

ERRATUM

ICNIRP GUIDELINES ON LIMITS OF EXPOSURE TO LASER RADIATION OF WAVE LENGTHS BETWEEN 180 nm AND 1,000 nm: ERRATUM

TYPOGRAPHICAL ERRORS IN 2013 GUIDELINES

The labeling of the footnotes for Table 5 in the 2013 laser guidelines need to be amended as follows:

- Footnote reference b in the table at the position of “Aperture sizes^b” needs to be replaced by c.
- What is labeled in the table as “Visible^c” should be “Visible^d” to refer to the dual limit to protect the cornea.
- What is labeled in the table as “Photochemical^c” and “Thermal^c” should be “e” to refer to T_1 .

In Table 6, for short wavelength infrared radiation (IRR; wavelength range $700 \text{ nm} \leq \lambda < 1,400 \text{ nm}$), the line for times of 10 s to 30 ks is superfluous and needs to be deleted. Subsequently, the two lines for 0.25–10 s and 10–100 s can be combined as they are associated to the same limit. Table 6 of the 2013 guidelines is, for this wavelength range, replaced by the information given below in Table 1.

Table 1. Correction to Table 6 of *ICNIRP guidelines on limits of exposure to laser radiation of wavelengths between 180 nm and 1,000 μm* . Health Phys 105:271–295; 2013.

| Wavelength (nm) | Exposure duration | | Exposure limit |
|--|-------------------|-------------|---|
| | Lower limit | Upper limit | |
| Short wavelength IRR for $\alpha \geq \alpha_{\text{max}}$ | | | |
| $700 \leq \lambda < 1,400$ | 100 fs | 10 ps | $0.17 \text{ kJ m}^{-2} \text{ sr}^{-1}$ |
| $700 \leq \lambda < 1,400$ | 10 ps | 5.0 ms | $0.34 C_A C_C \text{ kJ m}^{-2} \text{ sr}^{-1}$ |
| $700 \leq \lambda < 1,400$ | 5.0 ms | 0.625 ms | $3.1 t^{0.75} C_A C_C \text{ MJ m}^{-2} \text{ sr}^{-1}$ |
| $700 \leq \lambda < 1,400$ | 0.625 ms | 0.25 s | $76 t^{0.25} C_A C_C \text{ kJ m}^{-2} \text{ sr}^{-1}$ |
| $700 \leq \lambda < 1,400$ | 0.25 s | 100 s | $0.15 t^{0.75} C_A C_C \text{ MJ m}^{-2} \text{ sr}^{-1}$ |
| $700 \leq \lambda < 1,400$ | 100 s | 30 ks | $47 C_A C_C \text{ kW m}^{-2} \text{ sr}^{-1}$ |

REFERENCE

International Commission on Non-Ionizing Radiation Protection. ICNIRP guidelines on limits of exposure to laser radiation of wavelengths between 180 nm and 1,000 μm . Health Phys 105:271–295; 2013.

The author declares no conflicts of interest.

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