Supplementary appendix for the manuscript:

Mercieca-Bebber R, Campbell R, Fullerton DJ, Kleitman S, Costa DSJ, Candelaria D, Tait MA, Norman R, King MT. Health-related quality of life of Australians during the 2020 COVID-19 pandemic: a comparison with pre-pandemic data and factors associated with poor outcomes. Quality of Life Research, 2022.

ANZCTR trial registration: ACTRN12621001240831

Appendix 1. Summary of lockdown dates, infection rates and restrictions during our data collection period: 21 October to 10 November 2020* and during the first Australian wave of COVID-19

Table A1.1. Number of New Cases during our survey period: 21 October to 10 November 2020

	Cases acquired locally	Cases acquired Internationally and in quarantine	Total
NSW	21	104	125
VIC	30	0	30
QLD	0	15	15
SA	0	34	34
WA	4	36	40
ACT	1	0	1
TAS	0	0	0
NT	0	0	0
Australia	56	189	245

^{*}most data obtained by 4 November 2020.

Table A1.2. Summary of lockdown and restrictions <u>during our survey period</u>: 21 October – 10 November 2020, including the easing of restrictions from Melbourne/Victoria's second wave of COVID-19 infections (30 June – November 2020)*.

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
Face masks M=Mandatory SR=Strongly recommended	Mandatory	Mandatory	Strongly recommended.	Strongly recommended	Strongly recommended	Strongly recommended	Strongly recommended	Strongly recommended	Strongly recommended
Curfew	Not in place	Not in place	Not in place	Not in place	Not in place	Not in place	Not in place	Not in place	Not in place
House visitors (number per day, distance from the household rule and exclusions)	From 18 Oct: 1 nominated visitor if living alone/single parent Respite care for people with needs allowed From 27 Oct: Up to 2 from the same household, 25km rule applies	Up to 2 from different households	From 16 Oct: Up to 50 at a time, and no more than 30 strongly recommended if residence has no outdoor area	Up to 50	Up to 40	No limit, 2 sq m rule applies	Up to 10, 4 sq m rule applies	No limit, 1.5 sq m rule applies	No limit
Outdoor gathering	From 18 Oct: Up to 10 from a maximum of 2 households From 27 Oct: Up to 10 from any number of households	Up to 70	From 23 Oct: Up to 30 (previously 20)	Up to 50 (does not apply to businesses operating with a COVID-safe plan	Up to 1,000, 2 sq m rule applies	No limit, 2 sq m rule applies	Up to 50, 4 sq m rule applies	No limit, 1.5 sq m rule applies Gatherings of >100 will require the completion of a COVID-safe plan.	Up to 500, 2 sq m rule applies

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
Hospitality	From 18 Oct:	Up to 10 per	From 16 Oct:	No limit, 2 sq	Up to 250 for	No limit, 2 sq	Up to 100 per	No	Up to 500 per
venues	Take-away and	indoor space	2 sq m rule for outdoor	m rule and	indoor and	m rule and	venue, and up	restrictions,	venue, 4 sq m
(restaurants,	delivery only	with a maximum	areas (previously 4 sq m	COVID-safe	1,000 for	COVID-safe	to 10 per	COVID-safe	rule applies
cafes, pubs)		of 40 for indoor	rule)	plan applies	outdoor	plan applies	booking, 4 sq	plan applies	
	From 27 Oct:	venues.	Functions of up to 300		venues, 2 sq		m rule		
	Up to 10 per	2 and 4 sq m	people per venue,		m rule applies		applies,		
	table/group,,	rules apply.	subject to a COVID-safe				seated dining		
	Up to 20 for	Take-away only	plan				only		
	indoor and 50	for people from							
	for outdoor	metropolitan	From 23 Oct:						
	venues.	Melbourne	Up to 30 per						
			booking/table(previously						
			10)						
Intra-state	From 18 Oct:	No information	No restrictions	No	No	No	No	No	No
travel	25 km rule			restrictions	restrictions	restrictions	restrictions	restrictions	restrictions
	applies,								
	(previously 5								
	km) Travel to								
	regional Victoria								
	only for								
	permitted								
	purposes, even								
	if within 25 kms								
	From 27 Oct:								
	Travel to								
	regional Victoria								
	only for								
	permitted								
	purposes, even								
	if within 25 kms								
	From 8 Nov:								
	Allowed								

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
Inter-state	From 18 Oct:	From 18 Oct:	Border to VIC closed (re-	Open to all	Open to all	Open to all	Open to all	Open to all	Open to all
travel	Not allowed,	Not allowed,	opened 23 November).	states except	states except	states, except	states, except	states, except	states, except
	stay local, 25 km	stay local, 25 km		VIC	VIC	VIC	VIC	VIC	VIC
	rule applies	rule applies		QLD Border	Registration	G2G PASS	A cross-border	A border entry	An online
				Declaration	via the Tas e-	registration	travel	form and	declaration
	From 27 Oct:			Pass required	Travel system	and	registration	declaration	required
	Not allowed,			if have been in	required at	declaration	required	required up to	
	stay local, 25 km			a hotspot in	least three	process		72 hours	
	rule applies			the last 14	days before	required		before arrival.	
				days, or	entering TAS				
				overseas and					
				did not fly into					
				QLD when					
				arrived in					
				Australia.					
Wedding or	From 18 Oct:	No Info	From 23 October:	Up to 200 for	Up to 250 for	No limit, 2 sq	Up to 150 for	No limit, but a	Up to 500 for
funeral	Weddings:		Up to 300 for weddings	weddings and	indoor, and up	m rule applies	weddings and	COVID-safe	both
attendance	In outdoor		and 100 for funerals, 4	funerals at	to 1,000 for		50 for	plan required	weddings and
	public spaces		and 2 sq m rule apply	professional	outdoor		funerals, 4 sq	for more than	funerals, 4 sq
Note: Would	only with up to		Up to 20 people in the	venues.	spaces, 2 sq m		m rule apply	100 people	m rule apply
only affect a	5 people		wedding party can dance	Up to 30 for	rule applies		for both		for both
person who	(including the		on the dance floor, but	private					
had to cancel	couple and two		only for members of the	weddings,					
a wedding, or	witnesses but		wedding party.	including the					
missed a	not the		A record of names and	wedding party					
wedding or	celebrant)		contact details of each	and celebrant					
funeral	Funerals:		guest must be kept.	if there is no					
	Up to 10 people			COCIV-safe					
	(not including			plan.					
	people			A record of					
	conducting the			names and					
	funeral)			contact details					
				of each guest					
	From 27 Oct:			must be kept					
	Weddings:			for 56 days.					

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
	Up to 10 people								
	outdoors								
	(including the								
	couple and two								
	witnesses but								
	not including								
	the celebrant								
	and 1								
	photographer)								
	Funerals:								
	Up to 20 people								
	both indoors								
	and outdoors								
	(not including								
	people								
	conducting the								
	funeral)								
	From 8								
	November: Up								
	to 50 people								
	outdoors (not								
	including people								
	conducting the								
	funeral)								
Place of	From 18 Oct:	Up to 20 people	From 23 October:	Up to 50, 4 sq	Up to 250, 2	No limit, 2 sq	Up to 100, 4	No limit, 1.5	Up to 25,
worship	Closed	plus 1 faith	Up to 300, 4 sq m rule	m rule applies	sq m rule	m rule applies	sq m rule	sq m rule	excluding
	Up to 5 people,	leader for	applies, even if men and	(2 sq m rule	applies		applies	applies	those
Note: Would	plus 1 faith	outdoor religious	women are in separate	for venues					conducting
only affect a	leader for	gatherings	areas. Reconsider	less than 200					the service
person who	outdoor	(previously 10),	activities that might	sq m)					
wished to	gatherings (not	no sharing of	spread the virus –						
attend a	ceremonies), no	food, drink,	singing and passing						
religious	sharing of food,	crockery,	collection baskets. The						
service	drink or other	utensils, vessels	use of face masks is						

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
	items by participants From 27 Oct: Up to 10 plus 1 faith leader for indoor ceremonies, with cleaning requirements between services Up to 20, plus 1 faith leader for outdoor religious gatherings, no sharing of food, drink or other items by participants.	or other equipment by participants	strongly recommended for all services.						
Schools	From 12 Oct: Staged return to onsite learning. From 27 Oct: Open	No Info (same as Metro Melb)	From 5 Oct: Resumes with strict COVID-safe plan High school formals permitted from November 12.	Open	Open	Open	Open	Open	Open
Salons, spas and other beauty services	From 18 Oct: Beauty/personal care services open, face mask mandatory for the duration of service	No Info (same as Metro Melb)	Open	Open	Open	Open	Open	Open	Open

