

Supplementary materials

Influence of Tooth-Brushing on Early Healing after Access Flap Surgery: A Randomized Controlled Preliminary Study

Carlo Bertoldi ^{1,*}, Luigi Generali ^{1,*}, Pierpaolo Cortellini ², Michele Lalla ³, Sofia Luppi ⁴, Aldo Tomasi ¹, Davide Zaffe ^{5,*}, Roberta Salvatori ⁶ and Stefania Bergamini ¹

¹ Department of Surgery, Medicine, Dentistry and Morphological Sciences with Transplant Surgery, Oncology and Regenerative Medicine Relevance, University of Modena and Reggio Emilia, 41124 Modena, Italy; aldo.tomasi@unimore.it (A.T.); stefania.bergamini@unimore.it (S.B.)

² The European Research Group on Periodontology (ERGOPerio), 3855 Brienzen - Bern, Switzerland; sandro@cortellini.org

³ Department of Economics Marco Biagi, University of Modena and Reggio Emilia, 41121 Modena, Italy; michele.lalla@unimore.it

⁴ Independent Researcher, 41124 Modena, Italy; sofialuppi@outlook.it

⁵ Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia, 41125 Modena, Italy

⁶ Biomaterials Laboratory, Department of Medical and Surgical Sciences of Children and Adults, University of Modena and Reggio Emilia, 41124 Modena, Italy; roberta.salvatori@unimore.it

* Correspondence: carlo.bertoldi@unimore.it (C.B.); luigi.general@unimore.it (L.G.); davide.zaffe@unimore.it

Table S1. Groups A, B and C indices at baseline.

A Group	CL	DR	IA	AP	IF	RG	GI	SC	NM	GC
FMPS	19.2	15	13.4	17.3	15	14.9	16.6	23.1	13.5	18.7
FMBS	8.7	14	11.6	9.6	12.5	5.5	3.2	7.4	13.5	12.5
PPD	4	1	2	5	4	3	4	3	6	4
	2	1	2	3	2	2	2	1	3	2
	4	4	4	6	4	5	4	6	3	4
	4	4	5	7	4	5	4	7	3	4
	2	1	3	4	3	2	2	1	3	2
	4	1	2	5	4	3	3	4	5	5
REC	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	0	0	0
	1	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	0	0	0
	0	0	0	0	0	1	0	0	0	0
CAL	4	1	2	5	4	3	4	3	6	4
	2	1	2	3	2	2	3	1	3	2
	5	4	4	6	4	5	4	6	3	4
	5	4	5	7	4	5	4	7	3	4
	2	1	3	4	3	3	3	1	3	2
	4	1	2	5	4	4	3	4	5	5
BoP	0	0	1	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	1	0	1	0	0	1	0	0
	0	0	0	1	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	0	0	0	1
B group	LS	RG	AC	GF	LM	LC	TC	MZ	AD	PI
FMPS	10	13.6	13	17.2	18.5	15.3	21	10	17.1	16.7
FMBS	3	11.5	9	10.4	13	5.8	2	14.4	7.9	9.3

PPD	2	4	5	2	8	4	4	6	5	4
	3	3	4	2	2	3	4	3	3	2
	4	4	3	4	9	4	5	2	6	4
	4	4	3	5	8	5	3	2	6	4
	2	3	3	3	3	3	4	3	3	2
	2	4	5	2	6	4	2	6	5	4
REC	0	0	0	0	1	0	0	0	3	1
	0	0	0	1	1	0	0	0	4	1
	0	1	0	0	1	0	0	0	3	1
	0	0	0	0	3	0	0	0	1	1
	0	0	0	0	2	0	0	0	1	1
	0	0	0	0	1	0	0	0	1	1
CAL	2	4	5	2	9	4	4	6	8	5
	3	3	4	3	3	3	4	3	7	3
	4	5	3	4	10	4	5	2	9	5
	4	4	3	5	11	5	3	2	7	5
	2	3	3	3	5	3	4	3	4	3
	2	4	5	2	7	4	2	6	6	5
BoP	0	0	0	0	1	0	0	1	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	0	0	0	0	0
	0	1	0	0	1	1	0	1	0	0
	0	0	0	0	0	0	0	1	0	0
	0	0	0	1	0	0	0	1	0	0
C group	AC	AB	IM	MS	TF	FI	ES	CP	LZ	AC
FMPS	14.1	10.8	15	10.4	16.6	17.8	12	17.1	13	12.5
FMBS	10.9	10	7	5.2	10	13.4	12	13.5	11.1	10.9
PPD	5	4	4	5	5	7	1	8	4	5
	4	2	2	3	4	6	5	5	2	3
	9	5	4	4	4	6	8	3	4	5
	9	5	4	4	5	6	7	7	3	8
	5	2	2	3	1	5	1	8	2	8
	5	3	4	4	4	8	2	8	4	7
REC	0	0	0	0	1	0	0	3	0	0
	0	0	0	3	0	0	0	4	0	0
	0	0	0	1	0	0	0	4	0	0
	0	0	0	0	0	0	0	3	0	0
	0	0	0	0	0	0	0	3	0	0
	0	0	0	0	0	0	0	3	0	0
CAL	5	4	4	5	6	7	1	11	4	5
	4	2	2	6	4	6	5	9	2	3
	9	5	4	5	4	6	8	7	4	5
	9	5	4	4	5	6	7	10	3	8
	5	2	2	3	1	5	1	11	2	8
	5	3	4	4	4	8	2	11	4	7
BoP	0	0	1	0	1	1	0	1	0	0
	0	0	0	0	0	0	1	0	0	0
	1	1	1	0	1	1	0	0	0	0
	1	0	1	0	1	1	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	0	1	0	0

