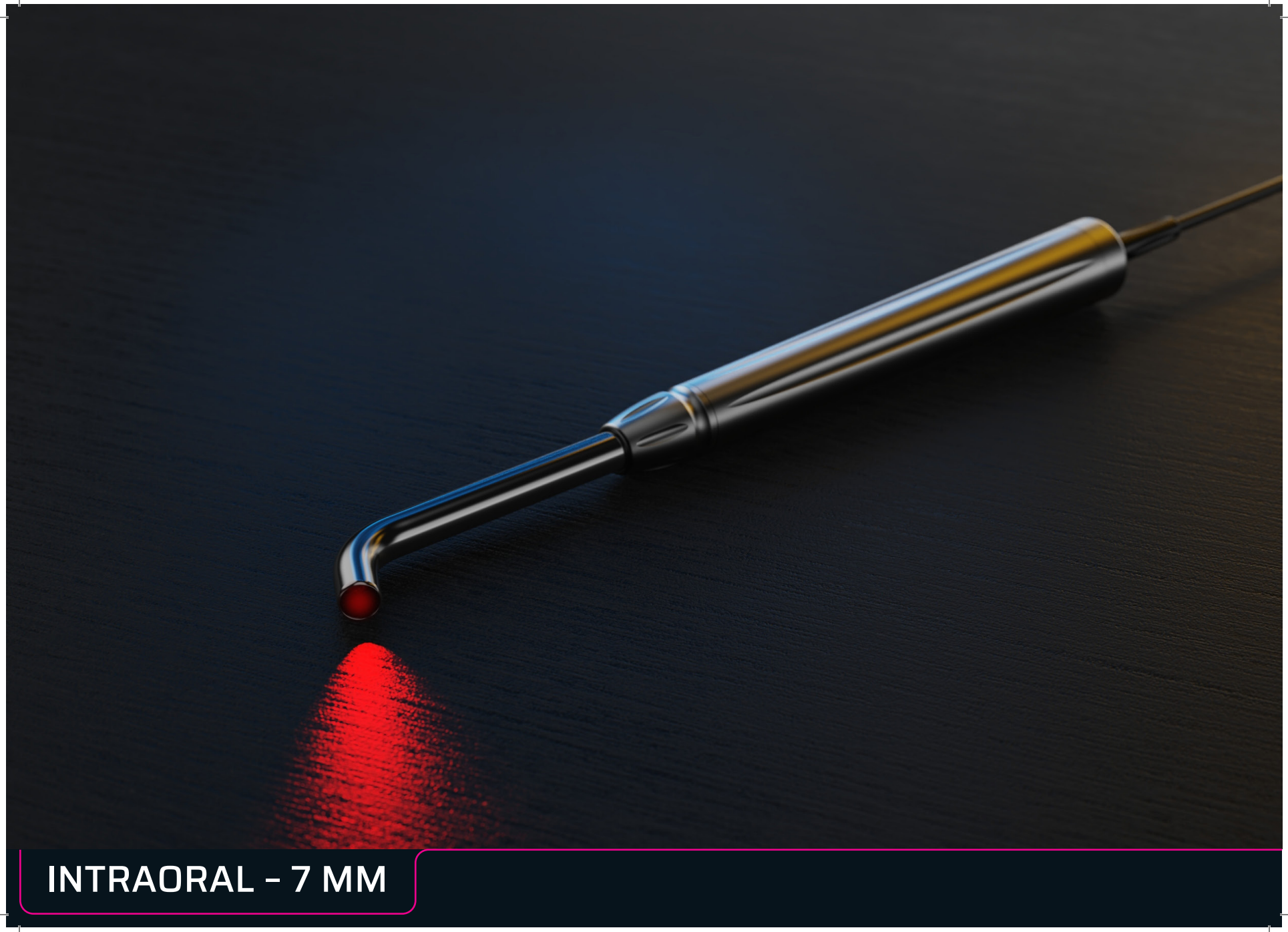
ULTRADENT



PHOTOBIOMODULATION PROTOCOLS



INTRAORAL – 7 MM

DENTIN HYPERSENSITIVITY

INCISORS, CANINES, PREMOLARS

INTRAORAL

7 mm

4 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (10 TOTAL SESSIONS / 2X/WEEK FOR 5 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **4 SECONDS**.

4 TREATMENT TECHNIQUE

Position the tip perpendicular to and in direct contact with the treatment area. Hold the 7 mm tip steady, in a fixed position, while activating the laser for the recommended treatment duration. For incisors, canines, and premolars, ensure application at two distinct locations: one at the cervical region and the other in the apical region.

