

Supporting Information

Reasons for exclusion of selfie videos.

- the full set of videos from four patients
 - one patient did not say anything during the videos (23 files)
 - in the videos of two patients no sound was recorded due to technical issues (30 files)
 - one patient provided only 2 videos (2)
- videos with technical damages (2)
- test runs (14)
- accidental recordings without content (30)
- files in which the microphone was masked (16)
- assessments in which either the speech sample or the reported affective states were missing (19)
- files of consecutive assessments less than 15 minutes apart from each other (19); here only the first assessment was kept unless its audio quality was insufficient or only the second assessment included assessments of affective states; in such cases the second assessment was kept

ADS-K items with English translations in italics.

- 1) Während der letzten Minuten haben mich Dinge beunruhigt, die mir sonst nichts ausmachen.
During the last few minutes, things that normally don't bother me worried me.
- 2) Während der letzten Minuten konnte ich meine trübsinnige Laune nicht loswerden, obwohl mich meine Freunde / Familie / Mitpatienten versuchten aufzumuntern.
During the last few minutes, I couldn't get rid of my gloomy mood, although my friends / family / fellow patients tried to cheer me up.
- 3) Während der letzten Minuten hatte ich Mühe mich zu konzentrieren.
During the last few minutes I had trouble concentrating.
- 4) Während der letzten Minuten war ich deprimiert / niedergeschlagen.
During the last few minutes I was depressed / down.
- 5) Während der letzten Minuten war alles anstrengend für mich.
During the last minutes everything was exhausting for me.
- 6) Während der letzten Minuten dachte ich, mein Leben ist ein einziger Fehlschlag.
During the last minutes I thought my life was one big failure.
- 7) Während der letzten Minuten hatte ich Angst.
During the last minutes I was afraid.
- 8) Während der letzten Minuten war ich fröhlich gestimmt.
During the last minutes I was in a cheerful mood.
- 9) Während der letzten Minuten habe ich weniger als sonst geredet.
During the last minutes I talked less than usual.
- 10) Während der letzten Minuten fühlte ich mich einsam.
During the last minutes I felt lonely.
- 11) Während der letzten Minuten habe ich das Leben genossen.
During the last minutes I enjoyed life.
- 12) Während der letzten Minuten war ich traurig.
During the last minutes I felt sad.
- 13) Während der letzten Minuten hatte ich das Gefühl, dass mich die Leute nicht leiden können.
During the last minutes I felt that people didn't like me.
- 14) Während der letzten Minuten konnte ich mich zu nichts aufraffen.
During the last minutes I couldn't get myself up to do anything.

MDMQ items with English translations in italics.

Im Moment fühle ich mich ...

At the moment I feel ...

unzufrieden – zufrieden

discontent- content

unwohl – wohl

unwell - well

müde – wach

tired - awake

Im Moment fühle ich mich ...

At the moment I feel ...

energielos – energiegeladen

without energy - full of energy

unruhig – ruhig

agitated - calm

angespannt – entspannt

tense - relaxed

Positive and negative affect items with English translations in italics.

Im Moment fühle ich mich

fröhlich / zufrieden / tatkräftig / enthusiastisch / entspannt / glücklich; einsam / traurig / unsicher /
ängstlich / niedergeschlagen / schuldig / deprimiert / misstrauisch / gereizt

At the moment I feel

cheerful / content / energetic / enthusiastic / relaxed / happy;

lonely, sad, insecure, anxious, depressed, low-spirited, guilty, distrustful, irritable

Multilevel linear regression analysis to predict momentary depression severity and affective states: fixed effects of the LIWC categories positive emotion words, negative emotion words, first person singular pronouns, past tense and time and time².

Outcome	Fixed				
Statistical Predictor	Beta Coefficient	Standardized Beta Coefficient	Standard Error	T	P-Value
ADS-K					
Intercept	1.27		0.10	12.93	<.001
Time	<0.01		<0.01	0.21	.83
Time-squared	<-0.01		<0.01	-0.20	.84
Positive Emotion Words	-0.02	-0.14	<0.01	-4.67	<.001
Positive affective state					
Intercept	2.10		0.13	16.53	<.001
Time	<-0.01		<0.01	-0.79	.43
Time-squared	<-0.01		<0.01	-0.22	.83
Positive Emotion Words	0.03	0.16	<0.01	5.69	<.001
Negative affective state					
Intercept	2.46		0.17	14.73	<.001
Time	<0.01		<0.01	1.41	.16
Time-squared	<-0.01		<0.01	-1.73	.08
Positive Emotion Words	-0.02	-0.09	<0.01	-4.00	<.001
Valence					
Intercept	43.49		2.81	15.50	<.001
Time	0.17		0.13	1.32	.19
Time-squared	0.04		0.03	1.37	.17
Positive Emotion Words	1.12	0.22	0.18	6.09	<.001
Energetic arousal					
Intercept	42.58		2.82	15.08	<.001
Time	-0.42	-0.11	0.12	-3.47	<.001
Time-squared	-0.12	-0.16	0.02	-4.78	<.001
Positive Emotion Words	0.99	0.20	0.17	5.91	<.001

