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The 4E Model of Empowerment through Photovoice

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Editors: Stephanie Lloyd, MA Laura Lorenz, MEd, PhD Diana L. Weggler, BA "Don't be afraid to tell your story. Your voice is important, and your story is unique."
---Meredith Lavitt

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The Author

Carson Peters graduated from Grinnell College with a Bachelor of Arts in Biology of Global Health. Currently in her second year of the Master of Public Health Program at the University of Iowa, she is passionate about global public health and advocacy. Her participation in an international honors' program in health and community took her to Brazil, India, and South Africa to conduct infectious disease research on Tuberculosis, HIV/AIDS, and Zika. Carson's experiences abroad inspired her to conduct her senior thesis on women's cancer as a health disparity in Sub-Saharan Africa. Prior to her internship at PhotovoiceWorldwide in Summer 2020, Carson's research experiences included working at the National Institute of Health's National Institute of Allergy and Infectious Diseases, the Harvard TH Chan School of Public Health, and the Harvard Global Health Institute. In May of 2015 she interned on Capitol Hill in the House of Representatives for the Honorable Congressman John Lewis, related to her public policy and advocacy interests.

The Mentor

Laura discovered photovoice in 2000 while exploring arts-based approaches to youth programming and civic engagement for a Master of Education in Instructional Design at the University of Massachusetts Boston. Having previously worked as a photojournalist in Africa and Asia, Laura was used to taking the photos herself, but the script was flipped when she designed a photovoice civic engagement project that put cameras in the hands of teenage girls. For her doctoral dissertation in health policy/health services research at Brandeis University, Laura used photovoice to understand living with brain injury from the perspectives of individuals accessing brain injury rehabilitation services and support groups. Laura has led photovoice trainings for medical schools, professional societies, community organizations, and government agencies. She offers online photovoice professional development for clinicians, researchers, educators, students, and managers. Laura has presented and published widely on her work.

Executive Summary

During her Summer 2020 internship at Photovoice Worldwide, Carson Peters conducted a literature review on recent innovations in use of the photovoice method with people with disabilities, in particular cognitive and communication disabilities. Carson's literature review findings and her training in mathematics and epidemiology inspired her to develop an interdisciplinary model she calls the 4Es of empowerment through photovoice. By re-envisioning photovoice frameworks and theories found in the literature (Moffat & Kohler, 2008; Liebenberg, 2018; Bates, Ardrey, Mphwatiwa, Bertel Squire & Niessen, 2018; Roy, Donaldson, Baker & Kerr, 2014; Lorenz & Kolb, 2020; and Golden & Earp, 2012), Carson provides a lens for students to view the photovoice method and its use, and photovoice project findings and outcomes. Carson's literature review documents innovations in use of the method to support meaningful photovoice participation by people with cognitive and communication disabilities, an underserved yet important public health population. The 4E model is one way to conceptualize the empowerment process of photovoice. The model is intended to foster connections between quantitative and qualitative research methodologies and their student practitioners, and inspire others to envision and conduct participatory visual research that is person-centered and inclusive.

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The 4E Model of Empowerment through Photovoice

By Carson Peters

Introduction

During my internship at PhotovoiceWorldwide, I facilitated a review of the literature on recent photovoice method innovations designed for using photovoice with people with disabilities, in particular, communication and cognitive disabilities. I immersed myself in current photovoice literature and bolstered my understanding of this participatory, visual arts-based approach. I observed commonalities among the papers I reviewed and identified recurring themes, for example, using a life-based approach to photovoice when working with people with cognitive disabilities or mental illness. Several themes emerged as I was delving deeply into the literature review, including four concepts that I refer to as the 4Es: explore, enhance, encourage, and embody. I posit that when all four of these concepts are realized in a photovoice project, they additively culminate in the determinant, "empower." Empowerment of participants is a stated purpose of photovoice (Wang & Burris, 1997).

My 4E model frames the findings from my literature review using a mathematical lens. I have a background in epidemiology both as a second-year Master of Public Health student with a concentration in epidemiology, and as a student researcher conducting epidemiological research at the National Institutes of Health. Thus, I have approached the topic of empowerment and its factors from an epidemiological perspective, which at its core is founded on mathematics and statistics.

My math lens inspired me to develop an interdisciplinary model, the 4Es of empowerment through photovoice. This model quantitatively suggests how photovoice empowers individuals while highlighting the mathematical processes involved. The model exhibits recent photovoice scholarship in the field of disability studies related to cognitive disabilities, and demonstrates how photovoice empowers communities by providing opportunities to explore perspectives, encourage action, enhance capacities and embody change.

Background/Problem

Previous literature has described the use of photovoice with individuals with physical disabilities (Dassah, Aldersey & Norman, 2017) and individuals with intellectual disabilities

(Overmars-Marx, Tomese & Moonen, 2016). Thus, my literature review focused on recent innovations with photovoice among individuals with cognitive disabilities. My purpose was to unpack innovations in bolstering meaningful photovoice participation among people with cognitive disabilities, and contribute to current photovoice method discourse. Photovoice practitioners seek to partner with people with cognitive disabilities in order to include their voices, perspectives, and experiences in policy, program, and practice decisions. Identifying innovations in the photovoice literature for people with cognitive disabilities contributes to inclusive research practice and, hopefully, policy, program, and practice improvements. Envisioning a theoretical framework that illustrates a photovoice empowerment process may encourage further innovation in the use of photovoice with this important population.

Methods

The literature review methods emulated a scoping literature review and used the frameworks of the Arksey and O'Malley (2005) and Pham, Rajic, Greig, Sargeant, Papadopoulos and McEwan (2014). These frameworks included a five-step process of identifying research questions, identifying relevant studies, determining the study selection, charting the data, and collating, summarizing and reporting the results. My research mentor, Dr. Lorenz, identified papers using the PubMed database and the reference lists of the collected papers. Search terms used included photovoice, participatory visual methods, disabilities, and published between 2010 and 2020. Papers that included a sample with physical disabilities only were excluded from the review. Papers that did not describe innovations in the use of photovoice were also excluded, as our purpose was to codify ways that researchers have been adapting the method to enhance meaningful participation by people with communication and cognitive disabilities.

Using papers identified by my internship mentor, I parsed information on each paper into a table with the columns: Author, Year and Journal; Focus; Participants; Methods; Interesting or Important Considerations or Practices (see the Appendix). Each row provided information on one paper. Our main inclusion criteria were: papers whose sample had any cognitive or emotional/behavioral/psychological disability or

long-term condition that impacts same. Included conditions were: acquired brain injury (ABI), intellectual or developmental disability (IDD), mental illness, multiple sclerosis, and substance use disorder or substance abuse. Of particular interest were papers whose methods included any visual communication strategy intended to enhance the sharing of tacit knowledge (Pain, 2012); papers that demonstrated some participatory direction by participants (Rix, Carrizosa, Seale, Sheehy & Hayhoe, 2019; Lorenz & Kolb, 2020). Examples of participatory direction included helping to determine the visual method project's questions, process, data collection approach, and dissemination. In the reviewed papers, participatory direction was noted when participants were involved in helping decide on questions to answer with the camera, when to meet and how to share project findings, and whether to work one-on-one with facilitators or to meet in a group.

After conducting the literature review, I summarized the main findings and began to develop the 4E model of empowerment through photovoice (Figure 1).

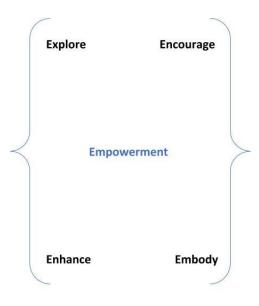


Figure 1. The 4E Model of Empowerment Matrix. The equation illustrated by the figure is {explore + encourage + enhance + embody = empowerment}. Legend: Black = Factors, Blue = Determinant

Literature Review Findings

I will briefly summarize some review findings here. The participants ranged in age from 5 years to 77 years; most were living in the community. The studies were conducted in a range of countries, from Australia to Belgium, Canada (Toronto, Vancouver and Quebec), Ireland, Puerto Rico, Sweden, Vietnam, and the United States. In the United States, studies were conducted in both urban and rural areas of Georgia, Illinois, Massachusetts, New York, and South Carolina. Study sample size ranged from two to 146

participants. Study site locations included community based centers, community spaces, community living facilities, and medical facilities (e.g., voluntary day hospital, university hospital, or psychiatric ward).

