

Online Supplementary Material A

Table A1

Actor-Partner Interdependence Model for Husband and Wife Health Sensitivity, Testing for Comorbidity and Presence of Spouse

	Positive Affect BCDS			Negative Affect BCDS			Positive Affect SOEP			Negative Affect SOE		
	Est.	<i>CI₉₅</i>		Est.	<i>CI₉₅</i>		Est.	<i>CI₉₅</i>		Est.	<i>CI₉₅</i>	
		LL	UL		LL	UL		LL	UL		LL	UL
Intercept husband	70.66**	67.14	74.18	18.60**	15.35	21.85	66.14**	64.09	68.20	16.93**	14.99	18.87
Intercept wife	69.26**	64.84	73.69	12.47**	16.90	24.03	32.24**	31.19	33.29	7.69**	6.75	8.64
Education husband	0.13	-0.79	1.06	0.23	-0.67	1.13	0.20	-0.44	0.85	0.17	-0.45	0.80
Education wife	1.10	-0.41	2.62	-1.07	-2.26	0.12	0.14	-0.22	0.50	-0.40*	-0.73	-0.07
Age husband	-0.05	-0.67	0.56	-0.58	-1.19	0.03	0.32	-0.02	0.66	-0.10	-0.45	0.21
Age wife	0.46	-0.49	1.40	-0.26	-1.01	0.52	0.03	-0.13	0.20	-0.06	-0.08	0.21
Rel. Sat. husband	-0.99	-5.30	3.33	-0.29	-4.48	3.91	3.08*	0.09	6.07	-4.10**	-7.01	-1.20
Rel. Sat. wife	0.56	-4.96	6.07	0.18	-4.23	4.59	2.54**	1.20	3.88	-2.57**	-3.81	-1.32
Neuroticism husband	3.16	-0.31	6.63	-3.83*	-7.34	-0.31	-3.58**	-5.87	-1.28	4.98**	-2.79	7.17
Neuroticism wife	-0.45	-4.88	3.98	-3.74*	-7.99	-1.01	-1.59*	-2.70	-0.49	1.72**	0.67	2.76
Comorbidity husband	-0.44	-1.40	0.52	1.02*	0.06	1.98	-1.01	-2.05	0.03	-0.12	-1.13	0.89
Comorbidity wife	-0.43	-1.64	0.78	0.02	-1.23	0.81	-0.70*	-1.25	-0.15	0.24	-0.28	0.75
Presence of spouse husband	-0.49	-2.68	1.70	-1.87	-4.03	0.28	1.31**	0.59	2.04	-0.13	-0.77	0.51
Presence of spouse wife	-0.53	-2.99	1.94	-2.32*	-4.51	-0.12	0.77**	0.33	1.21	-0.06	-0.44	0.32
Actor pain BP husband	-0.14	-0.33	0.04	0.09	-0.06	0.25	-0.05	-0.11	0.03	0.08*	0.01	0.15
Actor pain BP wife	-0.20*	-0.37	-0.08	0.25**	0.12	0.37	-0.05*	-0.09	-0.01	0.09**	0.04	0.12
Actor pain WP husband	-0.09	-0.19	-0.01	0.14*	0.09	0.20	-0.18**	-0.25	-0.12	0.25**	0.18	0.31

