

Supporting Information

Consequences of the COVID-19 Lockdown in Germany: Effects of Changes in Daily Life on Musical Engagement and Functions of Music

Natalie A. Roesse & Julia Merrill

Methods

Musical Styles

Additionally, participants chose from a list of 18 musical styles (plus ‘other’), which ones they listened to before and during the lockdown (they could choose as many as they wanted).

Mood

To evaluate the mood the participants had been in for the last few days, the PANAVA-KS (Schallberger, 2005) was assessed that evaluates the emotional dimensions of valence, positive and negative arousal. Items were evaluated on a 5-point Likert scale from not at all (1) to very much (5).

Reliability of Questionnaires

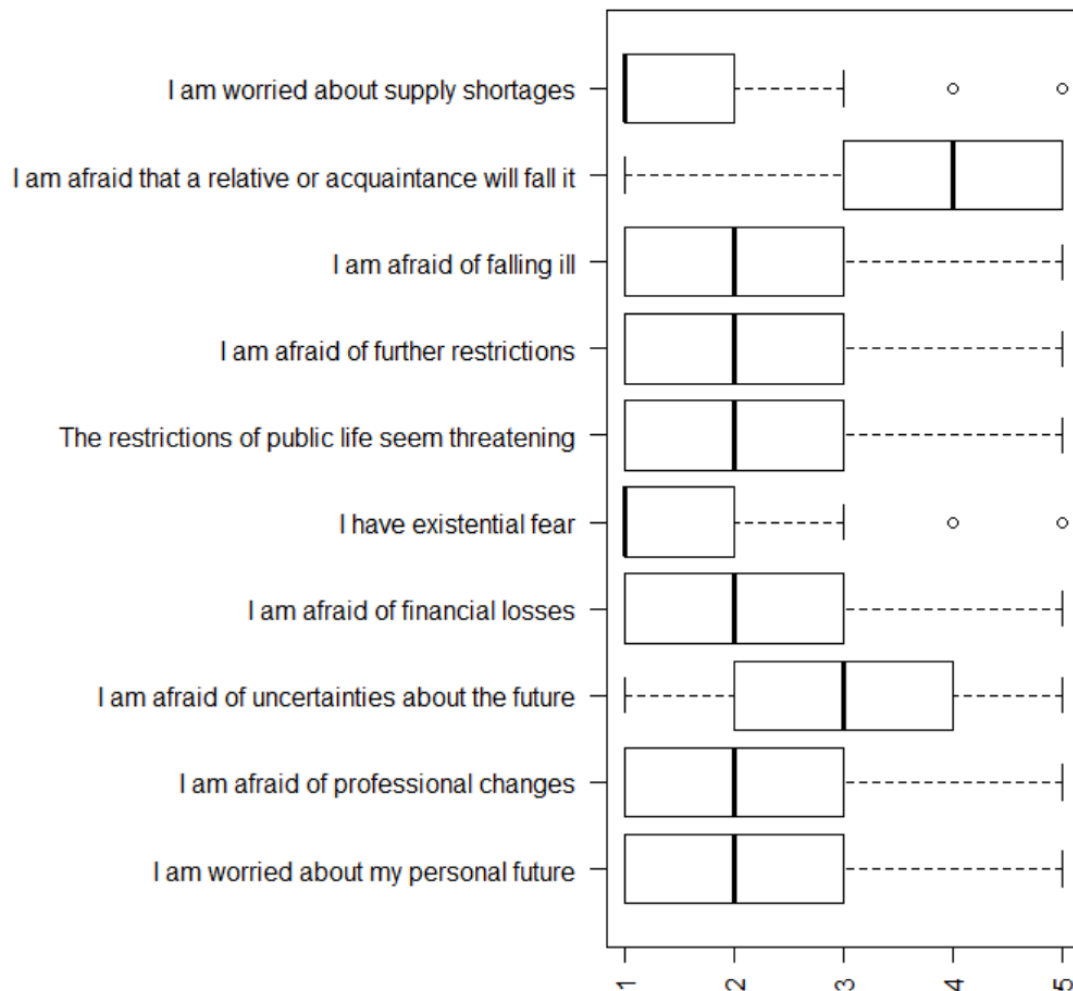
	Cronbach’s Alpha Questionnaire <i>before</i> the lockdown	Cronbach’s Alpha Questionnaire <i>during</i> the lockdown	<i>N</i>
Perceived Changes in Music Listening Behavior		0.792	12
Active Musical Engagement	0.827	0.820	8
Attributes of Chosen Music	0.440	0.570	11
Functions of Music Listening	0.837	0.873	16
BFI-2		0.893	36
PSRS		0.374	9
Worries		0.775	10
Everyday Life		0.681	14

