

Health-related quality of life, uncertainty and coping strategies in solid organ transplant recipients during shielding for the COVID-19 pandemic

McKay, Siobhan; Lembach, Hanns; Hann, Angus; Okoth, Kelvin; Anderton, Joy; Nirantharakumar, Krishnarajah; Magill, Laura; Torlinska, Barbara; Armstrong, Matthew; Mascaro, Jorge; Inston, Nicholas; Pinkney, Thomas; Ranasinghe, Aaron Matthew; Borrows, Richard; Ferguson, James; Isaac, John; Calvert, Melanie; Perera, Thamara; Hartog, Hermien

DOI:

[10.1111/tri.14010](https://doi.org/10.1111/tri.14010)

License:

Other (please specify with Rights Statement)

Document Version

Peer reviewed version

Citation for published version (Harvard):

McKay, S, Lembach, H, Hann, A, Okoth, K, Anderton, J, Nirantharakumar, K, Magill, L, Torlinska, B, Armstrong, M, Mascaro, J, Inston, N, Pinkney, T, Ranasinghe, AM, Borrows, R, Ferguson, J, Isaac, J, Calvert, M, Perera, T & Hartog, H 2021, 'Health-related quality of life, uncertainty and coping strategies in solid organ transplant recipients during shielding for the COVID-19 pandemic', *Transplant international*, vol. 34, no. 11, pp. 2122-2137. <https://doi.org/10.1111/tri.14010>

[Link to publication on Research at Birmingham portal](#)

Publisher Rights Statement:

This is the peer reviewed version of the following article: McKay, S.C., et al. (2021), Health-related quality of life, uncertainty and coping strategies in solid organ transplant recipients during shielding for the COVID-19 pandemic. *Transplant International*, which has been published in final form at: <https://doi.org/10.1111/tri.14010>. This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions. This article may not be enhanced, enriched or otherwise transformed into a derivative work, without express permission from Wiley or by statutory rights under applicable legislation. Copyright notices must not be removed, obscured or modified. The article must be linked to Wiley's version of record on Wiley Online Library and any embedding, framing or otherwise making available the article or pages thereof by third parties from platforms, services and websites other than Wiley Online Library must be prohibited.

General rights

Unless a licence is specified above, all rights (including copyright and moral rights) in this document are retained by the authors and/or the copyright holders. The express permission of the copyright holder must be obtained for any use of this material other than for purposes permitted by law.

- Users may freely distribute the URL that is used to identify this publication.
- Users may download and/or print one copy of the publication from the University of Birmingham research portal for the purpose of private study or non-commercial research.
- User may use extracts from the document in line with the concept of 'fair dealing' under the Copyright, Designs and Patents Act 1988 (?)
- Users may not further distribute the material nor use it for the purposes of commercial gain.

Where a licence is displayed above, please note the terms and conditions of the licence govern your use of this document.

When citing, please reference the published version.

Take down policy

While the University of Birmingham exercises care and attention in making items available there are rare occasions when an item has been uploaded in error or has been deemed to be commercially or otherwise sensitive.

If you believe that this is the case for this document, please contact UBIRA@lists.bham.ac.uk providing details and we will remove access to the work immediately and investigate.

Download date: 19. Apr. 2024

Supplementary Table 1: Comparison of characteristics of survey responders and non-responders

Characteristics	Non-Responders N=3013	Responders N=826	P-value
Age (Median, IQR)	57 (43-66)	60 (50-67)	<0.001
Sex (n, %)			
Female	1254 (42%)	356 (43)	0.654
Missing	2 (0)	0 (0)	
Type of Organ Transplanted (n, %)			
Liver	1878 (62)	593 (72)	<0.001
Heart/lung	269 (9)	87 (11)	
Kidney	866 (29)	146 (17)	
Time since transplant (n, %)			
< 1 year	125 (7)	58 (7)	<0.001
1-2 years	211 (11)	74 (9)	
2-5 years	580 (29)	188 (23)	
> 5 years	1055 (54)	506 (61)	
Missing	1042 (35)	0 (0)	
Ethnicity (n, %)			
White	2063 (68)	766 (93)	<0.001
BAME*	683 (23)	54 (7)	
Prefer not to answer	0 (0)	6 (1)	
Missing	267 (9)	0 (0)	
Language (n, %)			
Non-English First Language	198 (7)	15 (2)	<0.001
English First Language	2814 (93)	810 (98)	
Missing	1 (0)	1 (0)	
Index of multiple deprivation (n,%)			
1 (Least deprived)	947 (31)	111 (13)	<0.001
2	517 (17)	127 (15)	
3	484 (16)	134 (16)	
4	391 (13)	155 (19)	
5 (Most deprived)	357 (12)	196 (24)	
Missing	317 (11)	103 (12)	

* BAME= British, Asian and minority ethnicity. P value is for the comparison of responders with non-responders.

Supplementary Table 2: Comparison of reported compliance with shielding advice between COVID transplant responders and National UK survey data*

	National UK Survey*		COVID Transplant		Chi ²	p-value
	n	(%)	n	(%)		
Clinically Extremely Vulnerable	2237	(100)	826	(100)		
Received Communication to Shield	2121	(95)	792	(96)	1.847	0.17
Overall Shielding adherence**						
Not compliant	21	(1)	34	(4)	32.23	<0.001
Compliant	2203	(99)	792	(96)		
Stay at home at all times	751	(34)	587	(71)	334.77	<0.001

*Shielding Behavioural Survey conducted by the Office for National Statistics in July 2020, including 4 081 clinically extremely vulnerable patients sampled through the National Shielding Helpline³¹.

** For analysis purposes patients answering partially, mostly and completely were grouped as "shielding compliant"

Supplementary Table 3: Comparison of reported COVID infection rate in National and Regional (Midlands) areas*, compared to COVID Transplant survey.

	UK*			Regional (Midlands)*			COVID Transplant Survey			Chi ²	P-value
	All recipients	COVID positive		All recipients	COVID positive		All recipients	COVID positive			
	N	N	(%)	N	N	(%)	N	N	(%)		
Kidney	39145	595	(1.52)	5678	85	(1.50)	162	2	(1.2)	0.104	0.949
Liver	10632	82	(0.77)	1678	7	(0.42)	595	4	(0.6)	2.560	0.278
Heart/Lung	4160	55	(1.32)	669	10	(1.49)	89	2	(2.2)	0.656	0.720
Total	53937	732	(1.36)	8025	102	(1.27)	846	8	(0.9)		

*NHSBT Report³⁰