Actor pain WP wife	-0.36**	-0.57	-0.14	0.29**	0.11	0.40	-0.12**	-0.15	-0.08	0.09**	0.07	0.11
Actor pain <i>iSD</i> husband	-0.05	-0.41	0.31	0.34*	0.02	0.65	-0.04	-0.28	0.20	0.29*	0.06	0.51
Actor pain <i>iSD</i> wife	-0.23	-0.67	0.21	0.31	-0.01	0.64	-0.06	-0.16	0.03	0.12*	0.03	0.21
Partner pain BP husband	-0.05	-0.19	0.09	0.01	0.01	-0.12	-0.18	-0.38	0.03	0.01	-0.06	0.08
Partner pain BP wife	-0.11	-0.34	0.11	0.23*	0.06	0.40	-0.02	-0.14	0.10	0.01	-0.03	0.05
Partner pain WP husband	-0.03*	-0.06	-0.01	0.03*	0.01	0.06	-0.02*	0.01	0.06	0.02*	0.003	0.04
Partner pain WP wife	-0.004	-0.09	0.03	0.03*	0.001	0.07	-0.05**	-0.07	-0.02	0.01	-0.01	0.03
Partner pain <i>iSD</i> husband	0.09	-0.28	0.48	-0.15	-0.46	0.15	-0.18	-0.37	0.06	0.14	-0.05	0.36
Partner pain <i>iSD</i> wife	0.07	-0.37	0.51	-0.17	-0.49	0.16	-0.02	-0.14	0.12	0.02	-0.08	0.13
Age*Actor Pain*husband	-0.003	-0.03	0.02	0.009	-0.01	0.03	0.01*	0.000	0.02	-0.01	-0.01	0.005
Age*Actor Pain*wife	0.008	-0.02	0.04	-0.004	-0.02	0.02	0.01*	0.000	0.02	-0.01*	-0.008	-0.001
Rel. Sat*Actor Pain*husb.	-0.05	-0.17	0.08	0.04	-0.07	0.14	-0.09*	-0.18	-0.01	0.05	-0.04	0.14
Rel. Sat*Actor Pain*wife	-0.01	-0.16	0.14	0.05	-0.05	0.14	-0.05*	-0.08	-0.02	0.03*	0.01	0.06
Neuro.*Actor Pain*husband	-0.08	-0.19	0.03	-0.04	-0.16	0.08	-0.01	-0.07	0.08	0.06	-0.01	0.12
Neuro.*Actor Pain*wife	-0.02	-0.15	0.11	-0.02	-0.10	0.07	-0.002	-0.02	0.02	-0.00	-0.02	0.02
Comorb.*Actor Pain* husband	-0.01	-0.04	0.02	0.02*	0.002	0.05	-0.01	-0.04	-0.02	-0.01	-0.04	0.01
Comorb.*Actor Pain* wife	-0.01	-0.05	0.02	0.01	-0.01	0.04	-0.02	-0.05	-0.01	-0.004	-0.02	0.01
Spouse*Actor Pain*husband	-0.16*	-0.30	-0.01	0.19*	0.05	0.33	-0.03	-0.09	0.04	0.000	-0.06	0.06
Spouse* Actor Pain*wife	0.17	-0.03	0.38	-0.10	-0.28	0.08	-0.01	-0.04	0.02	0.005	-0.02	0.03
Age*Partner pain*husband	0.01	-0.005	0.02	-0.002	-0.04	0.01	-0.00	-0.01	0.002	-0.00	-0.000	0.000
Age*Partner pain*wife	0.003	-0.02	0.02	0.01	-0.01	0.02	-0.00	-0.000	0.000	0.003*	0.001	0.005
Rel. Sat*Partner pain*husb.	0.09*	0.02	0.15	-0.04	-0.11	0.01	-0.03	-0.06	0.002	0.03*	0.0003	0.06
Rel. Sat*Partner pain*wife	-0.02	-0.09	0.05	0.05	-0.02	0.09	-0.02	-0.001	0.04	0.02*	0.000	0.04
Neuro.*Partner pain*husb.	0.03	-0.02	0.09	0.003	-0.05	0.05	-0.02	-0.05	-0.004	0.01	-0.01	0.03

