Additional File 5

Articles reviewed in the literature scan

	Title	Authors	Year	Topic area	Participant groups	# of CMOs
1	A call for citizen science in pandemic preparedness and response: beyond data collection	Yi-Roe Tan, Anurag Agrawal, M. P. Matsoso, et al.	2022	Empowering communities through shared knowledge-making and bidirectional communication, citizen science could be a bridge to build trust among communities, researchers and policymakers in a collective decision-making process.	Communities, researchers and policymakers	1
2	A Children-Created Virtual Learning Space Station	T. Zaman, David Lim, et al.	2022	A virtual learning space station that was developed for children by children to plan, interact and conduct co-design activities.	63 primary school children from Namibia, Malaysia, and Finland	2
3	A co-design of clinical virtual care pathways to engage and support families requiring neonatal intensive care in response to the COVID-19 pandemic (COVES study)	Marsha Campbell-Yeo, Justine Dol, et al.	2021	During the COVID-19 pandemic, neonatal intensive care units (NICUs) restricted family presence to reduce disease transmission, leading to communication challenges and disruptions to family-integrated care.	Parents, families, clinicians, decision-makers, and researchers	5
4	Bonded design in the virtual environment: the transition of a participatory design methodology	Valerie Nesset, Elisabeth C. Davis, et al.	2021	Examines how bonded design (BD), a participatory design methodology, was influenced by the transition to working in a virtual environment necessitated by the pandemic.	University researchers with librarians from three libraries (urban, suburban and rural) located within a large public library system in New York State, and older adults	1
5	Co-design of digital dietary intervention for adults at risk of type 2 diabetes	Brenda S. J. Tay, Sarah M. Edney, et al.	2021	Co-design and evaluate a digital dietary intervention with key stakeholders to promote healthy behavior change among adults at risk of type 2 diabetes (T2D).	Pre-diabetes patients, and professionals including dietitians, credentialed diabetes educators, nurses, medical doctors, research	7

					scientists, and exercise physiologists.	
6	Culturally Adapting Evidence on Dementia Prevention for Ethnically Diverse Communities: Lessons Learnt from co-design	B. Brijnath, Carolina Navarro Medel, et al.	2023	Investigating the experience of co-designing a dementia prevention animated film with ethnic groups in Australia.	Participants from the Arabic-, Hindi-, Tamil-, Cantonese-, Mandarin-, Greek-, Italian-, Spanish-, and Vietnamese-speaking communities.	2
7	Distributing participation in design: Addressing challenges of a global pandemic	Aurora Constantin , Cristina Adriana Alexandru , et al.	2021	Interaction design and children, an online design experience with children.	Co-design practitioners and a group of children in a school in the UK.	10
8	Empowering patients to co-design Covid-19 responses: the role of online health communities	Marian Garcia Martinez, Carlos Bezos Daleske, et al	2022	Investigating patient action during Covid-19 and how co-design methods can be adapted to an online environment in response to Covid-19 restrictions to improve the Covid-19 patient and family experience of care.	Adults with COVID-19 recovering at home in Spain, and family caregivers, healthcare professionals, patient experience experts/facilitators.	1
9	It is a relay not a sprint! Evolving co-design in a digital and virtual environment: neighbourhood services for elders	Stephen Osborne, Madeline Powell, et al.	2022	Investigating the contingencies of virtual co-design through a case study of a project to develop supportive local communities for vulnerable elderly people in Scotland.	Both elderly people and support/care staff.	4
10	Making online participatory design work: Understanding the digital ecologies of older adults	Katerina Cerna, Claudia Müller	2021	How digital ecologies of older participants have become an issue to tackle in the online PD workshops.	Older adult group, a heterogenous group with various digital experiences and competencies	4
11	Pushing boundaries of co-design by going online: Lessons learned and	Jerry Alan Fails, Dhanush kumar	2022	Transition to online co-design; the pros and cons of logistics and design tools utilized during the co-design sessions; and the advances, challenges, and surprises.	Children	7

	reflections from three perspectives	Ratakonda , et al.				
12	The Virtual Inclusive Digital Health Intervention Design to Promote Health Equity (iDesign) Framework for Atrial Fibrillation: Co-design and Development Study	Nino Isakadze, Nancy Molello, et al.	2022	Co-design a digital health intervention for patients with atrial fibrillation.	Patients, caregivers, and clinical staff	3
13	Translating Co-Design from Face-to-Face to Online: An Australian Primary Producer Project Conducted during COVID-19	Alison Kennedy, Catherine Cosgrave, et al.	2021	Co-designing to prevent poor mental health for primary producers (advantages, challenges and considerations of translating face-to-face co-design methods to an online environment in response to COVID-19 restrictions).	Primary producers (farmers), service providers and industry stakeholders, researchers	5
14	Stop-motion storytelling: Exploring methods for animating the worlds of rare genetic disease	Richard Gorman, Bobbie Farsides, Tony Gammidg e	2023	The role of participatory filmmaking and animation in the development of methodologies appropriate to accessing, revealing and representing the social worlds of families affected by rare genetic conditions.	Mothers of children affected by rare genetic conditions	4
15	Rapid development of a COVID-19 care planning decision-aid for family carers of people living with dementia	E. West, P. Nair, N. Aker, et al.	2022	Co-produced with people living with dementia, and caregivers, a decision-aid for family carers of people living with dementia, to support decisions during the COVID-19.	Staff from 2 end-of-life and supportive care organizations, people living with dementia and family carers	2
16	Reflections From Implementing a Virtual Social Innovation Lab	Belinda Li, T. Soma,	2023	Case study of a fully virtual social innovation lab on bioplastics packaging, which was adapted from a series of in-person workshops (prototyping techniques).	Participants represented a broad range of sectors and positions, from volunteers in non-profit organizations to senior staff in government.	1
17	Participant perspectives of an online co-design process to	Marley J. Binder, Hannah	2022	Exploring participant experiences of an online co-design process to develop a web- based	Primary producers, including horticulture, fisheries, animal	1

