



UNC
DENTISTRY

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Clinical Evaluation of One-Bottle Dentin Adhesives
"Kerr OptiBond Solo Study"
Report of 8-Year Recall Evaluation (abbreviated)

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Table 1. Direct evaluation data (OptiBond Solo). Categories are color match, marginal discoloration, recurrent caries, wear, marginal integrity, surface texture, post-op sensitivity (query and air), retention and other failure.

DBA	Pt #	Rest #	M/F	Age	Site	Oper	Insertion Date	8Y CM	8Y MD	8Y RC	8Y W	8Y MI	8Y ST	8Y PSQ	8Y PSA	8Y R	8Y OF
OBS	1	1	F	44	28F		5/22/97										
OBS	1	2	F	44	29F		5/22/97										
OBS	2	3	F	52	27F	KM	5/28/97	A	B	A	B	B	A	A	A	A	A
OBS	2	4	F	52	30F	KM	5/28/97										
OBS	3	5	M	53	20F	ES	5/30/97	A	C	A	A	A	A	A	A	A	A
OBS	4	6	F	48	10F	HH	6/12/97	A	A	A	A	A	A	A	A	A	A
OBS	4	7	F	48	11F	HH	6/12/97	A	A	A	A	A	A	A	A	A	A
OBS	5	8	M	63	28F	TR	6/30/97	-	-	-	-	-	-	-	-	C	-
OBS	5	9	M	63	31F	TR	6/30/97	-	-	-	-	-	-	-	-	C	-
OBS	6	10	F	36	29F	ES	7/18/97										
OBS	7	11	F	46	4F	ES	7/18/97	-	-	-	-	-	-	-	-	C	-
OBS	8	12	F	64	6F	HH	7/24/97										
OBS	8	13	F	64	11F	HH	7/24/97										
OBS	9	14	M	58	29F	AW	6/17/97	A	A	A	B	B	A	A	A	A	A
OBS	9	15	M	58	30F	AW	6/17/97	A	A	A	C	C	A	A	A	A	A
OBS	10	16	F	44	29F	ES	8/1/97	A	B	A	A	B	A	A	A	A	A
OBS	11	17	F	51	5F	JP	8/19/97										
OBS	12	18	F	56	5F	TR	9/16/97										
OBS	12	19	F	56	6F	TR	9/16/97										
OBS	12	20	F	56	7F	TR	9/16/97	-	-	-	-	-	-	-	-	C	-
OBS	13	21	F	62	6F	AW	9/17/97	A	A	A	A	A	A	A	A	A	A
OBS	13	22	F	62	11F	AW	9/17/97	A	A	A	A	A	A	A	A	A	A
OBS	14	23	F	57	11F	HH	9/18/97	A	B	A	A	B	A	A	A	A	A
OBS	14	24	F	57	14F	HH	9/18/97	-	-	-	-	-	-	-	-	C	-
OBS	3	25	M	53	19F	AW	9/24/97	A	B	A	A	B	A	A	A	A	A
OBS	15	26	M	62	11F	JP	9/30/97	*	*	*	*	*	*	*	*	*	*
OBS	15	27	M	62	12F	JP	9/30/97	*	*	*	*	*	*	*	*	*	*
OBS	12	28	F	56	28F	JP	10/7/97	A	A	A	A	B	A	A	A	A	A
OBS	12	29	F	56	29F	JP	10/7/97	-	-	-	-	-	-	-	-	C	-
OBS	12	30	F	56	30F	JP	10/7/97	A	B	A	A	B	A	A	A	A	A
OBS	16	31	M	45	30F	JP	10/7/97	A	B	A	A	A	A	A	A	A	A
OBS	14	32	F	57	29F	HH	10/16/97	A	B	A	A	A	A	A	A	A	A
OBS	11	33	F	41	28F	JP	10/21/97										
OBS	11	34	F	41	29F	JP	10/21/97										
OBS	17	35	F	51	11F	JS	11/3/97	-	-	-	-	-	-	-	-	C	-
OBS	17	36	F	51	12F	JS	11/3/97	A	B	A	A	A	A	A	A	A	A
OBS	23	37	F	27	3F	KM	11/12/97										
OBS	23	38	F	27	4F	KM	11/12/97										
OBS	24	39	M	30	5F	ES	11/17/97	A	A	A	A	A	A	A	A	A	A
OBS	24	40	M	30	12F	ES	11/17/97	A	A	A	A	A	A	A	A	A	A
OBS	26	41	M	72	27F	JS	11/17/97										
OBS	26	42	M	72	29F	JS	11/17/97										
OBS	27	43	F	75	23F	TR	11/18/97										
OBS	27	44	F	75	24F	TR	11/18/97										
OBS	28	45	F	54	12F	KM	11/19/97	A	B	A	A	A	A	A	A	A	A
OBS	28	46	F	54	14F	KM	11/19/97	A	B	A	A	A	A	A	A	A	A
OBS	20	47	M	77	21F	KM	12/2/97										
OBS	20	48	M	77	28F	KM	12/2/97										
OBS	32	49	F	46	20F	AW	12/10/97	-	-	-	-	-	-	-	-	C	-
OBS	32	50	F	46	21F	AW	12/10/97	-	-	-	-	-	-	-	-	C	-

