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Couples' Catastrophizing and Co-Rumination

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Table S1

Descriptive statistics and bivariate correlations of the diary variables

		Mean		Reliability		Number of	Correlations						
Diary variables		(SD)	ICC	Rc	R _{KF}	$observations^{b} \\$	1	2	3	4	5	6	7
1	Catastrophizing, patient	0.35 (0.27)	0.77	0.76	0.996	1409		0.29**	0.68***	0.38***	0.46***	-0.13	0.07
2	Catastrophizing, spouse	0.46 (0.31)	0.75	0.73	0.996	1400	0.17***		0.45***	0.77***	0.34***	-0.31*	-0.34*
3	Co-rumination, patient	0.37 (0.44)	0.60	0.78	0.99	1313	0.28***	0.16***		0.48***	0.36***	0.04	0.12
4	Co-rumination, spouse	0.50 (0.50)	0.56	0.77	0.99	1287	0.19***	0.34***	0.30***		0.36***	-0.22*	-0.25*
5	Fatigue severity ^a , patient	4.38 (1.94)	0.56			1398	0.14***	0.10**	0.15***	0.21***		-0.19	-0.13
6	Relationship satisfaction ^a , patient	8.87 (0.72)	0.77			1384	0.06	-0.02	0.09	0.01	-0.06		0.61***
7	Relationship satisfaction ^a , spouse	8.73 (0.73)	0.78			1360	-0.01	-0.04	0.004	-0.09	-0.04	0.19**	

Note. SD, Standard Deviation, at the within-person level; ICC, Intraclass correlation.

Reliability coefficients were calculated as proposed by Cranford et al. (2006) and Shrout and Lane (2012). The within-person reliability coefficient, R_C , reflects whether there are reliable within-person differences in change over time. The between-person reliability coefficient, R_{KF} , reflects the reliability of the between-person diary average, calculated across persons and times. As the values are averaged across all assessments (K = 42 for catastrophizing, K = 14 for corumination), high values of > 0.9 are common.

Within-person correlations are displayed below the diagonal, and between-person correlations are displayed above the diagonal.

^a as measured in the evening; ^b maximum number of observations = 1414 (14 days x 101 participants); * p < .05; ** p < .05; *** p < .01.

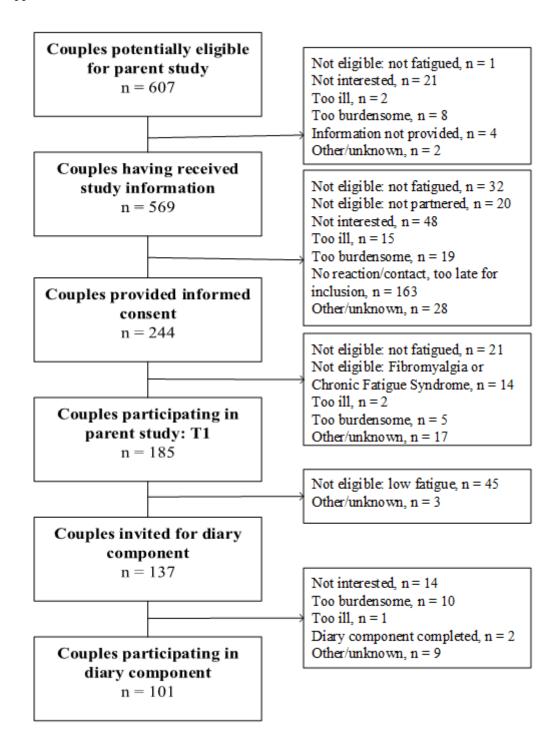


Figure S1. Flow-chart of participant recruitment.

Note. Couples were only included in case both couple members were interested in and eligible for our study. Hence, the reasons for exclusion referred to in the flow-chart (except for 'not fatigued') can apply to both members of the couple.

Despite checking the eligibility criteria via telephone screening prior to inclusion, some couples appeared to be ineligible only after having signed the consent form and having filled in the baseline questionnaire. This was due to more detailed information in the baseline questionnaire than in the telephone screening procedure, prompting us to exclude some couples that had already consented. Exclusion due to being 'too ill' includes patients or spouses who reported they did not feel well enough to participate in this study.