The range of cognitive or emotional/behavioral/psychological disabilities or long-term conditions included in the review were acquired brain injury (ABI), early stages Alzheimer's disease, Autism Spectrum Disorder, Addison's disease, cerebral palsy, dementia, drug addiction, intellectual and developmental disabilities (IDD), mental health-related disorders, psychiatric disabilities, and Type 1 diabetes. The consent and informationsharing process varied significantly among the studies, as did participants' relationships with the researcher and the dynamics between the participants. The study focus and methods used differed as well and included interviews, focus group discussion, photography, and video filming. For the most part, participants took the photographs; however, a researcher or caretaker was directed to take photographs for the participants in some studies. Ethical considerations were described in all the papers. One paper (St. John, Hladic, Romaniak & Ausderau, 2018) comprised a review of photovoice studies, while the remaining studies primarily used the photovoice method. My literature review findings demonstrated that, as has been argued (Wang & Burris, 1997; Liebenberg, 2018), empowerment is a major purpose and desired outcome of the photovoice method. Further, I noticed that four factors seemed to contribute to empowerment of participants and their communities, and I labeled them Explore, Encourage, Enhance, and Embody (see Figure 1). I will now discuss these four factors and how they contribute to the larger narrative of empowerment with photovoice. In Figure 2, I have depicted the literature that has informed my understanding of the four factors.

>Factor: Explore

The factor **explore** focuses on how the environment or community influences health and health outcomes. This concept is extracted from the social ecological model of community, where the environment (a social determinant of health) is shown to shape quality of life and public health trajectories (Bronfenbrenner, 1989). The environment (tangible or intangible) is observed in the built, social and physical environment, and represents barriers or facilitators to individual and community health. Moffatt and Kohler (2008) argue that "different managerial and social policies at both the macro-and the micro-level" impact the environment where there is an emerging need to "integrate history of nature with the history of human culture" (p 248). In other words, the environment for any one individual is impacted by both societal and individual actions and affected by human interactions with nature. Through the lens of community, the factor explore includes the following domains: "Education/training/skills, community leaders, Delivery of community services, Community physical environment, Community capacity, Modifications to community environments or services" (Golden & Earp, 2012). Thus, explore involves learning about the built environment (such as

homes, buildings, factories, farms, urban spaces, walkways, railroads, canals, landfills, roads, parks, or other physical/human made structures) and the community attributes (aspects of a physical space and/or community that enhance or hinder accessibility) (Perdue, Stone & Gostin, 2003). These concepts of built environment and community attributes influence public health landscapes. With photovoice, exploring public health concerns is a valuable way to begin to understand the structural and systemic issues that impact individuals and their communities, from their perspectives.

>Factor: Encourage

The factor **encourage** is an iterative process in participatory research where participants are actively involved in conducting the research. Photovoice is a participatory action research method whereby people decide on a project topic or questions, take photos, discuss their photos with the group, thematically group their photos, and advocate for change. Photovoice participation can be called having "voice" (Lorenz, 2010). A process of encouragement through photovoice rejects the traditional research model in which the researcher retains power and research subjects merely provide data, whether it be their blood, genetic material, or answers to a survey. The concept of encourage demonstrates the personoriented/person-centric ideals of photovoice. Encouragement is basic to participatory action research and community-based participatory action research (CBPAR), which values the inherent knowledge, realties, needs and expertise of local communities (Liebenberg, 2018). Photovoice encourages individuals to "identify, represent and enhance their community through their lens" and "record and reflect their community's strengths and concerns, to promote critical dialogue and knowledge about personal community issues through large and small group discussion of their photographs and to reach policy makers" (Budig, Diez, Conde, Sastre, Hernan & Franco, 2018 pp1-2). The factor **encourage** results in person-centric visual narrative findings that shift the research focus lens from researcher to participant.

>Factor: Enhance

The factor enhance captures a range of stakeholders in photovoice and utilizes multiple research methods, including participatory visual methods, to develop comprehensive, multidisciplinary, and holistic narratives of individual and community health. Enhance relies on patient participation, focuses on photovoice method adaptions and innovations relevant to different participant groups and purposes, and uses a participant-centered intrinsic or self-motivated approach (Bates, 2018). By capitalizing on networks and relationships with stakeholders, the factor enhance leads to findings that identify the "impact of social enterprise activity on health outcomes and their social determinants" (Roy, Donaldson, Baker & Kerr, 2014, p 1). In so doing, the factor enhance illuminates a multi-pronged participatory research approach that enhances an interdisciplinary research, policy, programming and practice discourse that includes participants, researchers, and decision-makers.

>Factor: Embody

The factor **embody** comprises the intersectionality of biology and sociology in shaping disease, disability, and illness experiences, by illuminating the meaning of illness in a social context. The concept of embodiment has been used in the contexts of health movements and aesthetics-based visual methods such as photovoice. Embodied health movements illuminate "challenges to existing medical/scientific knowledge and practice and often involve activists collaborating with scientists and health professionals" (Brown, Zavestoski, McCormick, Mayer, Morello-Frosch & Gasior Altman, 2004, p 50). Embodied aesthetics include art perception (impression side) and active art making (expression side) (Koch, 2017). The factor **embody** focuses on the ways that individuals experience, manifest, and channel health and illness experiences and meanings. Embody illustrates that social health narratives need to be flexible, holistic, and interdisciplinary in order to be effective in supporting the health of individuals and communities.

>Determinant: Empowerment

The concept of **empowerment** is the model's major determinant and serves as its culminating factor or the "big picture". According to Wang and Burris (1997), photovoice seeks to empower individuals and communities, and the goals of photovoice are to: "enable people to record and reflect their community's strengths and concerns; promote critical dialogue and knowledge about important issues through small group discussions of photographs, and; reach policy makers" (p 1). **Empowerment** is a central element of the "original conceptual underpinnings" of photovoice and "its implementation" (Budig et al., 2018, p 3).

Empowerment focuses on the power and self-perception of individuals involved in photovoice projects. Ideally, participating in photovoice enables individuals to become empowered in their identity and as change agents in their community. The determinant empowerment means creating opportunities for mobilization and the amplification of voice through sharing lived experiences with peers and outside audiences. Empowerment also reflects the photovoice literature on empowerment, which is considered both a process and an outcome. **Empowerment** exists in an interwoven, interactional, and complex system to which many actors and stakeholders contribute. For an individual participant, empowerment relates to knowledge, capacity to act, and perceived competence; to critical awareness of environmental factors impacting life and health, and to having skills to act on that awareness and cope with adverse circumstances (Budig et al., 2018; Hennink, Kiiti, Pillinger & Jauakaran, 2012; Kolb and Lorenz, 2021).

With photovoice, exploring public health concerns are a valuable way to begin to understand the structural and systematic issues that impact individuals and their communities, from their perspectives. **Empowerment** is an outcome of participatory visual research practices and the determinant of the four contributing factors described above.

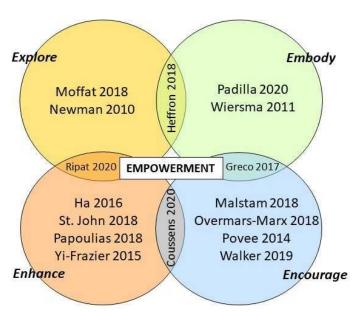


Figure 2. 4E Model of Empowerment with Photovoice. A Venn Diagram depicting the intersectionality of factors culminating in the determinant. Papers are listed by first author and year. For full author list and citation, see references.

Discussion

The 4E model illustrates how photovoice can lead to empowerment among individuals with communication and cognitive disabilities These concepts are intertwined and interactional and contribute to empowerment, a concept central to photovoice and an outcome of this interactional process. By assembling and altering past frameworks and theories of Moffat et al. (2008), Liebenberg (2018), Bates et al. (2018), Roy et al. (2014), Lorenz and Kolb (2020), and Golden and Earp (2012), I seek to contribute to prior scholarship and provide a lens for other students to view the photovoice method and photovoice project findings and outcomes.

I have organized the 4E framework in the following way: we start with **explore** to contextualize the issue; before turning to **encourage** to actively engage individuals, **enhance** to actively collaborate with stakeholders, and **embody** to engage both heart and mind in illustrating health and illness experiences. Together, the four factors lead to opportunities to **empower** communities and influence interdisciplinary policy, program, and practice discourse. The four factors are both interrelated and correlative, and empowerment is the culminating outcome.

This model has developed additively from the foundations of photovoice and its practice over the past 30 years. I suggest that the model contributes to a holistic understanding of

photovoice methodology and how it works. I hope that this model energizes emerging researchers to empower participants through holistic research practices to create positive health outcomes for themselves and their communities.

