Supplemental Figure e1	Selected questions from the <i>ad-hoc</i> online questionnaire sent to assess the changes in lifestyle patterns
Supplemental Figure e2	Location map showing the distribution of the study participants across the regions of Catalonia (Northeastern of Spain)
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Supplemental Table e3	Results from the multivariable <u>linear</u> regression analyses with confinement HADS-Anxiety and HADS-Depression scores
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Supplemental Figure e1 Selected questions from the *ad-hoc* online questionnaire sent to assess the changes in lifestyle patterns.

SLEEP PATTERNS

- 1.) Indicate approximately how many hours you used to sleep at night before the Covid-19 confinement.
 - a.) Less than 7 hours
 - b.) 7 to 8 hours
 - c.) 8 to 10 hours
 - d.) 10 to 12 hours
 - e.) More than 12 hours
- 2.) Indicate approximately how many hours you sleep at night during Covid-19 confinement.
 - a.) Less than 7 hours
 - b.) 7 to 8 hours
 - c.) 8 to 10 hours
 - d.) 10 to 12 hours
 - e.) More than 12 hours
- 3.) Indicate how your use of sleeping pills has changed during Covid-19 confinement.
 - a.) I have stopped consuming
 - b.) I have decreased the consumption
 - c.) I have not changed the consumption
 - d.) I have increased the consumption moderately
 - e.) I have increased the consumption significantly

EATING, DRINKING AND SMOKING HABITS

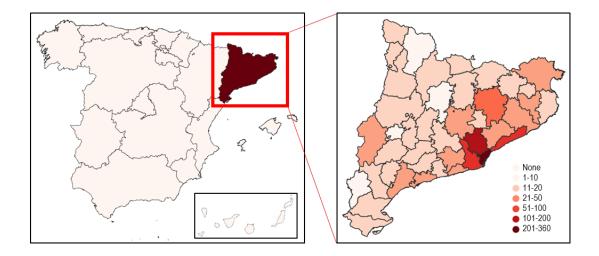
- 4.) Indicate how your caloric food consumption has changed during Covid-19 confinement.
 - a.) I have stopped consuming
 - b.) I have decreased the consumption
 - c.) I have not changed the consumption
 - d.) I have increased the consumption moderately
 - e.) I have increased the consumption significantly
- 5.) Indicate how your alcohol consumption has changed during Covid-19 confinement.
 - a.) I have stopped consuming
 - b.) I have decreased the consumption
 - c.) I have not changed the consumption
 - d.) I have increased the consumption moderately
 - e.) I have increased the consumption significantly
- 6.) Indicate how your tobacco consumption has changed during Covid-19 confinement.
 - a.) I have stopped consuming
 - b.) I have decreased the consumption
 - c.) I have not changed the consumption
 - d.) I have increased the consumption moderately
 - e.) I have increased the consumption significantly

MEDICATION USE

- 7.) Indicate how your use of anxiolytics / antidepressants has changed during Covid-19 confinement.
 - a.) I have stopped consuming
 - b.) I have decreased the consumption
 - c.) I have not changed the consumption
 - d.) I have increased the consumption moderately
 - e.) I have increased the consumption significantly
- 8.) Indicate how your use of analgesics has changed during Covid-19 confinement.
 - a.) I have stopped consuming
 - b.) I have decreased the consumption
 - c.) I have not changed the consumption
 - d.) I have increased the consumption moderately
 - e.) I have increased the consumption significantly

Supplemental Figure e2 Location map showing the distribution of the study participants across the regions of Catalonia (Northeastern of Spain)

From the available data of 914 participants, 95.2% of them were from the northeastern region of Spain in the autonomous community of Catalonia as outlined in red on the map of Spain, 2.7% were from the rest of Spain and the remaining 2.1% of the data were missing. As indicated on the map of Catalonia, the vast majority of the study participants were from the area of *Barcelonès* and mainly from *Barcelona* city.

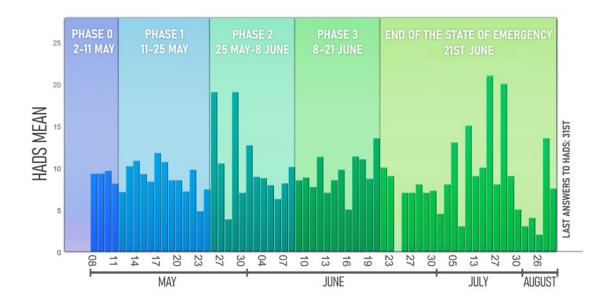


Supplemental Figure e3 HADS mean scores over time and along the confinement de-escalation phases

The mean of the HADS total scores collected between May 8, 2020 and August 31, 2020 from the whole sample are shown over time and through de-escalation phases of the COVID-19 confinement in northeastern Spain, Catalonia.