S1. Item list, translated from Dutch to English

1. Morning assessment

- a. *Fatigue severity*: How fatigued do you feel <u>right now</u>? (0. Not at all fatigued 10. As fatigued as I could be). Patient
- b. Negative affect*: (0. Not at all 4. Extremely). Patient
 - Right now, I feel bored.
 - Right now, I feel sad.
 - Right now, I feel angry.
 - Right now, I feel hopeless.
 - Right now, I feel panicky.
 - Right now, I feel nervous.
 - Right now, I feel depressed.
- c. Positive affect*: (0. Not at all 4. Extremely). Patient
 - Right now, I feel active.
 - Right now, I feel happy.
 - Right now, I feel relaxed.
 - <u>Right now</u>, I feel quiet.
 - Right now, I feel peppy.
 - Right now, I feel calm.
- d. *Relationship satisfaction*: How satisfied are you with your relationship <u>right now</u>? (0. Not at all satisfied 10. Extremely satisfied). Patient/Spouse
- e. Sleep*: (0. Not at all 4. Extremely). Patient
 - I have slept well tonight.
 - This morning, I felt rested after rising.
- f. *Catastrophizing*: (0. Not at all 4 Extremely)

- <u>Tonight</u>, I worried about my fatigue. Patient
- <u>Tonight</u>, I worried about my partner's fatigue. Spouse
- <u>Tonight</u>, I was anxious my fatigue would become worse. Patient
- Tonight, I was anxious my partner's fatigue would become worse. Spouse
- <u>Tonight</u>, I thought I could not bear the fatigue any longer. Patient
- Tonight, I thought I could not bear my partner's fatigue any longer. Spouse

2. Noon assessment

- a. *Fatigue severity*: How fatigued do you feel <u>right now</u>? (0. Not at all fatigued 10. As fatigued as I could be). Patient [Data not used in analyses]
- b. Negative affect*: (0. Not at all 4. Extremely). Patient
 - Right now, I feel bored.
 - Right now, I feel sad.
 - Right now, I feel angry.
 - Right now, I feel hopeless.
 - Right now, I feel panicky.
 - Right now, I feel nervous.
 - Right now, I feel depressed.
- c. Positive affect*: (0. Not at all 4. Extremely). Patient
 - Right now, I feel active.
 - Right now, I feel happy.
 - Right now, I feel relaxed.
 - Right now, I feel quiet.
 - Right now, I feel peppy.
 - Right now, I feel calm.

- d. *Catastrophizing:* (0. Not at all 4. Extremely)
 - Since rising, I worried about my fatigue. Patient
 - <u>Since rising</u>, I worried about my partner's fatigue. Spouse
 - Since rising, I was anxious my fatigue would become worse. Patient
 - Since rising, I was anxious my partner's fatigue would become worse. Spouse
 - <u>Since rising</u>, I thought I could not bear the fatigue any longer. Patient
 - Since rising, I thought I could not bear my partner's fatigue any longer. Spouse

3. Evening assessment

- a. *Fatigue severity*: How fatigued do you feel <u>right now</u>? (0. Not at all fatigued 10. As fatigued as I could be). Patient
- b. Negative affect*: (0. Not at all 4. Extremely). Patient
 - Right now, I feel bored.
 - Right now, I feel sad.
 - Right now, I feel angry.
 - Right now, I feel hopeless.
 - Right now, I feel panicky.
 - Right now, I feel nervous.
 - Right now, I feel depressed.
- c. Positive affect*: Right now, I feel... (0. Not at all 4. Extremely). Patient
 - Right now, I feel active.
 - Right now, I feel happy.
 - Right now, I feel relaxed.
 - Right now, I feel quiet.

- Right now, I feel peppy.
- Right now, I feel calm.
- d. *Catastrophizing*: (0. Not at all 4. Extremely)
 - Since this afternoon, I worried about my fatigue. Patient
 - Since this afternoon, I worried about my partner's fatigue. Spouse
 - Since this afternoon, I was anxious my fatigue would become worse. Patient
 - <u>Since this afternoon</u>, I was anxious my partner's fatigue would become worse. Spouse
 - Since this afternoon, I thought I could not bear the fatigue any longer. Patient
 - Since this afternoon, I thought I could not bear my partner's fatigue any longer. Spouse
- e. *Co-rumination*: (0. Not at all 4. Very much)
 - <u>Today</u>, my partner and I spent a lot of time discussing my fatigue. Patient
 - Today, my partner and I spent a lot of time discussing his/her fatigue. Spouse
 - <u>Today</u>, my partner and I talked about the negative aspects of my fatigue. Patient
 - Today, my partner and I talked about the negative aspects of his/her fatigue. Spouse
 - Today, my partner and I talked about how annoying my fatigue is. Patient
 - Today, my partner and I talked about how annoying his/her fatigue is. Spouse
- f. *Relationship Satisfaction*: How satisfied are you with your relationship <u>right now</u>? (0. Not at all satisfied 10. Extremely satisfied). Patient/Spouse

Note. * Constructs have only be included in additional exploratory analyses and not in the final model.

References

- Cranford, J. A., Shrout, P. E., Iida, M., Rafaeli, E., Yip, T., & Bolger, N. (2006). A Procedure for Evaluating Sensitivity to Within-Person Change: Can Mood Measures in Diary Studies Detect Change Reliably? *Personality and Social Psychology Bulletin*, 32(7), 917–929. http://doi.org/10.1177/0146167206287721
- Shrout, P. E., & Lane, S. P. (2012). Psychometrics. In M. R. Mehl & T. S. Conner (Eds.), Handbook of Research Methods for Studying Daily Life. New York: Guilford Press.