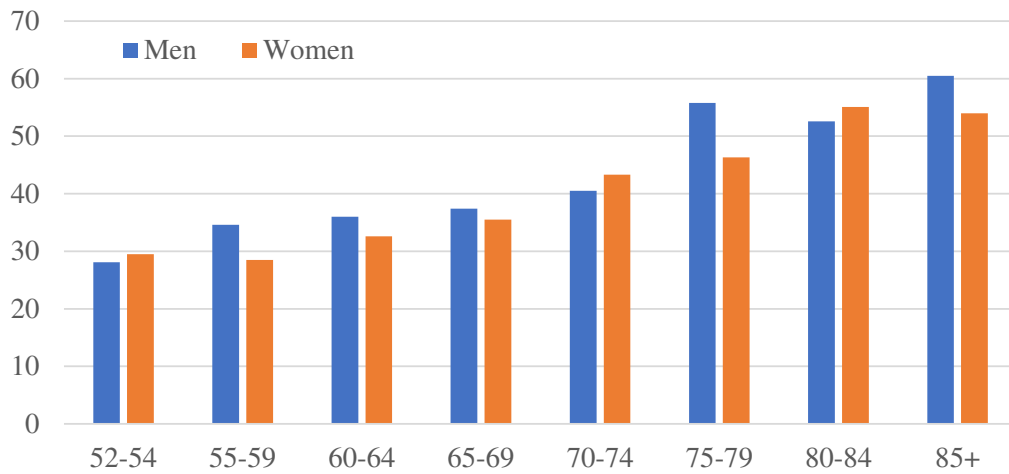


Supplementary Figure S1. Percent distribution of clinical vulnerability to Covid-19 by age-groups and gender



Source: ELSA, Covid-19 sub-study Wave 1 (June/July 2020) and Wave 9 (2018/19). Own calculations, weighted data.

Supplementary Table S1. Fully adjusted ORs (with 95% Confidence Intervals -CIs) for the relationship between socio-economic and demographic characteristics and clinical vulnerability during the Covid-19 pandemic

	Unadjusted Model		Fully adjusted Model	
	OR	95% CIs	OR	95% CIs
52-59	0.52	(0.43; 0.63)	0.43	(0.35; 0.55)
60-69	0.64	(0.55; 0.76)	0.61	(0.51; 0.72)
70-79	Ref		Ref	
80 and older	1.47	(1.23; 1.75)	1.29	(1.07; 1.55)
Female	0.94	(0.82; 1.08)	0.81	(0.70; 0.94)
Non white	1.62	(1.14; 2.31)	1.57	(1.05; 2.34)
Married/Partnered	Ref		Ref	
No Partner	1.50	(1.30; 1.74)	1.15	(0.95; 1.40)
N people in Household			1.04	(0.94; 1.16)
Education: high	Ref		Ref	
Medium	1.49	(1.25; 1.78)	1.28	(1.06; 1.55)
Low	2.56	(2.10; 3.13)	1.65	(1.32; 2.07)
Highest wealth quintile	Ref		Ref	
4th	1.26	(1.03; 1.54)	1.09	(0.88; 1.35)
3rd	1.64	(1.34; 2.00)	1.31	(1.05; 1.62)
2nd	2.07	(1.66; 2.57)	1.54	(1.21; 1.96)
Lowest	2.62	(2.07; 3.31)	2.30	(1.76; 3.01)
Income	0.82	(0.77; 0.87)	0.93	(0.89; 0.98)
<i>Total Respondents</i>		5,585		5,402

Source: ELSA, Covid-19 Substudy Wave 1 (June/July 2020) and Wave 9 (2018/19). Own calculations, weighted data. Results in bold are significant at a 5% level.

Supplementary Table S2. Fully adjusted ORs and β coefficients [with 95% Confidence Intervals] for the pre-pandemic relationship between clinical vulnerability to Covid-19 (CV) and health, controlling for socio-economic and demographic characteristics.

