

Table S1. Characteristics of the studies

Study and year of publication	Country	Study design	sample size (baseline)	Follow-up	Source of funding.
Al- Kheraif et al. 2022 [26]	Saudi Arabia	RCT Split mouth	N=29 (23 male, 6 female) 14 Cigarette-smokers and 15 Non-smokers with Stage III Periodontitis Mean age for cigarette smokers $42.2 \pm 3.8$ and Mean age for non-smokers $40.5 \pm 2.6$	6 months	Research Supporting Project number (RSP- 2021/31), King Saud University, Riyadh, Saudi Arabia.
Al- Kheraif et al. 2022 [25]	Saudi Arabia	RCT Split mouth	N=26 (23 male, 3 female) 13 Cigarette-smokers and 13 Non-smokers with Stage II Periodontitis Mean age for cigarette smokers $45.2 \pm 4.8$ and Mean age for non-smokers $43.5 \pm 3.6$	6 months	Research Supporting Project number (RSP- 2021/31), King Saud University, Riyadh, Saudi Arabia.
AlAhmari et al. 2019 [24]	Saudi Arabia	RCT Patients' assignment	N=83 (83 male) 42 Cigarette-smokers with CP and 41 Non-smokers with CP Mean age for cigarette smokers $46.8 \pm 3.2$ and Mean age for non-smokers $46.9 \pm 2.82$	3 months	Supported by International Scientific Partnership Program ISPP at King Saud University, Riyadh, Saudi Arabia ISPP#0075.
De Melo Soares et al. 2019 [21]	Brazil	RCT Split mouth	N=22 (6 male, 16 female) Age Range to 39- 61 years Mean age of study $48 \pm 6.4$ only smoking patients	90 days	Funding The fiber tips and photosensitizers were donated by helbo (bredent medical GmbH & Co KG, Walldorf, Germany).
Theodoro et al. 2018 [20]	Brazil	RCT Split mouth	N=51(35 male, 16 female) Age range to 30 – 70 years Mean age of study $48 \pm 5$ only smoking patients	180 days	Supported in part by FAPESP (“Support Foundation of São Paulo Research” Process # 2013/05424-3) and the CNPq (National Counsel of Technological and Scientific Development – Process 302806/2012-1) and ProInter/UNESP (Process # 2016-1346).
Queiroz et al. 2015 [27]	Brazil	RCT Split mouth	N=20 (9 male, 11 female) Age Range to 55 years Mean age of study $46.05 \pm 6.38$ only smoking patients	12 weeks	Supported by grants from the São Paulo State Research Foundation (grant2009/15845-0)
Queiroz et al. 2014 [28]	Brazil	RCT Split mouth	N= 20(9 male, 11 female) Age Range to 55 years Mean age of study $46.05 \pm 6.38$ only smoking patients	12 weeks	Supported by grants from the São Paulo State Research Foundation (grant2009/15845-0)
Al-Zahrani et al. 2011 [29]	Saudi Arabia	RCT split-mouth	N=20 (20 male, 0 female) Age Range to 30- 56 years Mean age of the study $41.6 \pm 9.6$ only smoking patients	3 months	This study was supported by a grant from King Abdulaziz City for Science and Technology, Riyadh, Kingdom of Saudi Arabia (Grant No.LGP-14-32).