KEY METRICS PER TREATMENT SPOT

Dose	**3.1** J/cm²	Power Density	**0.8** W/cm²
Energy	**1.2** J	Photon Fluence	**4.3** p.J/cm² | **1.0** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

DENTIN HYPERSENSITIVITY

MOLARS

INTRAORAL

7 mm

4 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (10 TOTAL SESSIONS / 2X/WEEK FOR 5 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **4 SECONDS**.

4 TREATMENT TECHNIQUE

Ensure that the tip is positioned perpendicular to and in contact with the treatment area. Hold the 7 mm tip steady, in a fixed position, while activating the laser for the recommended treatment duration. When treating molars, it is important to apply the laser at four distinct locations: the mesial cervical, distal cervical, mesial apical, and distal apical regions.

KEY METRICS PER TREATMENT SPOT

Dose	**3.1** J/cm²	Power Density	**0.8** W/cm²
Energy	**1.2** J	Photon Fluence	**4.3** p.J/cm² | **1.0** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

THIRD MOLAR EXTRACTION

PAIN RELIEF

INTRAORAL 7 mm

+

EXTRAORAL 25 mm

7 sec spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (3 TOTAL SESSIONS / 3X/WEEK FOR 1 WEEK)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **7 SECONDS**.

4 TREATMENT TECHNIQUE

Ensure the tip is placed directly in contact with the treatment area. Steadily hold the 7 mm tip in one position while activating the laser for the recommended treatment duration. Apply the first treatment spot on the vestibular gingiva in the vicinity of the extraction site, and the second treatment spot at the retromolar area on the upper portion of the gingiva. This procedure is strongly recommended for immediate post-surgery care on the first and second days following the surgical procedure. For optimal pain relief, it is recommended to also apply the 25 mm protocol treatment for third molar extraction.

KEY METRICS PER TREATMENT SPOT

Dose	**5.5** J/cm²	Power Density	**0.8** W/cm²
Energy	**2.1** J	Photon Fluence	**7.6** p.J/cm² | **1.7** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

3rd MOLAR EXTRACTION
Pain Relief

CANKER SORE

HEALING & PAIN RELIEF

INTRAORAL

7 mm

15 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (3 TOTAL SESSIONS / 3X/WEEK FOR 1 WEEK)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **15 SECONDS**.

4 TREATMENT TECHNIQUE

For optimal results, it is advisable to apply photobiomodulation treatment 2 to 3 times a week, if feasible. The best outcomes are typically attained when treatments commence on the 1st and 2nd days upon the onset of the lesion. The quantity of spot treatments required may vary depending on the size and number of ulcers. It is recommended to administer photobiomodulation around the entire ulcer and its margins during the treatment process.

KEY METRICS PER TREATMENT SPOT

Dose	**11.7** J/cm²	Power Density	**0.8** W/cm²
Energy	**4.5** J	Photon Fluence	**16.3** p.J/cm² | **3.6** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

ORAL LICHEN PLANUS

HEALING

INTRAORAL

7 mm

4 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (12 TOTAL SESSIONS / 3X/WEEK FOR 4 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **4 SECONDS**.

4 TREATMENT TECHNIQUE

When treating erosive or ulcerative lesions, it is important to apply the treatment to each lesion, ensuring comprehensive coverage of both the lesion itself and its margins within the oral cavity. Optimal results are obtained when the entire ulcer and the surrounding margin area are thoroughly covered during the treatment.

KEY METRICS PER TREATMENT SPOT

Dose	**3.1** J/cm²	Power Density	**0.8** W/cm²
Energy	**1.2** J	Photon Fluence	**4.4** p.J/cm² | **1.0** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

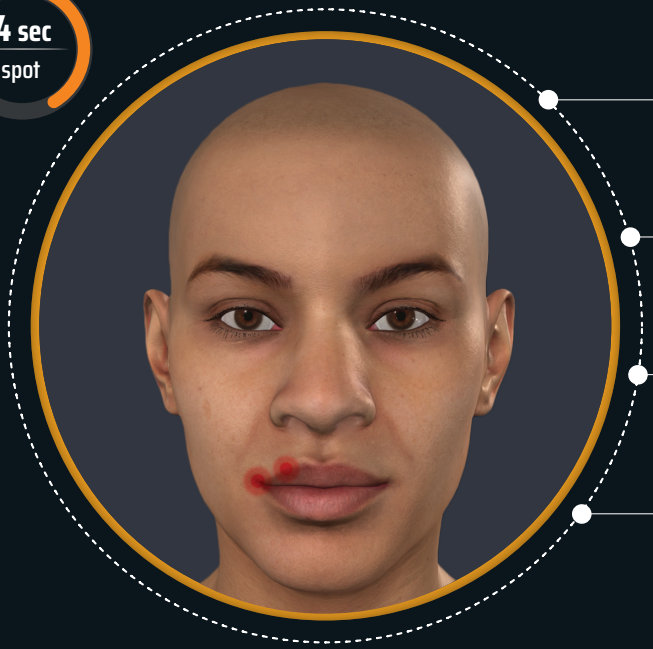
HERPES LABIALIS

HEALING

INTRAORAL

7 mm

4 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (2 TOTAL SESSIONS / 2X/WEEK FOR 1 WEEK)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **4 SECONDS**.

