

Supplementary Materials: Design and Validity of Randomized Controlled Dental Restorative Trials

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Table S1. Included studies.

Trial ID	Number of Patients	Lesions per Patient	Number of Lesions	Follow-Up in Months	% Lesions Retained at Follow-Up	Cavity Class	Indication	Dentition	Setting	Super/Inferiority Hypothesized	Samplesize Calculation Described	Unit of Randomization	Analysis Considering Attrition	Trial Registration	Outcome Measure	Significant Differences
Adeleke 2012 [1]	44	7.6	336	12	85.4	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	yes
Ahrari 2010 [2]	36	1.0	36	12	86.1	II	not reported	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Alves dos Santos 2010 [3]	48	2.9	141	48	80.9	II	carious	primary	secondary	no	no	pairwise	not performed	no	USPHS	no
Andersson-Wenckert 2006 [4]	61	3.1	190	24	76.8	II	carious	primary	primary	no	no	pairwise	not performed	no	USPHS	no
Aw 2005 [5]	57	3.0	171	36	85.4	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Baracco 2013 [6]	25	3.0	75	24	96.0	I	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Beck 2014 [7]	456	4.0	1805	12	61.4	II	carious or replacement	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Blunck 2007 [8]	40	2.0	80	6	95.0	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Boeckler 2012 [9]	50	2.0	100	48	60.0	II	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Bottenberg 2009 [10]	32	4.0	128	60	60.2	II	carious	Permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Brackett 2007 [11]	50	1.0	50	18	100.0	II	carious or replacement	permanent	secondary	no	no	toothwise	not required	no	USPHS	no
Brackett 2010 [12]	14	5.7	80	24	92.5	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Burgess 2013 [13]	52	3.0	156	24	75.0	V	non-carious	permanent	secondary	yes	no	pairwise	not performed	no	USPHS	no
Burrow 2007 [14]	20	4.6	92	36	59.8	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	other	yes
Burrow 2012 [15]	11	5.5	60	36	90.0	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	other	no
Casagrande 2013 [16]	66	2.0	132	18	93.2	II	carious	primary	secondary	no	yes	toothwise	not performed	yes	USPHS	no
Cehreli 2006 [17]	84	2.4	200	24	76.0	I, II	carious	primary	secondary	no	no	pairwise	not performed	no	USPHS	no
Celik 2007 [18]	37	6.8	252	24	59.1	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	yes
Celik 2014 [19]	31	2.6	82	36	75.6	II	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Cetin 2013 [20]	54	1.2	67	60	67.2	I	carious or replacement	permanent	secondary	no	no	pairwise	not required	no	USPHS	no

Table S1. Cont.