Calmness

Intercept	40.45		3.48	11.62	<.001
Time	<0.01		0.12	0.03	.99
Time-squared	0.07	0.09	0.02	2.65	.008
Positive Emotion Words	1.19	0.22	0.17	7.02	<.001

ADS-K

Intercept	1.27		0.10	12.95	<.001
Time	<0.01		<0.01	0.52	.60
Time-squared	<0.01		<0.01	-0.15	.88
Negative Emotion Words	0.02	0.16	<0.01	6.13	<.001

Positive affective state

Intercept	2.11		0.13	16.54	<.001
Time	<0.01		<0.01	-1.14	.26
Time-squared	<0.01		<0.01	-0.32	.75
Negative Emotion Words	-0.03	-0.18	<0.01	-6.61	<.001

Negative affective state

Intercept	2.46		0.17	14.73	<.001
Time	<0.01		<0.01	1.72	.085
Time-squared	<0.01		<0.01	-1.70	.090
Negative Emotion Words	0.03	0.15	<0.01	5.69	<.001

Valence

Intercept	43.57		2.81	15.52	<.001
Time	0.13		0.13	0.98	.33
Time-squared	0.03		0.03	1.26	.21
Negative Emotion Words	-1.24	-0.28	0.17	-7.31	<.001

Energetic arousal

Intercept	42.64		2.83	15.09	<.001
Time	-0.46	-0.12	0.12	-3.85	<.001
Time-squared	-0.12	-0.16	0.02	-4.96	<.001
Negative Emotion Words	-1.11	-0.25	0.15	-7.15	<.001

Calmness

Intercept	40.55		3.48	11.64	<.001
Time	-0.03		0.12	-0.25	.801
Time-squared	0.06	0.07	0.02	2.48	.014
Negative Emotion Words	-0.95	-0.20	0.16	-5.93	<.001

ADS-K

Intercept	1.27		0.10	12.85	<.001
Time	<0.01		<0.01	0.17	.87
Time-squared	<0.01		<0.01	0.05	.96
First person pronoun	<0.01	0.08	<0.01	1.84	.07

Positive affective state

Intercept	2.11		0.13	16.56	<.001
Time	<0.01		<0.01	-0.73	.47
Time-squared	<0.01		<0.01	-0.48	.63
First person pronoun	<0.01	-0.04	<0.01	-1.24	.21

Negative affective state

Intercept	2.45		0.17	14.67	<.001
Time	<0.01		<0.01	1.36	.17
Time-squared	<0.01		<0.01	-1.43	.15
First person pronoun	0.01	0.07	<0.01	2.73	.007

Valence

Intercept	43.66		2.80	15.59	<.001
Time	0.18		0.14	1.32	.19
Time-squared	0.03		0.03	1.13	.26
First person pronoun	-0.21	-0.05	0.17	-1.24	.22

Energetic arousal

Intercept	42.71		2.83	15.10	<.001
Time	-0.42	-0.11	0.12	-3.36	<.001
Time-squared	-0.12	-0.16	0.02	-4.83	<.001
First person pronoun	-0.06	-0.01	0.15	-0.37	.71

Calmness

Intercept	40.65		3.49	11.67	<.001
Time	<0.01		0.13	0.06	.95
Time-squared	0.06	0.07	0.03	2.32	.021
First person pronoun	-0.25	-0.05	0.16	-1.60	.11

ADS-K

Intercept	1.27		0.10	12.87	<.001
Time	<0.01		<0.01	0.20	.84
Time-squared	<0.01		<0.01	-0.03	.98
Past tense	<0.01	-0.03	<0.01	-1.04	.30

Positive affective state

Intercept	2.11		0.13	16.56	<.001
Time	<0.01		<0.01	-0.77	.44
Time-squared	<0.01		<0.01	-0.45	.65
Past tense	<0.01	0.05	<0.01	1.50	.13

Negative affective state

Intercept	2.45		0.16	14.70	<.001
Time	<0.01		<0.01	1.37	.17
Time-squared	<0.01		<0.01	-1.56	.12
Past tense	<0.01	<-0.01	<0.01	-0.16	.88

Valence

Intercept	43.62		2.80	15.58	<.001
Time	0.17		0.14	1.29	.20
Time-squared	0.03		0.03	1.18	.24
Past tense	0.21	0.04	0.20	1.04	.30

Energetic arousal

Intercept	42.70		2.83	15.10	<.001
Time	-0.42	-0.11	0.12	-3.40	<.001
Time-squared	-0.12	-0.16	0.02	-4.83	<.001
Past tense	0.25	0.05	0.19	1.34	.18

Calmness

Intercept	40.60		3.48	11.65	<.001
Time	<-0.01		0.13	<-0.01	.99
Time-squared	0.06	0.06	0.03	2.38	.017
Past tense	0.42	0.07	0.19	2.20	.028