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
Cinemas, entertainment venues, museums, libraries and open houses	From 18 Oct: All venues closed From 27 Oct: Outdoor venues and spaces open with density quotients, patron caps and COVID-safe plans	Up to 20 for indoor libraries and toy libraries, 4 sq m rule applies	Open, 4 sq m rule applies, and a Covid-19 safety plan. Up to 50% capacity and allocated seats for large venues	No limit, with a COVID-safe plan. Face masks mandatory	Up to 250 for indoor and 1,000 for outdoor facilities, 2 sq m rule applies permitting	No limit, 2 sq m rule applies Up to 50% capacity cap on major sport and entertainment venues. Large scale, multi-stage music festivals prohibited	No limit, 4 sq m rule applies	No limit	Up to 50% capacity for each venue, allocated seats, 4 sq m rule applies
	From 8 November: Electronic gaming allowed subject to patron and time limits								
Gym and exercise activities	From 18 Oct: Outdoor recreation: 25 km rule applies, can use outdoor sport and recreation facilities Up to 2 people per trainer for outdoor personal training	Up to 20 in the pool or 4 sq m rule (whichever is smaller) One parent/guardian/carer per child is permitted for supervision Swimming classes can resume	Up to 20 per class, 4 sq m rule applies, excluding staff Up to 500 for community sporting competitions and training, 4 sq m rule applies, excluding staff	Up to 50 indoor (2 or 4 sq m rule applies depending on size of venue) No limit for outdoor noncontact sport and group training and boot camps, 4 sq m rule applies	Up to 250 for indoor venues, 2 sq m rule applies Up to 1,000 for outdoor gathering Full contact training and full competition sport (contact and noncontact) is	No limits, 2 sq m rule applies Gyms can operate unstaffed but must undergo regular cleaning. Contact sport and training can also recommence, and playgrounds,	No limits for gyms, recreation centres, trampoline and play cafes, as well as outdoor fitness activities, such as boot camps and personal training sessions, 4 sq	No limits for gyms, fitness studios and indoor training activities such as Cross Fit, as well as team sports such as football, basketball, soccer and netball.	Up to 100 for indoor gyms and fitness centres, 4 sq m rule applies.

VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
Outdoor pools				allowed, as is	outdoor gym	m rule applies		
open, indoor				sharing	equipment	Indoor play		
swimming pools				equipment,	and skate	centres,		
open for one-				change rooms	parks can be	amusement		
on-one				and other	used.	parks and		
hydrotherapy				facilities		arcades		
sessions with a						remain closed,		
health						as well as		
professional						community or		
where clinically						club sports		
indicated						fixtures and		
No group						trainings,		
sessions						whether		
Exercise:						indoors or		
Up to 10 from 2						outdoors		
households for						Swimming		
outdoor						only for		
exercise						fitness or		
						rehabilitation		
From 27 Oct:								
Sport and								
physical								
recreation for								
adults:								
Minimum								
number								
required to play								
game for								
outdoor non-								
contact sports,								
Up to 10 for								
outdoor fitness								
and fitness								
classes								

VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
(excluding the								
trainer).								
From 8								
November:								
Up to 10 people								
in a space and								
20 in a venue,								
subject to								
density limits								
•								
Indoor pools								
(including								
swimming								
classes):								
Open for one-								
on-one								
hydrotherapy								
sessions with a								
health								
professional,								
carer or support								
person								
No group								
sessions								
From 8								
November:								
Up to 20 per								
venue								
Outdoor								
swimming								
pools:								

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
	Up to 50 or								
	density limits,								
	other than for								
	exclusive use by								
	a single school								
	at any one time								
	for education								
	purposes or								
	community								
	sport								
Restrictions	2 Aug 2020 – 13								
prior to our	Sept 2020 VIC a	restrictions from							
data	State of	5 August 2020							
collection	Disaster. Stage	for Regional VIC							
following	4 restrictions	- Four reasons to							
second wave	for Metro	be out							
of infections	Melbourne:	- Compulsory							
in Victoria	- curfew (8pm-	face masks							
	5am)	- Cafes and							
	- compulsory	restaurants							
	face masks	takeaway only							
	- four essential	- Nonessential							
	reasons for	shops to close							
	leaving the	- No community							
	house	sport							
	- exercise: 2	- Remote							
	hours max, with	learning							
	1 other person								
	only								
	- shopping: 1								
	person per								
	household								
	- 5km rule								
	- Remote								
	learning	1					1	1	

* During our data collection period (21 October to 10 November 2020), Public Health Orders remained within the remit of each state and territory; therefore, the type and duration of restrictions varied widely across the country, as summarised in this document.

Key dates:

13 Sept 2020 – 'Roadmap' for reducing restrictions in Victoria commences (see <u>Victoria's roadmap for reopening – How we live in Metropolitan Melbourne</u> (<u>amaze.org.au</u>) for details)

19 Oct 2020 – Restrictions are significantly eased in Victoria, with further easing on 27 October as cases continue to be less than 5

26 Oct 2020 – VIC records zero new cases and deaths for the first time since 9 June

Table A1.3. Summary of restrictions during the first wave of COVID-19 in Australia (early 2020)

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
First reported case	25 Jan 2020		25 Jan 2020	29 Jan 2020	2 Mar 2020	21 Feb 2020	1 Feb 2020	4 Mar 2020	12 Mar 2020
National	23 Mar 2020		23 Mar 2020	23 Mar 2020	23 Mar 2020	23 Mar 2020	23 Mar 2020	23 Mar 2020	23 Mar 2020
lockdown									
Start of easing	11 May 2020		1 May 2020	15 May 2020	11 May 2020	27 April 2020	11 May 2020	1 May 2020	15 May 2020
hard	(7 weeks)		(6 weeks)	(8 weeks)	(7 weeks)	(5 weeks)	(7 weeks)	(6 weeks)	(8 weeks)
lockdown*	- up to 10 outdo	ors	- up to two	- Stage 1	- 20 people to	- Stage 1	- Stage 1	- Stage 1 reopening	- cafés and
	- up to 5 for visit	ing at someone's home	adults and	reopening:	attend	reopening	reopening	Stage one	restaurants to
	- up to 10 for we	ddings	dependent	- up to 10 in a	funerals	- up to 10 for		adjustments for	seat up to ten
	- up to 20 for fur	- up to 20 for funerals held indoors and		public space	- people to	indoor and		simple and safe	people
	30 for outdoors			- recreational	visit those	outdoor non-		outdoor activities	
	- resumption of s	some outdoor	household	travel of a	living in	work		where physical	
	recreational acti	recreational activities		radius of up to	residential	gatherings		distancing can be	
				150km from	aged care			maintained at all	
				the person's	once a week			times. Including:	
				home for day	- TasTAFE			Personal gatherings	
				trips	campuses and			including outdoor	
				- re-opening of	training			weddings and	
				libraries,	facilities to			funerals.	
				playground	open for small			Playgrounds, parks	
				equipment,	groups of			and campgrounds	
				skate parks	students			outside biosecurity	
				and outdoor				areas.	
				gyms, with up				Public swimming	
				to 10 people at				pools, lagoons and	
				a time				water parks.	
								Outdoor sports	
								where physical	
								distancing can be	
								maintained including	
								golf and tennis as	
								well as training	
								outdoors.	

	VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
								Go fishing, boating,	
								and sailing with	
								other people, real	
								estate open house	
								inspections and	
								auctions, and	
								gatherings in homes.	
Further easing	26 May 2020		11 May 2020	12 June 2020	17 June 2020	18 May 2020	15 May 2020	15 May 2020	18 May 2020
of restriction	- phased return t	to the classroom	- return to	- Stage 2	- 20 visitors to	- Stage 2	- opening of	- Stage 2 Reopening	- staged
			face-to-face	reopening	a home in	reopening	campsites and	Stage two activities	return to on-
			teaching		addition to	- up to 20 for	national parks	(safer indoor	campus
			- increased	10 July	household	indoor and	with amended	activities for less	schooling
			retail activity	- borders	members	outdoor non-	services to	than two hours),	_
				open, except	- groups of 20	work	ensure social	such as:	29 May 2020
			15 May 2020	for VIC	to participate	gatherings	distancing	Shopping centre	- up to 50
			- up to 10 for		in social	- people	_	food courts.	people for
			outdoor		sports	encouraged to	1 June 2020	Restaurants, cafes,	funeral
			gatherings		activities and	return to work,	- Stage 2	and bars for the	- up to 20 for
			- up to 10 for		- 20 attendees	unless they are	reopening: up	consumption of food	cafés, bars,
			cafés and		per pool	unwell or	to 80 for pubs,	 excluding gaming 	restaurants
			restaurants			vulnerable	gyms, cinemas,	areas.	and clubs
			- up to 5		13 July 2020	- up to 20 for	places of	Organised outdoor	- beauty
			visitors to a		- Stage 3	cafés and	worship,	training activities for	therapy
			household		reopening	restaurants	beauty salons	sport teams without	businesses to
							and other sites	physical contact.	reopen
			1 June 2020		24 July 2020	6 June 2020		Beauty therapy	
			- travel to		- borders	- Stage 3 – up	29 June 2020	salons for non-facial	19 June 2020
			regional NSW		reopen	to 100 for	- Step 3	services such as	- cafés,
			- up to 50 for			non-work	reopening	nails, massage and	restaurants,
			places of			indoor and		tanning.	bars and other
			worship			outdoor			licenced
			funeral			- up to 300 per			venues to seat
			- camping			venue			up to 100
			grounds and			- food			- contact
						businesses and			sports to start

VIC-Metro	VIC-Rural	NSW	QLD	TAS	WA	SA	NT	ACT
		caravan parks			licensed			full training
		to open			premises to			from 19 June
					operate with			to start their
		1 July			seated service			transition
		- gyms and			- alcohol to be			back to
		fitness studios			served without			competitions
		to reopen (up			a meal at			from 10 July.
		to 10 per class			licensed			
		and 100			premises			
		people in an						
		indoor venue)			27 June 2020			
		- children's			- Stage 4			
		sport and			reopening			
		community						
		sports						
		competition						
		for people						
		aged up to 18						
		years to						
		resume						
		- up to 10 for						
		tattoo and						
		massage						
		parlours						

^{*} Defined as the day any form of restriction was eased.