Trial ID	Number of Patients	Lesions per Patient	Number of Lesions	Follow-Up in Months	% Lesions Retained at Follow-Up	Cavity Class	Indication	Dentition	Setting	Super/Inferiority Hypothesized	Sample Size Calculation Described	Unit of Randomization	Analysis Considering Attrition	Trial Registration	Outcome Measure	Significant Differences
Dalton Bittencourt 2005 [21]	25	3.1	78	18	76.9	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Daou 2009 [22]	45	3.3	149	24	62.4	I	carious or replacement	primary	secondary	no	no	toothwise	not performed	no	USPHS	no
Daou 2009 [23]	20	2.0	40	36	60.0	I	carious	primary	secondary	no	no	pairwise	not performed	no	USPHS	no
de Andrade 2014 [24]	41	3.0	123	54	75.6	I	carious or replacement	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	yes
Delbons 2015 [25]	80	1.8	144	18	95.1	I, II	carious or replacement	permanent	primary	no	no	pairwise	not performed	no	USPHS	no
Deliperi 2012 [26]	50	1.5	75	24	61.3	II	carious or replacement	permanent	primary	no	no	toothwise	not performed	no	USPHS	no
Demirci 2008 [27]	32	3.0	96	24	90.6	III	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Dall'Orologio 2014 [28]	50	3.0	150	96	53.3	V	non-carious	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
Dresch 2006 [29]	37	4.0	148	12	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Dunne 2005 [30]	14	3.6	50	36	94.0	I, II	carious or replacement	permanent	secondary	no	no	toothwise	not performed	no	other	yes
Dutra-Correa 2013 [31]	37	3.2	120	18	76.7	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Efes 2006 [32]	54	2.0	108	24	92.6	I	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Efes 2006 [33]	90	1.0	90	24	97.8	I	carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Efes 2013 [34]	50	2.0	100	24	100.0	I	carious or replacement	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Eliguzeloglu Dalkilic 2012 [35]	29	8.7	252	24	62.7	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Ergücü 2007 [36]	30	3.2	96	18	93.8	I	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Ermis 2012 [37]	26	6.2	161	24	93.2	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	other	no
Ernst 2006 [38]	50	2.2	112	24	100.0	II	carious or replacement	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Ertugrul 2010 [39]	98	2.0	196	12	87.2	II	carious	primary	secondary	no	yes	pairwise	not performed	no	USPHS	no
Fagundes 2009 [40]	33	2.0	66	60	90.9	II	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Frankenberger 2014 [41]	30	2.3	68	96	98.5	II	carious or replacement	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
Gallo 2010 [42]	23	2.7	63	36	92.1	I	carious	not reported	secondary	no	yes	toothwise	not performed	no	USPHS	no

Table S1. Cont.

Trial ID	Number of Patients	Lesions per Patient	Number of Lesions	Follow-Up in Months	% Lesions Retained at Follow-Up	Cavity Class	Indication	Dentition	Setting	Super/Inferiority Hypothesized	Sample Size Calculation Described	Unit of Randomization	Analysis Considering Attrition	Trial Registration	Outcome Measure	Significant Differences
Gianordoli Neto 2008 [43]	30	2.3	70	12	100.0	II	carious or replacement	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Goncalves 2013 [44]	33	3.0	100	18	88.0	II	carious or replacement	permanent	secondary	no	yes	toothwise	not performed	no	USPHS	no
Gresnigt 2012 [45]	23	4.2	96	41	87.5	IV	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Häfer 2013 [46]	35	2.6	90	48	98.9	III	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Häfer 2015 [47]	40	2.8	110	36	74.5	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	other	yes
Jyothi 2011 [48]	32	2.5	80	12	100.0	V	non-carious	permanent	secondary	no	yes	pairwise	not required	no	USPHS	yes
Karaman 2012 [49]	21	6.4	134	24	100.0	V	non-carious	permanent	secondary	yes	no	pairwise	not performed	no	USPHS	no
Kim 2009 [50]	39	3.8	150	24	81.3	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	yes
Koubi 2006 [51]	14	4.0	56	12	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	yes
Krämer 2006 [52]	30	2.4	71	48	66.2	II	not reported	permanent	secondary	no	no	clusterwise	not performed	no	USPHS	yes
Kubo 2006 [53]	8	9.0	72	60	98.6	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Kubo 2009 [54]	23	4.7	108	24	99.1	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Kubo 2010 [55]	22	4.5	98	36	98.0	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Kurokawa 2007 [56]	46	2.1	98	12	100.0	V	non-carious	permanent	secondary	no	no	toothwise	not required	no	USPHS	no
Logueicio 2007 [57]	25	3.1	78	36	76.9	V	non-carious	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
Loguercio 2007 [58]	38	3.0	114	12	100.0	III	carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	yes
Mahmoud 2008 [59]	40	3.5	140	24	100.0	I	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Mahmoud 2014 [60]	40	4.0	160	36	100.0	I	carious or replacement	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Mahmoud 2014 [61]	78	2.0	156	36	100.0	II	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Manhart 2010 [62]	43	2.2	96	48	83.3	II	carious or replacement	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Monteiro 2010 [63]	26	4.0	105	24	58.1	II	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Moosavi 2013 [64]	30	3.0	90	18	91.1	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Moretto 2013 [65]	30	5.8	175	36	89.7	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	other	no
Pascon 2006 [66]	30	2.3	70	24	85.7	I	carious	primary	secondary	no	no	pairwise	not performed	no	USPHS	yes
Paula 2015 [67]	35	5.1	180	12	100.0	V	non-carious	permanent	secondary	yes	yes	pairwise	not required	no	USPHS and other	no

