Appendix 10: Results of fitted models

OUTCOME	Pain					Ra	ndom effect	standard dev	viations and	correlations	6
	Week	Number	Number of	Range of observed	FP	Study	14 /5 - 1-4	W	Study,	Study,	Week1,
	definition	of studies	observations	weeks	powers	(constant)	Week1	Week2	Week1	Week2	Week2
Primary an	•	24	400	0. 50		40.07700	40.04764	40.04764			
Acute	Uncorrected	31	103	0 to 52	-1 -1	10.07786	13.94761	13.94761	NE	NE	NE
		Pooled pair	n score = 20.376	67 + 35.1727	3 * (Week +	+ 1) ⁽⁻¹⁾ + 1.9278	829 * (Week	+ 1) ⁽⁻¹⁾ * In (W	eek + 1)		
Subacute	Uncorrected	10	27	0 to 52	-0.5 -0.5	22.21845	12.04136	12.04136	-0.91737	-0.86213	0.58921
		Pooled pair	n score = 46.187	99 + 16.8132	08 * (Week	(+ 1) ^(-0.5) - 31.5	52878 * (Wee	k + 1) ^(-0.5) * In	(Week + 1)		
Persistent	Uncorrected	3	7	0 to 52	0	16.35877	1.127073	NE	-1	NE	NE
		Pooled pair	n score = 55.614 ⁻	77 - 3.85617	* In (Week	+ 1)					
	Inception			0.15 to							
Acute	corrected	25	84	57.3	-1 -1	13.47481	72.20967	49.67608	NE	NE	NE
		Pooled pair	n score = 20.388	64 + 116.566	59 * (Week	(+ 1) ⁽⁻¹⁾ - 28.94	1434 * (Week	+ 1) ⁽⁻¹⁾ * In (W	Veek + 1)		
	Inception										
Subacute	corrected	7	18	6 to 59.4	-2 -2	10.20384	436.5065	343.3817	NE	NE	NE
		Pooled pair	n score = 36.015	06 + 6829.37	88 * (Week	.) ⁽⁻²⁾ - 2895.11	84 (Week) ⁽⁻²⁾	* In (Week)			
	Inception			12.9 to							
Persistent	corrected	3	7	79.7	0	34.30757	5.728624	NE	NE	NE	NE
		Pooled pair	n score = 93.9532	25 - 12.72855	5 * In (Weel	k + 1)					

Sensitivity	Analysis 1: Stua	lies with parti	icipants exclu	ding leg pain/	<i>sciatica</i>						
Acute	Uncorrected	12	34	0 to 52	-2 -2	9.887039	12.99734	172.532	NE	NE	NE
		Pooled pain	score = 20.41	1124 + 36.1132	15 * (Week +	+ 1) ⁽⁻²⁾ + 26.642	243 * (Week +	- 1) ⁽⁻²⁾ * In (W	eek + 1)		
Subacute	Uncorrected	3	9	0 to 54	0 -0.5	4.019173	4.840804	6.814654	1	-1	-1
		Pooled pain	score = 27.79	9144 - 51.1599	7 * ln (Weel	k + 1) + 32.76	6466* (Week	+ 1) ^(-0.5)			
Persistent	Uncorrected	2	5	0 to 52	NE	NE	NE	NE	NE	NE	NE
		Model not f	itted due to s	ample size							
Acute	Inception corrected	11	32	0.15 to 52.7	-1 1	25.71545	72.94368	0.39809	NE	NE	NE
	conceleu										NL
		Pooled pain	score = 1.64t	5697 + 114.512	2 * (Week +	1)(+/ + 0.0585.	2 * (Week + 1)			
Subacute	Inception	2	0		2 2	11 27040					
	corrected	3	9	6 to 59.4	-2 -2	11.37849	NE	NE	NE	NE	NE
		Pooled pain	score = 31.70	0568 + 10658.7	71 * (Week +	+ 1) ⁽⁻²⁾ - 4568.2	235 * (Week +	- 1) ⁽⁻²⁾ * In (W	eek + 1)		
	Inception			12.9 to							
Persistent	corrected	2	5	79.7	NE	NE	NE	NE	NE	NE	NE
		Model not f	itted due to s	ample size							
Sonsitivity	Analysis 2: stua	lies with nart	icinants age	d 18 – 60 veg	rs old						
Acute	Uncorrected	6	25	0 to 52	-2 -2	5.499122	13.59919	226.6439	NE	NE	NE
		Pooled pain	score = 20.74	4173 + 29.1144	18 * (Week +	+ 1) ⁽⁻²⁾ + 55.71	544 * (Week -	+ 1) ⁽⁻²⁾ * In (W	'eek + 1)		
Subacute	Uncorrected	3	10	0 to 52	-0.5 -0.5	63.9193	45.94143	98.14196	-0.99684	-0.98146	0.96313

		Pooled pain	score = 60.423	315 + 6.23514	4*(Week +	· 1) ^(-0.5) - 65.42	005 * (Week	+ 1) ^(-0.5) * In (W	eek + 1)		
Persistent Acute	Uncorrected Inception	Model not fi	tted due to no	o observations 0.7 to	5						
	corrected	5	20	57.2	-2 -1	6.278824	376.8231	122.7733	NE	NE	NE
		Pooled pain	score = 18.18	8318 + 120.25	15 * (Weel	< + 1) ⁽⁻²⁾ + 43.02	1462 * (Week	(+ 1) ⁽⁻¹⁾			
Subacute	Inception			6.1 to							
	corrected	3	10	59.1	-2 -2	7.947413	.0000186	672.1803	NE	NE	NE
		Pooled pain	score = 32.08	345 + 12594.8	6 * (Week	+ 1) ⁽⁻² - 5032.23	34 * (Week +	1) ⁽⁻²⁾ * In (Wee	ks + 1)		
	Inception										
Persistent	corrected	Model not fi	tted due to no	o observations	5						

FP – fractional polynomial; In – natural logarithm (base e); NE – not estimated as 1) not required for lowest BIC model or 2) would not converge.