4 TREATMENT TECHNIQUE

Photobiomodulation should be administered over the treatment area.
For optimal efficacy, this treatment should be conducted on two consecutive days.
The quantity of treatment spots required may vary based on the size of the lesion.

KEY METRICS PER TREATMENT SPOT

Dose	**3.1** J/cm²	Power Density	**0.8** W/cm²
Energy	**1.2** J	Photon Fluence	**4.4** p.J/cm² | **1.0** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

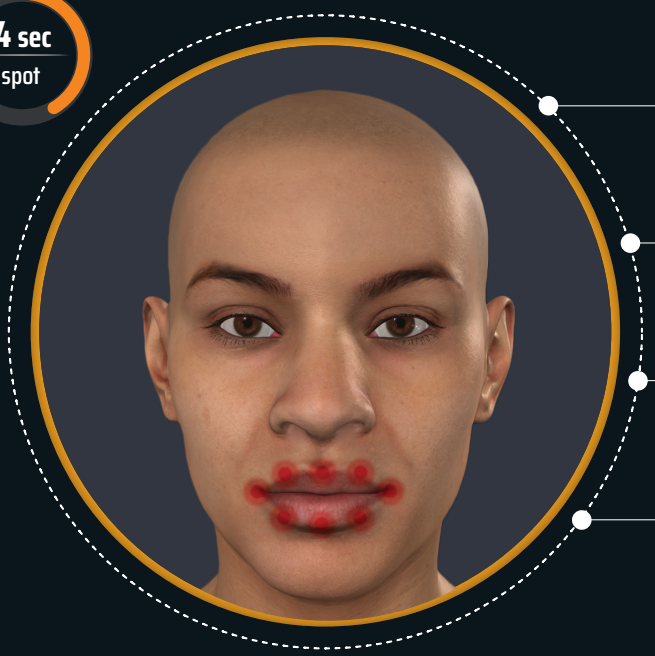
HERPES LABIALIS

PREVENTION

INTRAORAL

7 mm

4 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (10 TOTAL SESSIONS / 2X/WEEK FOR 5 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **4 SECONDS**.

4 TREATMENT TECHNIQUE

This protocol is designed for preventative purposes. Photobiomodulation treatment should be applied precisely over the upper labial area, covering a total of 3 spots. Subsequently, the lower labial area should also be treated, encompassing an additional 3 spots. Additionally, ensure coverage of 2 spots at the comissures, including the transition to the dermis and the labial area.

KEY METRICS PER TREATMENT SPOT

Dose	**3.1** J/cm²
Energy	**1.2** J
Power Density	**0.8** W/cm²
Photon Fluence	**4.4** p.J/cm² | **1.0** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

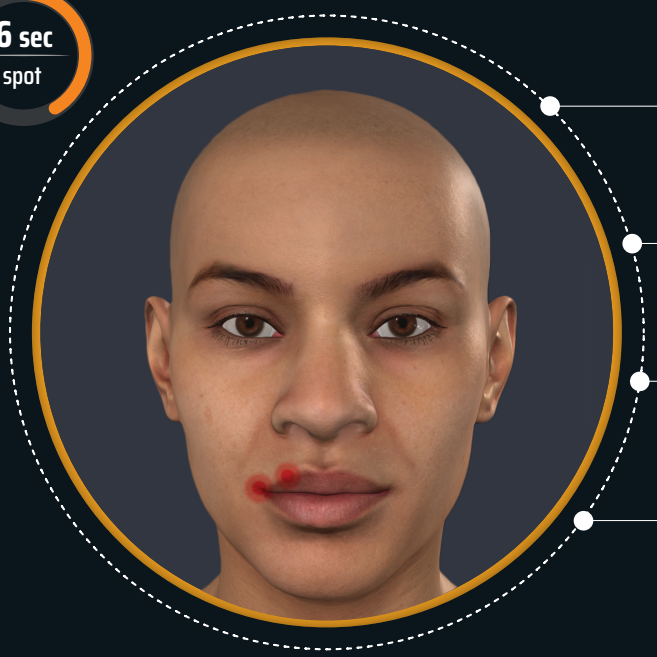
HERPES LABIALIS

PRODROME / EARLY STAGES

INTRAORAL

7 mm

6 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **7 mm** (0.3 W / 0.38 cm² spot size) PBM tip to laser handpiece.