Sources:

NSW: https://www.health.nsw.gov.au/news/Pages/2020-nsw-health.aspx

VIC: https://www.theguardian.com/australia-news/datablog/ng-interactive/2020/oct/20/coronavirus-australia-news/datablog/ng-interactive/2020/oct/20

QLD: https://www.theguardian.com/australia-news/datablog/ng-interactive/2020/oct/20/coronavirus-australia-map-cases-covid-19-tracking-stats-live-data-update-by-state-suburb-postcode-how-many-new-active-case-numbers-today-statistics-corona-deaths-death-toll

SA: https://www.covid-19.sa.gov.au/home/dashboard/dashboard-table-data#covid-19-daily

WA: https://covidlive.com.au/wa

ACT:

https://app.powerbi.com/view?r=eyJrljoiZTY4NTI1NzQtYTBhYy00ZTY4LTk3NmQtYjBjNzdiOGMzZjM3 liwidCl6Iml0NmMxOTA4LTAzMzQtNDIzNi1iOTc4LTU4NWVlODhINDE5OSJ9

NT: https://coronavirus.nt.gov.au/;

https://newsroom.nt.gov.au/mediaRelease/33205

Appendix 2. Original COVID-19 measures: Items and scoring

COVID Impact Index

1. What impact has COVID-19 had on your time availability?

(1=much worse; 5=much better)

2. What impact has COVID-19 had on your job security?

(1=much worse; 5=much better)

3. What impact has COVID-19 had on your financial situation?

(1=much worse; 5=much better)

4. What impact has COVID-19 had on your <u>household/family responsibilities</u> (e.g. daily chores, parenting, schooling children)?

(1=much more responsibility; 5=much less responsibility)

5. What impact has COVID-19 had on your <u>extended family responsibilities</u> (caring for people not living in your household e.g., shopping, medical care, emotional support)? (1=much more responsibility; 5=much less responsibility)

6. What impact has COVID-19 had on your nutrition/diet?

(1=much worse; 5=much better)

7. What impact has COVID-19 had on your <u>amount of physical activity</u> (intentional and/or incidental)?

(1=much less; 5=much more)

8. What impact has COVID-19 had on your quality of sleep?

(1=much worse; 5=much better)

9. What impact has COVID-19 had on your family relationships?

(1=much worse; 5=much better)

10. What impact has COVID-19 had on your mental health?

(1=much worse; 5=much better)

11. What impact has COVID-19 had on your physical health?

(1=much worse; 5=much better)

12. What impact has COVID-19 had on your quality of social connections (including via digital means)?

(1=much worse; 5=much better)

13. What impact has COVID-19 had on your alcohol consumption?

(1=much less; 5=much more)

14. What impact has COVID-19 had on your substance use?

(1=much less; 5=much more)

15. What impact has COVID-19 had on your living situation (e.g., living space)?

(1=much less comfortable; 5=much more comfortable)

16. What impact has COVID-19 had on how lonely you feel?

(1=much less; 5=much more)

17. What impact has COVID-19 had on time spent on hobbies/leisure activities?

(1=much less; 5=much more)

18. What impact has COVID-19 had on your <u>daily routine</u>?

(1=much worse; 5=much better)

19. What impact has COVID-19 had on your work/study productivity?

(1=much worse; 5=much better)

Scoring (mean score calculated for each composite using the below items):

Job security, finances, routine, mental health & relationships: Items 2, 3, 9, 10, 12, 15, 18, 19 (higher score = more positive impact)

Physical health/health behaviours: Items 6, 7, 8, 11 (higher scores = more positive impact)

Family responsibilities: Items 4, 5 (higher scores = less responsibilities)

Alcohol/substance use: Items 13, 14 (higher scores = more use) Loneliness & time: Items 1, 16, 17 (higher scores = more)

Reference: Kleitman, S., Fullerton, D. J, Zhang, L. M. & Aidman, E. Validating cognitive fitness constructs as predictors of self-reported psychological well-being and its recovery after the first COVID-19 lockdown in Australia (submitted in PLOS ONE October 2021).

COVID Worry Scale

To what extent do the following statements describe how you feel NOW: 1=never; 4=always

- 1. I am nervous when I think about the pandemic
- 2. I am calm and relaxed when I think about the pandemic*
- 3. I am worried about my health due to COVID-19
- 4. I am worried about the health of my family members due to COVID-19
- 5. I am stressed about leaving my house
- 6. I am worried about someone I love dying due to COVID-19 related reasons
- 7. I am worried about returning to face-to-face interactions
- 8. I am stressed about taking public transport
- 9. I am concerned about the possibility of another wave of COVID-19 in the city/region where I live, or where my friends/family live
- 10. I am concerned about the possibility of another lockdown in the city/region where I live, or where my friends/family live
- 11. I am worried about losing money
- 12. I am worried about becoming unemployed
- 13. I am worried about global economic recession
- 14. I am worried about political systems failing
- 15. I am worried about my financial situation
- 16. I am worried about the Australian economy
- 17. I am worried about society and social liberties degrading
- 18. I am worried about grocery stores running out of food and/or other supplies
- 19. I am worried about pharmacies running out of medicines/essential health supplies
- 20. I am worried about our healthcare system being overloaded
- 21. I am worried about the healthcare system not being able to protect me or my loved ones

Scoring:

Personal/Family Concerns: Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Personal Financial Concerns: Items 11, 12, 15 Economy/Liberties Concerns: Items 13, 14, 16, 17 Infrastructure/Supplies Concerns: Items 18, 19, 20, 21

Higher scores = greater worries.

The original version of this scale (first 5 items) was taken from Kleitman et al. (2021). The scale was revised with additional items added for this and previous research to reflect ongoing changes related to the pandemic, and relevant manuscripts regarding this measure and its validation are currently undergoing preparation.

^{*}Reverse scored

Reference: Kleitman, S., Fullerton, D. J., Zhang, L., Blanchard, M. D., Lee, J., Stankov, L., & Thompson, V. (2021). To comply or not comply? A latent profile analysis of behaviours and attitudes during the COVID-19 pandemic. PLOS ONE, 16(7): https://doi.org/10.1371/journal.pone.0255268

Possible Impacts of COVID

*What <u>positive impacts</u> did you experience as a result of the first wave of COVID-19 restrictions (March-May 2020)?

Please select ONLY if this is a POSITIVE impact for you.

Select all that apply:

- Time saved from not needing to commute to work
- Extra time with immediate family/people you live with
- More communications with extended family (virtual communication)
- Neighbourhood initiatives such as the rainbow trail (rainbows in windows), "going on a bear hunt" (finding teddy bears in neighbour's windows) or similar
- Time to complete household chores (indoors & outdoors)
- Awareness about risk-reducing behaviours (e.g. Hand washing, use of hand sanitiser, not shaking hands, maintaining social distancing)
- Opportunities to assist members of the community who are less fortunate with donations or charity
- Extra time to focus on health (exercise, diet)
- Reducing environmental footprint (using your car less, not traveling overseas)
- Health care appointments were conducted via telehealth
- Mental health appointments were conducted via telehealth

Scoring: A total score 'positive impacts' was calculated by summing the number of items selected.

*What negative impacts have you experienced as a result of the COVID pandemic in Australia?

Please select ONLY if this is a NEGATIVE impact for you.

Select all that apply:

- Recreational activities were cancelled
- Health care appointments and treatments were cancelled or postponed
- Mental health appointments were cancelled or postponed
- Health care appointments were conducted via telehealth
- Mental health appointments were conducted via telehealth
- Isolated from a family member who usually resides in the same house as you
- Isolated from a family member who does not live with you
- Loss of time to myself during commute to work
- Too much time with immediate family/people you live with

Scoring: A total score 'negative impacts' was calculated by summing the number of items selected.

*What other impacts have you experienced as a result of the COVID pandemic in Australia?

Select all that apply:

- Kept children home from school/day care
- Switched to online shopping
- Learned how to use new software or apps, e.g. Zoom, Microsoft Teams, What's App etc.

Scoring: A total score 'other impacts' was calculated by summing the number of items select

Attitude and Motivation Towards Compliance

Please rate the extent to which you agree or disagree with each statement: 1=strongly disagree; 5=strongly agree

- 1. I am willing to comply with the current COVID-19 rules and recommendations
- 2. I am aware of the current COVID-19 rules and recommendations
- 3. I adhere to the current COVID-19 rules and recommendations
- 4. Should another lockdown be needed, I will follow the rules
- 5. If we have another lockdown, I will make sure my household follow the rules
- 6. If we have another lockdown, I can promptly adapt to the required lifestyle again
- 7. If we have another lockdown, I will be willing to adapt my behaviours
- 8. If we have another lockdown, I will break the rules*
- 9. Having a second lockdown will violate my rights*

Scoring: Mean score of all items. Higher scores = greater willingness and motivation towards compliance with COVID-19 restrictions.

