Appendix:

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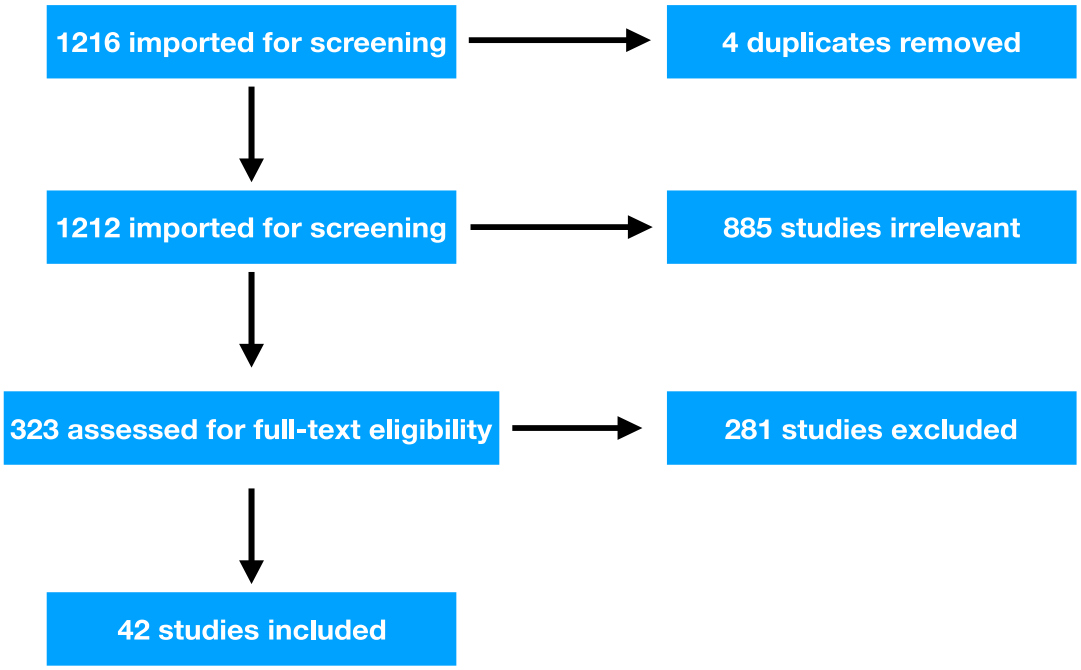
Figures:

Figure 1 PRISMA flowchart illustrating the screening process.