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Pazinatto 2012 [68]	33	2.7	90	56	74.4	I	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Perdigao 2005 [69]	35	3.7	128	18	85.9	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Perdigao 2009 [70]	38	3.2	121	24	75.2	II	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	
Perdigao 2012 [71]	39	3.2	125	18	77.6	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Perdigao 2012 [72]	33	2.8	92	12	84.8	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Peumans 2012 [73]	71	2.0	142	156	68.3	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	other	yes
Pollington 2008 [74]	30	2.0	60	36	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Poon 2005 [75]	65	1.5	98	43	55.1	I	carious	permanent	secondary	no	no	clusterwise	not performed	no	USPHS	no
Qin 2013 [76]	46	2.5	116	24	96.6	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Reis 2009 [77]	30	4.0	120	18	100.0	V	non-carious	permanent	secondary	no	yes	pairwise	not required	no	USPHS	yes
Reis 2009 [78]	84	1.0	84	36	92.9	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	yes
Ritter 2009 [79]	33	3.0	99	96	56.6	V	non-carious	permanent	secondary	yes	yes	toothwise	not performed	no	USPHS	no
Saboia 2006 [80]	14	4.0	56	24	73.2	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Sadeghi 2010 [81]	35	3.0	105	18	100.0	I	carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Santiago 2010 [82]	30	2.3	70	60	78.6	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	yes
Schattenberg 2008 [83]	50	2.1	104	24	100.0	V	carious or non-carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Schirrmeister 2009 [84]	43	2.0	86	48	62.8	II	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Schmidt 2014 [85]	72	2.2	158	60	67.7	II	carious or replacement	permanent	secondary	no	yes	pairwise	not performed	yes	other	no
Shi 2010 [86]	32	3.1	100	36	80.0	I	carious or replacement	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
Söderholm 2013 [87]	21	4.0	84	48	78.6	V	non-carious	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
Stojanac 2013 [88]	30	3.0	90	24	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Torres 2010 [89]	20	2.0	39	36	100.0	II	carious or replacement	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
Tuncer 2013 [90]	24	5.1	123	24	100.8	V	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	yes
Tuncer 2014 [91]	20	4.9	97	12	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Türkün 2005 [92]	35	4.7	163	12	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not required	no	USPHS	no
Türkün 2008 [93]	24	4.2	100	24	100.0	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Turner 2008 [94]	14	4.0	56	24	96.4	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no