Descriptive Statistics

Worries

Figure 1

Boxplot for Items on Worries



Note. Scale: does not apply (1) – applies (5).

Table 1

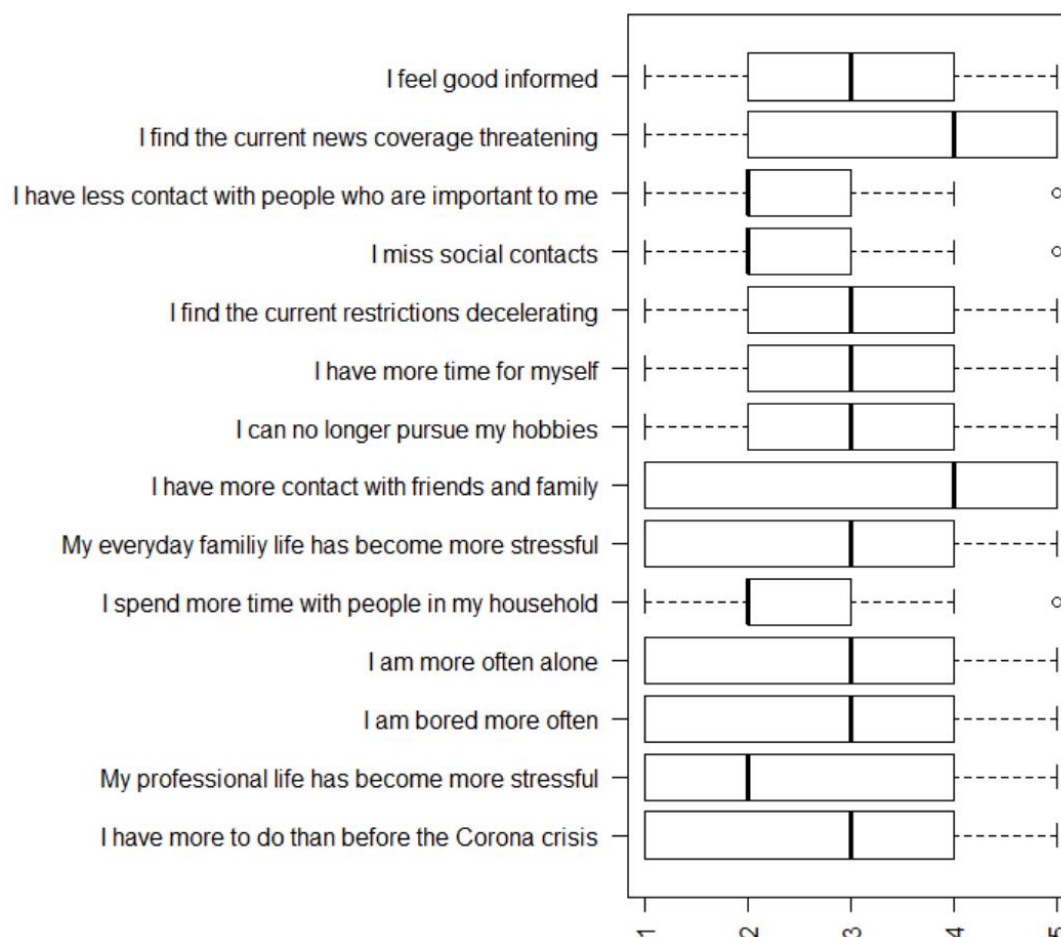
Mean and SD for Items on Worries

	variable	n	mean	sd
1	cw1_ill	539	2.43	1.32
2	cw10_public	539	2.19	1.28
3	cw2_aqu_ill	539	3.81	1.18
4	cw3_prof_change	539	2.51	1.42
5	cw4_existence	539	1.84	1.16
6	cw5_finance	539	2.15	1.30
7	cw6_supply	539	1.65	0.942
8	cw7_future	539	2.46	1.37
9	cw8_restrict	539	2.37	1.33
10	cw9_uncertain	539	2.73	1.37

Everyday Life

Figure 2

Boxplot for Items on Everyday Life.



Note. Scale: does not apply (1) – applies (5).