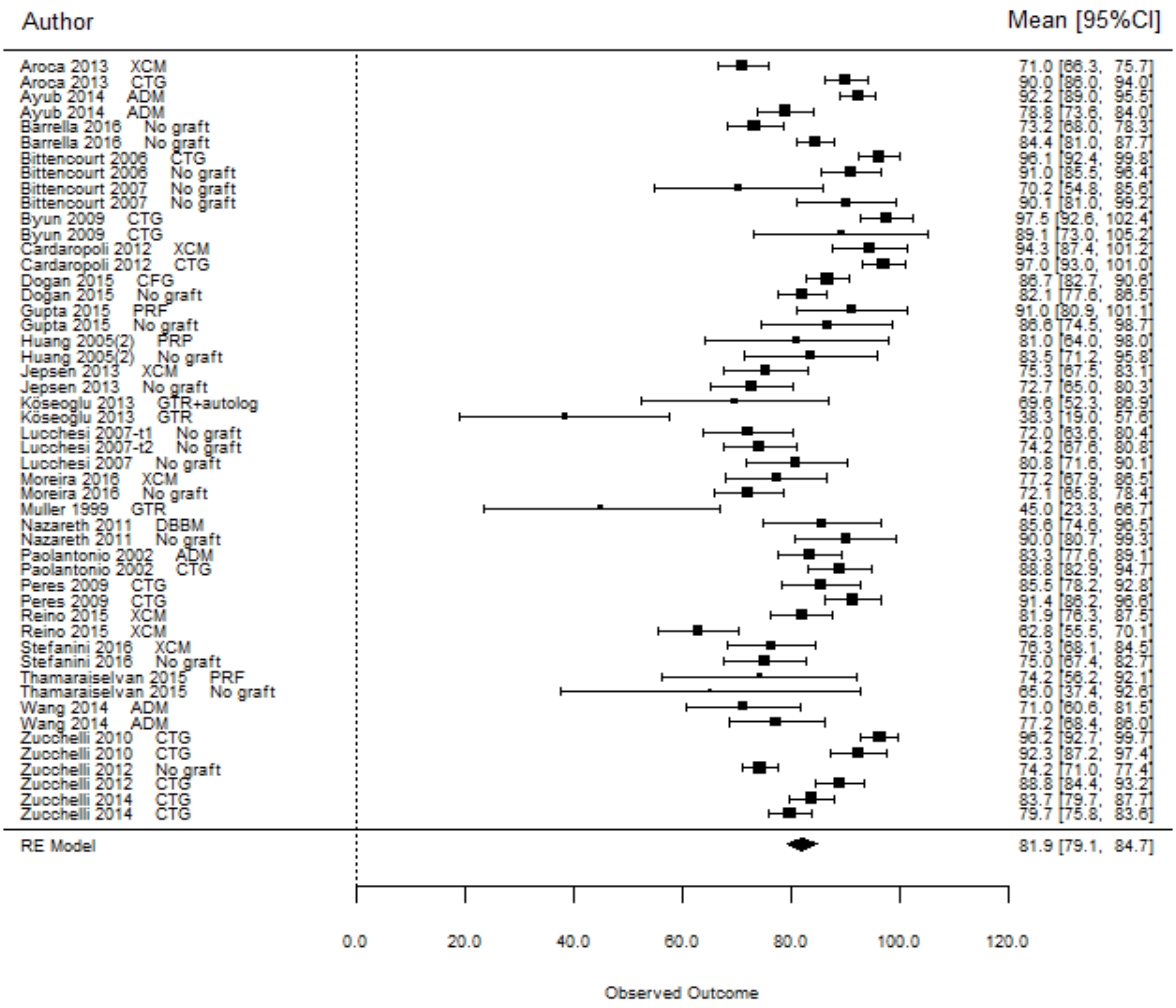


Figure 2A. Forest Plot of Mean Root Coverage.

