluation of the risks associated with those hazards; and*
- c) *determining appropriate ways to eliminate or control the hazards.*