Conclusion

My literature review on photovoice with people with cognitive disabilities demonstrates that photovoice is holistic, personoriented, and sustainable. Innovations in the photovoice method support meaningful participation and communication by people with cognitive disabilities. I posit that the 4E model is a call to action for researchers to facilitate photovoice with individuals who may be marginalized by cognitive disabilities and to focus on their lived experiences, expand discourse and their knowledge basis through participatory visual research, and encourage practical, life-enhancing skill-building among participants. The theoretical framework developed further reframes photovoice research by illustrating the empowerment process, while also serving as a bridge to connect the disciplines of quantitative and qualitative research and innovative methodologies.

What is Photovoice?

Photovoice is a participatory visual research method that puts cameras in the hands of people with valuable lived experience so they can explore and share their perspectives on health, family, community, and their futures.

For 25 years, photovoice projects have been carried out around the world, with youth, persons living with chronic health conditions, persons who have physical, emotional, developmental, or cognitive disabilities, homeless, pregnant teens, veterans, and many others.

PhotovoiceWorldwide's mission is to help individuals and organizations worldwide use photovoice safely, ethically, and successfully, and to create a global community for photovoice peer-to-peer support and continuing education.



For more information, visit our website at <u>www.photovoiceworldwide.com</u>

References

- Listings preceded by an asterisk are reviewed in the appendix.
- Arksey, H. & O'Malley, L. (2005). Scoping studies: towards a methodological framework, *International Journal of Social Research Methodology*, 8(1): 19-32.
- Bates, M.J., Ardrey, J., Mphwatiwa, T., Bertel Squire, S., and Niessen, L.W. (2018). Enhanced patient research participation: A photovoice study in Blantyre Malawi. *BMJ Supportive & Palliative Care*, 8(2): 171-174. doi:10.1136/bmjspcare-2017-001439
- Bronfenbrenner, U. (1989). Ecological systems theory. Annals of child development, 6: 187-249.
- Brown, P., Zavestoski, S., McCormick, S., Mayer, B., Morello-Frosch, R. and Gasior Altman, R. (2004). Embodied health movements: new approaches to social movements in health. *Sociology of Health & Illness*, 26: 50-80. doi:10.1111/j.1467-9566.2004.00378.x
- Budig, K., Diez, J., Conde, P., Sastre, M., Hernan, M. and Franco, M. (2018). Photovoice and empowerment: Evaluating the transformative potential of a participatory action research project. *BMC Public Health*, 18:432. doi: 10.1186/s12889-018-5335-7
- *Coussens, M., Destoop, B., De Baets, S., Desoete, A., Oostra, A., Vanderstraeten, G., . . . Van de Velde, D. (2020). A qualitative photo elicitation research study to elicit the perception of young children with Developmental Disabilities such as ADHD and/or DCD and/or ASD on their participation. *PloS one*, 15(3), e0229538. doi:10.1371/journal.pone.0229538
- Dassah, E., Aldersey, H. M., & Norman, K. E. (2017). Photovoice and persons with physical disabilities: A scoping review of the literature. *Qualitative Health Research*, 27(9): 1412-1422. doi:10.1177/1049732316687731
- Golden, S.D, and Earp, J.A.L. (2012). Social ecological approaches to individuals and their contexts: twenty years of health education & behavior health promotion interventions. *Health Education & Behavior : The Official Publication of the Society for Public Health Education*, 39(3): 364-72. doi:10.1177/1090198111418634
- *Greco, V., Lambert, H. C., & Park, M. (2017). Being visible: PhotoVoice as assessment for children in a school-based psychiatric setting. *Scandinavian Journal of Occupational Therapy*, 24(3), 222-232. doi:10.1080/11038128.2016.1234642
- *Gustafsson, S., Falk, C., Tillman, S., Holtz, L., & Lindahl, L. (2018). Life filming as a means of participatory approach together with older community-dwelling persons regarding their local environment. *Scandinavian Journal of Occupational Therapy*, 25(5), 347-357. doi:10.1080/11038128.2018.1502345
- *Ha, V. S. and Whittaker, A. (2016). 'Closer to my world': Children with autism spectrum disorder tell their stories through photovoice. *Glob Public Health*, 11(5-6): 546-563.
- *Heffron, J. L., Spassiani, N. A., Angell, A. M., & Hammel, J. (2018). Using Photovoice as a participatory method to identify and strategize community participation with people with intellectual and developmental disabilities. *Scandinavian Journal of Occupational Therapy*, 25(5), 382-395. doi:10.1080/11038128.2018.1502350
- Hennink, M., Kiiti, N., Pillinger, M. and Jauakaran, R. (2012). Defining empowerment: Perspectives from international development organisations. *Development in Practice*, 22(2): 202-215.
- Koch, Sabine. (2017). Arts and health: Active factors and a theory framework of embodied aesthesis. *The Art in Psychotherapy*, *54*: 85-91.
- Kolb, B. and Lorenz, L. (2021 forthcoming). Chapter 9: Photo elicitation and photovoice: An empowerment approach to research with vulnerable populations. In M. Pohn-Lauggas and R. Breckner (Eds), Visual Methods.
- Kriger, D. (2019). Malleable methodologies: Sculpting and imagination in embodied health research. *International Journal of Qualitative Methods*, 18: 1609406918804955.
- Liebenberg, Linda. (2018). Thinking critically about photovoice: Achieving empowerment and social change." *International Journal of Qualitative Methods*, 17:1.
- Lorenz, LS. (2010). Visual metaphors of living with brain injury: Exploring and communicating lived experience with an invisible injury, *Visual Studies*, 25(3), pp 210-223, doi: https://doi.org/10.1080/1472586X.2010.523273

- Lorenz, L. and Kolb, B. (2020). Chapter: Visual ethnography in health and healthcare: Concepts, steps and good practice, in P, Hackett and C. Hayre (Eds), Handbook of Ethnography in Health, Routledge.
- *Mälstam, E., Bensing, S., & Asaba, E. (2018). Everyday managing and living with autoimmune Addison's disease: Exploring experiences using photovoice methods. *Scandinavian Journal of Occupational Therapy*, 25(5), 358-370. doi:10.1080/11038128.2018.1502351
- *Martin, S., Augusto, J. C., McCullagh, P., Carswell, W., Zheng, H., Wang, H., . . . Mulvenna, M. (2013). Participatory research to design a novel telehealth system to support the night-time needs of people with dementia: NOCTURNAL. *International journal of environmental research and public health*, 10(12), 6764-6782. doi:10.3390/ijerph10126764
- Moffatt, S., and Kohler, N. Conceptualizing the built environment as a social–ecological system. *Building Research & Information*, 36(3): 248-268, doi: 10.1080/09613210801928131
- *Newman, S. D. and SCI Participants. (2010). Evidence-based advocacy: Using photovoice to Identify barriers and facilitators to community participation after spinal cord injury. *Rehabilitation Nursing*, 35(2): 47-59. ☐ doi: 10.1002/j.2048-7940.2010.tb00031.x
- *Overmars-Marx, T., Thomése, F., & Moonen, X. Photovoice in research involving people with intellectual disabilities: A guided photovoice approach as an alternative. *Journal of Applied Research in Intellectual Disabilities, 31*(1), 2018: e92-e104. doi:10.1111/jar.12329
- *Padilla, M., Matiz-Reyes, A., Colón-Burgos, J. F., Varas-Díaz, N., & Vertovec, J. (2018). Adaptation of PhotoVoice methodology to promote policy dialog among street-based drug users in Santo Domingo, Dominican Republic. *Arts Health*, 1-16. doi:10.1080/17533015.2018.1444647
- Pain, H. (2012). A literature review to evaluate the choice and use of visual methods. *International Journal of Qualitative Methods*, 11(4): 303-319
- *Papoulias, C. (2018). Showing the unsayable: Participatory visual approaches and the constitution of 'patient experience' in healthcare quality improvement. *Health Care Analysis : HCA : Journal of Health Philosophy and Policy, 26*(2): 171-188
- Perdue, W. C., Stone, L. A., & Gostin, L. O. (2003). The built environment and its relationship to the public's health: the legal framework. *Am J Public Health*, 93(9), 1390-1394. doi:10.2105/ajph.93.9.1390
- Pham, M. T., Rajić, A., Greig, J. D., Sargeant, J. M., Papadopoulos, A., & McEwen, S. A. (2014). A scoping review of scoping reviews: advancing the approach and enhancing the consistency. *Research Synthesis Methods*, *5*(4), 371-385. doi:10.1002/jrsm.1123
- *Povee, K., Bishop, B. J., & Roberts, L. D. (2014). The use of photovoice with people with intellectual disabilities: reflections, challenges and opportunities. *Disability & Society*, 29(6), 893-907. doi:10.1080/09687599.2013.874331
- *Ripat, J., Woodgate, R. L., & Bennett, L. (2020). Attitudes faced by young adults using assistive technology as depicted through photovoice. *Disabil Rehabil Assist Technol*, 15(3), 314-321. doi:10.1080/17483107.2019.1571118
- Rix, J., Carrizosa, H. G., Seale, J., Sheehy, K., & Hayhoe, S. (2019). The while of participation: A systematic review of participatory research involving people with sensory impairments and/or intellectual impairments. *Disability & Society*, 1-27. doi:10.1080/09687599.2019.1669431
- *Routhier, F., Mortenson, W. B., Demers, L., Mahmood, A., Chaudhury, H., Martin Ginis, K. A., & Miller, W. C. (2019). Mobility and participation of people with disabilities using Mobility Assistive Technologies: Protocol for a mixed-methods study. *JMIR Res Protoc*, 8(4), e12089. doi:10.2196/12089
- Roy, M. J., Donaldson, C., Baker, R., & Kerr, S. (2014). The potential of social enterprise to enhance health and well-being: a model and systematic review. *Soc Sci Med*, 123, 182-193. doi:10.1016/j.socscimed.2014.07.031
- *Schleien, S. J., Brake, L., Miller, K. D., & Walton, G. (2013). Using Photovoice to listen to adults with intellectual disabilities on being part of the community. *Annals of Leisure Research*. doi:10.1080/11745398.2013.828364
- *St. John, B. M., Hladik, E., Romaniak, H. C., & Ausderau, K. K. (2018). Understanding health disparities for individuals with intellectual disability using photovoice. *Scandinavian Journal of Occupational Therapy*, 25(5), 371-381. doi:10.1080/11038128.2018.1502349