Reference: Kleitman, S., Fullerton, D., Zhang, L. M. & Aidman, E. Validating cognitive fitness constructs as predictors of compliance attitudes after the first COVID-19 lockdown in Australia (in preparation).

^{*}reverse scored

Appendix 3. Data quality checking protocol

Summary

- Based on the advice of Wardropper et al (2021), our data quality checking protocol included seven **quality checks** to identify poor quality data/responders:
 - **Inconsistent responses**: Six logic checks based on inconsistent responses to related items as listed in Table A3.1.
 - Speedy completers: Overall survey completion time less than 7.79 minutes, which is equivalent to 30% of the median completion time and spending 1.68 seconds per mandatory item (i.e. excluding sections that only some participants were required to complete, therefore the time spent per question is likely to have been even less for some participants.)
 - This formula is used by the online survey provider, Survey Engine, to identify participants considered to be "speeders", or participants who completed the survey too quickly to comprehend and reflect on the questions adequately.
- Figure A3.1 outlines our data quality checking process and reasons for participant exclusions and Table A3.2 presents number of participants failing each check.
 - 99 people were excluded for failing 2 or more data quality checks, including completion time and/or logic checks (see Table A3.3).
 - 10 additional participants did not fail any logic checks but were excluded on excessively fast completion time alone as they were deemed to have completed the survey too quickly to comprehend and reflect on the questions adequately (1.68 seconds per mandatory item).
- In total 109 participants were excluded on the basis of having provided poor quality data, resulting in a final analysis sample of 1898 participants.

Reference: Wardropper et al, Conducting conservation social science surveys online 2021. Conservation Biology. 2021;1–9. DOI: 10.1111/cobi.13747

Figure A3.1. Participant inclusions and exclusions.

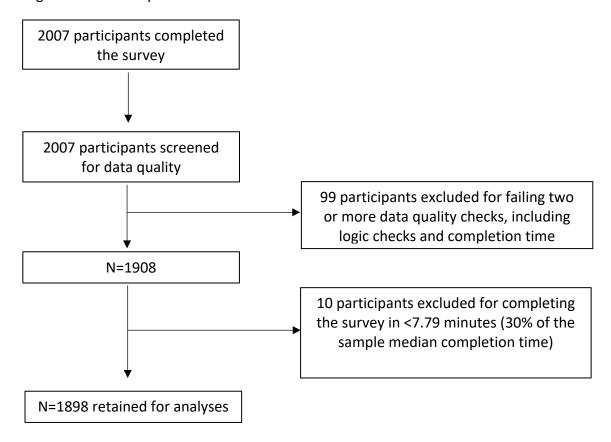


Table A3.1. Logic Checks for Inconsistent Responses

	Vari	able 1	Vari	iable 2	Criteria for Inconsistent				
Scale	Item(s)	Scoring	Item(s)	Scoring	Responses				
QLQ-C30	Average of QLQC30 items 6 to 28, e.g. 6) Were you limited in doing either your work or other daily activities? 12) Have you felt weak?	(1) not at all(2) a little(3) quite a bit(4) very much	Average of QLQC30 items: 29) How would you rate your overall health during the past week? 30) How would you rate your overall quality of life during the past week?	 ≥3 on variable 1 AND ≥5.5 on variable 2; OR ≤2 on variable 1 AND ≤1.5 on variable 2 					
COVID Worry	I am nervous when I think about the pandemic	(1) never(2) sometimes(3) often(4) always	I am calm and relaxed when I think about the pandemic	(1) never(2) sometimes(3) often(4) always	 1 on variable 1 AND 1 on variable 2; OR 4 on variable 1 AND 4 on variable 2 				
COVID Behaviours (a)	I stay at home	(1) never(2) sometimes(3) often(4) always	I attend social gatherings	(1) never(2) sometimes(3) often(4) always	 4 on variable 1 AND 4 on variable 2; OR 4 on variable 1 AND 3 on variable 2 				
COVID Behaviours (b)	I stay at home	(1) never(2) sometimes(3) often(4) always	I avoid crowded places	(1) never(2) sometimes(3) often(4) always	• 4 on variable 1 AND 1 on variable 2				
Brief COPE Inventory	Using alcohol or other drugs to make myself feel better	(1) I haven't been doing this at all(2) I've been doing this a little bit	Using alcohol or other drugs to help me get through it	(1) I haven't been doing this at all (2) I've been doing this a little bit	 1 on variable 1 AND 3 on variable 2; OR 1 on variable 1 AND 4 on variable 2; OR 				

		(3) I've been doing this a medium amount(4) I've been doing this a lot		(3) I've been doing this a medium amount(4) I've been doing this a lot	 3 on variable 1 AND 1 on variable 2; OR 4 on variable 1 AND 1 on variable 2
Compliance	Should another lockdown be needed, I will follow the rules	(1) strongly disagree (2) disagree (3) neither agree nor disagree (4) agree (5) strongly agree	If we have another lockdown, I will break the rules	(1) strongly disagree (2) disagree (3) neither agree nor disagree (4) agree (5) strongly agree	 1 on variable 1 AND 1 on variable 2; OR 1 on variable 1 AND 2 on variable 2; OR 2 on variable 1 AND 1 on variable 2; OR 2 on variable 1 AND 2 on variable 2; OR 3 on variable 1 AND 3 on variable 2; OR 3 on variable 1 AND 4 on variable 2; OR 4 on variable 1 AND 3 on variable 2; OR 4 on variable 1 AND 3 on variable 2; OR 4 on variable 1 AND 4 on variable 2; OR

Table A3.2. Number of participants flagged for each data quality check

Data Quality Check		Frequency
Completion time <7.79 minutes		25
(1.68 seconds per mandatory i	tem)	
Data inconsistency checks	QLQ-C30	38
	COVID Worry	104
	COVID Behaviours (a)	57
	COVID Behaviours (b)	11
	Brief COPE Inventory	61
	Compliance	307

Table A3.3. Frequencies of total data quality checks failed

Number of flags (i.e. data quality checks failed)	Frequency (N=2007)
0	1548
1	360
2	67
3	19
4	13

Appendix 4. Potential explanatory variables for all 15 QLQ-C30 domains and the GHQ regression models

Explana	itory variable	Description	Levels/allowable range
1.	COVID Impact Index Factor 1: better job	Mean score, continuous	Range 1-5
security	//finances/routine/mental health &	,	
relation			
2.	COVID Impact Index Factor 2: better	Mean score, continuous	Range 1-5
physica	health/activity/sleep/nutrition	,	S
3.	COVID Impact Index Factor 3: less family	Mean score, continuous	Range 1-5
respons	•	,	
4.	COVID Impact Index Factor 4: more	Mean score, continuous	Range 1-5
alcohol	/substance use		
5.	COVID Impact Index factor 5: lonely/	Mean score, continuous	Range 1-5
more ti	me		
6.	Number of positive impacts	Summed, continuous	Range 0-12
7.	Number of negative impacts	Summed, continuous	Range 0-10
8.	Number of other impacts	Summed, continuous	Range 0-4
9.	Health care services worker	Dichotomous	1= yes, 0=no
10.	Change in work hours	Hours worked in an average week in the 6	Range 0-168
-	3	months before COVID, MINUS hours worked in	5
		an average week now.	
11.	Attitude and Motivation towards	Mean score, continuous	Range 1-5
complia		The same of the sa	11011.80 = 0
12.	COVID Worry scale, factor 1.	Continuous	Range 1-4
	al/Family Concerns (items 1 to 10).	Continuous	Hange I 4
13.	COVID Worry scale, factor 2. Personal	Continuous	Range 1-4
_	al Concerns (items 11, 12, 15).	Continuous	nunge 1 4
14.	COVID Worry scale, factor 3.	Continuous	Range 1-4
	ny/Liberties Concerns (items 13, 14, 16,	Continuous	Nange 1 4
17).	17, 213 21 1123 231 1021 113 (1121 113 113, 114, 113,		
15.	COVID Worry scale, factor 4.	Continuous	Range 1-4
	ucture/Supplies Concerns (items 18 to 21).	Continuous	Nange 1 4
16.	Cared for children who were usually at	Dichotomous	1= yes, 0=no
_	day care whilst working	Dictionious	1- yes, 0-110
17.	Sex	Dichotomous	0=male, 1=female
18.	Age	Continuous	18-99 years
19.	Living with partner	Dichotomous.	1= yes, 0=no
15.	Erring with partition	Sich otomous.	
		Yes = Married (in a registered marriage)	
		OR never married but living with someone in a	
		relationship;	
		relationship,	
		No = Separated but not divorced	
		OR Divorced	
		OR Widowed	
		OR Never married and not living with someone	
		in a relationship	
20.	Location within Australia: Melbourne, VIC	Dichotomous	1= yes, 0=no
– Y/N	Location within Australia. Melbourne, VIC	- Dichotomous	1- yes, 0-110
21.	Location within Australia: VIC regional –	Dichotomous	1= yes, 0=no
Y/N	20000011 Within Addition. Vic regional	Sichetomous	1 400,0-110
22.	Location within Australia: NSW/QLD –	Dichotomous	1= yes, 0=no
Y/N	20000011 Within Australia. NOW/QLD	S.G.Iotoliiou3	1- yes, 0-110
.,			1

Please note that scoring for the COVID Impact Index, Attitude and Motivation towards compliance and COVID Worry scales are explained in Appendix 2.