The HADS scores did not show any significant difference between months (F=.445, *p*=.721) or de-escalation phases (F=.687, *p*=.601).

Abbreviations: HADS= Hospital Anxiety and Depression Scale.



Supplemental Table e1 Distribution of women and caregivers in HADS-Anxiety and HADS-Depression categories pre and during COVID-19 confinement

Data are presented as numbers (percentages) in each category and reported for the whole sample.

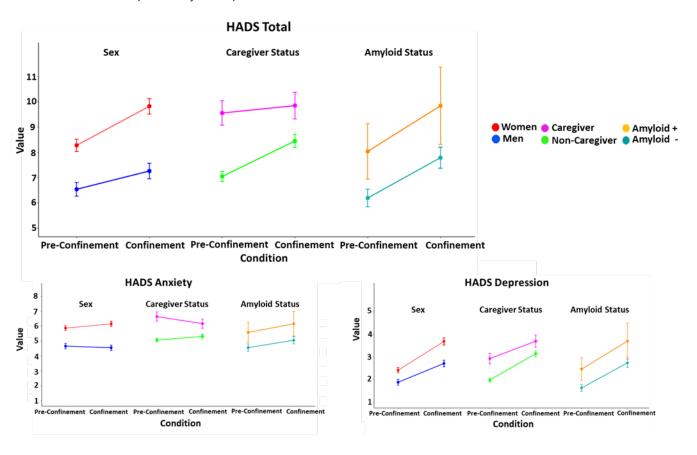
Abbreviations: HADS= Hospital Anxiety and Depression Scale. a: N= 463, b: N= 116.

		Women ^a			Caregivers ^b	
HADS-Anxiety	Normal	Borderline	Probable	Normal	Borderline	Probable
Pre-Confinement	329 (71.1%)	89 (19.2%)	45 (9.7%)	72 (62.1%)	30 (25.9%)	14 (12.1%)
During Confinement	304 (65.7%)	102 (22%)	57 (12.3%)	80 (69%)	24 (20.7%)	12 (10.3%)
HADS-Depression	Normal	Borderline	Probable	Normal	Borderline	Probable
Pre-Confinement	441 (95.2%)	19 (4.1%)	3 (0.6%)	108 (93.1%)	7 (6%)	1 (0.9%)
During Confinement	400 (86.4%)	38 (8.2%)	25 (5.4%)	102 (87.9%)	12 (10.3%)	2 (1.7%)

Supplemental Figure e4 Average HADS total, HADS-Anxiety and HADS-Depression scores by sex, caregiver and amyloid status during pre-confinement and confinement

The mean HADS scores are shown by sex and caregiver status in the whole sample and by amyloid status in the biomarkers sample. Error bars represent the variability in HADS scores in each group. The clinical categories of HADS-Anxiety and HADS-Depression scores are as follows: ≤7 = normal, 8 -10 borderline, ≥11 probable cases of anxiety or depression.

Abbreviations: HADS= Hospital Anxiety and Depression Scale.



Supplemental Table e2 Tables showing the chi square comparisons in lifestyle patterns by sex, caregiver and amyloid status.

Differences in lifestyle patterns (sleep patterns, eating, drinking and smoking habits, and medication use) during the COVID-19 confinement are reported by sex and caregiver status in the whole sample and by amyloid status in the biomarkers sample.

a: Women N= 477, Men N= 318; b: Women N= 60, Men N= 23; c: Women N= 263, Men N= 193; d: Women N= 174, Men N= 191; e: Women N=67, Men N= 27; f: Women N= 64, Men N= 24; g: Women N= 118, Men N= 50; h: Caregiver N= 121, Non-caregiver N= 68; i: Caregiver N= 15, Non-caregiver N= 68, j: Caregiver N= 78, Non-caregiver N= 377; k: Caregiver N= 57, Non-Caregiver N= 307; l: Caregiver N= 25, Non-caregiver N= 69; m: Caregiver N= 25, Non-caregiver N= 62; n: Caregiver N= 32, Non-caregiver N= 135; o: Amyloid Positive N= 23, Amyloid Negative N= 158; p: Amyloid Positive N= 2, Amyloid Negative N= 75; t: Amyloid Positive N= 11, Amyloid Negative N= 98; s: Amyloid Positive N= 2, Amyloid Negative N= 17; u: Amyloid Positive N= 3, Amyloid Negative N= 13; v: Amyloid Positive N= 3, Amyloid Negative N= 35.