FMPS and FMBS are expressed as a %; PPD, REC and CAL are expressed as mm; BoP: presence = 1, absence = 0. PPD, REC, CAL and BoP respective -MB, -B, -DB, -DL, -L and -ML measurements are reported on the 6 consecutive lines (from top to bottom)

Table S2. Groups A, B and C indices at 3 months after surgery.

A Group	CL	DR	IA	AP	IF	RG	GI	SC	NM	GC
GFMPs	16.3	16.6	16.3	16	17.5	8.3	14.8	13.9	11.1	15.6
FMBS	8.7	11.1	12	10	15	6.7	4.6	9.3	9.3	14.1
PPD	1	1	1	3	1	2	2	2	2	1
	1	1	1	1	1	1	1	1	1	1
	1	1	1	3	1	2	2	3	2	1
	1	1	2	2	2	2	2	3	2	1
	1	1	1	1	1	1	1	1	2	1
	1	1	1	3	1	2	1	3	3	1
REC	1	1	1	0	2	2	1	0	1	2
	1	1	1	0	2	2	2	0	0	2
	1	1	1	0	2	2	1	0	0	2
	1	1	2	0	1	1	0	0	0	1
	1	1	2	0	1	2	1	0	0	1
	1	1	1	0	1	1	0	0	0	1
CAL	2	2	2	3	3	4	3	2	3	3
	2	2	2	1	3	3	3	1	1	3
	2	2	2	3	3	4	3	3	2	3
	2	2	4	2	3	3	2	3	2	2
	2	2	3	1	2	3	2	1	2	2
	2	2	2	3	2	3	1	3	3	2
BoP	0	0	0	1	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	1	1	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
B group	LS	RG	AC	GF	LM	LC	TC	MZ	AD	PI
FMPS	11.5	13	13.3	15.3	16.3	11.1	14.3	9.6	15.7	10.2
FMBS	5.7	10.9	8.3	9.6	11.3	9.2	7.1	11.5	10.12	8.3
PPD	2	2	3	2	3	2	1	3	2	2
	1	1	2	1	2	1	1	2	2	1
	2	2	3	2	3	2	1	1	2	2
	1	2	2	2	3	2	1	2	2	1
		1	2	2	2	1	1	1	2	1
	2	2	2	2	3	2	1	3	2	1
REC	1	1	1	0	2	0	1	2	1	1
	1	1	1	1	2	1	1	1	2	2
	2	2	0	0	2	0	1	0	2	1
	2	1	0	0	3	0	1	0	1	1
	1	1	0	0	3	0	1	0	1	2
	0	1	1	0	2	0	1	0	1	1
CAL	3	3	4	2	5	2	2	5	3	3
	2	2	3	2	4	2	2	3	4	3
	4	4	3	2	5	2	2	1	4	3
	3	3	2	2	6	2	2	2	3	2
	2	2	2	2	5	1	2	1	3	3
	2	3	3	2	5	2	2	3	3	2

BoP	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
C group	AC	AB	IM	MS	TF	FI	ES	CP	LZ	AC
FMPS	12.5	11.4	16.6	10	13	12.5	14.2	18.7	16.1	17.2
FMBS	9.2	7.8	7.5	6.2	9.3	8.9	9.5	15.5	12.5	12.5
PPD	2	2	2	2	2	2	1	3	2	2
	2	1	1	1	2	1	3	3	1	1
	3	2	2	2	2	2	3	3	3	1
	3	2	2	2	3	3	2	3	2	1
	2	1	2	2	2	1	1	3	1	1
	2	2	2	2	2	3	2	3	1	2
REC	1	1	1	1	0	0	0	4	0	0
	1	1	0	3	0	1	1	4	0	0
	1	1	1	2	0	0	1	4	0	0
	0	0	0	0	0	0	0	4	0	3
	1	1	0	0	0	0	0	4	0	3
	1	0	0	0	0	1	0	4	0	2
CAL	3	3	3	3	2	2	1	7	2	2
	3	2	1	4	2	2	4	7	1	1
	4	3	3	4	2	2	4	7	3	1
	3	2	2	2	3	3	2	7	2	4
	3	2	2	2	2	1	1	7	1	4
	3	2	2	2	2	4	2	7	1	4
BoP	0	0	0	0	0	0	0	1	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	1	0	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	0	1

FMPS and FMBS are expressed as a %; PPD, REC and CAL are expressed as mm; BoP: presence = 1, absence = 0. PPD, REC, CAL and BoP respective -MB, -B, -DB, -DL, -L and -ML measurements are reported on the 6 consecutive lines (from top to bottom).