3 TREATMENT TIME - (1 TOTAL SESSION / 1X/WEEK FOR 1 WEEK)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **6 SECONDS**.

4 TREATMENT TECHNIQUE

The photobiomodulation treatment should be precisely applied to the area exhibiting tingling or redness. This is a one-time treatment. The quantity of treatment spots required may vary depending on the size of the affected area. If blisters develop in the area, it is imperative not to apply photobiomodulation, as it could stimulate virus growth. In the event of blister rupture, the recommended course of action is to apply the Herpes Labialis - Healing protocol.

KEY METRICS PER TREATMENT SPOT

Dose	**4.7** J/cm²	Power Density	**0.8** W/cm²
Energy	**1.8** J	Photon Fluence	**6.5** p.J/cm² | **1.4** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.



EXTRAORAL – 25 MM

THIRD MOLAR EXTRACTION

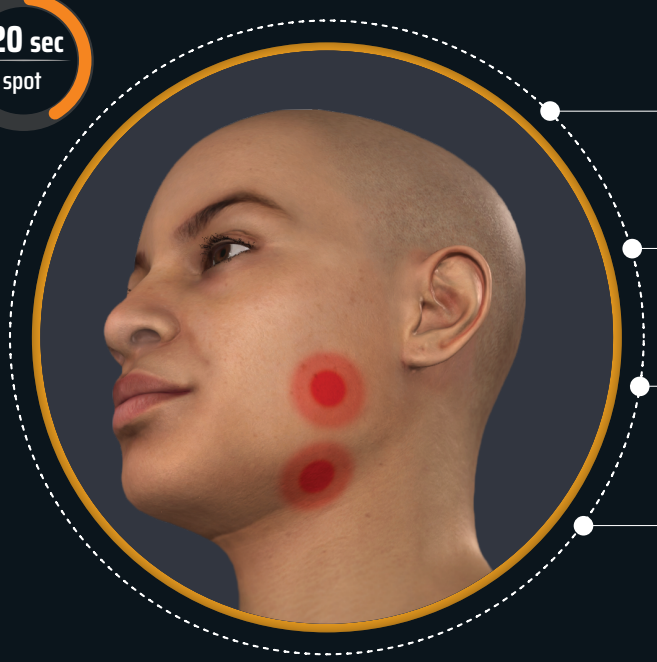
PAIN RELIEF

EXTRAORAL 25 mm

+

INTRAORAL 7 mm

20 sec spot



1

WAVELENGTH MODE

Select **DUAL wavelength** mode.

2

TIP SELECTION

Attach **25 mm** (1 W / 4.91 cm^2 spot size) PBM tip to laser handpiece.
To ensure proper use, apply PBM spacer to the **25 mm** tip.

3

TREATMENT TIME - (3 TOTAL SESSIONS / 3X/WEEK FOR 1 WEEK)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **20 SECONDS**.

4

TREATMENT TECHNIQUE

Position the tip in direct contact with the treatment area. Steadily hold the 25 mm tip at the emergence of the masseter muscle as your first treatment spot, and then at the submandibular area for the second treatment spot. For optimal pain relief, it is recommended to also apply the 7 mm protocol treatment for third molar extraction.

KEY METRICS PER TREATMENT SPOT

Dose	**4.07** J/cm^2	Power Density	**0.2** W/cm^2
Energy	**20.0** J	Photon Fluence	**5.7** p.J/cm^2 | **1.2** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

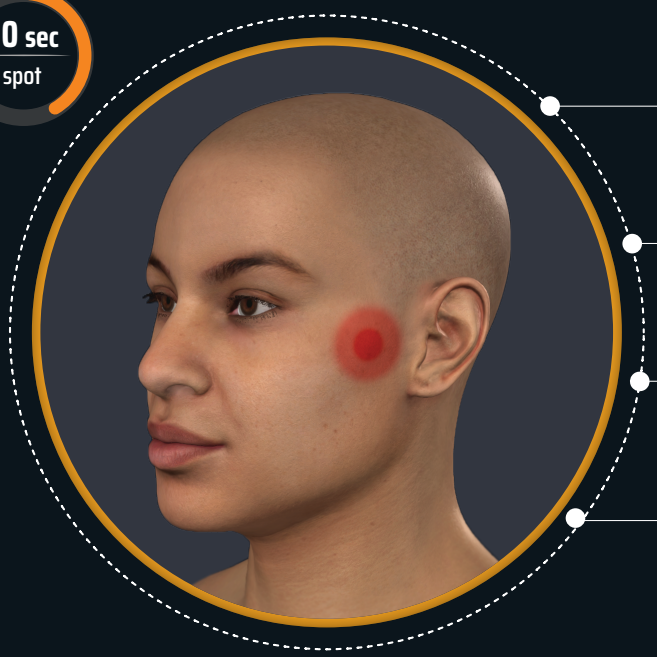
TEMPOROMANDIBULAR DISORDERS

ARTHROGENIC

EXTRAORAL

25 mm

10 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **25 mm** (1 W / 4.91 cm^2 spot size) PBM tip to laser handpiece.
To ensure proper use, apply PBM spacer to the **25 mm** tip.