Total number of restorations recalled:	29									
Total number of B's per category:	0	10	0	2	7	0	0	0	0	0
Total number of C's per category:	0	1	0	1	1	0	0	0	9	0
Percentage of B's per category: (denominator = 20)	0	50	0	10	35	0	0	0	0	0
Percentage of C's (failures) per category: (denominator = 20; R, 29)	0	5	0	5	5	0	0	0	31	0

Restorations unavailable for recall (declined to participate, moved out of state, not able to contact, poor health or tooth crowned)
 Restorations missing at previous recalls (18-month or 3-year recalls)
 Bravo and charlie ratings highlighted

* Restorations excluded from study; carious dentin existed at insertion appointment

Table 2. Direct evaluation data (Prime & Bond 2.1). Categories are color match, marginal discoloration, recurrent caries, wear, marginal integrity, surface texture, post-op sensitivity (query and air), retention and other failure.

DBA	Pt #	Rest #	M/F	Age	Site	Oper	Insertion Date	8Y CM	8Y MD	8Y RC	8Y W	8Y MI	8Y ST	8Y PSQ	8Y PSA	8Y R	8Y OF
PB2.1	2	1	F	52	29F	KM	5/28/97	-	-	-	-	-	-	-	-	C	-
PB2.1	4	2	F	48	5F	HH	6/12/97	A	A	A	A	A	A	A	A	A	A
PB2.1	5	3	M	62	29F	TR	6/30/97	-	-	-	-	-	-	-	-	C	-
PB2.1	7	4	F	48	5F	RS	7/18/97										
PB2.1	8	5	F	64	21F	JP	7/31/97										
PB2.1	10	6	F	44	30F	ES	8/1/97	-	-	-	-	-	-	-	-	C	-
PB2.1	11	7	F	48	4F	JP	8/9/97										
PB2.1	18	8	F	55	12F	AW	8/27/97										
PB2.1	18	9	F	55	15F	AW	8/27/97										
PB2.1	13	10	F	62	5F	AW	9/3/97	B	A	A	A	A	A	A	A	A	A
PB2.1	13	11	F	62	4F	AW	9/3/97	B	A	A	A	A	A	A	A	A	A
PB2.1	14	12	F	52	12F	ES	9/8/97	A	B	A	A	A	A	A	A	A	A
PB2.1	14	13	F	53	5F	HH	9/4/97	A	B	A	A	A	A	A	A	A	A
PB2.1	13	14	F	62	3F	AW	9/17/97	B	A	A	A	A	A	A	A	A	A
PB2.1	12	15	F	56	20F	TR	9/28/97	-	-	-	-	-	-	-	-	C	-
PB2.1	12	16	F	56	21F	TR	9/28/97	A	B	A	A	A	A	A	A	A	A
PB2.1	11	17	F	41	12F	JP	9/30/97										
PB2.1	11	18	F	41	20F	JP	9/30/97										
PB2.1	11	19	F	41	21F	JP	9/30/97										
PB2.1	14	20	F	57	20F	AW	10/8/97	-	-	-	-	-	-	-	-	C	-
PB2.1	14	21	F	57	21F	AW	10/8/97	-	-	-	-	-	-	-	-	C	-
PB2.1	16	22	F	45	28F	JP	10/7/97	A	A	A	A	A	A	A	A	A	A
PB2.1	16	23	F	45	29F	JP	10/7/97	A	A	A	A	A	A	A	A	A	A
PB2.1	14	24	F	57	28F	HH	10/16/97	A	B	A	A	A	A	A	A	A	A
PB2.1	20	25	M	77	6F	HH	10/30/97										
PB2.1	20	26	M	77	11F	HH	10/30/97										
PB2.1	20	27	M	77	12F	HH	10/30/97										
PB2.1	17	28	F	51	6F	JS	11/3/97	-	-	-	-	-	-	-	-	C	-
PB2.1	17	29	F	51	10F	JS	11/3/97										
PB2.1	21	30	M	50	6F	TR	11/4/97										
PB2.1	21	31	M	50	11F	TR	11/4/97										
PB2.1	22	32	F	41	12F	JS	11/10/97										
PB2.1	22	33	F	41	13F	JS	11/10/97										
PB2.1	25	34	M	63	11F	ES	11/17/97	B	A	A	A	A	A	A	A	A	A
PB2.1	25	35	M	63	23F	ES	11/17/97	A	A	A	A	A	A	A	A	A	A
PB2.1	27	36	F	75	25F	TR	11/18/97										
PB2.1	27	37	F	75	26F	TR	11/18/97										
PB2.1	28	38	F	54	21F	KM	11/19/97										
PB2.1	29	39	F	53	29F	ES	11/24/97	-	-	-	-	-	-	-	-	C	-
PB2.1	29	40	F	53	30F	ES	11/24/97										
PB2.1	23	41	F	27	29F	TR	12/2/97										
PB2.1	23	42	F	27	30F	TR	12/2/97										
PB2.1	23	43	F	27	31F	TR	12/2/97										
PB2.1	4	44	F	48	8F	AW	12/3/97	A	A	A	A	A	A	A	A	A	A
PB2.1	4	45	F	48	22F	AW	12/3/97	A	A	A	A	A	A	A	A	A	A
PB2.1	30	46	F	61	14F	ES	12/8/97	-	-	-	-	-	-	-	-	C	-
PB2.1	31	47	F	51	5F	JS	12/8/97	-	-	-	-	-	-	-	-	C	-
PB2.1	31	48	F	51	12F	JS	12/8/97										
PB2.1	32	49	F	46	19F	AW	12/10/97	-	-	-	-	-	-	-	-	C	-
PB2.1	33	50	F	40	5F	JS	12/15/97	A	A	A	A	A	A	A	A	A	A
PB2.1	33	51	F	40	28F	JS	12/15/97	A	B	A	A	A	A	A	A	A	A