	Poor SRH	Physical inactive	Depressed	QoL ⁺ (CASP-12)	Happiness ⁺	Satisfaction ⁺	Anxiety ⁺
Model A							
CV	3.61 ^{***} [3.04,4.28]	2.81 ^{***} [2.33,3.39]	2.09 ^{***} [1.71,2.55]	-2.43 ^{***} [-2.89,-1.98]	-0.37 ^{***} [-0.53,-0.21]	-0.57 ^{***} [-0.74,-0.39]	-0.50 ^{***} [-0.70,-0.29]
Model B							
50-59, not CV	0.66 [*] [0.45,0.95]	0.62 [*] [0.41,0.96]	1.06 [0.73,1.55]	0.116 [-0.53,0.76]	-0.457 ^{***} [-0.69,-0.22]	-0.270 [*] [-0.51,-0.03]	-0.497 ^{**} [-0.81,-0.18]
60-69, not CV	0.91 [0.67,1.22]	0.81 [0.57,1.15]	1.00 [0.72,1.38]	0.555 [*] [0.07,1.04]	-0.141 [-0.32,0.04]	-0.113 [-0.30,0.08]	-0.007 [-0.24,0.23]
70-79, not CV	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>
80+, not CV	1.63 ^{**} [1.15,2.30]	4.23 ^{***} [2.96,6.05]	1.27 [0.84,1.91]	-1.636 ^{***} [-2.38,-0.89]	-0.067 [-0.34,0.21]	-0.082 [-0.37,0.21]	0.021 [-0.34,0.38]
50-59, CV	2.57 ^{***} [1.76,3.75]	1.66 [*] [1.06,2.60]	2.45 ^{***} [1.62,3.71]	-2.047 ^{**} [-3.27,-0.83]	-0.842 ^{***} [-1.25,-0.44]	-1.006 ^{***} [-1.46,-0.55]	-0.767 ^{**} [-1.30,-0.23]
60-69, CV	3.57 ^{***} [2.72,4.69]	3.07 ^{***} [2.21,4.25]	2.56 ^{***} [1.86,3.51]	-2.423 ^{***} [-3.12,-1.73]	-0.545 ^{***} [-0.79,-0.30]	-0.771 ^{***} [-1.04,-0.50]	-0.894 ^{***} [-1.23,-0.56]
70-79, CV	3.87 ^{***} [3.02,4.96]	3.33 ^{***} [2.47,4.47]	1.78 ^{***} [1.32,2.40]	-2.196 ^{***} [-2.76,-1.63]	-0.347 ^{***} [-0.55,-0.15]	-0.287 ^{**} [-0.49,-0.08]	-0.269 [-0.55,0.01]
80+ , CV	3.48 ^{***} [2.56,4.72]	6.41 ^{***} [4.57,9.01]	1.55 [*] [1.08,2.25]	-3.711 ^{***} [-4.49,-2.93]	-0.391 ^{**} [-0.66,-0.12]	-0.621 ^{***} [-0.93,-0.31]	-0.401 [*] [-0.79,-0.01]
<i>Obs</i>	<i>5318</i>	<i>5406</i>	<i>5311</i>	<i>5005</i>	<i>4836</i>	<i>4954</i>	<i>4914</i>

Source: ELSA, Covid-19 Substudy Wave 1 (June/July 2020) and Wave 9 (2018/19). All models controls for gender, ethnicity, partnership status, number of respondents in the household, education, wealth quintiles, income, and (Model A only) age-groups. Notes: SRH= Self-Rated Health; + Asked in the self-reported questionnaire. All continuous measures are coded such that higher values mean better outcomes. Values in brackets show the 95% confidence intervals. * p < 0.05, ** p < 0.01, *** p < 0.001. Own calculations, weighted data.