3 TREATMENT TIME - (10 TOTAL SESSIONS / 2X/WEEK FOR 5 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **10 SECONDS**.

4 TREATMENT TECHNIQUE

For arthrogenic treatment, position tip directly in contact with the TMJ muscle causing discomfort.

KEY METRICS PER TREATMENT SPOT

Dose	**2.0** J/cm^2	Power Density	**0.2** W/cm^2
Energy	**10.0** J	Photon Fluence	**2.8** p.J/cm^2 | **0.6** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

TMJ DISORDERS
Arthrogenic

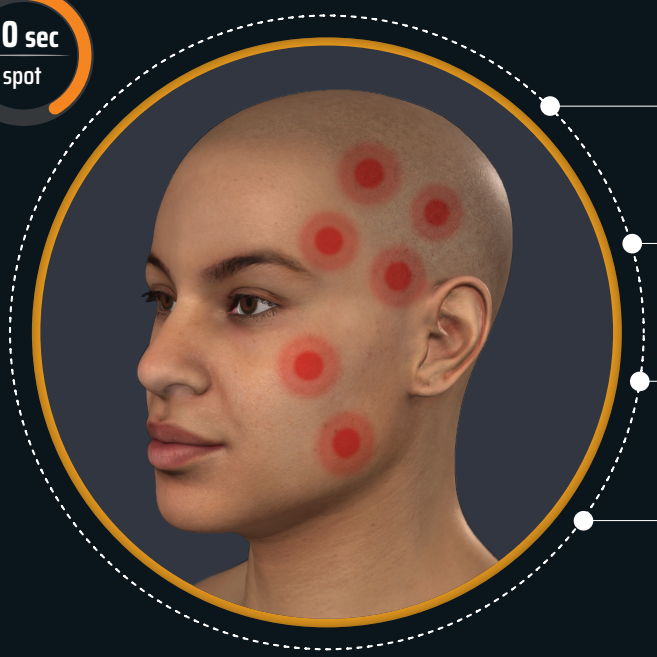
TEMPOROMANDIBULAR DISORDERS

MYOGENIC

EXTRAORAL

25 mm

10 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **25 mm** (1 W / 4.91 cm^2 spot size) PBM tip to laser handpiece.
To ensure proper use, apply PBM spacer to the **25 mm** tip.

3 TREATMENT TIME - (10 TOTAL SESSIONS / 2X/WEEK FOR 5 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **10 SECONDS**.

4 TREATMENT TECHNIQUE

When treating myogenic conditions, it is necessary to apply treatment to four spots on the temporal muscle and two spots on the masseter muscle, totaling six spots.

KEY METRICS PER TREATMENT SPOT

Dose	**2.0** J/cm^2
Energy	**10.0** J
Power Density	**0.2** W/cm^2
Photon Fluence	**2.8** p.J/cm^2 | **0.6** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

TMJ DISORDERS
Myogenic

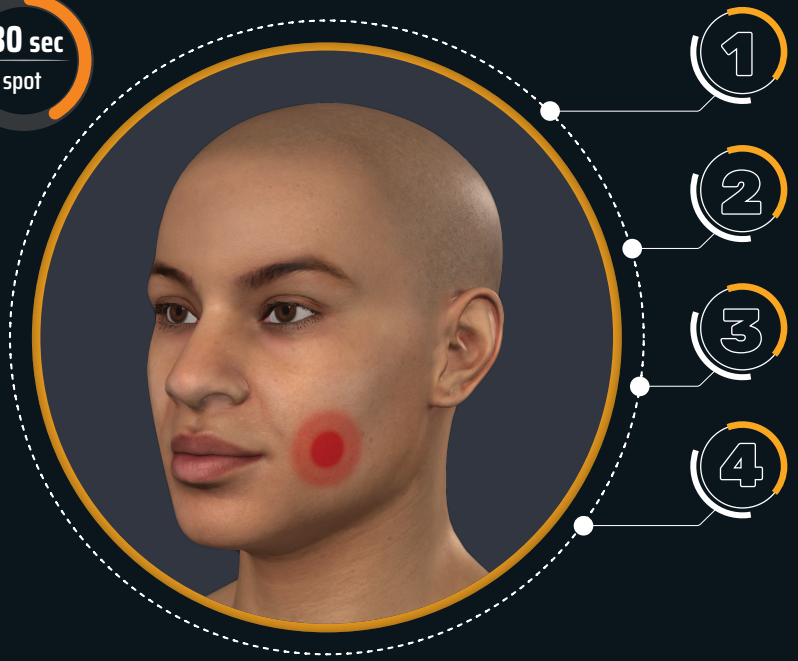
ORAL LICHEN PLANUS

HEALING

EXTRAORAL

25 mm

30 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **25 mm** (1 W / 4.91 cm^2 spot size) PBM tip to laser handpiece.
To ensure proper use, apply PBM spacer to the **25 mm** tip.

