

Appendix: SPIN Investigators

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Coping strategies questionnaire-revised for fatigue in SSc / C. Dal Canto et al.

Supplementary Table S1. Original English Coping Strategies Questionnaire-Revised items (16), original French translation from Irachabai *et al.* (15), English back translation, and final French items of the Coping Strategies Questionnaire-Revised for pain after edits for edited items.

Original English item (16)	Original French translation (15)	English back translation	Final French item	Rationale
I tell myself that I can overcome the pain	Je me dis que je peux dominer ma douleur	I tell myself that I can dominate my pain	Je me dis que je peux surmonter ma douleur	“Surmonter” more closely maps onto “overcome” than “dominer”
I feel my life isn’t worth living	J’ai l’impression que la vie ne vaut pas la peine d’être vécue	I feel life isn’t worth living	J’ai l’impression que ma vie ne vaut pas la peine d’être vécue	“Ma” specifies that the item addresses their life in specific, rather than life in general, as in the English item
I think of people I enjoy doing things with	Je pense à des personnes avec lesquelles j’aime être	I think of people I enjoy being with	Je pense à des personnes avec lesquelles j’aime faire des choses	“Faire des chose” is more similar to “enjoying doing things with” than “avec lesquelles j’aime être”
I pray for the pain to stop	Je prie pour que la douleur disparaisse	I pray for the pain to disappear	Je prie pour que la douleur cesse	“Cesse” more closely maps onto “stop” than “disparaisse”
-----	Je me dis d’être courageux et de continuer malgré la douleur	-----	Je me dis d’être courageux(se) et de continuer malgré la douleur	We added the feminine to make the item more inclusive
-----	J’essaie de ne pas y penser comme si c’était mon corps, mais plutôt quelque chose séparé de moi	-----	J’essaie de ne pas y penser comme si c’était mon corps, mais plutôt quelque chose de séparé de moi	Grammatically, “quelque chose de séparé de moi” makes more sense in French

Supplementary Table S2. Original English Coping Strategies Questionnaire-Revised pain items and fatigue adaptation.

Pain item	Fatigue adaptation
It’s terrible and I feel it’s never going to get any better	Catastrophising -----
It’s awful and I feel that it overwhelms me	-----
I feel my life isn’t worth living	-----
I worry all the time about whether it will end	-----
I feel I can’t stand it anymore	-----
I feel like I can’t go on	-----
I tell myself to be brave and carry on despite the pain	Coping self-statements I tell myself to be brave and carry on despite the fatigue
I tell myself that I can overcome the pain	I tell myself that I can overcome the fatigue
I tell myself I can’t let the pain stand in the way of what I have to do	I tell myself I can’t let fatigue stand in the way of what I have to do
Although it hurts, I just keep on going	Although I am fatigued , I just keep on going
I try to feel distant from the pain, almost as if the pain was in somebody else’s body	Distancing I try to feel distant from the fatigue , almost as if the fatigue was in somebody else’s body
I imagine that the pain is outside of my body	I imagine that the fatigue is outside of my body
I try not to think of it as my body, but rather as something separate from me	-----
I pretend it’s not a part of me	-----
I try to think of something pleasant	Distraction -----
I replay in my mind pleasant experiences in the past	-----
I think of people I enjoy doing things with	-----
I think of things I enjoy doing	-----
I do something I enjoy, such as watching TV or listening to music	-----
I don’t think about the pain	Ignoring I don’t think about the fatigue
I don’t pay any attention to it	-----
I pretend it’s not there	-----
I just go on as if nothing happened	-----
I ignore it	-----
I pray for the pain to stop	Praying I pray for the fatigue to stop
I pray to God it won’t last long	-----
I rely on my faith in God	-----

Supplementary Table S3. Original French Coping Strategies Questionnaire-Revised pain items from Irachabal *et al.* (15) or adapted item for inclusion, grammatical correctness, and comparability, and fatigue adaptation.

