

Table 1: Description of the sample

	MEN		WOMEN		χ^2	df	p-value
	N=2673		N=3213				
	n	%	n	%			
Center							
Bordeaux	460	17.21	454	14.13	11.06	2	0.004
Dijon	1427	53.39	1806	56.21			
Montpellier	786	29.41	953	29.66			
Age (years)							
65-69	771	28.84	1012	31.50	7.68	3	0.053
70-74	948	35.47	1051	32.71			
75-79	644	24.09	800	24.90			
80+	310	11.60	350	10.89			
Widowed or divorced	368	13.77	1226	38.16	439.55	1	<0.0001
Education							
High	762	28.51	467	14.53	174.49	2	<0.0001
Medium	1359	50.84	2006	62.43			
Low	552	20.65	740	23.03			
BMI (kg/m²)							
<25	1008	37.71	1750	54.47	205.51	2	<0.0001
25-29	1340	50.13	1035	32.21			
≥30	325	12.16	428	13.32			
Alcohol intake							
0-12 g/day	1058	39.58	2588	80.55	1138.61	2	<0.0001

13-36 g/day	1114	41.68	572	17.80			
>36 g/day	501	18.74	53	1.65			
Coffee drink > 2 cups/day	750	28.06	715	22.25	26.30	1	<0.0001
Mediterranean diet	1584	59.26	1649	51.32	37.12	1	<0.0001
Menopause							
Normal		.	2586	80.49			
Surgical		.	262	8.15			
Medical treatment		.	365	11.36			
Hormone Replacement Therapy (HRT)							
Never		.	2162	67.29			
Past		.	541	16.84			
Current		.	510	15.87			
CES-D \geq 16	368	13.77	903	28.10	177.15	1	<0.0001
Chronic diseases							
0	455	17.02	593	18.46	8.25	2	0.016
1	874	32.70	1125	35.01			
\geq 2	1344	50.28	1495	46.53			
Sleep medication	370	13.84	865	26.92	150.56	1	<0.0001
Loud snoring	474	17.73	278	8.65	107.96	1	<0.0001
Sleepiness	581	21.74	407	12.67	85.91	1	<0.0001
Nightmares	95	3.55	197	6.13	20.56	1	<0.0001
Number of symptoms							
0	791	29.59	860	26.77	190.49	3	<0.0001
1	1006	37.64	838	26.08			
2	582	21.77	774	24.09			

3	294	11.00	741	23.06
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Composite symptom index*:

None	791	29.59	860	26.77	340.71	7	<0.0001
DIS only	53	1.98	150	4.67			
DMS only	832	31.13	578	17.99			
EMA only	121	4.53	110	3.42			
DIS + DMS	195	7.30	379	11.80			
DIS + EMA	28	1.05	93	2.89			
EMA + DMS	359	13.43	302	9.40			
DIS + EMA + DMA	294	11.00	741	23.06			

*corresponding to either isolated or associated symptoms

Table 2: Gender-stratified multivariate multinomial logistic regression: Adjusted OR, confidence intervals and significance levels of having 1, 2 or 3 IS.

	Men						Women					
	Wald	df	Overall				Wald	df	Overall			
	χ^2		p	1 versus 0	2 versus 0	3 versus 0	χ^2		p	1 versus 0	2 versus 0	3 versus 0
Age (years)												
65-69	27.46	9	0.001	1	1	1	17.33	9	0.044	1	1	1
70-74				1.47 [1.16-1.86]	1.10 [0.83-1.46]	1.24 [0.86-1.78]				1.25 [0.98-1.59]	0.96 [0.75-1.24]	1.12 [0.86-1.46]
75-79				1.63 [1.25-2.12]	1.08 [0.79-1.47]	1.26 [0.84-1.88]				1.39 [1.06-1.83]	1.27 [0.96-1.67]	1.01 [0.75-1.37]
80+				2.18 [1.53-3.10]	1.61 [1.07-2.41]	1.42 [0.84-2.40]				1.52 [1.06-2.18]	1.13 [0.77-1.65]	1.34 [0.91-1.98]
Education												
High							16.75	6	0.010	1	1	1
Medium										0.73 [0.55-0.96]	0.83 [0.61-1.12]	0.81 [0.59-1.12]
Low										0.78 [0.56 -1.09]	1.18 [0.83-1.68]	1.14 [0.79-1.65]
BMI (kg/m²)												
<25							23.03	6	0.0008	1	1	1
25-29										1.03 [0.83-1.28]	0.92 [0.73-1.15]	1.19 [0.94-1.50]
≥30										0.92 [0.68-1.24]	0.71 [0.52-0.98]	0.55 [0.39-0.78]
Alcohol intake												