3 TREATMENT TIME - (12 TOTAL SESSIONS / 3X/WEEK FOR 4 WEEKS)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **30 SECONDS**.

4 TREATMENT TECHNIQUE

Administer treatment extra-orally on the skin, targeting the area corresponding to the oral lesion. If the lesion is located at the border of the tongue, instruct the patient to touch the tongue against the buccal mucosa. The most favorable outcomes are achieved when the entire lesion area is comprehensively covered during the treatment.

KEY METRICS PER TREATMENT SPOT

Dose	**6.1** J/cm^2	Power Density	**0.2** W/cm^2
Energy	**30.0** J	Photon Fluence	**8.5** p.J/cm^2 | **1.9** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

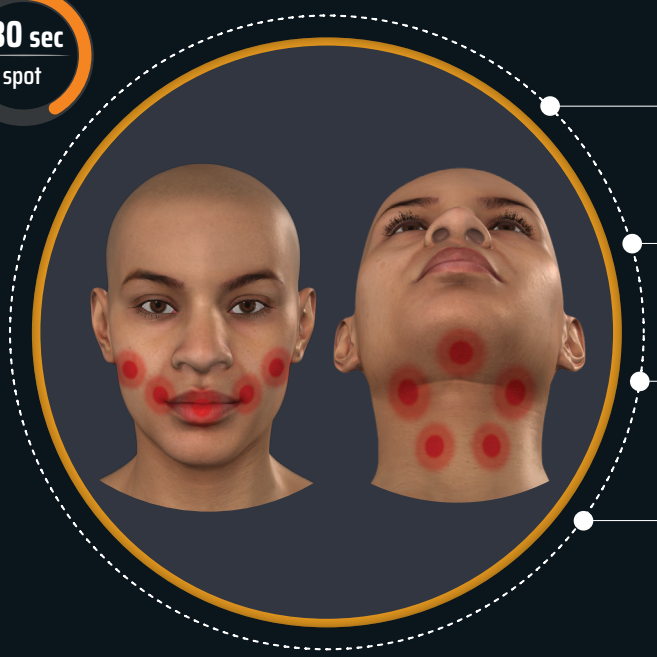
ORAL MUCOSITIS

HEALING

EXTRAORAL

25 mm

30 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **25 mm** (1 W / 4.91 cm^2 spot size) PBM tip to laser handpiece.
To ensure proper use, apply PBM spacer to the **25 mm** tip.

3 TREATMENT TIME - (EVERY DAY / 7X/WEEK FOR THE TREATMENT DURATION)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **30 SECONDS**.

4 TREATMENT TECHNIQUE

This treatment should be performed daily for patients undergoing head and neck radiotherapy or cycles of chemotherapy.

KEY METRICS PER TREATMENT SPOT

Dose	**6.1** J/cm^2
Energy	**30.0** J
Power Density	**0.2** W/cm^2
Photon Fluence	**8.5** p.J/cm^2 | **1.9** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

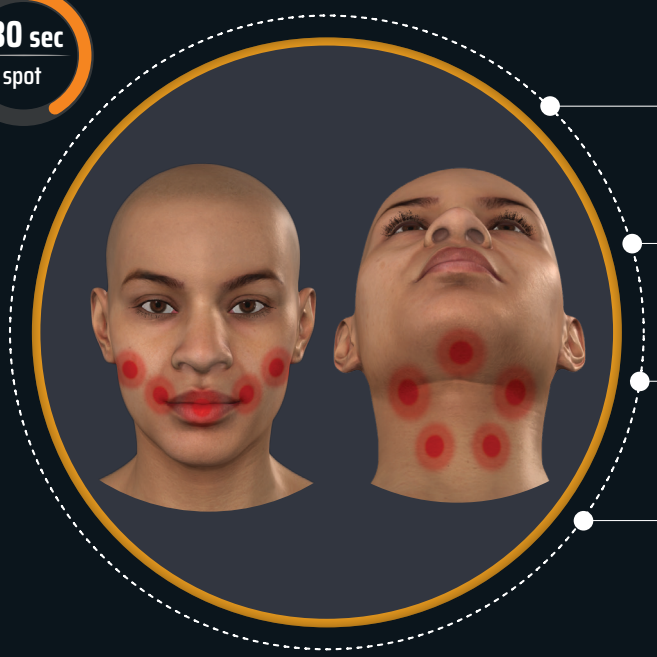
ORAL MUCOSITIS

PREVENTION

EXTRAORAL

25 mm

30 sec
spot



1 WAVELENGTH MODE

Select **DUAL wavelength** mode.