Pain item	Fatigue adaptation
C'est terrible et j'ai l'impression que jamais ça n'ira mieux C'est affreux et j'ai l'impression que cela me submerge J'ai l'impression que ma vie ne vaut pas la peine d'être vécue Je m'inquiète tout le temps de savoir si ça va finir J'ai l'impression de ne plus pouvoir supporter la douleur J'ai l'impression de ne plus pouvoir continuer	Catastrophising ----- ----- ----- ----- J'ai l'impression de ne plus pouvoir supporter la fatigue -----
Je me dis d'être courageux(se) et de continuer malgré la douleur Je me dis que je peux surmonter ma douleur Je me dis que je ne peux pas laisser la douleur gêner ce que j'ai à faire Même si j'ai mal, je continue à faire ce que j'ai à faire	Coping self-statements Je me dis d'être courageux(se) et de continuer malgré la fatigue Je me dis que je peux surmonter ma fatigue Je me dis que je ne peux pas laisser la fatigue gêner ce que j'ai à faire Même si je suis fatigué(e) , je continue à faire ce que j'ai à faire
J'essaie de prendre de la distance par rapport à la douleur, comme si elle était dans le corps de quelqu'un d'autre J'imagine que la douleur est en dehors de mon corps J'essaie de ne pas y penser comme si c'était mon corps, mais plutôt quelque chose de séparé de moi Je fais comme si ça ne faisait pas partie de moi	Distancing J'essaie de prendre de la distance par rapport à la fatigue , comme si elle était dans le corps de quelqu'un d'autre J'imagine que la fatigue est en dehors de mon corps ----- -----
J'essaie de penser à quelque chose d'agréable Je repense à des moments agréables du passé Je pense à des personnes avec lesquelles j'aime faire des choses Je pense aux choses que j'aime faire Je fais quelque chose qui me plaît comme regarder la télévision ou écouter de la musique	Distraction ----- ----- ----- -----
Je ne pense pas à la douleur Je ne porte aucune attention à la douleur Je fais comme si elle n'était pas là Je continue comme si de rien n'était Je l'ignore	Ignoring Je ne pense pas à la fatigue Je ne porte aucune attention à la fatigue ----- -----
Je prie pour que la douleur cesse Je prie Dieu que ça ne dure pas longtemps Je compte sur ma foi en Dieu	Praying Je prie pour que la fatigue cesse -----

Supplementary Table S4. Sociodemographic and disease characteristics for retest sample (n=183).

	N	Mean (SD) or N (%)
Sociodemographic variables		
Age (years)	182	61.6 (12.5)
Female sex	183	163 (89.1%)
White race or ethnicity	179	160 (89.4%)
Country	183	
Canada		55 (30.1%)
USA		50 (27.3%)
UK		11 (6%)
France		62 (33.9%)
Australia		5 (2.7%)
Language (English)	183	71 (38.8%)
Education (years)	183	15.6 (3.4)
Marital status single	183	22 (12%)
BMI	183	25.3 (5.2)
Disease characteristics		
Time since first non-Raynaud's symptom	123	16.6 (10.4)
Diffuse subtype	179	66 (36.9%)
Gastrointestinal involvement	183	152 (83.1%)
Digital ulcers	183	21 (11.5%)
Current tendon friction rubs	183	20 (10.9%)
Large joint contractures (moderate or severe)	183	15 (8.2%)
Small joint contractures (moderate or severe)	183	38 (20.8%)
History of SSc renal crisis	183	9 (4.9%)
Interstitial lung disease	183	64 (35%)
Pulmonary arterial hypertension	183	11 (6%)
Overlap syndrome ^a	183	33 (18%)

SD: standard deviation.

^aParticipant had at least one of rheumatoid arthritis, Sjögren's syndrome, systemic lupus erythematosus, or idiopathic inflammatory myositis.

Supplementary Table S5. Differences in correlations between the adjusted and unadjusted Coping Strategies Questionnaire- Revised for Fatigue domains with each Patient-Reported Outcomes and Measurement Information System (PROMIS) domain.