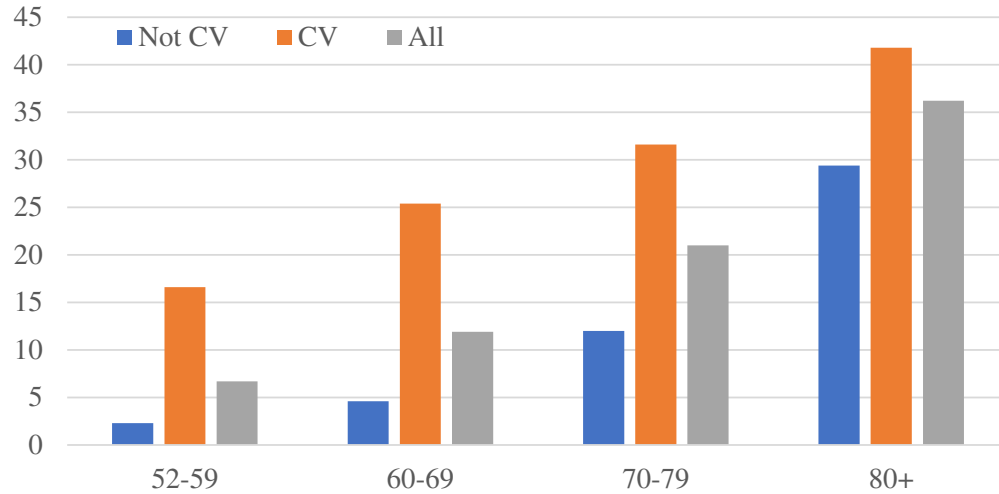
Supplementary Table S3. Fully adjusted ORs and β coefficients [with 95% Confidence Intervals] of the pre-pandemic relationship between clinical vulnerability to Covid-19 (CV) and social well-being, controlling for socio-economic and demographic characteristics.

	Voluntary work	High Loneliness ⁺	< weekly contacts (phone) ⁺	< weekly contacts (text/email) ⁺	Received formal help [^]
Model A					
CV	0.91 [0.77,1.07]	1.45*** [1.20,1.76]	1.11 [0.94,1.32]	0.98 [0.82,1.16]	1.97*** [1.10,1.83]
Model B					
50-59, not CV	0.40*** [0.30,0.54]	1.53* [1.10,2.15]	0.80 [0.61,1.04]	0.36*** [0.27,0.48]	0.24** [0.08,0.71]
60-69, not CV	0.68*** [0.55,0.85]	1.30 [0.97,1.73]	1.01 [0.81,1.24]	0.57*** [0.46,0.71]	0.18*** [0.07,0.43]
70-79, not CV	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>	<i>Ref.</i>
80+, not CV	0.72* [0.54,0.96]	1.03 [0.70,1.51]	0.77 [0.55,1.08]	2.00*** [1.45,2.76]	5.09*** [3.01,8.62]
50-59, CV	0.38*** [0.24,0.61]	1.83** [1.18,2.85]	1.18 [0.80,1.74]	0.36*** [0.23,0.56]	1.15 [0.46,2.87]
60-69, CV	0.66** [0.51,0.84]	2.28*** [1.70,3.06]	1.08 [0.83,1.41]	0.59*** [0.45,0.77]	1.13 [0.60,2.15]
70-79, CV	0.88 [0.71,1.09]	1.46** [1.11,1.93]	0.88 [0.70,1.11]	0.94 [0.75,1.18]	1.56 [0.93,2.61]
80+ , CV	0.59** [0.43,0.82]	1.33 [0.94,1.88]	0.84 [0.60,1.17]	1.78*** [1.30,2.45]	5.45*** [3.28,9.05]
<i>Obs</i>	<i>5318</i>	<i>4996</i>	<i>4578</i>	<i>4123</i>	<i>5471</i>

Source: ELSA, Covid-19 Substudy Wave 1 (June/July 2020) and Wave 9 (2018/19). All models controls for gender, ethnicity, marital status, education, employment status, income, home tenure, wealth quintiles, and (Model A only) age-groups. Notes: ⁺Asked in the self-completion questionnaire. [^]Only asked of respondents who reported at least one difficulty with ADLs, IADLs, or mobility tasks. Values in brackets show the 95% confidence intervals. * p < 0.05,

** p < 0.01, *** p < 0.001. Own calculations, weighted data.

Supplementary Figure S2. Percent distribution of people shielding in June/July 2020 by clinical vulnerability to Covid-19 and age-groups



Source: ELSA, Covid-19 sub-study Wave 1 (June/July 2020) and Wave 9 (2018/19). Own calculations, weighted data