- *Walker, A., Colquitt, G., Elliott, S., Emter, M., & Li, L. (2019). Using participatory action research to examine barriers and facilitators to physical activity among rural adolescents with cerebral palsy. *Disabil Rehabil*, 1-12. doi:10.1080/09638288.2019.1611952
- Wang, C., & Burris, M. A. (1997). Photovoice: Concept, methodology, and use for participatory needs assessment. *Health Education & Behavior*, 24(3), 1997: 369-87. https://doi.org/10.1177/109019819702400309
- *Wiersma, E. C. (2011). Using Photovoice with people with early-stage Alzheimer's disease: A discussion of methodology. *Dementia*, 10(2), 203-216. doi:10.1177/1471301211398990
- *Yi-Frazier, J. P., Cochrane, K., Mitrovich, C., Pascual, M., Buscaino, E., Eaton, L., . . . Malik, F. (2015). Using Instagram as a modified application of photovoice for storytelling and sharing in adolescents with Type 1 diabetes. *Qualitative Health Research*, 25(10), 1372-1382. doi:10.1177/1049732315583282

Appendix: Recent Innovations in the Photovoice Method with People with Cognitive and Communication Disabilities, 2010-2020

This review focuses in particular on photovoice with people with cognitive disabilities and chronic conditions affecting health, self-perception, and communication abilities.