Appendix 5. Regression Analyses

Table A5.1 Means, standard deviations, skewness and reliability estimates for continuous variables included in the regression models

	Mean (SD)	Skewness	α
Dependent Variables			
Global Health/QOL	62.92 (21.88)	50	.82
Physical Functioning	84.75 (20.61)	-1.45	.85
Role Functioning	82.10 (24.75)	-1.31	.75
Emotional Functioning	71.80 (26.36)	84	.89
Cognitive Functioning	82.91 (22.47)	-1.44	.69
Social Functioning	85.00 (24.77)	-1.70	.56
Fatigue	24.41 (23.38)	.97	.77
Nausea/Vomiting	8.40 (17.52)	2.36	.70
Pain	21.82 (27.73)	1.24	.85
Dyspnoea ^a	14.21 (25.04)	1.82	-
Insomnia ^a	29.42 (32.66)	.84	-
Appetite Loss ^a	12.54 (23.26)	1.96	-
Constipation ^a	12.12 (24.12)	2.08	-
Diarrhoea ^a	9.92 (21.05)	2.29	-
Financial Difficulties ^a	12.26 (24.79)	2.14	-
General health question ^a	2.85 (1.02)	.08	-
COVID-19 Impact Index			
Job security, finances, routine, mental health & relationships	2.69 (.55)	30	.80
Physical health/sleep/nutrition	2.76 (.68)	19	.72
Family responsibilities	2.64 (.71)	34	.60
Alcohol/substance use	2.82 (.75)	82	.59
Loneliness/boredom ^b	3.11 (.62)	05	.19
COVID-19 Worry Scale			
Personal Financial Concerns	2.20 (.91)	.42	.90
Personal/Family Concerns	2.38 (.69)	.31	.90
Economy/Liberties Concerns	2.49 (.78)	.17	.83
Infrastructure/Supplies Concerns	2.06 (.83)	.60	.84
Compliance Attitudes	4.10 (.84)	73	.92

Note. SD = standard deviation. α = Cronbach's alpha.

a. Alpha values are not given for these variables as they consist of only one item.

b. We note that the loneliness/boredom COVID-19 impact dimension has a low alpha value. This is to be expected given that this score is comprised of three more diverse items (impact on loneliness, time spent on hobbies, and time availability). Factor analysis was run to determine dimensionality of the scale; thus the scoring of these subscales was kept consistent with the results of the factor analysis.

Table A5.2 Pearson bivariate correlations between all continuous explanatory variables in the models

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 COVID Impact Index: Better job security, finances, routine, mental health & relationships														
2 COVID Impact Index: Better physical health/sleep/nutrition	.60**													
3 COVID Impact Index: Less family responsibilities	.35**	.29**												
4 COVID Impact Index: More alcohol/substance use	.05*	02	.04											
5 COVID Impact Index: More lonely/ bored	.24**	.22**	.13**	.17**										
6 COVID Worry Scale: Personal Financial Concerns	43**	23**	30**	.02	.00									
7 COVID Worry Scale: Personal/Family Concerns	25**	21**	30**	01	.04	.56**								
8 COVID Worry Scale: Economy/Liberties Concerns	27**	17**	21**	05*	.03	.53**	.54**							
9 COVID Worry Scale: Infrastructure/Supplies Concerns	20**	18**	30**	05*	03	.53**	.69**	.56**						
10 Number of positive impacts	.03	.06**	13**	09**	.13**	.08**	.21**	.12**	.09**					
11 Number of negative impacts	28**	19**	25**	.02	.03	.26**	.28**	.22**	.24**	.37**				
12 Number of other impacts	13**	11**	35**	.00	.03	.27**	.30**	.15**	.23**	.37**	.41**			
13 Attitudes and motivation towards compliance	.11**	.08**	.09**	03	.11**	15**	.05*	04	10**	.18**	12**	07**		
14 Change in work hours (before first lockdown – now)	21**	07**	09**	02	0.03	.19**	.05*	.08**	.03	.09**	.09**	.11**	01	
15 Age	.08**	.07**	.24**	08**	.05*	37**	17**	.00	23**	02	14**	34**	.38**	07**

Note. * *p* < .05; ** *p* <.01.

Table A5.3 Pearson bivariate correlations between continuous explanatory variables and dependent variables

	Global health/QOL	Physical Functioning	Role Functioning	Emotional Functioning	Cognitive Functioning	Social Functioning	Fatigue	Nausea/ Vomiting	Pain	Dyspnoea	Insomnia	Appetite Loss	Constipation	Diarrhoea	Financial Difficulties	GHQ
COVID Impact Index:																
Better job security,																
finances, routine, mental																
health & relationships	.32**	.02	.17**	.36**	.23**	.17**	17**	06*	06*	03	23**	13**	07**	01	14**	23**
COVID Impact Index:																
Better physical																l
health/sleep/nutrition	.32**	.09**	.17**	.30**	.23**	.19**	21**	08**	09**	08**	27**	14**	05 [*]	06*	16**	29**
COVID Impact Index: Less																
family responsibilities	.06*	.02	.16**	.18**	.13**	.12**	11**	12**	02	05*	16**	13**	05*	06**	16**	01
COVID Impact Index:																
More alcohol/substance				**		*						1.			*	l
use	03	.00	03	07**	06*	05*	.03	.04	.00	.04	.06*	.04	.03	.03	.05*	01
COVID Impact Index:				07**			0.0*		o=**		0=*		0.5*			
More lonely/ bored	01	01	.04	07**	03	04	.06*	01	.07**	.01	.05*	.01	.05*	.00	.03	.01
COVID Worry Scale:																
Personal Financial	0.4**	0.0**	0.0**	4=**	00**	4.0**	00**	0.4**	0.0**	4.4**	00**	0.4**	4.0**	40**	0.0**	0.0**
Concerns	21**	06**	20 ^{**}	45**	28**	19**	.22**	.21**	.08**	.11**	.26**	.24**	.18**	.18**	.28**	.08**
COVID Worry Scale:	0.4**	22**	28**	45**	00**	28**	.29**	.21**	.18**	.21**	.26**	.25**	.21**	.13**	.29**	.16**
Personal/Family Concerns	24**	22	28	45	28**	28	.29	.21	.18	.21	.26	.25	.Z1	.13	.29	.16
COVID Worry Scale:																
Economy/Liberties	17**	12**	16**	31**	18**	19**	.19**	.10**	.11**	.14**	.18**	.12**	.09**	.04	.16**	.11**
COVID Worry Scale:	17	12	10	31	10	19	.19	.10	.11	.14	.10	.12	.09	.04	.10	1.11
Infrastructure/Supplies																
Concerns	20**	24**	27**	35**	25 ^{**}	30**	.25**	.28**	.17**	.22**	.20**	.26**	.19**	.16**	.30**	.08**
Number of positive	20	24	21	33	25	30	.23	.20	.17	.22	.20	.20	.19	.10	.30	.00
impacts	.12**	.05*	02	04	03	.00	.00	.00	03	01	.03	.02	.06**	01	.02	09**
Number of negative	.12	.03	02	04	03	.00	.00	.00	03	01	.03	.02	.00	01	.02	03
impacts	15 ^{**}	14**	23**	27**	24**	20**	.18**	.16**	.15**	.14**	.21**	.16**	.14**	.14**	.23**	.05*
Number of other impacts	.01	.00	15**	19**	12**	08**	.08**	.14**	02	.04	.12**	.10**	.11**	.10**	.11**	10**
Attitudes and motivation		.50	.10	.10	.12	.00	.00	.17	.02	.04	. 12	.10		.10		1.10
towards compliance																
to war as compliance	.14**	.16**	.16**	.13**	.16**	.15**	07**	27 ^{**}	03	16**	07**	18**	18 ^{**}	21**	19**	.07**
Change in work hours																
(before first lockdown –																
now)	03	.09**	01	09**	07**	.01	.01	01	05*	02	.04	.04	.04	00	.01	.01
Age	.01	01	.15**	.21**	.17**	.09**	09**	30**	.07**	07**	09**	24**	18**	22**	17**	.19**

Note. * *p* < .05; ** *p* <.01.

Table A5.4. Spearman correlations between dichotomous explanatory variables and dependent variables

	Global health/QOL	Physical Functioning	Role Functioning	Emotional Functioning	Cognitive Functioning	Social Functioning	Fatigue	Nausea/ Vomiting	Pain	Dyspnoea	Insomnia	Appetite Loss	Constipation	Diarrhoea	Financial Difficulties	GHQ
Healthcare services																
worker (1=yes;																
0=no)	.07**	.07**	.04	.01	.04	.05*	04	03	06**	06*	03	06**	.00	02	04	05*
Cared for children																
who were usually at																
school/day-care																
whilst working																
(1=yes; 0=no)	01	.01	07**	07**	05*	03	.01	.06**	.01	01	.05*	.05*	.05*	.03	.05*	01
Living in Melbourne																
Metropolitan																
(1=yes; 0=no)	.01	.05*	03	03	.03	.05*	04	07**	08**	05*	04	08**	03	02	07**	04
Living in Regional																
Victoria (1=yes;																
0=no)	05*	02	07**	04	05*	03	.04	.02	.06**	.02	.04	.03	.02	.04	.06*	.02
Living in NSW/QLD																
(1=yes; 0=no)	.05*	03	.03	.09**	.05*	.01	01	01	02	00	01	02	01	05*	01	00
Living with partner																
(1=yes; 0=no)	.11**	.07**	.08**	.07**	.05*	.05*	07**	05*	05*	05*	05*	07**	01	01	04	06**
Sex (0=male;																
1=female)	02	03	.00	15**	04	01	.11**	.03	.05	02	.11**	.02	.04	03	04	.09**

Note. * *p* < .05; ** *p* <.01.