Neuro.*Partner pain*wife	0.03	-0.02	0.08	-0.04	-0.09	0.01	-0.003	-0.02	0.02	0.02	-0.000	0.03
Comorb.*Partner pain* husb.	-0.01	-0.05	0.03	0.01	-0.01	0.03	-0.003	-0.02	0.01	0.002	-0.01	0.01
Comorb.*Partner pain *wife	-0.01	-0.05	0.03	0.004	-0.02	0.04	-0.005	-0.01	0.004	-0.01	-0.01	0.003
Spouse*Partner pain *husb.	-0.07	-0.09	0.22	-0.07	-0.23	0.09	-0.04*	-0.08	-0.003	0.004	-0.03	0.04
Spouse*Partner pain*wife	-0.12	-0.30	0.06	0.10	-0.06	0.26	0.03*	0.003	0.07	0.002	-0.03	0.03
<i>Random Effects</i>												
Variance intercept husb.	108.78	70.09	148.19	79.21	51.90	126.84	124.60	99.99	157.63	110.65	87.98	131.93
Variance intercept wives	174.75	106.28	219.09	93.39	67.58	132.98	31.32	21.58	54.86	25.49	19.99	40.44
Variance pain WP husb.	0.03	-0.02	0.04	0.01	-0.01	0.04	0.04	-0.04	0.14	0.05	-0.001	0.08
Variance pain WP wives	0.05	0.001	0.08	0.02	-0.01	0.03	0.01	0.000	0.000	0.01	0.000	0.001
Cov. intercept H, W	83.01	28.54	121.41	26.78	-0.89	56.26	37.63	10.33	53.13	8.91	-0.83	18.88
Cov. pain WP H, int. H	0.48	-0.22	1.17	1.87	0.97	1.97	0.07	0.002	0.10	0.39	-0.11	0.93
Cov. pain WP W, int.H	0.09	0.002	0.12	0.15	0.002	0.21	0.12	0.06	0.17	0.05	-0.001	0.003
Cov. pain WP H, int.W	0.35	-0.48	1.18	0.44	-0.23	1.20	0.15	0.14	0.25	0.17	-0.10	0.43
Cov. pain WP W, int.W	0.008	0.001	0.02	0.46	-0.28	1.19	0.02	-0.06	0.001	0.04	0.002	0.09
Cov. pain WP W, H	0.005	-0.02	0.03	-0.002	-0.000	-0.01	-0.02	-0.002	0.002	0.002	0.000	0.005
Residual var. husband	168.28	157.74	179.70	145.37	134.13	152.00	128.01	91.93	157.84	102.46	98.36	105.14
Residual var. wife	104.92	104.88	127.42	110.25	110.07	123.41	173.63	120.02	192.31	134.92	131.43	137.20
Residual cov. husb., wife	24.89	17.96	29.00	40.87	31.45	45.99	33.95	27.90	40.83	22.90	19.80	25.41

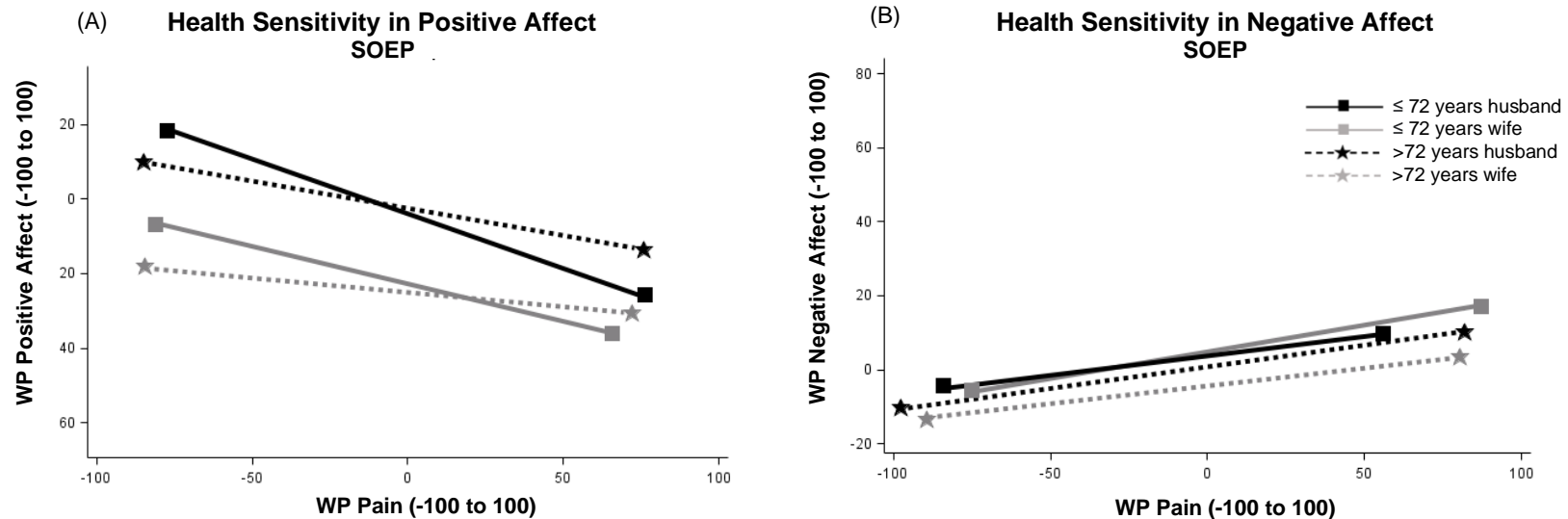
Notes. BCDS= Berlin Couple Dynamics Study, WP= within-person (momentary deviations from person-specific mean levels of pain), BP= between-person, *iSD*= individual standard deviation, Neuro.= neuroticism, Rel. Sat.= relationship satisfaction, Spouse= momentary presence of spouse, Comorb.= comorbidity, H= husband, W= wife, Cov.= covariance, Int. = intercept, Var.= variance.