2 TIP SELECTION

Attach **25 mm** (1 W / 4.91 cm^2 spot size) PBM tip to laser handpiece.
To ensure proper use, apply PBM spacer to the **25 mm** tip.

3 TREATMENT TIME - (EVERY DAY / 7X/WEEK FOR THE TREATMENT DURATION)

For consistent results, the tip should be applied and not moved during the protocol treatment time. Each spot should be treated for **30 SECONDS**.

4 TREATMENT TECHNIQUE

This treatment should be performed daily for patients undergoing head and neck radiotherapy or cycles of chemotherapy.

KEY METRICS PER TREATMENT SPOT

Dose	**6.1** J/cm^2	Power Density	**0.2** W/cm^2
Energy	**30.0** J	Photon Fluence	**8.5** p.J/cm^2 | **1.9** einstein

To listen to this protocol, scan the **QR code** below with your mobile phone.

DENTIN HYPERSENSITIVITY

Is photobiomodulation (PBM) effective for the treatment of dentin hypersensitivity? A systematic review

Alana Cristina Machado - Ítallo Emídio Lira Viana - Aloisio Melo Farias-Neto - Mariana Minatel Braga - Carlos de Paula Eduardo - Patricia Moreira de Freitas - Ana Cecilia Corrêa Aranha - https://doi.org/10.1007/s10103-017-2403-7 (Lasers in Medical Science (2018) 33:745–753)

Photobiomodulation therapy and 3% potassium nitrate gel as treatment of cervical dentin hypersensitivity: a randomized clinicatrial trial

Andrea Barros Tolentino · Livia Favaro Zeola · Marcella Rodrigues Ueda Fernandes · Claudio Mendes Pannuti · Paulo Vinícius Soares · Ana Cecilia Correa Aranha - https://doi.org/10.1007/s00784-022-04652-1 (Clinical Oral Investigations (2022) 26:6985–6993)

3RD MOLAR EXTRACTION

Low-level laser therapy is effective in controlling postoperative pain in lower third molar extractions: a systematic review and meta-analysis:

Daiane Domingos de Barros - Josefa Simere dos Santos Barros Catão - Alieny Cristina Duarte Ferreira - Thamyres Maria Silva Simões Renata de Albuquerque Cavalcanti Almeida - Maria Helena Chaves de Vasconcelos Catão - (Lasers in Medical Science (2022) 37:2363–2377) - https://doi.org/10.1007/s10103-021-03470-3

Assessment of Low-Level Laser Therapy Effects After Extraction of Impacted Lower Third Molar Surgery

Shahrokh Raiesian - Mehdi Khani - Kazem Khiabani - Ershad Hemmati - Mohammad Pouretezad - (J Lasers Med Sci 2017 Winter;8(1):42-45) - http://journals.sbmu.ac.ir/jlms

The Effects of Transcutaneous and Intraoral Low-Level Laser Therapy After Extraction of Lower Third Molars:

A Randomized Single Blind, Placebo Controlled Dual-Center Study Sevil Altundag Kahraman, DDS, PhD - Sedat Cetiner, DDS, PhD and Robert A. Strauss, DDS, MD, FACS (Photomedicine and Laser Surgery Volume 35, Number 8, 2017)

TMJ

Comparative effectiveness of photobiomodulation and manual therapy alone or combined in TMD patients: a randomized clinical trial

Fernanda Thomé BROCHADO - Luciano Henrique de JESUS - Vinicius Coelho CARRARD - Angelo Luiz FREDDO - Karen Dantur CHAVES-Manoela Domingues MARTINS - https://www.scielo.br/j/bor/a/SBJRkrpYnCTmzZhnRTprssd/?lang=en (Braz. Oral Res. 2018;32:e50)

Photobiomodulation in Temporomandibular Disorders

Jan Tuner, DDS - Sepanta Hosseinpour, DDS, MPH, PhD, - Reza Fekrazad, DDS, PhD, FLD, FICD Photobiomodulation, Photomedicine, and Laser Surgery Volume 37, Number 12, 2019 DOI: 10.1089/photob.2019.4705

CANKER SORE

Recurrent aphthous stomatitis and pain management with low-level laser therapy: a randomized controlled trial

Margit Albrektson - Lennart Hedström, DDS, MDS - Håkan Bergh, MD, PhD (Vol. 117 No. 5 May 2014) Public Dental Services Varberg, Varberg, Sweden; Research & Development Unit, County of Halland, Halmstad, Sweden

