

Effect of chlorhexidine mouthwashes on the microbiota associated with peri-implantitis lesions

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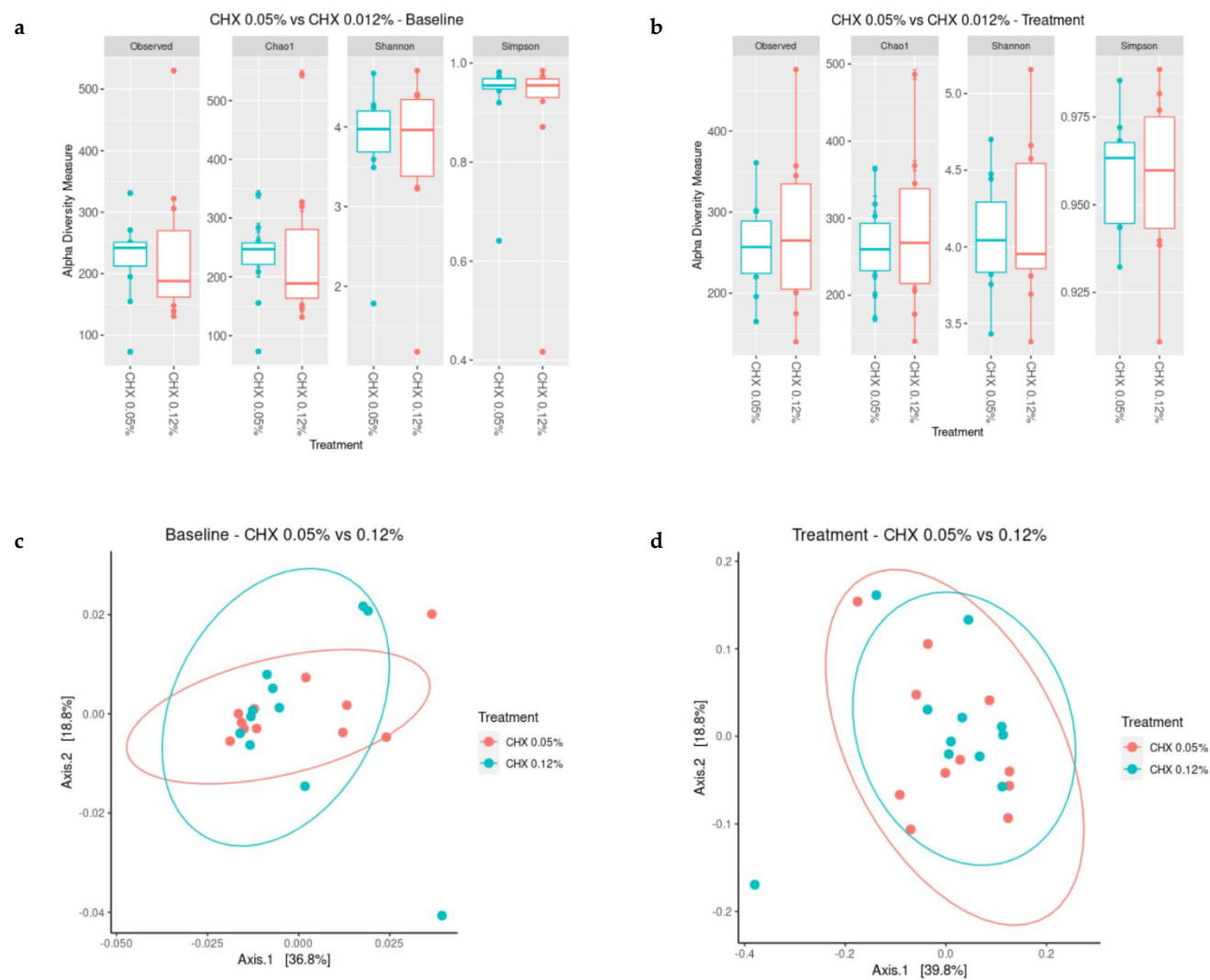


Fig. S1 Richness and diversity (a and b) and Principal Coordinates Analysis of weighted Unifrac plots (c and d) of the microbiome structure of the initial samples -baseline- of patients receiving treatments with CHX 0.05% and CHX 0.12% (a and c) and the same comparison after 15 days of treatment (b and d)

Table S1 List of comparisons of the alpha diversity measures between the different groups of this study and the p values obtained in each comparison. Bsln: Baseline, Ttm: Treatment

Comparison	Observed	Chao1	Shannon	Simpson
0.05 - Bsln vs Ttm	0.3505	0.3983	0.3983	0.1372
0.12 - Bsln vs Ttm	0.2664	0.3066	0.3066	0.3983
Bsln - 0.05 vs 0.12	1	0.9645	0.8939	0.8939
Ttm - 0.05 vs 0.12	0.5049	0.5049	0.4498	0.9645

Table S2 List of comparisons of the beta diversity measures between the different groups of this study and the p values obtained in each comparison. Bsln: Baseline, Ttm: Treatment

Comparison	R2	p-value	Betadisper
0.05% Bsln vs Ttm	0.01756	0.967	0.205
0.12% Bsln vs Ttm	0.01765	0.971	0.398
Bsln 0.05 vs 0.12	0.01531	0.995	0.626
Ttm 0.05 vs 0.12	0.02688	0.825	0.51

Table S3 Significant differential abundance of bacterial genus, sorted by their significance level in each comparison