PROMIS subscale	Difference in correlations (95% CI)					
	Catastrophizing Coping self-statements	Distancing	Distraction	Ignoring	Praying	
Anxiety	0.01	0.00	-0.01	0.04	0.01	0.00
Depression	0.00	0.01	-0.02	0.05	0.01	-0.01
Fatigue	0.00	0.00	0.02	0.00	0.00	0.00
Pain	0.01	0.00	0.02	0.00	-0.01	0.01
Physical functioning	-0.02	0.00	-0.02	0.00	0.01	-0.01
Satisfaction with social role	-0.01	0.00	-0.01	-0.01	0.00	-0.01
Sleep	0.00	0.00	0.00	0.02	0.00	0.01

Differences in correlations were calculated by subtracting the adjusted scores from the unadjusted scores.

Supplementary Table S6. Item responses distributions for each item of the Coping Strategies Questionnaire-Revised for Fatigue for the full sample (n=863).

Item	Item responses						
	0 (never) n (%)	1 n (%)	2 n (%)	3 (sometimes) n (%)	4 n (%)	5 n (%)	6 (always) n (%)
1. I try to feel distant from the fatigue, almost as if the fatigue was in somebody else's body	304 (35.2%)	66 (7.7%)	79 (9.2%)	158 (18.3%)	101 (11.7%)	100 (11.6%)	55 (6.4%)
2. I try to think of something pleasant	118 (13.7%)	37 (4.3%)	62 (7.2%)	228 (26.4%)	128 (14.8%)	163 (18.9%)	127 (14.7%)
3. It's terrible and I feel it's never going to get any better	267 (30.9%)	135 (15.6%)	283 (29%)	363 (38%)	212 (22%)	100 (11.6%)	55 (6.4%)
4. I tell myself to be brave and carry on despite the fatigue	63 (7.3%)	26 (3.0%)	49 (5.7%)	188 (21.8%)	170 (19.7%)	209 (24.2%)	158 (18.3%)
5. I tell myself that I can overcome the fatigue	56 (6.5%)	30 (3.5%)	74 (8.6%)	227 (26.3%)	169 (19.6%)	179 (20.7%)	128 (14.8%)
6. It's awful and I feel that it overwhelms me	253 (29.3%)	152 (17.6%)	104 (12.1%)	220 (25.5%)	59 (6.8%)	53 (6.1%)	22 (2.6%)
7. I feel my life isn't worth living	564 (65.4%)	105 (12.2%)	53 (6.1%)	78 (9.0%)	24 (2.8%)	24 (2.8%)	15 (1.7%)
8. I pray to God it won't last long	452 (52.4%)	86 (10.0%)	44 (5.1%)	117 (13.6%)	41 (4.8%)	55 (6.4%)	68 (7.9%)
9. I try not to think of it as my body, but rather as something separate from me	441 (51.1%)	77 (8.9%)	89 (10.3%)	109 (12.6%)	55 (6.4%)	55 (6.4%)	37 (4.3%)
10. I don't think about the fatigue	124 (14.4%)	82 (9.5%)	106 (12.3%)	265 (30.7%)	104 (12.1%)	105 (12.2%)	77 (8.9%)