Laser therapy for recurrent aphthous stomatitis: an overview

Juliana Amorim dos Santos - Ana Gabriela Costa Normando - Isabela Porto de Toledo - Gilberto Melo - Graziela De Luca Canto - Alan Roger Santos-Silva - Eliete Neves Silva Guerra (Springer-Verlag GmbH Germany, part of Springer Nature 2019) https://doi.org/10.1007/s00784-019-03144-z

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HERPES LABIALIS

Photobiomodulation for Preventive Therapy of Recurrent Herpes Labialis: A 2-Year In Vivo Randomized Controlled Study.
Photobiomodul Photomed Laser Surg. 2022 Oct;40(10):682-690. doi: 10.1089/photob.2022.0054. Epub 2022 Oct 10.
Paola Aragon Zanella, Luiz Fernando Onuchic, Elieser Hotoshi Watanabe, Luciane Hiramatsu Azevedo, Ana Cecilia Aranha, Karen Muller Ramalho, Carlos de Paula Eduardo.

APPLICATION OF SOFT LASER IN THE TREATMENT OF HERPES LABIALIS - pilot study
Marija Bojović - Ljiljana Kesić - Goran Jovanović - Nikola Burić - Zvezdan Savić - Radmila Obradović - Milica S. Petrović doi: 10.5937/asn1469342B - (Jun June 2014, Vol. 30, br./num. 69 str./p. 1342-1347)

Efficacy of low-level laser therapy in management of recurrent herpes labialis: a systematic review
Sadeq Ali Al-Maweri - Butchibabu Kalakonda - Nader Ahmed AlAizari - Walid A. Al-Soneidar - Sajna Ashraf - Saleem Abdulrab - Eman Saleh Al-Mawri - (Lasers in Medical Science (2018) 33:1423–1430)
https://doi.org/10.1007/s10103-018-2542-5

ORAL MUCOSITIS

Phase III trial of low-level laser therapy to prevent oral mucositis in head and neck cancer patients treated with concurrent chemoradiation
Heliton S. Antunes - Daniel Herchenhorn - Isabele A. Small - Carlos M.M. Araújo - Celia Maria Pais Viégas - Elida Cabral d, Mariana P. Rampini - Pedro C. Rodrigues - Tereza G.P. Silva - Elza M.S. Ferreira - Fernando L. Dias - Carlos G. Ferreira
https://www.thegreenjournal.com/article/S0167-8140(13)00391-5/fulltext

Intra oral versus extra oral photobiomodulation therapy in the prevention of oral mucositis in HSCT patients: a randomized, single-blind, controlled clinical trial
Mariana Bitu Ramos-Pinto - Teresa Paula de Lima Gusmão - Jayr Schmidt-Filho - Graziella Chagas Jaguar - Manoela Domingues Martins - Fábio Abreu Alves (Supportive Care in Cancer (2021) 29:6495–6503)
https://doi.org/10.1007/s00520-021-06228-3

Photobiomodulation therapy in management of cancer therapy-induced side effects: WALT position paper 2022
Jolien Robijns - Raj G. Nair - Joy Lodewijckx - Praveen Arany - Andrei Barasch - Jan M. Bjordal - Paolo Bossi - Anne Chilles - Patricia M. Corby - Joel B. Epstein - Sharon Elad - Reza Fekrazad - Eduardo Rodrigues Fregnani - Marie-Therese Genot - Ana M. C. Ibarra - Michael R. Hamblin - Vladimir Heiskanen - Ken Hu - Jean Klastersky - Rajesh Lalla - Sofia Latifian - Arun Maiya - Jeroen Mebis - Cesar A. Migliorati - Dan M. J. Milstein - Barbara Murphy - Judith E. Raber-Durlacher - Hendrik J. Roseboom - Stephen Sonis - Nathaniel Treister Yehuda Zadik - Rene-Jean Bensadoun - "Cancer Supportive Care" WALT Working Group (DOI 10.3389/fonc.2022.927685)
https://www.frontiersin.org/journals/oncology/articles/10.3389/fonc.2022.927685/full

ORAL LICHEN PLANUS

The effects of photodynamic and low-level laser therapy for treatment of oral lichen planus—A systematic review and meta-analysis
Hasan Hoseinpour Jajarm - Reza Asadi - Erfan Bardideh - Hooman Shafaee - Yeganeh Khazaei - Maryam Emadzadeh Photodiagnosis and Photodynamic Therapy 23 (2018) 254–260 https://doi.org/10.1016/j.pdpdt.2018.07.001

A Comparative Pilot Study of Low Intensity Laser versus Topical Corticosteroids in the Treatment of Erosive-Atrophic Oral Lichen Planus
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