	Women (%)						
	No Change	Increased	Decreased	No Change	Increased	Decreased	p-value
Sleep							
Hours of Sleep ^a Sleeping Pills Use ^b	75.6 70	10.8 28.3	13.6 1.7	83.6 69.6	7.4 26.1	9 4.3	.023* .768
Eating, drinking, smoking	g						
Food Consumption ^c	41.1	47.9	11	65.8	20.2	14	<.001*
Alcohol Used	67.2	21.8	10.9	62.8	17.8	19.4	.072
Tobacco Use ^e	52.2	35.8	11.9	55.6	29.6	14.8	.827
Medication Use							
Antidepressant Usef	76.6	18.8	4.7	79.2	16.7	4.2	.967
Analgesics Use ^g	67.8	19.5	12.7	70	14	16	639
	C	Caregivers (%)	Nor	n-Caregivers (%)	
	No Change	Increased	Decreased	No Change	Increased	Decreased	p-value
Sleep							
Hours of Sleep ^h Sleeping Pills Use ⁱ	75.2 73.3	11.6 20	13.2 6.7	79.5 69.1	9.4 29.4	11.1 1.5	.568 .406
Eating, drinking, smoking		20	0.7	69.1	29.4	1.5	.400
Food Consumption ^j	46.2	47.4	6.4	52.5	34	13.5	.041*
Alcohol Usek	57.9	22.8	19.3	66.4	18.9	14.7	.451
Tobacco Use	52	40	8	53.6	31.9	14.5	.616
Medication Use	I.						l
Antidepressant Use ^m	72	20	8	79	17.7	3.2	.592
Analgesics Use ⁿ	62.5	25	12.5	69.6	16.3	14.1	.514
	Amy	loid Positive	(%)	Amy			
	No Change	Increased	Decreased	No Change	Increased	Decreased	p-value
Sleep							
Hours of Sleep ^o	91.3	4.3	4.3	81	8.9	10.1	.481 .425
Sleeping Pills Use ^p 100 75 25 - Eating, drinking, smoking							
Food Consumption ^r	45.5	36.4	18.2	61.2	25.5	13.3	.599
Alcohol Uses	84.6	-	15.4	70.7	12	17.3	.39
Tobacco Use ^t	50	-	50	47.1	29.4	23.5	.586
Medication Use							
Antidepressant Use ^u	100	-	-	84.6	15.4	-	.468
Analgesics Use ^v	66.7	-	33.3	65.7	22.9	11.4	.429

Supplemental Table e3 Results from the multivariable <u>linear</u> regression analyses with HADS-Anxiety and HADS-Depression scores

Abbreviations: HADS= Hospital Anxiety and Depression Scale, CI= Confidence Interval, AD= Alzheimer 's Disease, IL-6= Interleukin-6.

The unstandardized B represents the variation in HADS-Anxiety and HADS-Depression with 1-unit variation in a given predictor.

Biomarkers Sample N= 179. Whole Sample N= 695.

	HADS-Anxiety		HADS-Depression			
Biomarkers Sample	B Value (95% CI)	p Value	B Value (95% CI)	p Value		
Age	-0.22 (-0.33 to -0.11)	<.001	-0.14 (-0.24 to -0.041)	.006		
Sex (women)	1.05 (0.074 to 2.03)	.035	1.03 (0.12 to 1.94)	.026		
Years of Education	-0.13 (-0.26 to 0.006) .062		-0.14 (-0.27 to -0.013)	.031		
APOE-ε4 Carriers	-0.49 (-1.45 to 0.47)	.311	0.37 (-0.54 to 1.27)	.426		
Caregivers	-0.61 (-1.89 to 0.66)	.344	-0.66 (-1.85 to 0.54)	.278		
Amyloid Positivity	1.6 (0.16 to 3.03)	.029	1.11 (-0.23 to 2.46)	.105		
AD Signature	-0.85 (-5.89 to 4.19)	.74	-3.27 (-8.03 to 1.49)	.177		
IL-6	-2.56 (-5.41 to 0.29) .078		-2.35 (-5.02 to 0.32)	.084		
Time Difference	-0.008 (-0.53 to 0.51)	.975	0.19 (-0.29 to 0.68)	.43		
Pre-Confinement HADS	0.43 (0.29 to 0.57)	<.001	0.25 (0.024 to 0.47)	0.03		
Whole Sample						
Age	-0.051 (-0.083 to -0.019)	.002	-0.043 (-0.074 to -0.011)	.007		
Sex (women)	0.9 (0.45 to 1.34)	<.001	0.54 (0.11 to 0.97)	.014		
Years of Education	-0.067 (-0.13 to -0.003)	.041	-0.041 (-0.11 to 0.021)	.191		
APOE-ε4 Carriers	-0.082 (-0.52 to 0.36) .714		-0.16 (-0.59 to 0.26)	.455		
Caregivers	-0.22 (-0.82 to 0.37)	.458	-0.15 (-0.73 to 0.42)	.606		
Time Difference	-0.069 (-0.28 to 0.15)	.530	-0.002 (-0.21 to 0.21)	.988		
Pre-Confinement HADS	0.56 (0.49 to 0.63)	<.001	0.56 (0.47 to 0.65)	<.001		