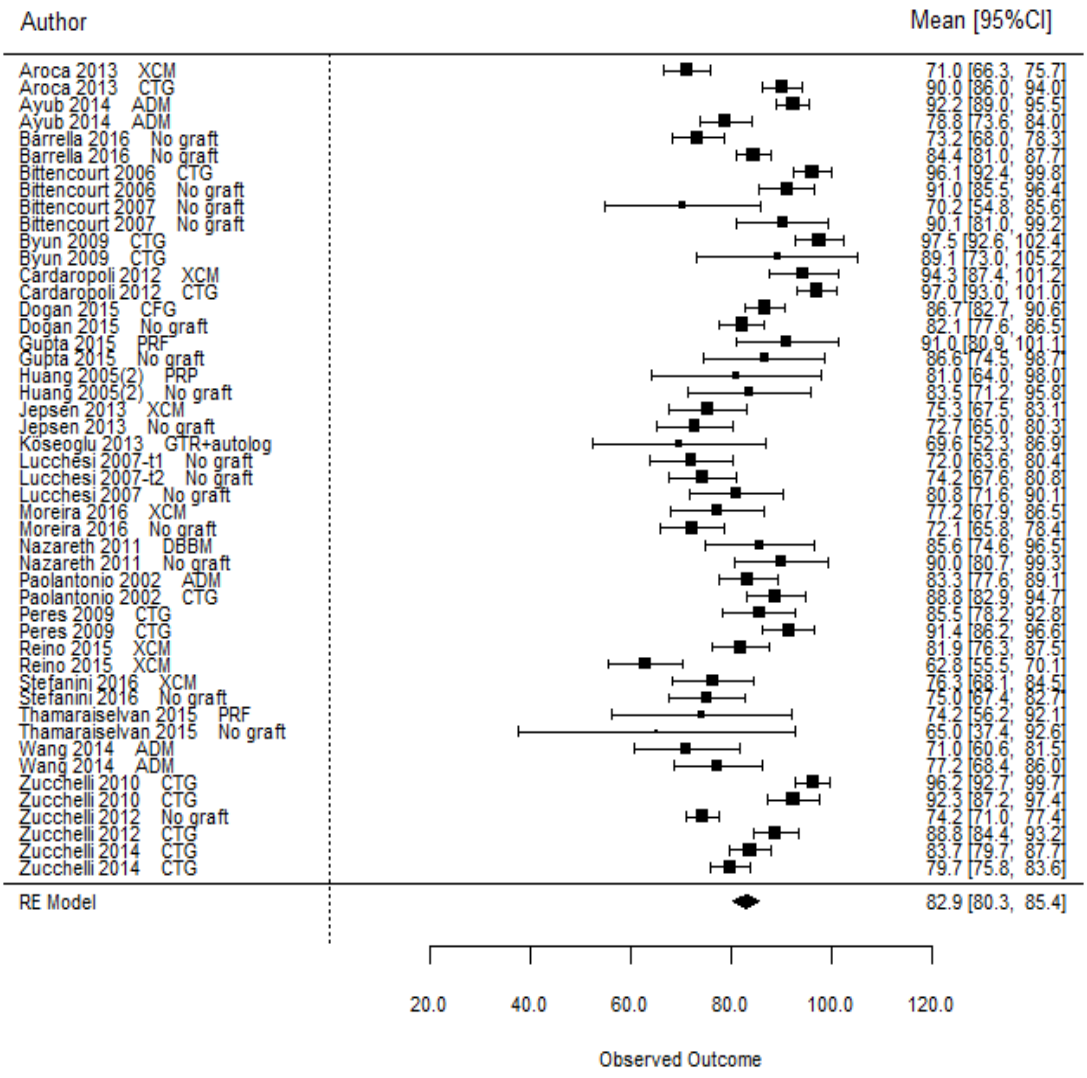


Figure 2B. Forest Plot after removal of Koseoglu et al. and Muller et al. studies.