* $p < .05$, ** $p < .01$.

Online Supplementary Material B

Figure B1

The Moderating Role of Age for Within-Person Health Sensitivity in SOEP

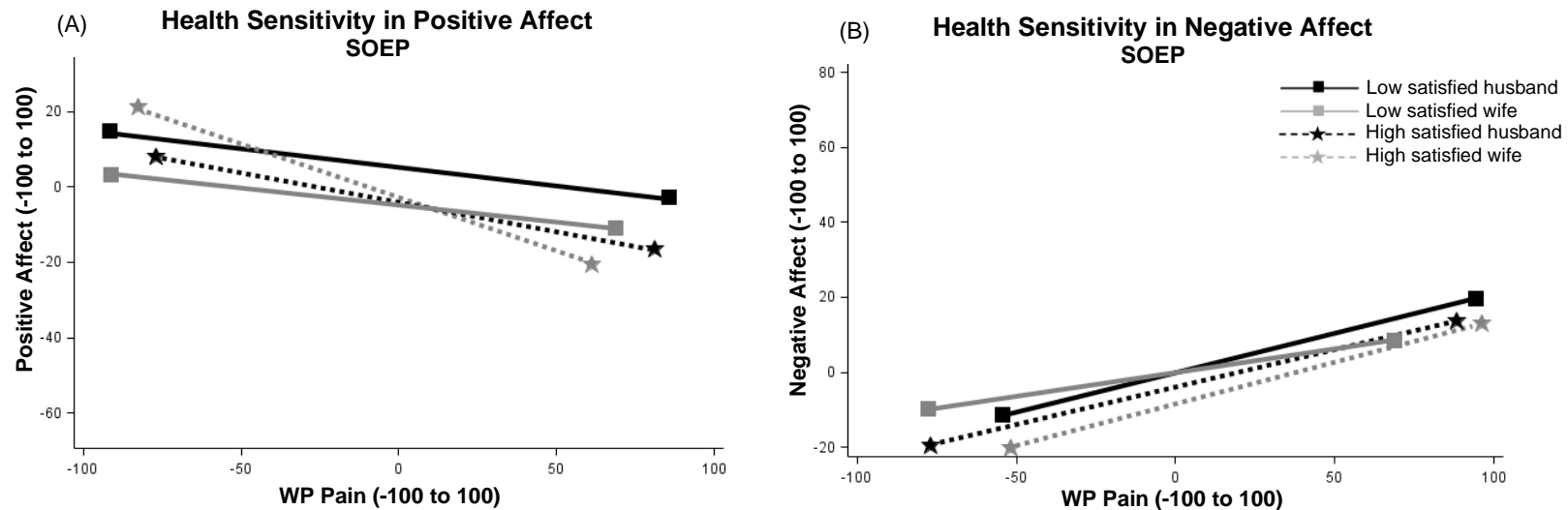


Note. Moments when husbands and wives reported more pain, they also reported lower positive affect (Panel A) and higher negative affect (Panel B). Using a median split, it can be seen that health sensitivity in positive affect (Panel A) was lower among husbands and wives aged 73 and older (star symbol on dotted line, black for husbands, grey for wives) relative to husbands and wives aged 72 and younger (square symbol on thick lines, black for husbands, grey for wives). It can also be obtained from Panel B that health sensitivity in negative affect was lower for wives aged 73 and older (star symbol on grey dotted line) relative to wives aged 72 and younger (square symbol on grey thick line), but not for husbands.

Online Supplementary Material C

Figure C1

The Moderating Role of Relationship Satisfaction for Within-Person Health Sensitivity in SOEP



Note. Moments when husbands and wives reported more pain, they also reported lower positive affect (Panel A) and higher negative affect (Panel B). Using a median split, it can be seen that such health sensitivity in positive affect (Panel A) was higher among husbands and wives with higher relationship satisfaction (star symbol on dotted lines, black for husbands, grey for wives) relative to husbands and wives with low relationship satisfaction (square symbol on thick lines, black for husbands, grey for wives). It can also be obtained from Panel B that health sensitivity in negative affect was higher for wives with high relationship satisfaction (star symbol on grey dotted line) relative to wives with low relationship satisfaction (star symbol on grey thick line), but not for husbands.