	develop a prevention-focused mental health and well-being platform for primary producers	Beks, et al.		prevention mental health and well-being intervention.	cultivation and farm consultancy	
18	Insider-outsider positions during co-production	Clarice Mota, Leny Trad, Lisa Dikomitis	2021	Horizontal dialogue and trustful relationship, to co-produce.	Public (lay/community members and service users), academic researchers, healthcare professionals and practitioners	1
19	Ambitious about co-production	Emily Niner and Kerrie Portman	2021	Online co design workshop with young people with autism.	Autistic young people, youth participation staff/facilitators	2
20	Involving older people in co-designing an intervention to reverse frailty and build resilience	John Traversa, b, Roman Romero-Ortunoc, et al.	2022	Involving older people in co-designing a randomised control trial (RCT) intervention to reverse frailty and build resilience.	Community-dwelling older adults	4
21	Exploring how design can support the expression of personal aesthetic preferences in dementia	Marney Walker	2022	Design to develop tools to enable visual expression of aesthetic preferences to support agency in the curation of personal space.	People living with early to moderate dementia, and specialist practitioners	2
22	Co-designed, culturally tailored cervical screening education with migrant and refugee women in Australia: a feasibility study	Rosalie Power, Jane M. Ussher, et al.	2022	Co-designed, culturally tailored and co-facilitated cervical screening health promotion forums within the communities.	Culturally and linguistically diverse (CALD) women from migrant and refugee backgrounds	3
23	Reflections on Online Focus Group Research With Low Socio-Economic Status African American Adults During COVID-19	Lorraine Lathen and Linnea Laestadius	2021	Online research methods involved participants of low socio-economic status (SES).	Low socioeconomic status African American adults	1

24	Selfie consents, remote rapport, and Zoom debriefings: collecting qualitative data amid a pandemic in four resource-constrained settings	Mark Donald C Reñosa, Chanda Mwamba, et al.	2021	Assessing the challenges and opportunities of remote data collection during COVID-19.	Community members from four resource-constrained settings across different countries involved in global health research	7
25	Robots for Connection: A Co-Design Study with Adolescents	Patrıcia Alves-Oliveira, Elin A. Bjorling, et al.	2022	Co-design with adolescents in the design of a social robot prototype intended to broadly support their mental health.	Adolescents whose ages ranged from 14–18 years old	1
26	Co-producing the covid-19 response in Germany, Hong Kong, Lebanon, and Pakistan	Robert Marten, Fadi El-Jardal, et al.	2021	Adaptations of co-production approach during the pandemic.	Public, policy makers, researchers and public health experts, and health system leaders	3
27	Codesign and community outreach to create COVID-19 safe communities: A Karen community case study	Hilary Davis, Shandell Elmer, et al.	2023	Co-designing culturally appropriate COVID-19 communication and community outreach strategies to create COVID-19 safe communities.	Karen refugee/migrant community members, community leaders, bicultural workers, health/community stakeholders	1
28	Participatory research in a pandemic: The impact of Covid-19 on co-designing research with autistic people	Danielle Rudd, Se Kwang Hwang,	2022	Challenges and adaptations of co-designing participatory research with autistic people during COVID-19.	Autistic people (autistic adults, including autistic parents)	1
29	Conducting Co-Design with Older People in a Digital Setting: Methodological Reflections and Recommendations	ANDREW DARLEY, ÁINE CARROLL	2022	Digital co-design with older people: methodological challenges, adaptations, and recommendations during/after COVID-19	Older adults involved as co-design partners; researchers/facilitators	3

30	Conversations for change during COVID- 19	Meerat Kaur, Sarah Stayt, et al.	2021	Community-led co-production to address COVID-19 inequalities and develop locally relevant responses	Community members, community champions, grassroots organizations, voluntary sector groups, and health/social care stakeholders in North West London	1
31	Ethical Considerations of Distributed Participatory Design with Children	Constantin, Aurora, Valentina Andries, et al.	2022	Ethical issues arising from Distributed Participatory Design (DPD) research with children.	Children (as participatory design participants)	0
32	Low-Contact Co-Design: Considering more flexible spatiotemporal models for the co-design workshop	A. Davis, I. Gwilt, Niki Wallace, J. Langley	2021	Novel possibilities for continuing collaborative research work through the concept of 'low contact co-design'.	No specific participants	0
33	Participatory research in times of COVID-19 and beyond: Adjusting your methodological toolkits	Claudia Sattler, Jens Rommel, et al.	2022	Challenge of adjusting different participatory methods to online formats used in five transdisciplinary social-ecological research projects.	No specific participants	0
34	Recommendations for Virtual Qualitative Health Research During a Pandemic	Tessa Pocock, Melody Smith, J. Wiles	2021	Exploring the potential of virtual qualitative research.	No specific participants	0