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Trial ID	Number of Patients	Lesions per Patient	Number of Lesions	Follow-Up in Months	% Lesions Retained at Follow-Up	Cavity Class	Indication	Dentition	Setting	Super/Inferiority Hypothesized	Sample Size Calculation Described	Unit of Randomization	Analysis Considering Attrition	Trial Registration	Outcome Measure	Significant Differences
van Dijken 2005 [95]	35	2.1	73	72	91.8	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	yes
van Dijken 2006 [96]	63	1.4	87	72	86.2	II	replacement	permanent	secondary	no	no	toothwise	not performed	no	USPHS	yes
van Dijken 2007 [97]	119	2.8	337	156	81.6	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	yes
van Dijken 2008 [98]	88	3.1	270	156	79.6	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	yes
van Dijken 2009 [99]	50	2.1	106	60	91.5	II	carious or replacement	permanent	secondary	yes	no	pairwise	not performed	no	USPHS	no
van Dijken 2010 [100]	72	1.7	119	96	102.5	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
van Dijken 2012 [101]	60	2.3	139	84	97.1	V	non-carious	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
van Dijken 2013 [102]	67	2.5	169	60	95.3	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	yes
van Dijken 2013 [103]	54	2.1	115	72	96.5	II	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
van Dijken 2014 [104]	38	2.8	106	36	98.1	II	carious or replacement	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
van Dijken 2014 [105]	78	2.1	165	96	95.8	II	carious or replacement	permanent	secondary	no	no	toothwise	not performed	no	USPHS	no
van Dijken 2014 [106]	52	2.3	122	120	93.4	II	carious or replacement	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
van Dijken 2015 [107]	82	2.4	196	96	98.0	II	carious or replacement	permanent	secondary	no	yes	pairwise	not performed	no	USPHS	no
van Landuyt 2014 [108]	52	5.1	267	60	89.9	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	other	no
Yaman 2014 [109]	24	6.0	144	36	83.3	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	yes
Yazici 2014 [110]	28	3.0	84	36	71.4	I	carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Zander-Grande 2011 [111]	40	4.0	160	24	100.0	V	non-carious	permanent	secondary	no	yes	pairwise	not required	no	USPHS	no
Zander-Grande 2014 [112]	31	4.0	124	24	90.3	V	non-carious	Permanent	secondary	yes	yes	pairwise	performed	no	other	yes
Zhou 2009 [113]	124	2.8	342	12	95.9	V	non-carious	permanent	secondary	no	no	pairwise	not performed	no	USPHS	no
Zulfikaroglu 2008 [114]	51	1.5	75	12	81.3	II	Pulpectomized	primary	secondary	no	no	toothwise	not performed	no	USPHS	yes

Table S2. Risk of bias.

Trial ID	Sequence Generation	Allocation Concealment	Blinding of Operator	Blinding of Examiner	Incomplete Data	Selective Reporting	Overall Risk of Bias
Adeleke 2012 [1]	low	unclear	high	unclear	high	high	unclear/high
Ahrari 2010 [2]	unclear	unclear	high	unclear	low	low	unclear/high
Alves dos Santos 2010 [3]	low	unclear	high	unclear	low	low	unclear/high
Andersson-Wenckert 2006 [4]	unclear	unclear	high	high	low	low	unclear/high
Aw 2005 [5]	unclear	unclear	high	unclear	low	low	unclear/high
Baracco 2013 [6]	unclear	unclear	high	low	low	low	unclear/high
Beck 2014 [7]	low	low	high	unclear	low	low	unclear/high
Blunck 2007 [8]	unclear	unclear	high	unclear	low	low	unclear/high
Boeckler 2012 [9]	unclear	unclear	high	low	low	low	unclear/high
Bottenberg 2009 [10]	low	low	high	low	high	low	unclear/high
Brackett 2007 [11]	unclear	unclear	high	low	high	low	unclear/high
Brackett 2010 [12]	unclear	unclear	high	low	low	low	unclear/high
Burgess 2013 [13]	unclear	unclear	high	low	high	low	unclear/high
Burrow 2007 [14]	low	unclear	high	unclear	low	low	unclear/high
Burrow 2012 [15]	unclear	unclear	high	unclear	low	low	unclear/high
Casagrande 2013 [16]	low	unclear	high	unclear	high	low	unclear/high
Cehreli 2006 [17]	unclear	unclear	high	low	low	low	unclear/high
Celik 2007 [18]	unclear	unclear	high	unclear	high	low	unclear/high
Celik 2014 [19]	low	unclear	high	low	low	low	unclear/high
Cetin 2013 [20]	low	unclear	high	low	low	low	unclear/high
Dalton Bittencourt 2005 [21]	unclear	unclear	high	unclear	low	low	unclear/high
Daou 2009 [22]	unclear	unclear	high	unclear	low	low	unclear/high
Daou 2009 [23]	unclear	unclear	high	high	high	low	unclear/high
de Andrade 2014 [24]	low	low	low	unclear	low	low	unclear/high
Delbons 2015 [25]	unclear	low	high	unclear	low	low	unclear/high
Deliperi 2012 [26]	unclear	unclear	high	low	low	low	unclear/high
Demirci 2008 [27]	unclear	unclear	high	unclear	low	low	unclear/high
Dall'Orologio 2014 [28]	low	low	high	unclear	low	low	unclear/high
Dresch 2006 [29]	low	unclear	high	low	low	low	unclear/high
Dunne 2005 [30]	unclear	high	high	unclear	low	low	unclear/high
Dutra-Correa 2013 [31]	unclear	unclear	high	low	low	low	unclear/high
Efes 2006 [32]	unclear	unclear	high	unclear	low	low	unclear/high
Efes 2006 [33]	unclear	unclear	high	unclear	low	low	unclear/high
Efes 2013 [34]	low	unclear	high	low	low	low	unclear/high
Eliguzeloglu Dalkilic 2012 [35]	unclear	unclear	high	unclear	low	low	unclear/high
Ergücü 2007 [36]	unclear	unclear	high	unclear	low	low	unclear/high
Ermis 2012 [37]	low	unclear	high	low	low	low	unclear/high
Ernst 2006 [38]	unclear	unclear	high	unclear	high	low	unclear/high