Tables A5.5-5.8 report the results of regression analyses predicting general health question (GHQ) and EORTC QLQ-C30 scores. The results discussed in this section are only those significant at the adjusted significance level. Those significant at p < .05 are marked in the tables.

GHQ: The model predicting GHQ was statistically significant, explaining 18.7% of variance, F(22,1871) = 19.54, p < .001. The strongest predictor of higher GHQ scores was a more negative impact of COVID-19 on physical health and activity. Impact of COVID-19 on work, mental health and social life was also a negative predictor. Personal/family concerns and age were small positive predictors. Lastly, fewer positive impacts of COVID was a weak predictor.

Global health/QOL: The model predicting global health/QOL was statistically significant, explaining 22.5% of variance, F(22,1871) = 24.75, p < .001. The strongest predictor of better global health/QOL life was less worry about oneself and one's family being infected with COVID-19. A more positive impact of COVID on work, mental health, and social life also predicted better global health/QOL, as was the case for impact on physical health. Less family responsibilities negatively predicted global health/QOL;, as well as more loneliness and time; however, this shared a negligible correlation with the outcome variable (r = .01, p = .81) indicating a possible suppressor effect. A greater number of positive COVID-related impacts and lower number of negative impacts also contributed to global health/QOL scores, as did more positive attitudes towards compliance. For demographics, living with a partner and being younger were the only significant predictors. However, age shared no correlation with global health/QOL (r = .02, p = .52) indicating a suppressor effect, thus this finding should be interpreted with caution.

Physical functioning: The model predicting physical functioning was significant, accounting for 15.7% of variance, F(22, 1871) = 15.82, p < .001. Personal/family concerns (negatively) and compliance attitudes (positively) were the strongest predictors of better physical functioning. Lower concerns about infrastructure and supplies, lower financial concerns, less negative impacts and living with a partner were also significant predictors of better physical functioning. Age was also significant, though had a very low zero-order correlation with the dependent variable, indicating a possible suppression effect.

Role functioning: The model predicting role functioning was significant, explaining 15.2% of variance, F(22, 1871) = 15.25, p < .001. Lower worry about oneself and family, and lack of infrastructure and supplies were significant predictors of better role functioning. Fewer negative impacts, higher scores on compliance attitudes, and living with a partner were also significant predictors.

Emotional functioning: The model predicting emotional functioning was significant, explaining 35.6% of variance, F(22,1871) = 46.96, p < .001. The strongest predictor was lower personal/family concerns, followed by lower financial concerns. Three COVID impact domains were significant, such that better work life, mental health, and social life; better physical health and activity; and less loneliness and time as a result of the pandemic predicted better emotional functioning. Fewer negative impacts, more positive compliance attitudes, and being male were also weaker predictors. Lastly, living in Metropolitan Melbourne and NSW or Queensland were also weak predictors; however, Melbourne did not share a significant correlation with the dependent variable (r = -.03, p = .24), indicating suppression.

Cognitive functioning: The model predicting cognitive functioning was significant, accounting for 17.3% of variance, F(22, 1871) = 17.79, p < .001. Impact of COVID on physical health and compliance attitudes were significant positive predictors. Personal/family concerns and number of negative impacts were significant negative predictors.

Social functioning: The model predicting social functioning was significant, capturing 16.4% of variance, F(22, 1871) = 16.63, p < .001. Significant predictors were positive impact on physical health, having less time and loneliness due to COVID-19, lower personal/family concerns, lower concerns about supplies and infrastructure, fewer negative impacts, positive compliance attitudes, and living in Metropolitan Melbourne. However, it should be noted that impact on loneliness and

time shared a trivial bivariate correlation with the dependent variable (r = -.04, p = .11), indicating a possible suppression effect.

Fatigue: The model predicting fatigue was statistically significant, capturing 15.5% of variance, F(22, 1871) = 15.59, p < .001. The strongest predictors were personal/family concerns and worse physical health and activity due to COVID. Greater negative impacts and being female also predicted fatigue. Not living in Metropolitan Melbourne was also significant.

Nausea: The model predicting nausea was significant, explaining 18.8% of total variance, F(22, 1871) = 19.65, p < .001. Concerns about self/family and infrastructure/supplies, number of negative impacts, negative attitudes towards compliance, and being younger were significant predictors of nausea. Not living in Metropolitan Melbourne was also significant.

Pain: The model predicting pain was significant, explaining 10.7% of total variance, F(22, 1871) = 10.19, p <.001. Personal/family concerns and experiencing more negative COVID impacts were the strongest predictors. Being older, having fewer positive impacts, having more time availability and loneliness, and not living in Metropolitan Melbourne were also significant; however positive impacts had a non-significant bivariate correlation with pain (r = -.03, p =.20), suggesting a suppression effect.

Dyspnoea: The model predicting dyspnoea was significant, explaining 11.1% of variance, F(22, 1871) = 10.59, p < .001. Personal/family concerns, infrastructure/supplies concerns, greater negative impacts, and more negative attitudes towards compliance were significant predictors.

Insomnia: The model predicting insomnia was significant, capturing 16.6% of the total variance, F(22, 1871) = 16.97, p < .001. Worse physical health due to the pandemic, greater concerns about personal finances and self/family, a greater number of negative impacts, and being female were significant predictors of insomnia. Experiencing more loneliness and boredom and not living in Metropolitan Melbourne were also significant, though living in Melbourne showed negligible zero-order correlation with the outcome (r = -.04, p = .07) suggesting suppressor effects.

Appetite loss: The model predicting appetite loss was significant, explaining 15.4% of variance, F(22, 1871) = 15.54, p < .001. Personal/family concerns, more negative attitudes towards compliance, not living in Metropolitan Melbourne, and being younger were significant predictors of appetite loss.

Constipation: The model predicting constipation was significant, explaining 10.7% of total variance, F(22, 1871) = 10.16, p < .001. The only significant predictors were personal/family concerns and more negative compliance attitudes.

Diarrhoea: The model predicting diarrhoea was significant, explaining 10.9% of total variance, F(22, 1871) = 10.38, p < .001. Better work life/mental health/social life, financial concerns, and negative COVID impacts were significant positive predictors. Compliance attitudes and age were significant negative predictors. However impact on work/mental health/social life shared no correlation with diarrhoea (r = -.01, p = .67), indicating a suppression effect.

Financial difficulties: The model predicting financial difficulties was significant, explaining 17.9% of total variance, F(22, 1871) = 18.55, p < .001. All dimensions of COVID-19 worry were significant predictors, positively, except for economic concerns which was negative. Worse physical health and activity, more negative impacts, and negative attitudes towards compliance were also significant predictors. Living in Metropolitan Melbourne was also significant.

Table A5.5. Summary of regression analyses predicting general health question scores, global QOL/health, physical functioning, and role functioning