OUTCOME:	Disability					Ran	ndom effect	standard de	viations an	d correlatio	ns
				Range of							
	Week	Number	Number of	observed	FP	Study			Study,	Study,	Week1,
	definition	of studies	observations	weeks	powers	(constant)	Week1	Week2	Week1	Week2	Week2
Primary and	alyses										
Acute ¹	Uncorrected	30	96	0 to 52	-2 -2	8.666543	13.33512	128.1133	NE	NE	NE
		Pooled disability score = 17.1712 + 26.1946 * (Week + 1) ⁽⁻²⁾ + 118.6091 * (Week + 1) ⁽⁻²⁾ * In (Week +									
		1)									
		9									
Subacute	Uncorrected		24	0 to 52	-2 -2	12.51626	8.293791	9.92e-08	NE	NE	NE
		Pooled disal	bility score = 24.4	16105 + 19.46	542 * (Wee	ek + 1) ⁽⁻²⁾ + 10 ⁻	7.7813 * (W	eek + 1) ⁽⁻²⁾ *	In (Week +	1)	
			,		,		,	,	·		
Persistent ¹	Uncorrected	4	8	0 to 52	0	23.6969	0.515904	NE	NE	NE	NE
reisistent	oncorrected						0.515504				
		Pooled disal	bility score = 57.4	17356 + 0.456	1952 * ln (Week + 1)					
	Inception			0.15 to	-0.5 -						
Acute	corrected	25	77	57.3	0.5	6.523719	38.67786	23.00523	NE	NE	NE
		Pooled disal	bility score = 26.5	50534 + 70.60	417 *(Wee	ek + 1) ^(-0.5) - 39	.60865 * (W	eek + 1) ^(-0.5)	* In (Week ·	+ 1)	
	Inception	6									
Subacute	corrected	0	15	6.1 to 59.4	-2 -0.5	12.36358	216.0477	31.61317	NE	NE	NE
		Pooled disal	bility score = 16.7	/9/13 + 444.2	6881 * (We	eek) (² / + 52.0	5195 * (Wee	(K)			
	Inception			12.9 to							
Persistent	corrected	3	7	79.7	0	53.30313	8.503521	NE	NE	NE	NE
		Pooled disal	bility score = 100	.8367 - 15.965	55 * ln (We	eek + 1)					
Constitution		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·								
	•	•	ipants excluding	••••		2 504270	10 04246	102 7019	NE	NE	NE
Acute	Uncorrected	11	32	0 to 52	-2 -2	3.584278	10.94346	103.7918	NE	NE	NE

		Pooled disa	bility score = 12	2.42407 + 31.452	4 * (Wee	k + 1) ⁽⁻²⁾ + 50.8	484 * (Wee	k + 1) ⁽⁻²⁾ * In	(Week + 1)		
Subacute	Uncorrected	3	8	0 to 52	-2 -0.5	15.31629	NE	NE	NE	NE	NE
		Pooled disa	bility score = 15	5.30678 -21.9222	24* (Week	(+ 1) ⁽⁻²⁾ + 53.6	6844 * (Wee	ek + 1) ^(-0.5)			
Persistent	Uncorrected	2	5	0 to 52							
		Model not f	itted due to sm	nall number of st	udies						
Acute	Inception corrected	10	28	0.15 to 52.7	-2 -2	4.765257	9.20263	155.9492	NE	NE	NE
		Pooled disa	bility score = 10	0.77144 + 60.163	282 * (We	ek + 1) ⁽⁻²⁾ + 15	0.586 * (We	eek + 1) ⁽⁻²⁾ *	ln (Week +	1)	
Subacute	Inception corrected	3	8	6.1 to 59.4	-2 3	17.39321	NE	NE	NE	NE	NE
		Pooled disa	bility score = 30	0.02852 + 1007.4	62 * (We	ek + 1) ⁽⁻²⁾ - 0.0	000538 * (V	/eek + 1) ⁽³⁾			
Persistent	Inception corrected	2	5	12.9 to 79.7							
		Model not f	itted due to sm	nall number of st	udies						
Sensitivity	Analysis 2: stud	ies with parti	cipants aged 1	18 – 60 years ol	d						
Acute	Uncorrected	6	22	0 to 52	-2 0.5	1.443772	4.30292	0.71037	0.96533	0.42053	0.16912
		Pooled disa	bility score = 13	3.64462 + 22.087	46 (Week	(x + 1) ⁽⁻²⁾ + 0.102	22855 * (We	ek + 1) ^(-0.5)			
Subacute	Uncorrected	2	7	0 to 44							
		Model not f	itted due to sm	nall number of st	udies						
Persistent	Uncorrected	Model not f	itted due to no	observations							
Acute	Inception corrected	4	13	1.16 to 57.3	-2 -2	7.648353	0.00047	122.9219	NE	NE	NE

Pooled disability score = 14.33847 + 122.4142 * (Week + 1) ⁽⁻²⁾ + 157.2816 * (Week + 1) ⁽⁻²⁾ * In (Week + 1)									
Subacute	Inception								
	corrected	2	7	8 to 52					
		Model not fit	ted due to sma	all number of s	tudies				
	Inception								
Persistent	corrected	Model not fit	ted due to no	observations					

 1 1 data point excluded because > 60 weeks.

FP – fractional polynomial; In – natural logarithm (base e); NE – not estimated as 1) not required for lowest BIC model or 2) would not converge.