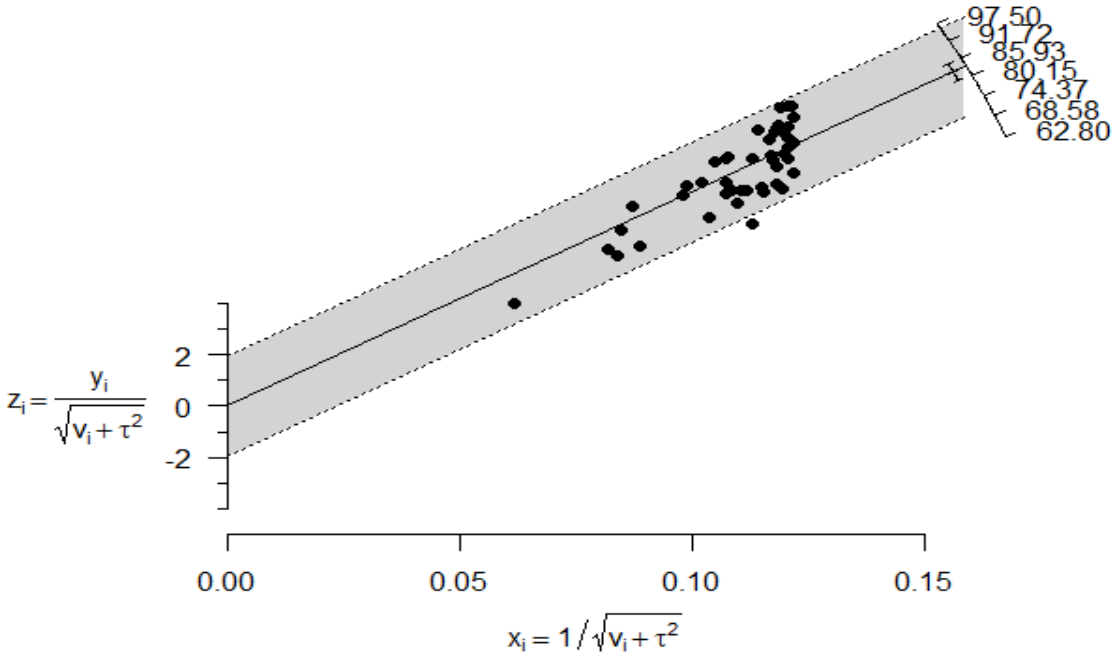
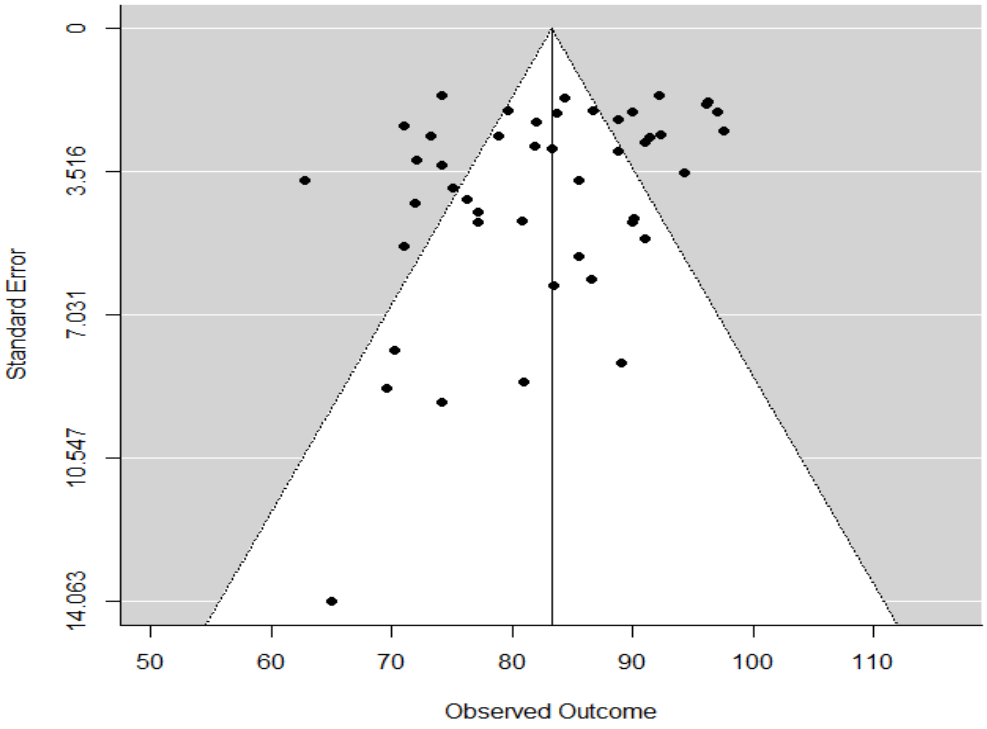
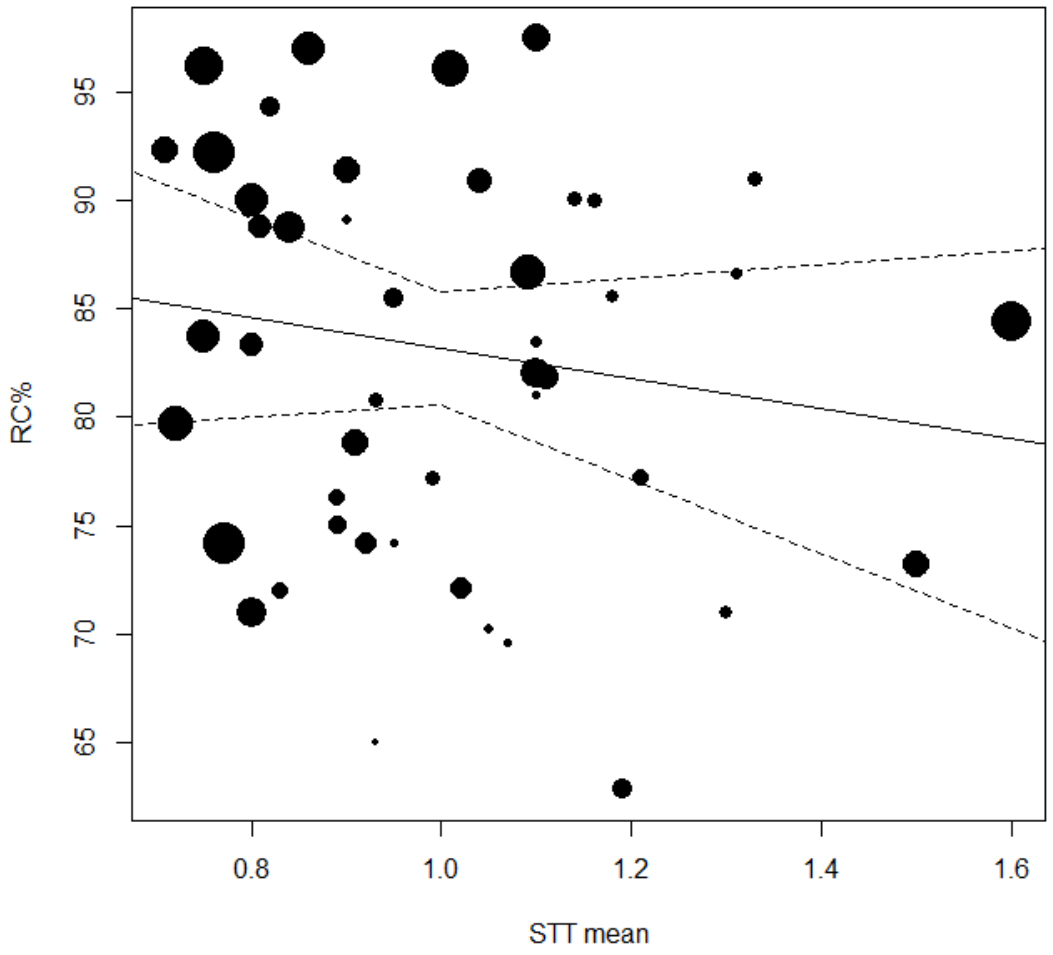