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|-------------------------|-------------------------|------------------------|-------------------------------------|---|
| Coussens/2020/ | To capture subjective | 16 children, 5–9 years | Protocol and phases: | Photo elicitation, Participation Action Research |
| PloS ONE | experiences of | old, who had | recruitment, informed consent | Safely worked with children: explored level of participation of |
| | participation | Developmental | from parent, informed assent | young children with Developmental Disabilities. Ex: Consolidated |
| | among young children | Disabilities in | from child and interview 1, in | Criteria for Reporting Qualitative Research (COREQ) were |
| | with Developmental | Belgium | depth interview 2 based on | followed |
| | Disabilities | | photographs, member check and | 47 total photos among participants. |
| | | | interview 3, data analysis. | Adapted informed consent based on a comic strip to receive |
| | | | Photos were taken by the | children's assent. "Easy to understand book format" (4). |
| | | | children when doing meaningful | Themes: playing, learning and family and friend gatherings. |
| | | | activities: "take photos or make | Included sub themes. Text interviews included. Thematic map |
| | | | movies of activities they did at | (Figure 2). |
| | | | home, in school and in their | Interviews: used "props for non-verbal demonstration of their |
| | | | community during a week" (2). | thoughts and events during the interview" (2). |
| | | | Children had 2 strategies to | Used a robust digital camera that is child friendly to provide to |
| | | | refuse—walk away or mother- | participants. |
| | | | assisted (1). | Child centered approach: "describe their pictures and were |
| | | | | prompted to reveal the thoughts and feelings the pictures |
| | | | | evoked" (2). |
| | | | | Six phases: Figure 1 |
| | | | | NVivo10 Qualitative Data Analysis Software |
| Greco/2017/ | To examine if and how | Four children | Children created life books from | Participatory research: children were co-researchers; a narrative- |
| Scandinavian Journal of | photovoice, a | with mental health | photographs and images of what | phenomenological theoretical framework of what mattered most |
| Occupational Therapy | participatory research | related disorders. | mattered to them. | to the them was assessed; the project empowered the children to |
| | method used to | Study occurred at | Nine sessions. | articulate what mattered in their everyday lives. |
| | empower and highlight | voluntary day hospital | Ethnographic methods used | Used hermeneutic circle of data analysis (Figure 1). |
| | the unique experiences | program's psychiatric | (child interviews, participant | Group Sessions and Interviews: occupational therapist facilitated |
| | of vulnerable groups, | treatment center for | observation) in classes and at | group sessions and ethnographic narrative interviews. In Session |
| | could be used as | severe behavioral | recess before, during and after | 9: children determined "whether and with whom to share the |
| | a recovery-oriented | disorders. | the weekly sessions. | content of their completed life books, including (a) to not present |
| | self-report measure for | Children attended the | Ethical approval was obtained | their book, (b) separate in-class presentations; (c) a cumulative |
| | children with a mental | program 4 days per | from Research Ethics Committee | presentation for all the students and staff; and/or (d) an exhibit at |
| | health disorder. | week, with admission | Lifebook: children each created a | a family event." (224) |
| | | lasting from 3 to 10 | life book from photos taken and | One participant showed book to her family at home and the other |
| | | months. | images selected about their | three participants presented their life book at in-class |
| | | | personal experiences; had full | presentations that they arranged with their teacher. |
| | | | control of their books; focused on | Had individual interviews and group sessions. |
| | | | activities in and outside of school | Safely worked with children with severe behavioral disorders |
| | | | (Table 2). | using in photovoice in psychiatric setting. |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|-------------------------|--------------------------|------------------------|-------------------------------------|--|
| Gustafsson/2018/ | To describe Life filming | Included 7 | Used a descriptive single case | Used life filming that supported participation, both as a process |
| Scandinavian Journal of | as a participatory | community-dwelling | study. | and an outcome. |
| Occupational Therapy | approach with older | older adults (65 | Data was generated through field | Participation was a process and an outcome. |
| | community-dwelling | years and older) | notes and memos, and analyzed | Used a single case study to show a complex process of |
| | adults regarding the | at Cultural center for | utilizing thematic analysis. | intervention in a real life context. |
| | design of their local | seniors, in | Group activity occurred. | No formal ethical approval for study- rather had continuous. |
| | environment. | Gothenburg, Sweden. | Participants validated the findings | ethics discussions in the research group and with participants |
| | | Participants lived in | and the five themes that | during implementation in order to maintain an ethical stance |
| | | the urban district | emerged. | Structure of Life filming as a group activity (table 1). |
| | | where the community | Participants used life film as a | For a list of produced films and vimeo links see (table 2). |
| | | center was located. | group activity and produced at | Films had various time (1.03 to 5.38 mins); each participant |
| | | The community center | least one film each. | produced at least one film; the moving images, music and other |
| | | recruited a group of | Participation was voluntary; | aspects of the film boosted participation and illuminated their |
| | | older persons | written consent was obtained | voice. |
| | | interested in | regarding public dissemination of | Life film outcomes: facilitated personal engagement, practical |
| | | collaborating with the | the produced films. | skills, and feelings of mastering technology; community-dwelling |
| | | Age-friendly | | older persons experienced real possibilities to influence their |
| | | Gothenburg project. | | local environment. |
| | | They were Assumed to | | Policy impact: municipality received information and opinions |
| | | be healthy older | | about the age friendliness and gained insights for improvement in |
| | | people with "good" | | the city; the municipality received confirmation that Life filming |
| | | SES conditions. | | can serve as an operative means to support participation in |
| | | | | Citizen dialog. |
| | | | | Important for strategic city planning for age-friendly |
| | | | | improvements to existing environment. |
| Ha /2016/ Global Public | To provide a means of | 9 children with Autism | Over 1 year period. | Modified photovoice and used as part of an ethnography study. |
| Health | meaningful | Spectrum Disorder | Included participant observation, | Safely working with children. |
| | participation in | (ASD) in Hanoi, | in-depth interviews with parents, | Methods in working with children: "simplified questions and |
| | research about their | Vietnam. | caregivers, and health | asking children to choose photographs and develop albums in |
| | lives, experiences, and | Many had limited | professionals, an online survey | order to engage them" (559); used caregivers in process to |
| | needs. | verbal communication | and a public exhibition. | discuss photos. |
| | To share experiences, | skills. | Recruited through a community | Networks: Hanoi Club and the parent-led school were selected for |
| | health, and well-being | | organization, The Hanoi Club of | recruitment; used these communities to access a network of |
| | of children and families | | Parents of Children with Autism | families of children with ASD. |
| | with ASD. | | and a parent-run school for | Included parents in research. Demonstrated need for |
| | | | children with ASD. | triangulation with "observations and interviews with parents and |
| | | | | others in the interpretation of the photographs" to holistically |
| | | | | understand photos (559). |
| | | | | More than 2100 photos were taken by children. |
| | | | | Product: public exhibition; reduction of social stigma. |
| | | | | Potential usage regarding ASD in education, public health, and |
| | | | | social policy. |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|--------------------------|--------------------------|--------------------------|-------------------------------------|---|
| Heffron/2018/ | To evaluate photovoice | 146 community | Utilized participatory action | Conceptual model of nine themes at microsystem, |
| Scandinavian Journal of | as a participatory | dwelling adults (30+ | research and | mesosystem, exosystem, macrosystem, and chronosystem |
| Occupational Therapy | research method, | years) who were | photovoice: Conducted | environmental levels (figure 6). Study was reviewed and |
| | examine environmental | diagnosed with | interviews and audits of | approved by the Institutional Review Board of the University of |
| | barriers and supports | I/DD and were | participation environments to | Illinois at Chicago. |
| | to community | receiving community | identify high interest | Themes included physical environment, social environment, |
| | participation, and | living supports and | participation activities and | economic environment, and community participation (Table 3). |
| | develop strategies to | services Majority had | documents. | Recruitment method: Recruitment occurred at collaborating |
| | support self- | an income of less | Participants teamed up to select, | community sites in Illinois, Washington, and New York. |
| | determination | than \$12,000 per year | contextualize, and codify the | Diverse participants. |
| | and community | and were receiving | data. Thematic analyses involved | Provided practice and policy implications: for health care |
| | participation for and | public income | both inductive and realist | providers/practitioners, and policy makers regarding advocacy, |
| | with people with I/DD. | assistance. | approaches (382) . | built environment, financial factors. |
| | To identify action plan | Participant | | Large group size (146). |
| | strategies for improving | demographics (age, | | Worked with researchers. |
| | participation choice, | gender, and | | Life approach and analysis. |
| | control, and goal | race/ethnicity) in | | |
| | attainment. | Table 1. | | |
| | | Located in cities across | | |
| | | the USA: New York, | | |
| | | Chicago. | | |
| Kriger/2019/ | To explore how | 13 participants who | Participants sculpted "someone | Used malleable methods of sculpting, life lining. |
| International Journal of | imagination is a useful | shared self identify in | who will die of non- | Focus on embodied health research. |
| Qualitative Methods | method to expand | "whichever ways were | | Methodological frameworks: "(1) embodied or tactile, (2) |
| | upon stories. | important to them" (2, | Then participants used | creative, (3) imaginative, and (4) absurd. |
| | To illustrate how | Table 1). | lifeline (tactic) where they were | Inspired by Gastaldo, Magalhaes, Carrasco, and Davy's (2012) |
| | artistic and interview | Age range: 24-60. | asked to "represent time (a past, | body mapping, Bagnoli's (2009) timelines, and Longhurst's (2000) |
| | data from Beyond the | Gender identity, | present, and future) on the | life map" (2). |
| | Present: Risk and Body | sexual orientation, | board, give their sculpture a | Inclusive: recruitment process and individuals self-identified with |
| | Stigma in Public Health | race, occupation, SES, | name or title, situate their | identities that resonated with them. |
| | project is used for | and characteristics/ | sculpture on or around their | Participants interacted with art during interview "(adding |
| | qualitative health | other identities | lifeline, and populate the lifeline | finishing touches, touching the art, pointing to it, and moving it |
| | research. | included. | with what is important to their | around to see it from various angles)" (2). |
| | | Toronto, Canada | sculpture's life." (2) | Themes of: Concrete and Reflective: Relating Objects and |
| | | | Then, semi structured interviews | Subjects; Uncertainty, Unknowledge, Perfection, and Half-Formed |
| | | | occurred regarding participant's | Ideas; Imagination, Ontological Universalism, and Shadow Live |
| | | | art, stigma, risk and health, and | Flexibility: no categorical answer, open ideas and thinking to |
| | | | method. | produce art forms. |
| | | | Sculpting and life lining occurred | |
| | | | in 3 weeks, 2-hour session at local | |
| | | | art café. 2-hour interview | |
| | | | sessions occurred. | |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|-------------------------|--------------------------|-------------------------|------------------------------------|--|
| Lorenz/2010/Visual | To explore photovoice | 8 support group | Implementation occurred | Had a trial exhibit in a comfortable environment. |
| Studies | as a method to give | member volunteers. | between Sept and Nov 2006 with | Raised idea of people doing individual photovoice projects. |
| | people with brain injury | All in 40s and 50s with | 10 meetings. Participants were | Strong focus on abstract/metaphor due to invisible nature of |
| | a voice in society; both | "recognized disability | given questions to consider about | brain injury. |
| | in their personal lives | from brain injury" who | how brain injury affected their | |
| | and with policymakers. | were already support | lives as they took photos. Each | |
| | | group members. 2 | participant was given 2-3 | |
| | | were brain tumor | disposable cameras and 3-5 | |
| | | survivors, 6 had TBI. | weeks to take pictures. | |
| | | All considered high | Participants spoke about at least | |
| | | functioning. 3 worked | one photo each meeting. 5 | |
| | | part time or did | participants continued to meet to | |
| | | volunteer work. All | work on presentation for BIA-MA | |
| | | lived in 7 communities | conference, library exhibits, | |
| | | in Massachusetts. 5 | website displays, et cetera. | |
| | | participants continued | | |
| | | through the outreach | | |
| | | phase. | | |
| Malstam/2018/ | To explore challenges | 5 participants (2 | 6 group discussions were | Questions asked: "what makes me feel good, bad in everyday life, |
| Scandinavian Journal of | and possibilities | women and 3 | facilitated over 7 weeks. | and planning and adaptations in everyday life." (360) |
| Occupational Therapy | situated in everyday | men) with auto- | Participants in the photovoice | Used the term "member" to refer to participants. Members |