	(General Hea	Ith Questi	on		Global Q	OL/Health			Physical F	unctioning		Role Functioning			
Predictor	В	SE	в	р	В	SE	в	р	В	SE	в	р	В	SE	в	р
COVID Impact Index: better job security/finances/routine/mental health/relationships	18	.06	10	.001**	6.68	1.18	.17	<.001**	-2.88	1.16	08	.01*	1.20	1.39	.03	.39
COVID Impact Index: better physical health/sleep/nutrition	36	.04	24	<.001**	6.12	.85	.19	<.001**	2.24	.84	.07	.01*	1.61	1.01	.04	.11
COVID Impact Index: less family responsibilities	.08	.04	.05	.03*	-2.66	.75	09	<.001**	10	.73	03	.17	.89	.88	.03	.31
COVID Impact Index: more alcohol/substance use	02	.03	02	.48	19	.62	01	.76	.19	.61	.01	.75	93	.73	03	.20
COVID Impact Index: more lonely/ bored	.10	.04	.06	.018	-3.17	.79	09	<.001**	80	.80	02	.31	.65	.94	.02	.49
Personal financial Concerns	.03	.04	.03	.36	51	.73	02	.48	2.25	.72	.10	.003**	.86	.87	.03	.32
Personal/Family Concerns	.28	.05	.19	<.001**	-6.98	1.01	22	<.001**	-6.64	.99	22	<.001**	-6.30	1.19	18*	<.001**
Economy/Liberties Concerns	04	.04	03	.25	1.03	.78	.04	.19	1.25	.77	.05	.10	1.22	.92	.04	.19
Infrastructure/Supplies Concerns	04	.04	03	.29	53	.83	02	.52	-4.23	.82	17	<.001**	-3.56	.98	12	<.001**
Number of positive impacts	04	.01	09	<.001**	1.20	.24	.12	<.001**	.66	.23	.07	.004*	.49	.28	.05	.08
Number of negative impacts	.03	.02	.04	.11	-1.18	.34	09	<.001**	-1.75	.34	13	<.001**	-2.23	.41	14	<.001**
Number of other impacts	09	.03	08	.003*	1.38	.65	.06	.03	.93	.64	.04	.14	68	.77	02	.38
Attitude and Motivation towards compliance – total score	.01	.03	.01	.67	3.47	.61	.13	<.001**	4.83	.60	.20	<.001**	3.35	.72	.11	<.001**
Healthcare services worker (1=yes; 0=no)	12	.10	02	.25	3.28	2.18	.03	.13	5.40	2.14	.05	.01*	5.00	2.57	.04*	.05*
Change in work hours (before first lockdown – now)	00	.00	01	.74	.02	.04	.01	.62	.12	.04	.06	.004*	.06	.05	.03	.24
Cared for children who were usually at school/day-care whilst working	.10	.09	.03	.24	95	1.82	01	.60	99	1.79	01	.58	1.22	2.16	.01	.57
Location within Australia: Melbourne VIC metro	17	.06	07	.01*	3.12	1.30	.06	.02*	2.56	1.27	.05	.05*	51	1.53	01	.74
Location within Australia: VIC regional	08	.06	03	.22	.71	1.28	.01	.58	.27	1.26	.01	.83	-2.34	1.51	04	.12
Location within Australia: NSW/QLD	02	.06	01	.79	1.91	1.28	.04	.13	99	1.25	02	.43	-1.56	1.51	03	.30
Living with partner (1=yes; 0=no)	08	.05	04	.07	3.56	.94	.08	<.001**	3.07	.93	.07	<.001**	4.17	1.11	.08	<.001**
Age	.01	.00	.21	<.001**	10	.03	09	.001**	13	.03	12	<.001**	.03	.04	.02	.45
Sex (1=female; 0=male)	.12	.04	.06	.01*	.30	.91	.01	.75	.12	.90	.00	.90	.04	1.08	.00	.97

Table A5.6. Summary of regression analyses predicting emotional functioning, cognitive functioning, social functioning, and fatigue

		Emotional	Functioning	B		Cognitive F	unctioning			Social Fu	nctioning		Fatigue			
Predictor	В	SE	в	р	В	SE	в	р	В	SE	в	р	В	SE	в	р
COVID Impact Index: better job security/finances/routine/mental health/relationships	7.26	1.29	.15	<.001**	1.94	1.25	.05	.12	2.97	1.38	.07	.03	58	1.31	01	.66
COVID Impact Index: better physical health/sleep/nutrition	4.22	.93	.11	<.001**	4.22	.90	.13	<.001**	3.19	1.00	.09	.001**	-4.81	.95	14	<.001**
COVID Impact Index: less family responsibilities	-2.06	.82	06	.01	-1.05	.79	03	.18	32	.88	01	.72	.35	.83	.01	.67
COVID Impact Index: more alcohol/substance use	-1.51	.68	04	.03	-1.03	.65	03	.11	-1.53	.72	05	.04	.29	.69	.01	.68
COVID Impact Index: more lonely/ bored	-4.23	.87	10	<.001**	-2.21	.84	06	.01*	-3.13	.93	08	<.001**	2.96	.88	.08	<.001**
Personal financial Concerns	-5.10	.80	18	<.001**	-1.89	.78	08	.02*	1.70	.86	.06	.05	.53	.82	.02	.52
Personal/Family Concerns	-10.94	1.11	29	<.001**	-5.30	1.07	16	<.001**	-6.68	1.19	19	<.001**	6.65	1.12	.20	<.001**
Economy/Liberties Concerns	13	.86	00	.88	.75	.83	.03	.36	.47	.92	.01	.61	.20	.87	.01	.82
Infrastructure/Supplies Concerns	.51	.91	.02	.57	-1.20	.88	04	.17	-4.81	.98	16	<.001**	1.68	.92	.06	.07
Number of positive impacts	.55	.26	.05	.03	.20	.25	.02	.42	.45	.28	.04	.11	58	.26	06	.03*
Number of negative impacts	-1.68	.38	10	<.001**	-1.95	.36	14	<.001**	-1.89	.40	12	<.001**	1.61	.38	.11	<.001**
Number of other impacts	13	.71	.00	.86	1.02	.69	.04	.14	.73	.76	.03	.34	34	.72	01	.63
Attitude and Motivation towards compliance – total score	2.37	.67	.08	<.001**	3.00	.65	.11	<.001**	3.75	.72	.13	<.001**	-1.71	.68	06	.01*
Healthcare services worker (1=yes; 0=no)	-1.00	2.39	01	.67	1.59	2.31	.01	.49	2.91	2.56	.02	.26	-3.48	2.43	03	.15
Change in work hours (before first lockdown – now)	.02	.05	.01	.72	04	.05	02	.38	.09	.05	.04	.09	06	.05	03	.18
Cared for children who were usually at school/day-care whilst working	2.19	2.00	.02	.27	79	1.93	01	.68	1.45	2.14	.02	.50	-3.52	2.03	04	.08
Location within Australia: Melbourne VIC metro	4.44	1.42	.07	.002**	3.77	1.37	.07	.01*	4.74	1.52	.08	.002**	-4.21	1.45	08	.004*
Location within Australia: VIC regional	3.96	1.40	.07	.005	1.11	1.35	.02	.41	1.77	1.50	.03	.24	82	1.43	02	.56
Location within Australia: NSW/QLD	4.27	1.40	.07	.002**	2.25	1.35	.04	.10	.80	1.50	.01	.59	.09	1.42	.00	.95
Living with partner (1=yes; 0=no)	2.12	1.03	.04	.04	.98	1.00	.02	.33	2.15	1.11	.04	.05	-2.59	1.05	05	.01*
Age	.08	.04	.06	.02	.06	.03	.05	.06	02	.04	01	.61	.00	.04	.00	.96
Sex (1=female; 0=male)	-5.43	1.00	10	<.001**	96	.97	02	.32	1.00	1.08	.02	.35	4.25	1.02	.09	<.001**

Table A5.7. Summary of regression analyses predicting nausea, pain, dyspnoea, and insomnia

		Nau	ısea			Pa	in			Dysp	noea			Ins	omnia	
Predictor	В	SE	в	р	В	SE	в	р	В	SE	в	р	В	SE	в	р
COVID Impact Index: better job security/finances/routine/mental health/relationships	1.47	.97	.05	.13	1.28	1.60	.03	.42	3.52	1.44	.08	.02*	-1.68	1.82	03	.36
COVID Impact Index: better physical health/sleep/nutrition	63	.70	02	.37	-2.58	1.16	06	.03*	-2.14	1.04	06	.04*	-9.00	1.31	19	<.001**
COVID Impact Index: less family responsibilities	.03	.61	.00	.96	.87	1.01	.02	.39	.75	.91	.02	.41	-1.21	1.15	03	.29
COVID Impact Index: more alcohol/substance use	.44	.50	.02	.39	30	.84	01	.72	1.10	.75	.03	.14	1.57	.95	.04	.10
COVID Impact Index: more lonely/ bored	.38	.65	.01	.56	3.48	1.08	.08	.001**	.27	.97	.01	.78	4.49	1.23	.08	<.001**
Personal financial Concerns	.13	.60	.01	.82	49	1.00	02	.62	-1.33	.90	05	.14	3.86	1.13	.11	<.001**
Personal/Family Concerns	2.99	.83	.12	<.001**	6.60	1.37	.17	<.001**	6.48	1.24	.18	<.001**	7.43	1.56	.16	<.001**
Economy/Liberties Concerns	-1.48	.64	07	.02*	-1.34	1.06	04	.21	.27	.95	.01	.78	04	1.20	.00	.97
Infrastructure/Supplies Concerns	3.28	.68	.16	<.001**	3.20	1.13	.10	.01*	3.27	1.02	.11	.001**	-1.26	1.28	03	.33
Number of positive impacts	23	.19	03	.23	-1.03	.32	08	.001**	47	.29	04	.10	43	.36	03	.24
Number of negative impacts	.92	.28	.08	.001**	2.86	.47	.16	<.001**	1.92	.42	.12	<.001**	2.14	.53	.10	<.001**
Number of other impacts	.17	.53	.01	.75	-1.73	.88	06	.05*	49	.79	02	.54	.28	1.00	.01	.78
Attitude and Motivation towards compliance – total score	-4.02	.50	19	<.001**	-1.93	.83	06	.02*	-4.87	.75	16	<.001**	-2.32	.94	06	.01
Healthcare services worker (1=yes; 0=no)	-2.55	1.78	03	.15	-5.99	2.96	04	.04*	-4.85	2.67	04	.07	1.18	3.37	.01	.73
Change in work hours (before first lockdown – now)	04	.04	02	.28	13	.06	05	.02*	04	.05	02	.49	07	.07	02	.29
Cared for children who were usually at school/day-care whilst working	-1.82	1.49	03	.22	.52	2.48	.00	.83	-2.92	2.23	03	.19	96	2.82	01	.73
Location within Australia: Melbourne VIC metro	-4.46	1.06	11	<.001**	-5.76	1.76	09	.001**	-4.28	1.59	07	.01*	-6.97	2.01	09	<.001**
Location within Australia: VIC regional	-2.42	1.05	06	.02*	.65	1.74	.01	.71	-1.65	1.57	03	.29	-1.09	1.98	01	.58
Location within Australia: NSW/QLD	-2.27	1.05	06	.03*	-1.57	1.74	02	.37	85	1.56	01	.59	.10	1.97	.00	.96
Living with partner (1=yes; 0=no)	.20	.77	.01	.79	-3.41	1.28	06	.01*	-2.69	1.15	05	.02*	-2.64	1.46	04	.07
Age	16	.03	17	<.001**	.20	.04	.13	<.001**	.05	.04	.03	.23	.06	.05	.03	.27
Sex (1=female; 0=male)	.92	.75	.03	.22	1.09	1.24	.02	.38	-1.45	1.12	03	.20	5.18	1.42	.08	<.001**