Table 2

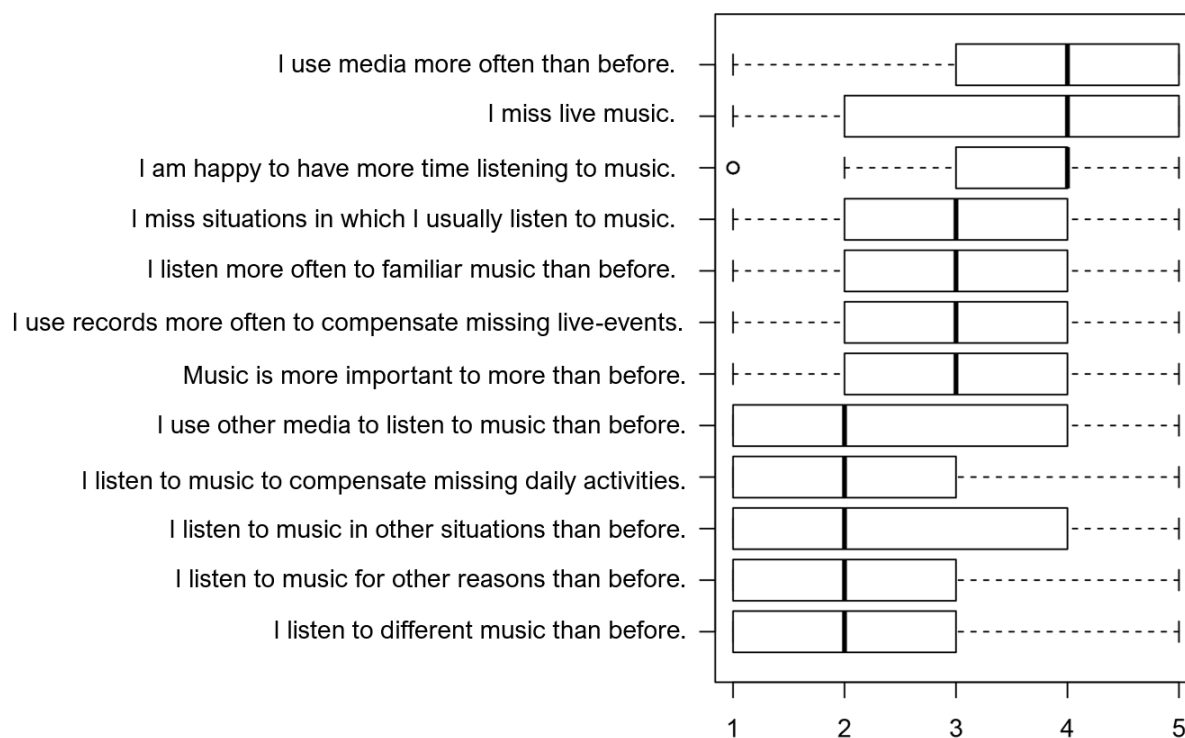
Mean and SD for Items on Everyday Life

	variable	n	mean	sd
1	ce1_household	539	2.45	1.09
2	ce10_alone	539	2.76	1.46
3	ce11_hobbies	539	2.81	1.27
4	ce12_news	539	3.41	1.49
5	ce13_info	539	3.08	0.972
6	ce14_bored	539	2.72	1.59
7	ce2_prof_life	539	2.69	1.66
8	ce3_more2do	539	2.72	1.64
9	ce4_more_time	539	2.92	1.24
10	ce5_less_contact	539	2.59	0.925
11	ce6_miss_social	539	2.65	0.923
12	ce7_deceler	539	3.10	1.11
13	ce8_fam_stress	539	2.73	1.67
14	ce9_contact_fam	539	3.18	1.62

Perceived Changes in Musical Behavior During the Lockdown

Figure 3

Boxplot for Items on Perceived Music Listening During the Lockdown



Note. Scale: does not apply (1) – applies (5).

Table 3

Mean and SD for Items on Music Listening

	variable	n	mean	sd
1	lm_comp	539	2.33	1.22
2	lm_different	539	2.07	1.09
3	lm_everyday	539	2.93	1.49
4	lm_frequency	539	2.67	1.18
5	lm_important	539	3.05	1.17
6	lm_live	539	3.44	1.51
7	lm_media_diff	539	2.48	1.27
8	lm_media_frequ	539	3.82	1.22
9	lm_reasons	539	2.29	1.17
10	lm_record	539	2.80	1.39
11	lm_situation	539	2.54	1.27
12	lm_zeit	539	3.48	1.25