11. I tell myself I can't let fatigue stand in the way of what I have to do	52 (6.0%)	35 (4.1%)	55 (6.4%)	240 (27.8%)	155 (18.0%)	189 (21.9%)	137 (15.9%)
12. I don't pay any attention to it	114 (13.2%)	78 (9.0%)	114 (13.2%)	254 (29.4%)	117 (13.6%)	113 (13.1%)	73 (8.5%)
13. I pretend it's not there	176 (20.4%)	91 (10.5%)	87 (10.1%)	237 (27.5%)	92 (10.7%)	108 (12.5%)	72 (8.3%)
14. I worry all the time about whether it will end	369 (42.8%)	141 (16.3%)	93 (10.8%)	156 (18.1%)	55 (6.4%)	31 (3.6%)	18 (2.1%)
15. I replay in my mind pleasant experiences in the past	204 (23.6%)	76 (8.8%)	71 (8.2%)	205 (23.8%)	103 (11.9%)	120 (13.9%)	84 (9.7%)
16. I think of people I enjoy doing things with	136 (15.8%)	55 (6.4%)	49 (5.7%)	225 (26.1%)	144 (16.7%)	135 (15.6%)	119 (13.8%)
17. I pray for the fatigue to stop	370 (42.9%)	90 (10.4%)	41 (4.8%)	145 (16.8%)	60 (7%)	75 (8.7%)	82 (9.5%)
18. I imagine that the fatigue is outside of my body	458 (53.1%)	95 (11%)	71 (8.2%)	125 (14.5%)	38 (4.4%)	40 (4.6%)	36 (4.2%)
19. I just go on as if nothing happened	80 (9.3%)	53 (6.1%)	80 (9.3%)	252 (29.2%)	130 (15.1%)	145 (16.8%)	123 (14.3%)
20. Although I am fatigued, I just keep on going	22 (2.6%)	28 (3.2%)	61 (7.1%)	191 (22.1%)	180 (20.9%)	205 (23.8%)	176 (20.4%)
21. I feel I can't stand it anymore	359 (41.6%)	133 (15.4%)	103 (11.9%)	177 (20.5%)	41 (4.8%)	36 (4.2%)	14 (1.6%)
22. I ignore it	143 (16.6%)	80 (9.3%)	95 (11%)	228 (26.4%)	99 (11.5%)	123 (14.3%)	95 (11%)
23. I rely on my faith in God	433 (50.2%)	72 (8.3%)	34 (3.9%)	100 (11.6%)	30 (3.5%)	66 (7.7%)	128 (14.8%)
24. I feel like I can't go on	485 (56.2%)	111 (12.9%)	73 (8.5%)	134 (15.5%)	28 (3.2%)	24 (2.8%)	8 (0.9%)
25. I think of things I enjoy doing	106 (12.3%)	38 (4.4%)	55 (6.4%)	223 (25.8%)	143 (16.6%)	165 (10.1%)	133 (15.4%)
26. I do something I enjoy, such as watching TV or listening to music	37 (4.3%)	19 (2.2%)	21 (2.4%)	185 (21.4%)	162 (18.8%)	242 (28%)	197 (22.8%)
27. I pretend it's not a part of me	369 (42.8%)	95 (11%)	92 (10.7%)	141 (16.3%)	53 (6.1%)	56 (6.5%)	57 (6.6%)

