Appendix

Table 1. Measurement invariance test for negative exchanges across care status

	$\Delta \chi 2$	Δdf	P value
Weak factorial invariance (Metric invariance)	11.412	12	0.490
Strong factorial invariance (Scalar invariance)	47.207	16	<0.0001
Strong partial factorial invariance (Partial scalar invariance)	9.630	8	0.292

Note. We adjusted the $\chi 2$ using the Satorra-Bentler scaling correction because $\chi 2$ difference tests were conducted using the MLR estimator in Mplus.

Table 2. Results from the invariance test of structural paths in the APIM across care status

	$\Delta \chi 2$	Δdf	P value
Wives' perceived negative interactions with	4.574	2	0.102
husbands → Wives' depressive symptoms			
Husbands' perceived negative interactions	8.288	2	0.016
with husbands → Husbands' depressive			
symptoms			
Wives' perceived negative interactions with	3.768	2	0.152
husbands → Husbands' depressive symptoms			
Husbands' perceived negative interactions	0.060	2	0.970
with husbands → Wives' depressive			
symptoms			

Table 3. Measurement invariance test for negative exchanges between caregivers and care-recipients

	$\Delta \chi 2$	Δdf	P value
Weak factorial invariance (Metric invariance)	7.304	8	0.504
Strong factorial invariance (Scalar invariance)	59.460	6	<0.0001
Strong partial factorial invariance (Partial scalar invariance)	5.384	3	0.146

Note. We adjusted the χ^2 using the Satorra-Bentler scaling correction because χ^2 difference tests were conducted using the MLR estimator in Mplus.

Table 4. Results from the Wald test of path constraints in the APIM between men and women

	Wald test statistics	df	P value
Caregivers' perceived negative interactions	11.900	1	0.001
with care recipients → Caregivers' depressive			
symptoms			
Care recipients' perceived negative	1.234	1	0.266
interactions with caregivers → Care			
recipients' depressive symptoms			
Caregivers' perceived negative interactions	1.699	1	0.192
with care recipients → Care recipients'			
depressive symptoms			
Care recipients' perceived negative	0.035	1	0.851
interactions with caregivers → Caregivers'			
depressive symptoms			