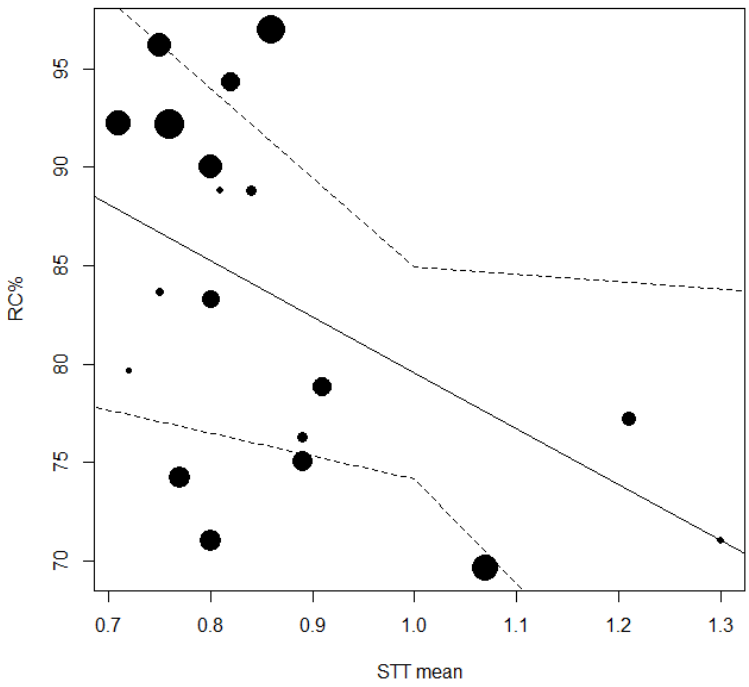
Figure 2C. Galbraith Plot.



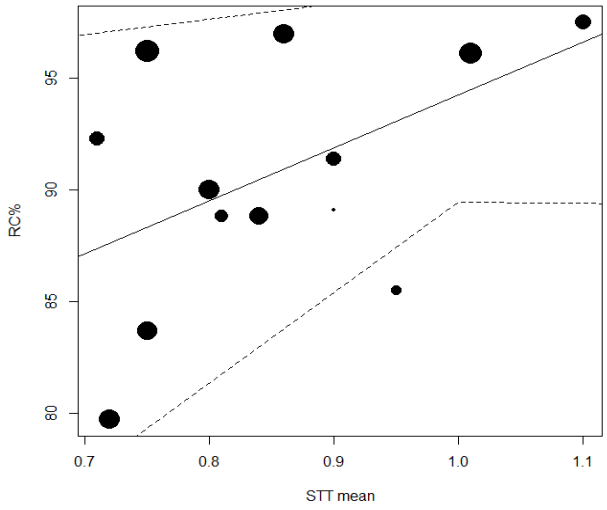
Supplementary figure 3. Funnel Plot.