Supplementary Table S7. Item characteristics of the Coping Strategies Questionnaire Revised for Fatigue by language and disease subtype.

Items	Mean ± SD Score ^a				
	Language		Disease subtype ^b		
	Total sample (n=863)	English (n=493)	French (n=370)	Diffuse (n=308)	Limited or Sine (n=550)
Catastrophising	1.5 ± 2.6	1.2 ± 2.3	1.8 ± 2.8	1.4 ± 2.6	1.5 ± 2.6
3. It's terrible and I feel it's never going to get any better	2.0 ± 1.8	1.8 ± 1.7	2.2 ± 1.8	1.9 ± 1.8	2.0 ± 1.7
6. It's awful and I feel that it overwhelms me	1.9 ± 1.7	1.8 ± 1.7	2.0 ± 1.7	1.9 ± 1.7	1.9 ± 1.7
7. I feel my life isn't worth living	0.9 ± 1.5	0.6 ± 1.2	1.3 ± 1.7	0.8 ± 1.4	0.9 ± 1.5
14. I worry all the time about whether it will end	1.5 ± 1.6	1.3 ± 1.6	1.7 ± 1.7	1.4 ± 1.7	1.5 ± 1.6
21. I feel I can't stand it anymore	1.5 ± 1.6	1.2 ± 1.5	2.0 ± 1.7	1.4 ± 1.6	1.5 ± 1.6
24. I feel like I can't go on	1.1 ± 1.5	0.8 ± 1.3	1.5 ± 1.6	1.1 ± 1.6	1.1 ± 1.5
Coping self-statements	3.9 ± 2.7	3.8 ± 2.8	3.9 ± 2.4	3.8 ± 2.8	3.9 ± 2.5
4. I tell myself to be brave and carry on despite the fatigue	3.9 ± 1.7	3.7 ± 1.8	4.1 ± 1.6	3.8 ± 1.8	3.9 ± 1.6
5. I tell myself that I can overcome the fatigue	3.7 ± 1.6	3.6 ± 1.7	3.8 ± 1.5	3.6 ± 1.7	3.7 ± 1.6
11. I tell myself I can't let fatigue stand in the way of what I have to do	3.8 ± 1.6	3.8 ± 1.7	3.7 ± 1.6	3.7 ± 1.7	3.8 ± 1.6
20. Although I am fatigued, I just keep on going	4.1 ± 1.5	4.1 ± 1.5	4.1 ± 1.4	4.0 ± 1.6	4.0 ± 1.5
Distancing	1.7 ± 3.7	1.3 ± 3.1	2.2 ± 4.0	1.5 ± 3.6	1.8 ± 3.7
1. I try to feel distant from the fatigue, almost as if the fatigue was in somebody else's body	2.2 ± 2.0	1.9 ± 2.0	2.7 ± 2.0	2.0 ± 2.1	2.4 ± 2.0
18. I imagine that the fatigue is outside of my body	1.4 ± 1.8	1.0 ± 1.5	1.9 ± 2.0	1.2 ± 1.8	1.4 ± 1.8
9. I try not to think of it as my body, but rather as something separate from me	1.5 ± 1.9	1.0 ± 1.6	2.1 ± 2.0	1.3 ± 1.8	1.6 ± 1.9
27. I pretend it's not a part of me	1.8 ± 2.0	1.4 ± 1.8	2.3 ± 2.0	1.6 ± 1.9	1.9 ± 2.0
Distraction	3.4 ± 3.4	3.2 ± 3.5	3.8 ± 3.0	3.3 ± 3.6	3.5 ± 3.3
2. I try to think of something pleasant	3.4 ± 1.9	3.2 ± 1.9	3.6 ± 1.8	3.2 ± 1.9	3.5 ± 1.8
15. I replay in my mind pleasant experiences in the past	2.7 ± 2.0	2.3 ± 2.0	3.3 ± 1.9	2.7 ± 2.0	2.7 ± 2.0
16. I think of people I enjoy doing things with	3.2 ± 1.9	3.0 ± 2.0	3.6 ± 1.8	3.2 ± 2.0	3.3 ± 1.9
25. I think of things I enjoy doing	3.5 ± 1.9	3.2 ± 1.9	3.9 ± 1.7	3.4 ± 1.9	3.5 ± 1.8
26. I do something I enjoy, such as watching TV or listening to music	4.2 ± 1.5	4.1 ± 1.6	4.4 ± 1.4	4.2 ± 1.6	4.3 ± 1.5
Ignoring	3.0 ± 3.3	2.9 ± 3.5	3.1 ± 3.1	2.8 ± 3.5	3.1 ± 3.3
10. I don't think about the fatigue	2.9 ± 1.8	2.8 ± 1.8	3.0 ± 1.8	2.8 ± 1.8	2.9 ± 1.8
12. I don't pay any attention to it	2.9 ± 1.8	3.0 ± 1.8	2.9 ± 1.7	2.9 ± 1.8	3.0 ± 1.8
13. I pretend it's not there	2.7 ± 1.9	2.4 ± 2.0	3.0 ± 1.8	2.4 ± 1.9	2.8 ± 1.9
19. I just go on as if nothing happened	3.4 ± 1.8	3.3 ± 1.8	3.6 ± 1.7	3.3 ± 1.8	3.5 ± 1.7
22. I ignore it	2.9 ± 1.9	2.9 ± 1.9	3.0 ± 1.9	2.7 ± 1.9	3.1 ± 1.9
Praying	1.8 ± 4.7	1.9 ± 4.9	1.7 ± 4.5	1.9 ± 4.8	1.8 ± 4.7
17. I pray for the fatigue to stop	2.0 ± 2.1	2.0 ± 2.2	2.0 ± 2.1	2.0 ± 2.2	2.0 ± 2.1
8. I pray to God it won't last long	1.6 ± 2.0	1.6 ± 2.0	1.6 ± 2.1	1.6 ± 2.1	1.6 ± 2.0
23. I rely on my faith in God	1.9 ± 2.3	2.2 ± 2.4	1.6 ± 2.2	2.0 ± 2.4	1.9 ± 2.3

^a7-point scale (0 = never, 3 = sometimes, and 6 = always).^bThe full sample size for disease subtype is 858 because disease subtype was missing for 5 participants.