Table S2. Cont.

Trial ID	Sequence Generation	Allocation Concealment	Blinding of Operator	Blinding of Examiner	Incomplete Data	Selective Reporting	Overall Risk of Bias
Ertugrul 2010 [39]	low	unclear	high	high	high	low	unclear/high
Fagundes 2009 [40]	low	unclear	high	low	low	low	unclear/high
Frankenberger 2014 [41]	unclear	unclear	high	low	low	low	unclear/high
Gallo 2010 [42]	low	unclear	high	unclear	high	low	unclear/high
Gianordoli Neto 2008 [43]	unclear	unclear	high	low	loe	low	unclear/high
Goncalves 2013 [44]	low	unclear	high	low	low	low	unclear/high
Gresnigt 2012 [45]	unclear	unclear	high	low	low	low	unclear/high
Häfer 2013 [46]	unclear	unclear	high	high	low	low	unclear/high
Häfer 2015 [47]	unclear	unclear	high	unclear	low	low	unclear/high
Jyothi 2011 [48]	unclear	unclear	high	low	low	low	unclear/high
Karaman 2012 [49]	unclear	unclear	high	low	low	low	unclear/high
Kim 2009 [50]	unclear	unclear	high	low	low	low	unclear/high
Koubi 2006 [51]	unclear	unclear	high	low	high	high	unclear/high
Krämer 2006 [52]	unclear	unclear	high	unclear	low	low	unclear/high
Kubo 2006 [53]	unclear	unclear	high	low	low	low	unclear/high
Kubo 2009 [54]	unclear	unclear	high	low	low	low	unclear/high
Kubo 2010 [55]	low	unclear	high	low	low	low	unclear/high
Kurokawa 2007 [56]	unclear	unclear	high	unclear	low	low	unclear/high
Logueicio 2007 [57]	low	unclear	high	unclear	low	low	unclear/high
Loguercio 2007 [58]	unclear	unclear	high	low	low	low	unclear/high
Mahmoud 2008 [59]	unclear	unclear	high	unclear	low	low	unclear/high
Mahmoud 2014 [60]	unclear	unclear	high	unclear	low	low	unclear/high
Mahmoud 2014 [61]	low	unclear	high	low	low	low	unclear/high
Manhart 2010 [62]	low	unclear	high	low	low	low	unclear/high
Monteiro 2010 [63]	unclear	unclear	high	high	low	low	unclear/high
Moosavi 2013 [64]	unclear	unclear	high	low	low	low	unclear/high
Moretto 2013 [65]	low	unclear	high	low	low	low	unclear/high
Pascon 2006 [66]	low	unclear	high	low	low	low	unclear/high
Paula 2015 [67]	low	low	high	low	low	low	unclear/high
Pazinatto 2012 [68]	low	unclear	high	low	low	low	unclear/high
Perdigao 2005 [69]	unclear	unclear	high	low	low	low	unclear/high
Perdigao 2009 [70]	unclear	unclear	high	low	low	low	unclear/high
Perdigao 2012 [71]	unclear	unclear	high	low	low	low	unclear/high
Perdigao 2012 [72]	unclear	unclear	high	high	low	low	unclear/high
Peumans 2012 [73]	low	unclear	high	low	high	low	unclear/high
Pollington 2008 [74]	low	unclear	high	high	low	low	unclear/high
Poon 2005 [75]	unclear	unclear	high	unclear	low	low	unclear/high
Qin 2013 [76]	unclear	unclear	high	low	low	low	unclear/high

Table S2. Cont.