| | life | immune Addison's | group reconsidered their role in | decided how many sessions, if the goals were accomplished , and |
| | | disease. | the research project, to be | the content, the format and duration. This also included ground |
| | | Participants were | an active group member versus | rules for sessions, consensus in session time, number of photos |
| | | invited and | being a participant. | taken, and logistics. |
| | | recruitment occurred | Data generated from group | Color photos shared in figures. |
| | | through purposive | sessions were visually analyzed or | Product: booklet including photographs and stories; intended for |
| | | sampling at University | transcribed and analyzed with | others with AAD, relatives, healthcare professionals, and other |
| | | Hospital. Between 40 | thematic analysis. 5 themes | stakeholders. |
| | | and 77 years old, and | emerged. | Language transcription. |
| | | had lived with AAD for | Used Swedish language, while | Small sample size (5). |
| | | 1–57 years. 3 of them | the synthesis of the quotes was | |
| | | worked (50%, 75%, | translated into English. | |
| | | and 100% time, | | |
| | | respectively), and 2 | | |
| | | had retired. All from | | |
| | | Sweden. All but one | | |
| | | had families including | | |
| | | partners and children | | |
| | | of different ages. | | |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|--------------------------|---------------------------|--------------------------|-------------------------------------|--|
| Martin /2013/ | To "describe the lived | 8 people with | Researcher conducted interviews | Continued to recruit people throughout entire project, which was |
| International Journal of | experience of those | dementia had final | to "establish the main issues/risks | very unique. They had a difficult time retaining participants |
| Environmental Research | with dementia and | prototype system | and care needs that arise during | because of the progressive nature of dementia. |
| and Public Health | their carers" and see if | installed for a three- | the hours of darkness." Themes | During interviews, two people went to participant's home to |
| | the technology-based | month evaluation at | were identified from these | "safeguard both the vulnerable participant and the researcher." |
| | NOCTURNAL system | home. They needed to | interviews that influenced | |
| | could address | have early stage | prototypes of NOCTURNAL. The | |
| | challenges that this | dementia with a | system was installed in | |
| | population faces during | "confirmed diagnosis" | participants' homes (as a PC | |
| | nighttime hours by | and be "in receipt of a | tablet). Evaluated three stages of | |
| | providing "pervasive | care package and | the prototype over three months, | |
| | ambient assisted living" | living in his or her own | with participants giving feedback | |
| | in their homes and | home, or holding | on how it worked, and also | |
| | "move beyond this to | tenure in support | looking at data such as sleep- | |
| | offer therapeutic | living." Several more | wake patterns with the system in | |
| | interventions." A | participants began but | place. Researcher also conducted | |
| | "secondary aimwas | dropped out, often | focus group with "fit healthy | |
| | achieving commerciali- | due to the progressive | older people" to get thoughts on | |
| | | nature of dementia. | prototype. | |
| | final service." | All lived in Ireland. | | |
| Newman/2010/ | To use photovoice to | 10 individuals with | Recruitment was a collaborative | Usage of WHO's International Classification of Functioning, |
| Rehabilitation Nursing | create an evidence | spinal cord injury | effort between project facilitator | Disability and Health taxonomy. Focus on environmental factors |
| | base of environmental | (SCI) located in/ | and peer counselor at the dRC. | using taxonomy. |
| | barriers and facilitators | around Charleston, | Partnership with community: | Analytical framework: Figure 1. Community Participatory: |
| | to community | South Carolina, USA. | collaborated with the disability | Advocacy to work with stakeholders; staff at dRC were |
| | participation through | Patients 18-65 years, | Resource Center (dRC) in | participants in the photovoice project. Discussion themes |
| | analysis of data based | had chronic paralysis | Northern Charleston, SC. | included questions such as "how do you define community?, |
| | on the World Health | due to SCI, level and | Photovoice documented actual | "what helps you go where you want to go and what you want to |
| | Organization's | severity of paralysis | community experiences of people | do?" and "what prevents you from going where you want to go |
| | International | requiring locomotion | with SCI. | and doing what you want to do?" |
| | Classification of | with a wheelchair, and | Three assignments and interviews | Participants also brainstormed on issues relevant to their lives for |
| | Functioning, Disability | duration of disability | occurred. Some participants only | an iterative process. Power was placed in the hands of the |
| | and Health taxonomy | longer than 1 year. | completed one assignment and | participants and gave them control over the issues that were |
| | of environmental | 40% were female, 60% | interview (ex: couldn't think of | photographed and discussed. |
| | factors | male; 50% African | anything else to photograph); | The prioritization of issues by the participants and advocacy, |
| | | American, 50% White; | one participant wanted a fourth | fostered shared power between the "traditional academic |
| | | age range: 24-61, with | interview (to discuss more). | researcher" and the community. Ex: researcher categorized |
| | | a mean age of 42.1; | Themes focused on accessibility, | themes and consulted with participants to acquire feedback. |
| | | and an average 13.9 | whether related to healthcare | Participants were allowed to keep digital cameras (that were |
| | | years of education; | services (medical appts, or | provided initially) for compensation. |
| | | _ | community access for leisure | Patients with tetraplegia were provided adaptive photo |
| | | injury was 17 years | activities). Included facilitators | equipment (ex: small tripods, support arms, cable releases). |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|---|---|--|---|---|
| | | with a range of 2-36 years. | for potential interventions and determining barriers . | Impact: evidence of issues affecting citizens with disabilities with the public and policy makers has been shared. The bill to strengthen accessible parking laws in South Carolina was passed by the South Carolina House and Senate and subsequently signed into law in June 2009. The SC Department of Motor Vehicles began issuing new parking placards and license plates for people with disabilities. |
| Overmars-Marx/2016/ Journal of Applied Research in Intellectual Disabilities | To evaluate the guided photovoice approach to analyze the effectiveness of using photovoice among people with intellectual disabilities. To obtain more knowledge about the perspectives of people with intellectual disabilities on their social inclusion in the neighborhood. | 14 participants with mild to moderate intellectual disabilities in U.S. | Participants and present authors walked around neighborhood together. Participants photographed places and people in neighborhood with the researcher. Then, photographs were discussed during an individual interview. Alternative approach of guided photovoice. Stage 1: Staff members invite all residents in criteria. Stage 2: Taking the photographs with the researcher. Stage 3:Discuss photos during individual interview to reduce bias or external influences. Use of these questions: "Could you tell me more?" and "'Can you give an (other) example? Stage 4: post interview. Do not analyze the photos outside the interview context. | Encompasses extra involvement of the researcher ex: photo walks. Evaluated photos not taken and followed up regarding specific questions ex: what "photographs not taken" and the "example" questions. Used "active listening" to encourage participant to share Person centered approach rather than group sessions ex: Use an individualized approach regarding informing and training participants. Staff members are designated as neutral party. |
| Padilla/2020/Arts Health | "To identify local interpretations of complex social and structural factors that are most salient to the well-being of local Dominican populations affected by drug addiction" (1). To describe the political and institutional structure of drug | 7 activist-artists we originally recruited in 2014 were living on the street or in "shooting galleries. 4 men and 3 women. Volunteers at FUNDOREDA and public health prevention services. Site Study: broader metropolitan area of | Used photovoice methods. Participants had regular meetings and co-learning discussions over a 1 year period. In co-learning discussions, activist artists "learned about photographic techniques, ethical procedures, captioning, policy mapping, the selection of images to create a story, and the logistics of developing an exhibit" (5). Interviewed policy experts. | Community-based participatory research methodology and applied theoretical orientation of critical medical anthropology. Adapted Photovoice with at risk population/active drug using populations. Framework of sydemic theory. Situated in prior photovoice project, Lens Project. (Proyecto Lentes); functioned as an ethnography. Group decided to select images and create interpretations for photos collectively. Fostered cohesion and support among the cohort. Ex: Referred to the group as "la familia FotoVoz. Themes: effects of medical abandonment, humanize the suffering |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|-----------------------|-------------------------|-------------------------|-----------------------------------|---|
| | policies and programs | Santo Domingo, | Included "informant interviews | addict, challenging police abuse and corruption. |
| | in the Dominican | Puerto Rico. | and participant observation at 15 | Approx. 800 pictures were taken to be used at the final exhibit. |
| | Republic. | | public and private substance use | Exhibit was shared in various locations in the DR and FL. This |
| | | | service organizations in Santo | includes the National Council for Drug Control in the DR, School of |
| | | | Domingo and Boca Chica" (5). | Public Health at the Universidad Autónoma de Santo Domingo, |
| | | | | several local high schools, in the lobby of the Sixth Latin American |
| | | | | Conference on Drug Policy, and various community organizations |
| | | | | Reciprocity: "established a donation-based food and clothing |
| | | | | bank for street-based drug users that operated out of FUNDOREDA" (5). |
| | | | | Growth opportunities: coordinated professional opportunities for |
| | | | | where artists could present research- at the Universidad |
| | | | | Autónoma de Santo Domingo and at public health conferences. |
| | | | | Some participants have sought drug rehab and others are |
| | | | | pursuing educational training. |
| | | | | Grassroots community organizing model to improve policy |
| | | | | related to drug addiction. |
| | | | | Policy focus: exhibition is a part of an educational curriculum on |
| | | | | drug policy and harm reduction; policy reform. |
| | | | | Language: captions and titles originally written in Spanish. |
| | | | | Translator into English for captions, but titles are in both |
| | | | | languages. |
| Papoulias/2018/Health | To highlight the | Equal number of men | Mixed methods. | Facilitated the Design in Mind using a participatory model via |
| Care Analysis | strengths and potential | and women. | Participants were recruitment | photo-elicitation |
| | contributions of | Number of | from two of the inner city acute | Emphasis for reflexive approach. |
| | participatory visual | participants | wards. | Limitations: time and budgeting constraints as well as ethical and |
| | methods for healthcare | unknown. | "Researcher accompanied them | clinical considerations. |
| | quality improvement | Located in acute | across the ward and recorded the | Functioned within the mental health ward, needed to navigate |
| | research. | psychiatric wards in an | reasons they gave for their | ethical considerations, and ensure confidentiality. |
| | To explore how the | inner-city | choices" (183). | 70 photos were produced: majority positive photos. |
| | patient experience can | environment; in- | Participants were instructed to | Provided insight about improvements for ward and quality of life |
| | generate knowledge in | patients. | take photos "one of something | in mental health unit. |
| | health systems. | | they liked and one of something | Quant analysis: gender analysis of frequency of themes extracted |
| | Design in Mind: "to | | they did not like about the | and photos accessed (ex: men were 3X more likely to take photos |
| | elicit mental health | | ward." (183). | of their bedrooms) (183). |
| | service user | | Participants were subsequently | |
| | perspectives of the | | interviewed individually. | |
| | design and physical | | | |
| | environment" (181). | | | |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|-----------------------|---------------------------|--------------------------|----------------------------------|---|
| Povee/2014/Disability | To explore the process, | 18 individuals (11 | Used photovoice | Project creation: "This is Me" to explore social roles and identities |
| and Society | opportunities and | male and 7 female), | Questions: "Who am I?", "What | of people with intellectual disabilities living in the community |
| | challenges associated | aged 20–45 years. | makes me me?" and "What is | Adhered to the six stages of photovoice identified by Booth and |
| | with the use of | Included Members of | important to me?" Members | Booth (2003). |
| | photovoice with people | an Advocacy Agency | were given no direction as to | Community engagement: researcher was well known to the |
| | with intellectual | that supports people | what to photograph, as per the | Members of the Agency and was involved with the community |
| | disabilities, illustrated | with an intellectual | photovoice philosophy. | before research started. |
| | through a research | disability living in the | Photograph period was 3 months: | Consent: information sheet and consent form that utilized simple |
| | | SW region of Western | the number of photographs taken | language, pictures, bullet points and the repetition of |
| | Me'. | Australia. | by each member ranged from 2 | information. |
| | | 13 chose to be | to 83 photographs, with an | Participants were identified as co-researchers. |
| | | interviewed in pairs or | average of 37 photographs taken | Interview Discussion: "Members that were not verbal pointed |
| | | small groups; 5 | by each member. | at photographs and used facial expressions and gestures to |
| | | requested for | Contextualized photos via the | convey their story" (899). |