	Men						Women					
	Wald	df	Overall				Wald	df	Overall			
	χ^2		p	1 versus 0	2 versus 0	3 versus 0	χ^2		p	1 versus 0	2 versus 0	3 versus 0
<12							18.53	6	0.005	1	1	1
12-36 g/day										1.13 [0.88-1.46]	1.31 [1.01-1.71]	0.96 [0.72-1.28]
>36 g/day										0.73 [0.38-1.43]	0.37 [0.16-0.86]	0.22 [0.09-0.58]
Mediterranean diet,												
Yes vs No	4.52	3	0.21	1.16 [0.95-1.42]	0.95 [0.75-1.20]	0.93 [0.69-1.26]	6.22	3	0.10	0.80 [0.66-0.98]	0.81 [0.66-0.99]	0.80 [0.64-1.00]
Current HRT, Yes vs No							5.80	3	0.12	0.95 [0.72 -1.24]	0.76 [0.57 -1.02]	0.73 [0.54 -0.99]
CES-D \geq 16 Yes vs No	37.19	3	<0.0001	1.44 [1.04-2.01]	2.04 [1.42-2.91]	3.44 [2.26-5.22]	53.55	3	<0.0001	1.33 [1.04-1.69]	1.84 [1.45-2.35]	2.43 [1.89-3.13]
Chronic diseases												
0	11.78	6	0.067	1	1	1	17.01	6	0.009	1	1	1
1				1.16 [0.88-1.52]	1.61 [1.13-2.27]	1.50 [0.95-2.39]				1.09 [0.83-1.42]	1.04 [0.78-1.38]	1.46 [1.06-2.00]
2+				1.15 [0.88-1.49]	1.58 [1.13-2.20]	1.73 [1.12-2.67]				1.20 [0.92-1.57]	1.35 [1.02-1.79]	1.82 [1.33-2.49]
Sleep treatment,												
Yes vs No	51.65	3	<0.0001	1.12 [0.80-1.56]	2.25 [1.60-3.15]	3.13 [2.12-4.63]	73.32	3	<0.0001	1.22 [0.95-1.58]	1.96 [1.53-2.51]	2.67 [2.07-3.44]
Loud snoring, Yes vs No	6.36	3	0.095	1.38 [1.06-1.79]	1.25 [0.92-1.69]	1.09 [0.74-1.60]						
Sleepiness, Yes vs No	80.83	3	<0.0001	2.36 [1.75-3.18]	4.04 [2.95-5.53]	3.52 [2.44-5.10]	15.98	3	0.001	1.68 [1.17-2.42]	1.91 [1.34-2.74]	2.02 [1.40-2.91]

	Men						Women					
	Wald	df	Overall				Wald	df	Overall			
	χ^2		p	1 versus 0	2 versus 0	3 versus 0	χ^2		p	1 versus 0	2 versus 0	3 versus 0
Nightmares, Yes vs No	24.17	3	<0.0001	2.91 [1.18-7.17]	6.27 [2.57-15.28]	7.31 [2.84-18.80]	29.88	3	<0.0001	1.99 [1.08-3.67]	2.97 [1.67-5.30]	4.28 [2.42-7.55]

Center is not shown.

Table 3: Multivariate logistic regression: OR adjusted, confidence intervals and significance levels of isolated symptoms.

3a – In men

	DIS				DMS				EMA			
	Wald χ^2	df	OR [95%CI]	p-value*	Wald χ^2	df	OR [95%CI]	p-value*	Wald χ^2	df	OR [95%CI]	p-value*
Age (years)												
65-69	2.42	3	1	0.49	28.16	3	1	<0.0001	6.45	3	1	0.092
70-74			1.06 [0.52-2.17]				1.52 [1.19-1.96]				1.76 [1.08-2.86]	
75-79			0.82 [0.35-1.93]				1.76 [1.34-2.32]				1.08 [0.60-1.95]	
80+			1.83 [0.70-4.80]				2.36 [1.64-3.40]				1.56 [0.75-3.29]	
BMI												
<25	6.67	2	1	0.036								
25-29			1.00 [0.51-1.96]									
≥30			2.70 [1.15-6.34]									
CES-D ≥ 16, Yes vs No	1.38	1	1.65 [0.72-3.80]	0.24	1.53	1	1.25 [0.88-1.77]	0.22	3.74	1	1.90 [0.99-3.64]	0.053
Sleep treatment, Yes vs No	16.93	1	4.46 [2.19-9.10]	<0.0001					2.77	1	1.69 [0.91-3.12]	0.096
Loud snoring, Yes vs No					6.26	1	1.43 [1.08-1.88]	0.012	2.36	1	1.50 [0.89-2.51]	0.125
Sleepiness, Yes vs No	1.20	1	1.56 [0.70-3.47]	0.27	27.68	1	2.30 [1.69-3.14]	<0.0001	12.37	1	2.55 [1.51-4.29]	0.0004
Nightmares, Yes vs No	1.64	1	3.46 [0.52-23.17]	0.20	5.56	1	3.08 [1.21-7.83]	0.018				

3b – In women

	DIS				DMS			
	Wald χ^2	df	OR [95%CI]	p-value*	Wald χ^2	df	OR [95%CI]	p-value*
Age (years)								
65-69	1.20	3	1	0.75	13.77	3	1	0.003
70-74			1.21 [0.78-1.89]				1.28 [0.98-1.67]	
75-79			0.96 [0.58-1.61]				1.59 [1.19-2.12]	
80+			0.94 [0.47-1.85]				1.78 [1.21-2.60]	
BMI								
<25	3.09	2	1	0.21				
25-29			0.91 [0.61-1.37]					
≥30			0.57 [0.30-1.07]					
Coffee > 2 cups/day, Yes vs No					3.51	1	0.78 [0.60-1.01]	0.061
Mediterranean diet, Yes vs No	0.48	1	0.87 [0.60-1.28]	0.49	3.08	1	0.82 [0.66-1.02]	0.079
CES-D ≥ 16, Yes vs No	12.55	1	2.10 [1.39-3.16]	0.0004	0.49	1	1.10 [0.84-1.45]	0.48
Sleep treatment, Yes vs No	34.69	1	3.41 [2.27-5.14]	<0.0001				
Sleepiness, Yes vs No					12.88	1	2.01 [1.37-2.94]	0.0003
Nightmares, Yes vs No	1.13	1	1.71 [0.63-4.63]	0.29	7.44	1	2.44 [1.29-4.63]	0.006

* p-value (for variables with more than two categories, the p-value of the test for trend is given). EMA is not shown in women since all variables are not significant. Center not shown.