Table S3. Groups A, B and C indices at 6 months after surgery.

A Group	CL	DR	IA	AP	IF	RG	GI	SC	NM	GC
FMPS	18.2	17.8	14.1	16.6	15	13	13.9	14.8	17.6	17.2
FMBS	3.4	7.8	10.9	12.5	15	7.4	6.4	7.4	11.1	12.5
PPD	1	1	1	2	1	1	2	2	2	1
	1	1	1	1	1	1	1	1	1	1
	1	1	1	3	1	1	1	2	2	1
	1	1	1	2	2	1	1	2	1	1
	1	1	1	1	1	1	1	1	1	1
	1	1	1	3	1	1	1	2	1	1
REC	1	1	0	0	2	2	1	0	1	2
	1	1	0	0	2	2	2	0	0	2
	1	1	0	0	2	2	1	0	0	2
	1	1	1	0	2	2	1	0	0	1
	1	1	1	0	2	1	1	0	0	1
	1	1	1	0	2	1	1	0	0	1

CAL	2	2	1	2	3	3	3	2	3	3
	2	2	1	1	3	3	3	1	1	3
	2	2	1	3	3	3	2	2	2	3
	2	2	2	2	4	3	2	2	1	2
	2	2	2	1	3	2	2	1	1	2
	2	2	2	3	3	2	2	2	1	2
BoP	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
B group	LS	RG	AC	GF	LM	LC	TC	MZ	AD	PI
FMPS	16.3	12	12.5	11.5	18	13.5	15.7	11.1	12.5	11.1
FMBS	9.3	9.8	9.2	7.7	13	7.8	1	6.5	10.4	10.2
PPD	2	1	2	1	1	1	1	2	2	1
	1	1	1	1	1	1	1	1	2	1
	2	2	2	1	2	1	1	1	2	1
	2	1	2	1	3	1	2	1	2	1
	1	1	1	1	2	1	1	1	2	1
	2	1	2	1	3	1	1	1	2	1
REC	0	1	1	0	2	1	1	1	0	1
	2	2	1	1	2	1	0	0	2	2
	1	2	0	0	2	1	1	0	1	1
	2	1	0	0	2	1	2	0	1	1
	2	1	0	1	2	1	2	0	0	2
	1	1	1	0	2	1	1	0	0	1
CAL	2	2	3	1	3	2	2	3	2	2
	3	3	2	2	3	2	1	1	4	3
	3	4	2	1	4	2	2	1	3	2
	4	2	2	1	5	2	4	1	3	2
	3	2	1	2	4	2	3	1	2	3
	3	2	3	1	5	2	2	1	2	2
BoP	0	0	1	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	1	0
	0	1	1	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	0
	0	0	1	0	0	0	0	0	0	0
C group	AC	AB	IM	MS	TF	FI	ES	CP	LZ	AC
FMPS	11.7	11.9	15.2	12.5	14.8	12	14.4	20	12.2	15.6
FMBS	8.3	7.1	8	8.3	6.5	5.6	9.6	18.7	10.6	10.9
PPD	2	2	2	2	2	2	1	3	2	2
	1	1	1	1	1	1	2	2	1	1
	3	2	2	2	2	2	2	3	2	1
	3	2	2	2	1	2	1	3	1	1
	1	1	1	1	1	1	1	2	1	1
	2	2	2	2	1	2	1	3	1	1

REC	1	1	1	1	0	0	0	4	0	0
	1	1	0	3	0	1	1	4	0	0
	1	1	1	2	0	0	1	4	0	0
	0	0	0	0	0	0	0	4	0	3
	1	1	0	0	0	0	0	4	0	3
	1	0	0	0	0	1	0	4	0	2
CAL	3	3	3	3	2	2	1	7	2	2
	2	2	1	4	1	2	3	6	1	1
	4	3	3	4	2	2	3	7	2	1
	3	2	2	2	1	2	1	7	1	4
	2	2	1	1	1	1	1	6	1	4
	3	2	2	2	1	3	1	7	1	3
BoP	0	0	0	0	0	0	0	1	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	1	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

FMPS and FMBS are expressed as a %; PPD, REC and CAL are expressed as mm; BoP: presence = 1, absence = 0. PPD, REC, CAL and BoP respective -MB, -B, -DB, -DL, -L and -ML measurements are reported on the 6 consecutive lines (from top to bottom).