| | | parent or guardian to | following questions: "What made | Impact: photograph exhibition. Members selected their own |
| | | be present). | you take this photograph; and | photographs for display. Public photograph exhibition was held at |
| | | | What is happening in this | a local shopping center, with Members involved in setting up and |
| | | | photograph? | manning the display. |
| | | | The interviews were flexible and | Local stakeholders such as community development officer and |
| | | | akin to a conversation" (899). | representatives of disability agencies attended the photograph |
| | | | Interviewed: 10 members | exhibition. |
| | | | interviewed once, 3 members | Research ownership: "research topic must be owned by people |
| | | | interviewed twice and 3 | with intellectual disabilities (Walmsley and Johnson 2003)" (897). |
| | | | interviewed three times and 1 | Challenge: addressed the uncertainty and for having researchers |
| | | | member interviewed four times. | share control in the research process. |
| Ripat/2019/Disability | "To explore how the | 22 adults using | "Completed individual interviews | Used social constructionism as described by Burr. |
| and Rehabilitation: | | assistive technology. | before and after engaging in a | 3 themes emerged from analysis and 1 theme emerged from |
| Assistive Technology | influences the | Young adults ages 17– | photovoice process. | focus group discussions. |
| | participation | 35 years) who had | 10 of the participants then took | -3: (a) seen and treated as different; (b) assumptions made and |
| | experiences of young | used AT (e.g., | part in a focus group. Data were | (c) impatience. |
| | adults with disabilities | wheelchair, | analyzed inductively using a | - 1: photos as a means of consciousness-raising. |
| | who use assistive | communication device | thematic analysis approach" | Project promoted consciousness-raising. |
| | technology" (314). | or prosthetic device) | (314). | "Custom adaptions were made to each camera as needed in |
| | | since childhood or | | consultation with the participant, to ensure participants were |
| | | young adolescence. | | able to independently take photos, for e.g., with switch |
| | | Participant | | adaptations or providing mounting devices for the participant's |
| | | demographics (Table | | wheelchair and participants were allowed to keep their adapted |
| | | 1) | | camera at the study conclusion" (315). |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|------------------------|--------------------------|-------------------------|------------------------------------|--|
| Routhier/2019/JMIR | "To understand the | "36 participants per | Mixed methods: | Activity diaries method: Used iPad (supplied) for activity diary |
| Research Protocol | places people using | site who represented | Research questions and methods | app. Participants described places visited, activities and mode of |
| | MAT go and the things | six types of MAT users | (Table 1) + outcome measures | transportation used, and if they were accompanied by others. |
| | they do, to identify | (ie, cane, walker, | (3). | Support: participants were given troubleshooting document for |
| | perceived barriers and | crutches, manual | Photovoice and GPS methods | devices and contact information of research assistant to help with |
| | facilitators as well as | wheelchair, power | were concurrent. Diary occurred | technology and app. |
| | users' desired | wheelchair, and | simultaneously. | Research assistants answered any questions regarding equipment |
| | environmental | scooter)." (1). These | Participants had option of | and process, conducted interviews, analyzed data, contacted |
| | modifications, and to | participants | GPS tracking. | participants to check in after 1 week, served as point of contact |
| | understand subjective | completed the | Then 20 min qualitative semi- | Caption either written by participants or researchers- if consent |
| | and objective issues | Photovoice | structured interviews were | provided and participants prefer. Researchers identified potential |
| | related to | procedure. | conducted about main MAT and | images of interest. |
| | environmental | 24 participants were | other MATs used. | Photo consent form given to participants to share with individual |
| | accessibility." (1) | recruited to each | Photovoice addressed objectives | in their photos. |
| | | study site for SWAN | 2 and 3. Participants completed | Partnership with municipalities and community members. |
| | | data collection (1). | training session, on how to | Quantitative methods about outcome measures and recruitment |
| | | Conducted in | operate camera feature of app, | stats (Table 2). |
| | | Vancouver and | ethical photo etiquette, video | Measures: Measure of Environmental Accessibility (MEA) |
| | | Quebec City, Canada. | release form. Given consent form | "Stakeholders' Walkability/Wheelability Audit |
| | | | to obtain consent from | in Neighbourhood (SWAN). |
| | | | individuals in photos. Then, for | Outcome: 19 locations have been identified by the participants |
| | | | the next 2 weeks (may have been | and evaluated in the Quebec City by MEA; 20 locations have been |
| | | | concurrent with GPS data | identified participants in the Vancouver region. |
| | | | collection) photos or videos were | Policy outcome: "improvements to MAT design; provision and |
| | | | taken. Participants used Apple | training in MAT use; or the development of policies, regulations, |
| | | | iPad mini. Then, there was an | actions, or services to improve the mobility of individuals with |
| | | | individual photovoice interview. | disabilities" (2). |
| | | | Participants selected a max of 10 | Product: photo exhibition – increase public awareness. |
| | | | images. Focus groups were held. | Stakeholders attended and listened to stories regarding photos. |
| | | | Varied at each site. Questions | This exhibition will be at local, community centers, or other public |
| | | | asked in Table 1 such as themes, | venue. Participants assisted with photo exhibition planning |
| | | | improvements, suggestions | process. |
| | | | collected (4-5). | |
| Schleien /2013/ Annals | To give individuals with | Seven individuals with | All participants needed assistants | Interesting point that often communities for people with |
| of Leisure Research | intellectual and | ID/DD were chosen | to help with photo taking; the | disabilities are limited to family, paid staff, and others with |
| | developmental | from a local south- | roles between photographers | disability. |
| | disabilities (ID/DD) a | eastern chapter of the | and assistants were clearly | Funded by Office of Special Education Programs, Office of Special |
| | voice to speak about | Arc, an organization | delineated. There was training on | Education and Rehabilitative Services, US Department of |
| | community inclusion | meant to promote | photography ethics. Participants | Education. |
| | and to "instigate | inclusion of those with | were assigned to take 2 weeks | Provided with "pocket-sized photo-release booklet" with "brief |
| | changeby sharing | ID/DD. Participants all | and no more than 30 photos to | written explanation of the projectand a space to obtain |
| | these voices." Also to | had good verbal | show what was important to | signatures from individuals" photographed. |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|-------------------------|-------------------------|--------------------------|------------------------------------|---|
| | "narrow the gap | communication and | them. Following assignments | In addition to main display, also had individual's boards with |
| | between how others | understood the | asked about what made them | more photos and a "My Story" photo-book. |
| | see [these individuals] | consent process, with | feel important and what their | Participants stood by displays so attendees could ask questions. |
| | and how they see | mild to moderate ID. | skills were. All assignments had | Provided exit survey from exhibition. |
| | themselves." | The participants were | supplemental worksheets. The | |
| | | ages 48, 34, 35, 21, 38, | researcher reviewed photos with | |
| | | 32, and 26. Five had | each participant and formed | |
| | | ID, two had Down | primary themes, which | |
| | | syndrome. Five had | participants later confirmed or | |
| | | jobs, one was a | corrected. Photos were displayed | |
| | | student, and one was | in two exhibitions; a pilot one at | |
| | | unknown. Six lived | the Arc, and one in the Chamber | |
| | | with their parents and | of Commerce. | |
| | | one lived in a college | | |
| | | dormitory. | | |
| St. John /2018/ | To describe the process | 2 participants were | Consisted of camera orientation | Participants were recruited through the distribution of flyers |
| Scandinavian Journal of | of using a photovoice | recruited as a part of a | and training session; 2-4 photo | contacting community agencies and service providers. |
| Occupational Therapy | method with | larger Photovoice | collection sessions; an individual | Small and focused sample size. |
| | individuals with ID and | study in U.S. | interview and photo captioning | Photovoice adaptations: Used Jurowski model as |
| | present results from | Anne: 36- year-old | session; and, collective photo | framework. Data collection for this study was adapted from the |
| | two participants to | white female, college | sharing and focus group with at | Photovoice structure outlined by Plunkett, Leipert, and Ray |
| | understand their | graduate, employed | least 1 fellow participant. | Guiding questions (Table 1). |
| | meaning of health. | part time. Jack: 32- | Participants completed a total of | Visual Representation of participant narrative data (Figure 1) |
| | | year-old male, did not | 5-7 sessions across the 4 stages | Did not include caregivers in this study. |
| | | disclose his race or | of photovoice data collection. | Research partner (graduate student) was required to be present |
| | | ethnicity. He had | Used photos, personal narratives | for all sessions and for all stages of data collection, affirming |
| | | completed some | and focus group data to identify | consent, and managing photo equipment. |
| | | college courses. Was | themes of Personal Identity of | Research partners needed to build trust. Additional assistance |
| | | employed part time at | Health, Nutrition, and Meaningful | provided as needed ex: tech assistance, probed question when |
| | | a grocery store | Occupation. | needed during session – case by case. |
| | | Both Anne and Jack | | |
| | | lived in supported | | |
| | | living apartments and | | |
| | | received services from | | |
| | | paid caregivers. | | |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|------------------------|--------------------------|-------------------------|------------------------------------|--|
| Wiersma/2011/ | To understand how | Four participants (3 | Questions around the image | Pilot project |
| Dementia | photovoice could be | men and 1 woman) in | were posed, such as 'What is this | Terminology: changed nomenclature based upon facilitators of |
| | used as a methodology | the early stages of | picture about?' 'Tell me about | the group recommendations |
| | with this group, and to | Alzheimer's disease, in | the significance of this picture.' | Ethical brochure for recruitment based upon Wang and Redwood- |
| | examine the benefits | the U.S. | 'Why did you include this | Jones (2001) |
| | and challenges of using | | picture?' | Involve the caretakers in all stages of the research ex: taking |
| | photovoice with people | | Background information | photos, obtaining consent and matching the consent forms with |
| | with Alzheimer's. | | about lived experience with | photos |
| | | | diagnosis/disease. | Explored challenges such as validating qualitative research in |
| | | | Participants choose 8-10 pictures | discourse. Focused on the importance of creative analytic |
| | | | that were important to them. | practices |
| | | | Questions asked: around the | Issues with data collection: ethics, consent and capacity |
| | | | image were posed, such as 'What | Used dyadic approach. Had thank-you session instead of a focus |
| | | | is this picture about?' 'Tell me | group related to issues of consent because of issue with inclusion |
| | | | about the significance of this | of caregivers. Thank-you session, including participants seeing |
| | | | picture.' 'Why did you include | photos taken with caregivers. |
| | | | this picture?' | Outcome: participants given a copy of photos to keep after; had a |
| | | | Focus group with all participants | thank-you session instead of a focus group related to issues of |
| | | | for feedback and discussion was | consent. Product: TBD, visual and textual form with purpose to |
| | | | not held due to ethical issues. | "humanizing face to Alzheimer's disease and to present the |
| | | | | human face (and life)" (214). |
| Walker/2019/Disability | "To use a qualitative, | 15 participants | Used 9 step methods for | Used the SHOWed method. |
| and Rehabilitation | community-based | including adolescents | photovoice (Table 1). | Clearly described photovoice methods using Table 1, per Wang |
| | participatory action | with CP (n= 7) and | Completed versions of the | and Burris, 1997 (reference 44). |
| | research method – | parents (n = 8) *one | Barriers to Physical Activity. | Quant analysis: questionnaire (Table 2 and 3). |
| | photovoice – to identify | family chose only to | Questionnaire for People with | Used textual evidence from interview in thematic analysis. |
| | perceived facilitators | have a parent | Mobility Impairments (focus on | Included color photos- Figure 1-6). |
| | and barriers to physical | participate. | barriers and facilitators). | Safely worked with children. Tablets with camera were provided |
| | activity among | All parent participants | Had training session. Provided 2 | for photo taking to enhance functionality for children. Parents |
| | adolescents with | were female. | weeks to take photos; after in- | and children were participants and interviewed |
| | cerebral palsy (CP) in a | All children | depth and focus group interviews | separately. Researchers provided minimum number of photos to |
| | rural community" (2). | communicated | with participants. Research | take (8 photos). Collectively took 81 photos. |
| | | verbally or with an | questions (pg 3). Tablets with | Proposed action items: accessibility, opportunities for |
| | | assisted device. | digital camera provided. | involvement and engaging the community. Targeted plan and |
| | | Located in rural, | | stakeholders needed (Table 4). |
| | | southeast Georgia. | | Facilitated a community forum – present photos and |
| | | | | recommended actions to 13 influential stakeholders; held on |
| | | | | campus at the researchers' home institution. Forum focused on |
| | | | | themes of accessibility and awareness. |