Trial ID	Sequence Generation	Allocation Concealment	Blinding of Operator	Blinding of Examiner	Incomplete Data	Selective Reporting	Overall Risk of Bias
Reis 2009 [77]	low	unclear	high	high	low	low	unclear/high
Reis 2009 [78]	low	unclear	high	low	low	low	unclear/high
Ritter 2009 [79]	low	unclear	high	unclear	low	low	unclear/high
Saboia 2006 [80]	unclear	unclear	high	low	low	low	unclear/high
Sadeghi 2010 [81]	unclear	unclear	high	low	low	low	unclear/high
Santiago 2010 [82]	unclear	unclear	high	high	low	low	unclear/high
Schattenberg 2008 [83]	unclear	unclear	high	unclear	low	low	unclear/high
Schirrmeister 2009 [84]	low	unclear	high	low	low	low	unclear/high
Schmidt 2014 [85]	low	unclear	high	low	low	low	unclear/high
Shi 2010 [86]	low	unclear	high	low	low	low	unclear/high
Söderholm 2013 [87]	low	unclear	high	unclear	low	low	unclear/high
Stojanac 2013 [88]	unclear	unclear	high	low	low	low	unclear/high
Torres 2010 [89]	unclear	unclear	high	unclear	high	high	unclear/high
Tuncer 2013 [90]	low	low	high	low	low	low	low
Tuncer 2014 [91]	unclear	unclear	high	low	low	low	unclear/high
Türkün 2005 [92]	unclear	unclear	high	unclear	low	low	unclear/high
Türkün 2008 [93]	unclear	unclear	high	unclear	low	low	unclear/high
Turner 2008 [94]	unclear	unclear	high	low	low	low	unclear/high
van Dijken 2005 [95]	unclear	unclear	high	unclear	low	low	unclear/high
van Dijken 2006 [96]	unclear	unclear	high	low	low	low	unclear/high
van Dijken 2007 [97]	unclear	unclear	high	unclear	low	low	unclear/high
van Dijken 2008 [98]	unclear	unclear	high	unclear	low	low	unclear/high
van Dijken 2009 [99]	unclear	unclear	high	unclear	low	low	unclear/high
van Dijken 2010 [100]	unclear	unclear	unclear	unclear	low	low	unclear/high
van Dijken 2012 [101]	low	unclear	high	low	low	low	unclear/high
van Dijken 2013 [102]	unclear	unclear	high	high	low	low	unclear/high
van Dijken 2013 [103]	unclear	unclear	high	low	low	low	unclear/high
van Dijken 2014 [104]	low	unclear	high	low	low	low	unclear/high
van Dijken 2014 [105]	low	unclear	high	high	low	low	unclear/high
van Dijken 2014 [106]	low	unclear	high	low	low	low	unclear/high
van Dijken 2015 [107]	low	unclear	high	low	low	low	unclear/high
van Landuyt 2014 [108]	low	unclear	high	low	low	low	unclear/high
Yaman 2014 [109]	unclear	unclear	high	low	low	low	unclear/high
Yazici 2014 [110]	low	unclear	high	low	low	low	unclear/high
Zander-Grande 2011 [111]	unclear	unclear	high	low	low	low	unclear/high
Zander-Grande 2014 [112]	low	low	high	low	low	low	low
Zhou 2009 [113]	low	unclear	high	low	low	low	unclear/high
Zulfikaroglu 2008 [114]	unclear	unclear	high	low	low	low	unclear/high

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