Factor Analyses Before Item Removal

Worries

Figure 4

Factor Structure of “Worries”

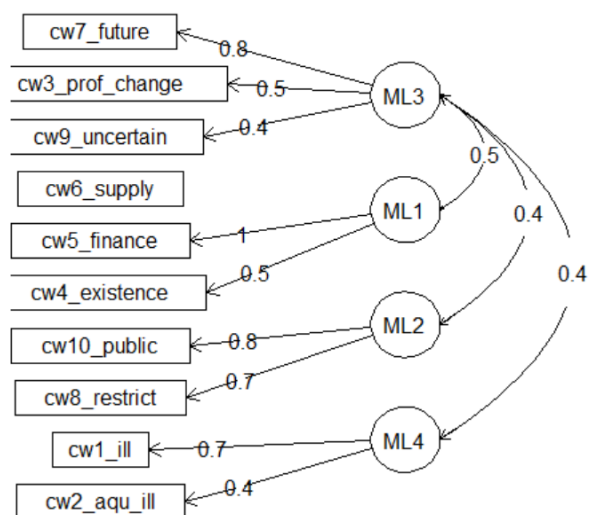


Table 4

Factor Loadings for “Worries”

Factor Analysis using method = ml
 Call: psych::fa(r = c_anx, nfactors = 4, rotate = "oblimin",
 fm = "ml")
 Standardized loadings (pattern matrix) based upon correlation matrix

	ML3	ML1	ML2	ML4	h2	u2	com
cw7_future	0.82	-0.04	0.02	0.00	0.65	0.348	1.0
cw3_prof_change	0.51	0.23	-0.01	0.01	0.43	0.567	1.4
cw9_uncertain	0.44	0.02	0.32	0.20	0.56	0.443	2.3
cw6_supply	0.23	0.16	0.08	0.21	0.25	0.748	3.1
cw5_finance	-0.03	0.96	0.03	0.00	0.92	0.085	1.0
cw4_existence	0.39	0.48	-0.08	0.03	0.55	0.454	2.0
cw10_public	-0.01	0.01	0.79	-0.03	0.62	0.383	1.0
cw8_restrict	0.00	0.02	0.67	0.00	0.46	0.542	1.0
cw1_ill	-0.02	-0.01	-0.03	0.71	0.48	0.517	1.0
cw2_aqu_ill	-0.07	0.00	-0.02	0.44	0.17	0.826	1.1

Table 5

Correlations of Factors “Worries”

	ML3	ML1	ML2	ML4
ML3	1.00	0.51	0.42	0.41
ML1	0.51	1.00	0.20	0.25
ML2	0.42	0.20	1.00	0.14
ML4	0.41	0.25	0.14	1.00

Note. The correlations refer to the factor analysis after removal of item cw6.