| Author/yr/jrnl | Focus/why | Participants | What did they do | Considerations/interesting/ surprising |
|--------------------|------------------------|-------------------------|-----------------------------------|--|
| Yi-Frazier /2017/ | To explore the | 20 adolescents (14 to | Participants used Instagram to | Use of hashtags: using #diabetesteenproject developed. |
| Qualitative Health | feasibility of using a | 18 years old) in the US | post any diabetes-related photo | Demonstrated the impact evaluation related to sharing content |
| Research | photo-sharing mobile | with type 1 diabetes | for 3 weeks. | on public platform for Instagram (ex: number of quantitative |
| | phone app Instagram to | for 6 months or | Individual interviews and a focus | impact and value of interest). |
| | accomplish the | longer, English- | group were also offered, and | Collection of public photos resulting from this project to be |
| | principles of | speaking, with | recruitment and retention | maintained; the number of hashtags and amount |
| | photovoice. | personal access to | statistics were tracked. | searched/tracked was recorded. |
| | To assess the rates of | Instagram on an | Researchers examined and | Shared photos and thematic approaches (that were categorized |
| | recruitment and | Android. Patients with | categorized the type of diabetes- | by staff) included humor, diabetes care, food, exercise/sports, life |
| | retention and | upcoming clinic | related photos shared. | with diabetes, type 1 vs type 2, talking with others who don't |
| | satisfaction for using | appointments at a | | have diabetes. |
| | Instagram related to | large tertiary care | | |
| | diabetes topics | hospital. | | |