Baseline vs Treatment 0.05% CHX			
Genus	baseMean	log2FoldChange	padj
<i>Jonquetella</i>	6.821091662	3.660473942	0.041372206
Baseline vs Treatment 0.12% CHX			
Genus	baseMean	log2FoldChange	padj
<i>Cardiobacterium</i>	16.27063825	-3.301896303	0.02198203
<i>Actinobacillus</i>	4.884124608	-3.099539268	0.02198203
<i>Blautia</i>	5.656159263	3.17402149	0.02198203
<i>HT002</i>	5.10903941	3.006760632	0.02198203
<i>Suttonella</i>	3.687251189	2.464875265	0.040303159
<i>[Eubacterium] yurii</i> group	4.056025539	-2.636230653	0.048046152

Table S4 Clinical information of patients treated with 0.05% CHX. nd: not determined

	Age	Sex	Smoker	Medical History	Medical Treatments	Last antibiotic treatment	Last CHX treatment	Use of dental irrigator	Implant position	Type of connection	Implant brand	Unitary	Implant placement date	PI symptom onset date	Bleeding on probing	Probing depth
P1	65	F	No	Asthma	Symbiconin 16 mg	05/2018	11/11/19	Yes	24	Internal hexagon	Biohorizons	No	14/06/14	28/03/16	Yes	V346 L346
P2	57	F	No	nd	No	27/11/14	23/03/17	No	45	Internal hexagon	Biohorizons	Yes	nd	nd	Yes	V424 L242
P3	57	M	No	nd	nd	18/02/19	04/03/19	No	13	Internal hexagon	Biohorizons	No	13/04/12	21/12/15	Yes	V834 L432
P4	64	M	No	Cholesterol	Basticina cloxatan	12/09/16	12/06/17	No	14	Internal hexagon	Biohorizons	Yes	06/02/14	14/03/16	Yes	V334 L332
P5	66	F	No	nd	nd	20/11/17	22/07/19	No	24	Internal hexagon	Biohorizons	No	19/03/14	20/11/17	No	V415 L332
P6	70	F	No	Depression Tension Stomach	Alprazolam Fentanilo matrix Valsatan Omeprazol	nd	A month before fist sampling	Yes	45	Internal hexagon	Biohorizons	Yes	14/11/16	nd	No	V415 L345
P7	58	M	No	nd	nd	03/10/19	03/10/19	No	15	Internal octagon	Strauman	No	12/05/09	20/04/15	No	V536 L833
P8	62	F	Yes	nd	nd	23/02/15	14/12/18	Yes	44	Internal hexagon	Biohorizons	Yes	16/12/10	12/03/15	No	V314 L374
P9	62	M	No	Epilepsy	Fentoina	Cefalosporine six months before fist sampling	A month and a half before fist sampling	No	44	Internal hexagon	Biohorizons	No	nd	nd	No	V313 L111
P10	82	M	No	nd	nd	23/04/18	nd	No	35	Internal hexagon	Biohorizons	No	27/05/13	25/04/16	No	V233 L213
P11	72	F	No	nd	nd	23/04/18	23/12/19	No	46	Internal hexagon	Biohorizons	No	21/10/15	10/10/16	No	V766 L648

Table S5 Clinical information of patients treated with 0.12% CHX. nd: not determined

	Age	Sex	Smoker	Medical History	Medical Treatments	Last antibiotic treatment	Last CHX treatment	Use of dental irrigator	Implant position	Type of connection	Implant brand	Unitary	Implant placement date	PI symptom onset date	Bleeding on probing	Probing depth
P1	65	F	No	nd	nd	08/09/16	nd	No	33	Internal hexagon	Biohorizons	Yes	09/06/16	23/03/18	nd	V412 L433
P2	76	F	No	nd	Tension cholesterol	2 months before fist sampling	23/12/19	No	44	Internal octagon	Straumann	No	05/03/09	11/11/19	No	V412 L422
P3	72	M	No	nd	nd	05/11/18	10/10/19	No	13	Internal hexagon	Gt medical	No	09/11/18	04/07/19	Yes	V666 L666
P4	84	M	No	nds	Simtron prostate	08/02/16	A year before fist sampling	No	14	Internal hexagon	Biohorizons	No	nd	nd	No	V645 L776
P5	77	M	No	nd	nd	2 months ago	04/07/19	No	24	Internal hexagon	Biohorizons	No	nd	nd	No	V445 L671
P6	55	F	No	nd	nd	02/11/17	nd	Yes	26	Internal hexagon	Biohorizons	No	16/07/14	25/02/16	nd	V224 L226
P7	57	F	No	nd	nd	25/02/17	15/03/18	No	46	Internal hexagon	Biohorizons	Yes	20/02/17	05/11/18	No	V523 L322
P8	52	M	No	nd	nd	More than year before fist sampling	A year before fist sampling	Yes	17	Internal octagon	Straumann	No	08/03/13	nd	No	V633 L633
P9	75	M	No	HTA cholesterol	HTA Cholesterol Dilutol ramipil	More than year before fist sampling	nd	Yes	13	Internal octagon	Gt medical	No	03/08/11	nd	nd	V643 L556
P10	58	F	No	nd	nd	More than six months before fist sampling	A month before fist sampling	Yes	16	Internal hexagon	Biohorizons	No	02/03/11	08/03/16	Yes	V468 L336
P11	44	F	Yes	nd	Antidepressant eutirox	More than six months before fist sampling	More than six months before fist sampling	No	35	Internal hexagon	Biohorizons	No	08/10/14	nd	No	V666 L336