Everyday Life

Figure 5

Factor Structure of “Everyday Life”

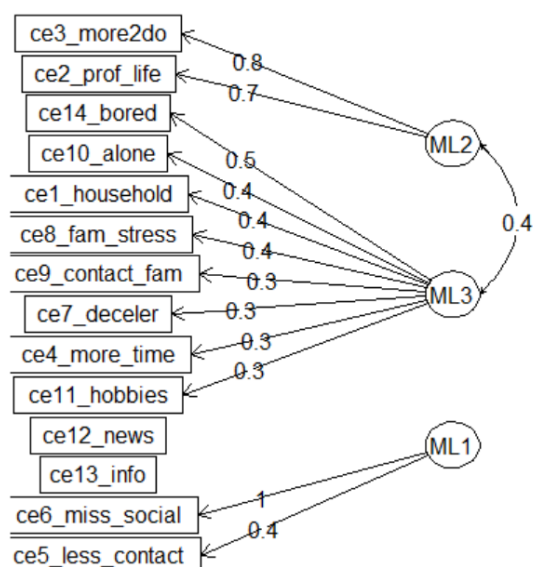


Table 6

Factor Loadings for “Everyday Life”

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Factor Analysis using method = ml
Call: psych::fa(r = c_eve, nfactors = 3, rotate = "oblimin",
  fm = "ml")
Standardized loadings (pattern matrix) based upon correlation matrix

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	ML2	ML3	ML1	h2	u2	com
ce3_more2do	0.84	-0.03	0.00	0.683	0.317	1.0
ce2_prof_life	0.67	0.07	0.02	0.492	0.508	1.0
ce14_bored	-0.09	0.46	-0.03	0.180	0.820	1.1
ce10_alone	-0.06	0.44	0.03	0.179	0.821	1.0
ce1_household	-0.03	0.38	0.08	0.153	0.847	1.1
ce8_fam_stress	0.16	0.37	-0.04	0.206	0.794	1.4
ce9_contact_fam	-0.01	0.35	0.05	0.127	0.873	1.0
ce7_deceler	0.07	0.33	-0.04	0.126	0.874	1.1
ce4_more_time	0.23	0.32	0.00	0.212	0.788	1.8
ce11_hobbies	0.05	0.30	0.10	0.126	0.874	1.3
ce12_news	0.10	0.29	-0.06	0.113	0.887	1.3
ce13_info	0.01	0.22	0.01	0.051	0.949	1.0
ce6_miss_social	0.00	0.00	1.00	0.995	0.005	1.0
ce5_less_contact	0.09	0.09	0.39	0.194	0.806	1.2

Table 7

Correlations of factors “Everyday Life”

	ML1	ML2
ML1	1.0	0.4
ML2	0.4	1.0

Note. The correlations refer to the factor analysis after removal of item cw6.