Supplemental Table e4 Results from the multivariable <u>linear</u> regression analyses with HADS adjusted by stress-related variables

Abbreviations: HADS= Hospital Anxiety and Depression Scale, CI= Confidence Interval, PSS= Perceived Stress Scale, BRS= Brief Resilience Scale, AD= Alzheimer's Disease, IL-6= Interleukin-6

The unstandardized B represents the variation in HADS total, HADS-Anxiety and HADS-Depression with 1-unit variation in a given predictor.

Biomarkers Sample N= 171, Whole Sample N=666.

	HADS Total		HADS-Anxiety		HADS-Depression	
Biomarkers Sample	B Value (95% CI)	p Value	B Value (95% CI)	p Value	B Value (95% CI)	p Value
Age	-0.22 (-0.35 to -0.086)	.001	-0.15 (-0.23 to -0.064)	.001	-0.065 (-0.14 to 0.011)	.092
Sex (women)	1.49 (0.32 to 2.66)	.013	0.78 (0.012 to 1.55)	.047	0.61 (-0.064 to 1.29)	.076
Years of Education	-0.13 (-0.29 to 0.036)	.127	-0.06 (-0.17 to 0.047)	.268	-0.073 (-0.17 to 0.021)	.128
APOE-ε4 Carriers	-0.81 (-1.98 to 0.35)	.17	-0.87 (-1.64 to -0.104)	.026	0.11 (-0.57 to 0.79)	.741
Caregivers	-1.8 (-3.34 to -0.26)	.022	-0.81 (-1.82 to 0.2)	.114	-1.1 (-1.99 to -0.22)	.015
Amyloid Positivity	2.05 (0.3 to 3.79)	.022	1.33 (0.19 to 2.48)	.023	0.61 (-0.4 to 1.62)	.237
AD Signature	-2.99 (-9.28 to 3.31)	.35	-0.037 (-4.17 to 4.1)	.986	-3.12 (-6.8 to 0.55)	.096
IL-6	-2.78 (-6.2 to 0.64)	.11	-1.68 (-3.93 to 0.57)	.143	-0.94 (-2.94 to 1.05)	.352
Time Difference	0.006 (-0.63 to 0.64)	.985	-0.1 (-0.52 to 0.31)	.604	0.13 (-0.24 to 0.5)	.486
Pre-Confinement HADS	0.036 (-0.093 to 0.16)	.581	0.16 (0.034 to 0.28)	.012	-0.17 (-0.19 to 0.15)	0.84
PSS Scores	0.52 (0.45 to 0.59)	<.001	0.26 (0.21 to 0.31)	<.001	0.25 (0.21 to 0.29)	<.001
BRS Scores	-0.58 (-1.97 to 0.81)	.414	-0.39 (-1.31 to 0.52)	.398	-0.14 (-0.94 to 0.67)	.735
Whole Sample						
Age	-0.033 (-0.075 to 0.008)	.118	-0.025 (-0.05 to 0.001)	.056	-0.008 (-0.033 to 0.017)	.524
Sex (women)	1.03 (0.46 to 1.61)	<.001	0.71 (0.37 to 1.06)	<.001	0.3 (-0.034 to 0.64)	.078
Years of Education	-0.041 (-0.12 to 0.042)	.333	-0.041 (-0.091 to 0.009)	.106	0.001 (-0.048 to 0.05)	.962
APOE-ε4 Carriers	-0.12 (-0.68 to 0.44)	.669	-0.063 (-0.4 to 0.28)	.714	-0.054 (-0.39 to 0.28)	.748
Caregivers	-0.84 (-1.6 to -0.077)	.031	-0.42 (-0.89 to 0.037)	.071	-0.44 (-0.89 to 0.005)	.053
Time Difference	0.051 (-0.23 to 0.33)	.717	0.005 (-0.16 to 0.17)	.953	0.043 (-0.12 to 0.21)	.604
Pre-Confinement HADS	0.23 (0.17 to 0.3)	<.001	0.26 (0.21 to 0.32)	<.001	0.23 (0.15 to 0.3)	<.001

PSS Scores	0.49 (0.45 to 0.53)	<.001	0.25 (0.23 to 0.27)	<.001	0.23 (0.21 to 0.26)	<.001
BRS Scores	-0.051 (-0.79 to 0.69)	.892	0.082 (-0.37 to 0.53)	.719	-0.13 (-0.56 to 0.31)	.567