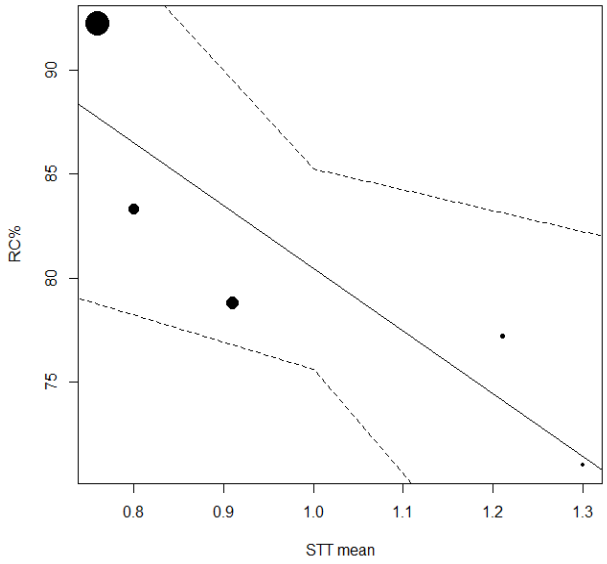
Supplementary figure 4. Scatter plot for baseline STT and %RC.



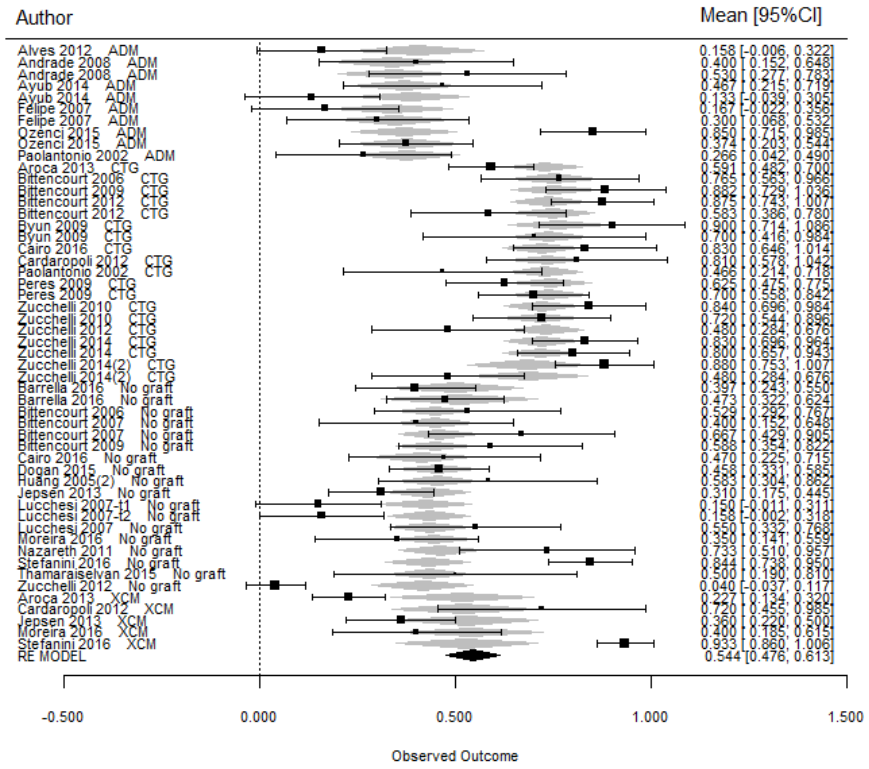
Supplementary figure 5. Scatterplot for STT and %RC, showing a subset of studies presenting data at 12-months.



Supplementary figure 6. Scatterplot of STT and %RC in studies using SCTG as a graft material.



Supplementary figure 7. Scatterplot of the relationship between STT and %RC when analyzing ADM studies.



Supplementary figure 8. Forest Plot of complete root coverage (CRC) by treatment type.

