

**Supplementary Table 1 Mean change scores from baseline, SD and adjusted between group differences for main outcomes and for each subgroup at all follow-up time points (Note that 3days/1week, 3days\_2weeks/1week, and 2weeks/1week use only the 1 week follow-up from the Australian-based trial)**

	Time point	Vertebroplasty			Placebo			Adjusted between group difference	95% CI	
		n	Mean	SD	n	Mean	SD			
Pain	3days/1week	103	2.3	2.9	100	2.9	2.8	-0.5	-1.3	0.2
	3days_2weeks/1week	105	2.2	2.7	100	2.7	2.7	-0.4	-1.1	0.3
	2weeks/1week	102	2.2	2.8	99	2.5	3.0	-0.2	-0.9	0.6
	1 month	102	2.8	3.0	99	2.2	3.2	0.6	-0.2	1.4
RMDQ	3days/1week	95	2.8	4.6	89	4.3	5.4	-1.0	-2.4	0.4
	3days_2weeks/1week	97	3.0	4.3	89	4.3	5.0	-0.9	-2.2	0.4
	2weeks/1week	94	3.2	5.1	88	4.4	5.2	-0.8	-2.2	0.7
	1 month	94	4.1	5.9	89	3.9	6.1	0.8	-0.9	2.4
EQ5D (US)	1 month	94	0.12	0.19	88	0.11	0.23	0.03	-0.02	0.08

**SUB GROUPS**

**Pain duration**

**Pain scores**

≤6weeks	3days/1week	24	2.5	2.3	32	3.2	3.4	-0.7	-2.0	0.7
	3days_2weeks/1week	25	2.4	2.5	32	3.2	3.4	-0.9	-2.1	0.4
	2weeks/1week	25	2.4	2.9	31	2.9	3.7	-0.7	-2.1	0.7
	1 month	25	3.1	3.3	31	2.8	4.0	0.1	-1.4	1.6
>6 weeks	3days/1week	79	2.2	3.1	68	2.8	2.5	-0.4	-1.3	0.4
	3days_2weeks/1week	80	2.2	2.8	68	2.5	2.4	-0.2	-1.0	0.6
	2weeks/1week	77	2.1	2.7	68	2.3	2.6	0.1	-0.8	0.9
	1 month	77	2.7	2.9	68	2.0	2.7	0.8	-0.1	1.8

**RMDQ scores**

≤6weeks	3days/1week	23	2.4	4.2	29	4.0	5.5	-0.8	-3.4	1.7
	3days_2weeks/1week	24	2.4	4.1	29	4.2	5.2	-1.3	-3.6	1.1
	2weeks/1week	24	2.3	4.5	28	4.5	5.4	-1.6	-4.3	1.0
	1 month	24	3.8	5.9	28	4.4	5.4	0.2	-3.0	3.4

>6 weeks	3days/1week	72	2.9	4.7	60	4.4	5.4	-1.0	-2.6	0.6
	3days_2weeks/1week	73	3.2	4.4	60	4.4	5.0	-0.7	-2.2	0.8
	2weeks/1week	70	3.5	5.3	60	4.4	5.2	-0.4	-2.1	1.3
	1 month	70	4.2	6.0	61	3.7	6.3	1.0	-1.0	3.0

### EQ5D (US) scores

≤6weeks	1 month	24	0.15	0.24	28	0.15	0.30	0.03	-0.06	0.13
>6 weeks	1 month	70	0.11	0.18	60	0.09	0.20	0.03	-0.03	0.09

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### Baseline pain score

#### Pain scores

Pain<8	3days/1week	55	1.4	2.7	51	2.1	2.3	-0.7	-1.7	0.4
	3days_2weeks/1week	56	1.4	2.6	51	1.7	2.2	-0.2	-1.1	0.8
	2weeks/1week	55	1.5	2.7	51	1.3	2.4	0.4	-0.7	1.4
	1 month	56	1.9	2.8	52	1.1	2.8	0.8	-0.3	1.9
Pain≥8	3days/1week	48	3.4	2.8	49	3.8	3.0	-0.4	-1.5	0.6
	3days_2weeks/1week	49	3.2	2.5	49	3.8	2.8	-0.7	-1.7	0.3

2weeks/1week	47	3.0	2.6	48	3.7	3.0	-0.8	-1.8	0.3
1 month	46	3.9	2.9	47	3.5	3.2	0.3	-0.8	1.5

**RMDQ scores**

Pain<8	3days/1week	51	2.5	3.7	48	4.1	4.6	-1.3	-3.2	0.6
	3days_2weeks/1week	52	2.9	4.1	48	4.2	4.6	-1.0	-2.7	0.7
	2weeks/1week	51	3.3	5.4	48	4.3	5.0	-0.6	-2.5	1.4
	1 month	52	4.2	6.0	49	4.4	6.4	0.2	-2.1	2.5
Pain≥8	3days/1week	44	3.2	5.4	41	4.4	6.2	-0.6	-2.7	1.4
	3days_2weeks/1week	45	3.2	4.6	41	4.4	5.5	-0.8	-2.7	1.1
	2weeks/1week	43	3.012	4.8	40	4.5	5.5	-1.0	-3.2	1.2
	1 month	42	4.1	5.9	40	3.3	5.6	1.39	-1.2	3.9

**EQ5D (US) scores**

Pain<8	1 month	55	0.09	0.17	48	0.07	0.21	0.02	-0.04	0.09
Pain≥8	1 month	42	0.16	0.21	40	0.15	0.25	0.05	-0.03	0.12

SD = standard deviation, CI = confidence interval. ‡ Estimates of mean change from regression models adjusting for trial. Positive values for mean change indicate improvements from baseline. Positive values for between group differences favour the vertebroplasty group, negative values favour the placebo group. \*modified, 23-question Roland-Morris Disability Questionnaire.