Results

Factors Predicting Changes in Musical Behavior Before and During the Lockdown

Table 8

Results of the Linear Models Predicting Changes in Functions of Music

	f intellectual			f involvement		
<i>Predictors</i>	<i>Estimates</i>	<i>CI</i>	<i>p</i>	<i>Estimates</i>	<i>CI</i>	<i>p</i>
(Intercept)	-0.71	-1.45 – 0.04	0.064	-0.04	-0.45 – 0.36	0.830
subsistence	-0.08	-0.18 – 0.02	0.125	0.03	-0.02 – 0.09	0.234
uncertainty	0.04	-0.10 – 0.19	0.552	-0.06	-0.14 – 0.02	0.118
restrictions	0.00	-0.10 – 0.11	0.936	0.02	-0.04 – 0.08	0.497
sickness	-0.01	-0.13 – 0.12	0.934	0.07	-0.00 – 0.13	0.051
work	-0.11	-0.21 – -0.00	0.042	-0.06	-0.12 – -0.00	0.034
private	0.16	0.05 – 0.28	0.006	0.04	-0.02 – 0.11	0.180
p open minded	0.08	-0.05 – 0.20	0.249	-0.01	-0.08 – 0.06	0.852
p extraversion	-0.01	-0.14 – 0.12	0.875	-0.01	-0.08 – 0.06	0.719
p negativity	0.03	-0.11 – 0.17	0.713	-0.03	-0.11 – 0.04	0.416
stress reactivity	0.04	-0.02 – 0.10	0.182	0.03	-0.00 – 0.06	0.092
stress workload	0.01	-0.04 – 0.06	0.642	-0.02	-0.04 – 0.01	0.242
Observations	539			539		
R ² / R ² adjusted	0.025 / 0.005			0.030 / 0.010		

	f synchronization			f killing time		
<i>Predictors</i>	<i>Estimates</i>	<i>CI</i>	<i>p</i>	<i>Estimates</i>	<i>CI</i>	<i>p</i>
(Intercept)	-0.47	-0.88 – -0.07	0.023	-0.46	-0.96 – 0.05	0.075
subsistence	0.01	-0.04 – 0.07	0.668	0.00	-0.07 – 0.07	0.953
uncertainty	-0.05	-0.12 – 0.03	0.240	-0.03	-0.13 – 0.06	0.480
restrictions	0.01	-0.05 – 0.07	0.762	0.02	-0.05 – 0.09	0.561
sickness	-0.01	-0.07 – 0.06	0.841	-0.00	-0.08 – 0.08	0.972
work	-0.01	-0.07 – 0.04	0.700	-0.01	-0.08 – 0.06	0.804
private	0.06	-0.01 – 0.12	0.088	0.07	-0.00 – 0.15	0.066
p open minded	0.06	-0.01 – 0.13	0.116	0.09	0.01 – 0.18	0.034
p extraversion	0.01	-0.06 – 0.08	0.859	0.00	-0.09 – 0.09	0.972
p negativity	-0.02	-0.09 – 0.06	0.646	0.06	-0.03 – 0.16	0.213
stress reactivity	0.01	-0.02 – 0.04	0.509	-0.00	-0.04 – 0.04	0.966
stress workload	0.02	-0.01 – 0.04	0.226	-0.00	-0.04 – 0.03	0.825
Observations	539			539		
R ² / R ² adjusted	0.015 / -0.006			0.017 / -0.003		

Table 9*Results of the Linear Models Predicting Changes in Active Engagement with Music (Gold-MSI)*

	m engagement		
<i>Predictors</i>	<i>Estimates</i>	<i>CI</i>	<i>p</i>
(Intercept)	-0.24	-0.81 – 0.33	0.415
subsistence	0.06	-0.02 – 0.13	0.148
uncertainty	-0.03	-0.13 – 0.08	0.650
restrictions	0.07	-0.01 – 0.15	0.081
sickness	-0.03	-0.13 – 0.06	0.495
work	0.01	-0.07 – 0.09	0.825
private	-0.02	-0.11 – 0.07	0.703
p open minded	-0.03	-0.13 – 0.07	0.586
p extraversion	-0.00	-0.10 – 0.09	0.936
p negativity	0.05	-0.06 – 0.16	0.362
stress reactivity	-0.02	-0.07 – 0.02	0.320
stress workload	-0.01	-0.05 – 0.03	0.638
Observations	539		
R ² / R ² adjusted	0.016 / -0.005		