Tables

ID	Author	Year	Type of study	Follow-up	Technique Used
1	Alves	2012	RCT	6 months	CAF+ADM+EMD versus CAF+ADM
2	Andrade	2008	RCT	12 months	ADM+CAF with vs without vertical incisions
3	Aroca	2013	RCT	12 months	MCAT+XCM vs MCAT+SCTG
4	Ayub	2014	RCT	12 months	ADM+CAF vs modified ADM+CAF
5	Barrella	2016	Case series	6 months	CAF with horizontal incisions vs CAF for multiple recession defects with no releasing incisions
6	Berlucchi	2005	Controlled clinical study	12 months	CAF+EMD
7	Bittencourt	2006	RCT	6 months	CAF+SCTG vs SAF
8	Bittencourt	2007	RCT	6 months	SAF+EDTA vs SAF
9	Bittencourt	2009	RCT	30 months	SAF vs CAF+SCTG
10	Bittencourt	2012	RCT	12 months	CAF+SCTG with or without surgical microscope
11	Byun	2009	RCT	6 months	CAF+SCTG vs CAF+SCTG with epithelial collar
12	Cairo	2016	RCT	12 months	CAF +SCTG vs CAF
13	Cardaropoli	2012	RCT	12 months	CAF+SCTG vs CAF+XCM
14	Dogan	2015	RCT	6 months	CAF+CGF vs CAF
15	Duval	2000	RCT	6 months	GTR with collagen membrane with or without DFDBA
16	Eren	2014	RCT	6 months	CAF+PRF vs CAF+CTG
17	Felipe	2007	RCT	6 months	CAF+ADM vs CAF+ADM with broad flap
18	Gupta	2015	RCT	6 months	CAF+PRF vs CAF alone
19	Gürgan	2004	Case series	60 months	CAF
20	Huang	2005	Prospective cohort	6 months	CAF
21	Huang (2)	2005	RCT	6 months	CAF+PRP vs CAF
22	Jagannathachary	2010	RCT	6 months	CAF+ADM vs CAF
23	Jepsen	2013	RCT	6 months	CAF+XCM vs CAF
24	Keceli	2015	RCT	6 months	CAF+SCTG+PRF vs CAF+SCTG
25	Köseoglu	2013	RCT	12 months	CM vs CM+GF
26	Lucchesi	2007	RCT	6 months	CAF+glass ionomer vs. CAF+composite vs. CAF (no NCCL)
27	Moreira	2016	RCT	6 months	CAF+XCM vs CAF
28	Muller	1999	Case series	6 months	CAF+SCTG vs CAF+CM
29	Nazareth	2011	RCT	6 months	CAF + Anorganic Bovine-Derived Hydroxyapatite Matrix/Cell-Binding Peptide (P-15) vs CAF
30	Ozenci	2015	RCT	12 months	CAF+ADM vs TUN+ADM

Table 1. List of included studies.

Table 2: Characteristics of included studies.

ID	AUTHOR	GROUP	MATERIAL	N	RC (%) mean	SD	STT mean	STT SD	CRC (%)
1	Alves 2012	test	ADM	19	55,4		1,05	0,29	15,79
2	Alves 2012	control	EMD+ADM	19	44		1,03	0,2	5,26
3	Andrade 2008	test	ADM	15	74,32		0,48	0,29	40
4	Andrade 2008	control	ADM	15	83,28		0,55	0,21	53
5	Aroca 2013*	test	XCM	78	71	21	0,8	0,2	22,7
6	Aroca 2013*	control	CTG	78	90	18	0,8	0,3	59,1
7	Ayub 2014*	test	ADM	15	92,23	6,37	0,76	0,28	46,7
8	Ayub 2014*	control	ADM	15	78,81	10,2	0,91	0,3	13,3
9	Barrella 2016*	test	No graft	39	73,19	16,44	1,5	0,11	39,67
10	Barrella 2016*	control	No graft	42	84,37	11,11	1,6	0,25	47,33
11	Berlucchi 2005	test	EMD	19	85,8		0,54	0,13	36,4
12	Berlucchi 2005	control	EMD	19	94,7		0,2	0,09	89,5
13	Bittencourt 2006*	test	CTG	17	96,1	7,69	1,01	0,17	76,47
14	Bittencourt 2006*	control	No graft	17	90,95	11,46	1,04	0,26	52,94
15	Bittencourt 2007*	test	No graft	15	70,2	30,5	1,05	0,23	40
16	Bittencourt 2007*	control	No graft	15	90,1	18	1,14	0,3	66,7
17	Bittencourt 2009	test	No graft	17	90,95		1,04	0,26	58,8
18	Bittencourt 2009	control	CTG	17	96,3		1,01	0,17	88,24
19	Bittencourt 2012	test	CTG	24	98		0,89	0,23	87,5
20	Bittencourt 2012	control	CTG	24	88,3		0,97	0,18	58,3
21	Byun 2009*	test	CTG	10	97,5	7,9	1,1	0,21	90
22	Byun 2009*	control	CTG	10	89,1	25,93	0,9	0,32	70
23	Cairo 2016	test	CTG	16			0,73	0,08	83
24	Cairo 2016	control	No graft	16			0,76	0,09	47
25	Cardaropoli 2012*	test	XCM	11	94,32	11,68	0,82	0,34	72
26	Cardaropoli 2012*	control	CTG	11	96,97	6,74	0,86	0,39	81
27	Dogan 2015*	test	CFG	60	86,67	15,59	1,09	0,07	56,7
28	Dogan 2015*	control	No graft	59	82,06	17,49	1,1	0,07	45,8
29	Duval 2000	test	GTR+DFBA	8	81,6		1,25	0,46	
30	Duval 2000	control	GTR	9	90,1		1,22	0,44	
31	Eren 2014	test	PRF	22	92,7				72,7