Table A5.8. Summary of regression analyses predicting appetite loss, constipation, diarrhoea, and financial difficulties

		Appeti	te Loss			Consti	pation			Diarr	hoea			Financial	Difficulties	3
Predictor	В	SE	в	р	В	SE	в	р	В	SE	в	р	В	SE	в	р
COVID Impact Index: better job security/finances/routine/mental health/relationships	.43	1.31	.01	.74	44	1.39	01	.75	4.94	1.21	.13	<.001**	1.86	1.37	.04	.18
COVID Impact Index: better physical health/sleep/nutrition	-2.75	.94	08	.004*	04	1.01	.00	.97	-1.93	.88	06	.03*	-3.17	.99	09	.001**
COVID Impact Index: less family responsibilities	14	.83	.00	.87	2.27	.88	.07	.01*	.54	.77	.02	.48	-1.17	.87	03	.18
COVID Impact Index: more alcohol/substance use	.69	.68	.02	.31	.48	.73	.01	.51	01	.63	.00	.99	.93	.72	.03	.20
COVID Impact Index: more lonely/ bored	1.39	.88	.04	.11	1.85	.94	.05	.05*	.36	.82	.01	.66	2.27	.92	.06	.01
Personal financial Concerns	1.03	.81	.04	.21	.75	.87	.03	.38	2.69	.76	.12	<.001**	3.31	.85	.12	<.001**
Personal/Family Concerns	5.43	1.12	.16	<.001**	6.83	1.19	.20	<.001**	1.99	1.04	.07	.06	5.97	1.18	.17	<.001**
Economy/Liberties Concerns	-1.98	.86	07	.02*	-2.05	.92	07	.03*	-2.29	.80	08	.004	-2.79	.91	09	.002**
Infrastructure/Supplies Concerns	2.76	.92	.10	.003*	1.29	.98	.04	.19	1.50	.86	.06	.08	3.40	.97	.11	<.001**
Number of positive impacts	.02	.26	.00	.93	.40	.28	.04	.15	35	.24	04	.15	26	.27	02	.34
Number of negative impacts	1.03	.38	.07	.01*	.89	.41	.06	.03	1.49	.36	.11	<.001**	2.32	.40	.15	<.001**
Number of other impacts	-1.26	.72	05	.08	20	.77	01	.80	.00	.67	.00	.99	-1.24	.75	04	.10
Attitude and Motivation towards compliance – total score	-3.36	.68	12	<.001**	-4.82	.72	17	<.001**	-3.66	.63	15	<.001**	-4.31	.71	15	<.001**
Healthcare services worker (1=yes; 0=no)	-6.21	2.42	06	.01*	.33	2.58	.00	.90	-1.61	2.25	02	.47	-1.27	2.54	01	.62
Change in work hours (before first lockdown – now)	.02	.05	.01	.72	.03	.05	.01	.54	03	.04	01	.53	05	.05	02	.33
Cared for children who were usually at school/day-care whilst working	51	2.02	01	.80	50	2.16	01	.82	-1.76	1.88	02	.35	-1.63	2.13	02	.44
Location within Australia: Melbourne VIC metro	-5.86	1.44	11	<.001**	-3.61	1.53	07	.02*	-2.23	1.34	05	.10	-5.04	1.51	09	<.001**
Location within Australia: VIC regional	-1.29	1.42	02	.36	98	1.51	02	.52	83	1.32	02	.53	-1.52	1.49	03	.31
Location within Australia: NSW/QLD	-1.92	1.42	04	.17	77	1.51	01	.61	-2.84	1.32	06	.03*	-1.94	1.49	03	.19
Living with partner (1=yes; 0=no)	-1.64	1.04	03	.12	.65	1.11	.01	.56	.18	.97	.00	.85	-1.16	1.10	02	.29
Age	18	.04	13	<.001**	10	.04	08	.01*	12	.03	10	<.001**	.00	.04	.00	.93
Sex (1=female; 0=male)	.56	1.02	.01	.58	1.30	1.08	.03	.23	-1.04	.94	02	.27	-2.22	1.07	04	.04

Question	Level	Frequency	2015/16 Sample % (or mean [SD])	2020 Sample % (or <i>mean [SD]</i>)	Population % (or mean [SD]) ^a	Statistic ^{b,d}	p value
Country of Birthe	Australia	1461	74.1	77.0	71.7	X ² = 65.10	<.001
	England	92	-	4.8	4.2		
	New Zealand	36	-	1.9	2.4		
	India	48	-	2.5	2.1		
	Italy	11	-	.6	.8		
	Vietnam	15	-	.8	1.0		
	Philippines	33	-	1.7	1.1		
	Other	202	_	10.6	16.7		
Australian	Yes	1637		86.2	82.4	X ² = 19.55	<.001
itizenship ^e	163	1037					<.001
mployment Status ^e	Employed	1092	-	57.5	56.1	$X^2 = 257.83$	<.001
	Unemployed	227	-	12.0	4.1		
	Not in the labor force	579	-	30.5	33.1		
	Not stated	-	-	-	6.7		
Vork Industry ^e	Agriculture, Forestry,	78	-	7.1			
	Fishing				2.5		
	Mining	13	-	1.2	1.7		
	Manufacturing	55	-	5.0	6.4		
	Electricity, Gas, Water	15	-	1.4			
	and Waste Services				1.1		
	Construction	73	-	6.7	8.5		
	Wholesale Trade	19	_	1.7	2.9		
	Retail Trade	98	_	9.0	9.9		
	Accommodation and	72	_	6.5	5.5		
	Food Services	12	-	0.5	6.9		
		43		2.0	0.9		
	Transport, Postal and	42	-	3.9			
	Warehousing				4.7		
	Information Media and	39	-	3.6			
	Telecommunications				1.7		
	Financial and Insurance	52	-	4.7			
	Services				3.6		
	Rental, Hiring and Real	17	-	1.6			
	Estate Services				1.7		
	Professional, Scientific	90	-	8.3			
	and Technical Services				7.3		
	Administrative and	93	-	8.5			
	Support Services				3.4		
	Public Administration	33	-	3.0			
	and Safety				6.7		
	Education and Training	134	-	12.3	8.7		
	Health Care and Social	96	_	8.8			
	Assistance			5.5	12.6		
	Arts and Recreation	36	_	3.3	12.0		
	Services	30	_	J.J	1.7		
	Other Services	89	-	8.2	3.7		
Chronic Conditions	Asthma, emphysema, or	277	-				
monic Conditions	• • •	211	13.5	14.6	n/a		
	chronic bronchitis	224		17.6	20.5	v2 o c :	
	Arthritis or rheumatism	334	19.9	17.6	20.5	$X^2 = 9.64$.002
	Cancer diagnosed in last	68	2.8	3.6	n/a		
	3 years					2	
	Diabetes	192	9.3	10.1	6.2	$X^2 = 48.87$	<.001
	Digestive problems (e.g.	112		5.9	7.4	$X^2 = 5.98$.01
	stomach ulcer, colitis, or		7.1				
	gallbladder disease)						
	Heart trouble (e.g.	118		6.2	n/a		
	angina, congestive heart		F 0				
	failure, or coronary		5.8				
	artery disease)						
	HIV illness or AIDS	19	0.4	1.0	n/a		
	Kidney disease	39	1.6	2.1	1.2	$X^2 = 12.17$	<.001
	Liver problems (e.g.	29	1.0	1.5	n/a	A - 12.17	\.UU.
		23	1.6	1.3	ıı/a		
	cirrhosis)	16	1.2	0	0	V ² = 34	.65³
	Stroke	16	1.3	.8	.8	$X^2 = .21$.05°
	None of these	1131	59	59.6	n/a		

a. Population values for Country of Birth were obtained from the Australian Bureau of Statistics 2016 Census (note, this data was not limited to those aged 18 and over). Prevalence of chronic conditions were derived from the Australian Bureau of Statistics National Health Survey, published December, 2018: https://www.abs.gov.au/statistics/health/health-conditions-and-risks/national-health-survey-first-results/latest-release. Population data for other chronic conditions was not directly comparable in format.

b. The chi-squared goodness of fit test was used to compare observed distributions to those expected based on Australian population data.

c. Indicates sample is not statistically significantly different from the Australian general population.

d. Comparisons are between 2020 sample and population data^a.

e. Data not available from 2015/16 reference sample: Mercieca-Bebber, R., et al. (2019). "The EORTC Quality of Life Questionnaire for cancer patients (QLQ-C30): Australian general population reference values." Med J Aust 210(11): 499-506.