Total number of restorations recalled:	27																
Total number of B's per category:	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total number of C's per category:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Percentage of B's per category: (denominator = 16)	25	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percentage of C's (failures) per category: (denominator = 16; R, 27)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0

Restorations unavailable for recall (declined to participate, moved out of state, not able to contact, poor health or tooth crowned)
 Restorations missing at previous recalls (18-month or 3-year recalls)
 Bravo and charlie ratings highlighted

Table 3. Direct evaluation data summary (% *alfa*)OptiBond Solo*

Category	BL	8 Year
Recall rate	46/46 = 100%	29/46 = 63%
Retention	46/46 = 100%	20/29 = 69%
Color match	46/46 = 100%	20/20 = 100%
Marginal discoloration	46/46 = 100%	9/20 = 45%
Recurrent caries	46/46 = 100%	20/20 = 100%
Wear	46/46 = 100%	17/20 = 85%
Marginal integrity	46/46 = 100%	12/20 = 60%
Post-op sensitivity (Q&A)	46/46 = 100%	20/20 = 100%
Other failure	46/46 = 100%	20/20 = 100%

*There were 46 OptiBond Solo restorations included in the study, although fifty restorations were placed initially. Restorations 1 & 2 were excluded because patient #1 moved out of state soon after the baseline appointment, so the two restorations were never unavailable for recall evaluation. Restorations 25 & 26 were also excluded because carious dentin existed when the restorations were placed.

Prime & Bond 2.1

Category	BL	8 Year
Recall rate	51/51 = 100%	27/51 = 53%
Retention	51/51 = 100%	16/27 = 59%
Color match	51/51 = 100%	12/16 = 75%
Marginal discoloration	51/51 = 100%	11/16 = 69%
Recurrent caries	51/51 = 100%	16/16 = 100%
Wear	51/51 = 100%	16/16 = 100%
Marginal integrity	51/51 = 100%	16/16 = 100%
Post-op sensitivity (Q&A)	49/51 = 96%	16/16 = 100%
Other failure	51/51 = 100%	16/16 = 100%