Number	Role	Author	Material	n	*p*
1	test	Alves 2012	ADM	19	0.1579
2	test	Andrade 2008	ADM	15	0.4
2	control	Andrade 2008	ADM	15	0.53
3	test	Aroca 2013	XCM	78	0.277
3	control	Aroca 2013	SCTG	78	0.591
4	test	Ayub 2014	ADM	15	0.467
4	control	Ayub 2014	ADM+EMD	15	0.133
5	test	Barrella 2016	No graft	39	0.3967
5	control	Barrella 2016	No graft	42	0.4733
6	test	Bittencourt 2006	SCTG	17	0.7647
6	control	Bittencourt 2006	SCTG	17	0.5294
7	test	Bittencourt 2007	No graft	15	0.4
7	control	Bittencourt 2007	No graft	15	0.667
8	test	Bittencourt 2009	No graft	17	0.588
8	control	Bittencourt 2009	SCTG	17	0.8824
9	test	Bittencourt 2012	SCTG	24	0.875
9	control	Bittencourt 2012	SCTG	24	0.583
10	test	Byun 2009	SCTG	10	0.9
10	control	Byun 2009	SCTG	10	0.7
11	test	Cairo 2016	SCTG	16	0.83
11	control	Cairo 2016	no graft	16	0.47
12	test	Cardaropoli 2012	XCM	11	0.72
12	control	Cardaropoli 2012	SCTG	11	0.81
13	control	Dogan 2015	No graft	59	0.458
14	test	Felipe 2007	ADM	15	0.167
14	control	Felipe 2007	ADM	15	0.3
15	control	Huang 2005 (2)	No graft	12	0.583
16	test	Jepsen 2013	XCM	45	0.36
16	control	Jepsen 2013	No graft	45	0.31
17	test	Lucchesi 2007 t1	No graft	19	0.15
17	test	Lucchesi 2007 t2	No graft	20	0.157
17	control	Lucchesi 2007	No graft	20	0.55
18	test	Moreira 2016	XCM	20	0.4
18	control	Moreira 2016	No graft	20	0.35
19	control	Nazareth 2011	No graft	15	0.733
20	test	Ozenci 2015	ADM	27	0.85
20	control	Ozenci 2015	ADM	31	0.3736
21	test	Paolantonio 2002	ADM	15	0.266
21	control	Paolantonio 2002	SCTG	15	0.466
22	test	Peres 2009	SCTG	40	0.625
22	control	Peres 2009	SCTG	40	0.7
23	test	Stefanini 2016	XCM	45	0.933
23	control	Stefanini 2016	No graft	45	0.844
24	control	Thelmaraisalvan 2015	No graft	10	0.5
25	test	Zucchelli 2010	SCTG	25	0.84
25	control	Zucchelli 2010	SCTG	25	0.72
26	test	Zucchelli 2012	No graft	25	0.04
26	control	Zucchelli 2012	SCTG	25	0.48
27	TEST	Zucchelli 2014	SCTG	30	0.83
27	control	Zucchelli 2014	SCTG	30	0.8
28	test	Zucchelli 2014 (2)	SCTG	25	0.88
28	control	Zucchelli 2014 (2)	SCTG	25	0.48

Table 3. Studies included in the meta-analysis for relationship between STT at baseline and rate of CRC for different root coverage techniques