

Unpacking Community Participation in Research: A Systematic Literature Review of Community-based and Participatory Research in Alaska

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SEARCH MATRIX

The following search matrix was used to identify literature to be used in the systematic literature review:

Community-based participatory research OR cbpr OR participatory research OR community-based OR participatory action research OR action research OR participatory evaluation OR collaborative inquiry OR action science OR empowerment evaluation OR community involvement OR knowledge co-production

AND

Anchorage OR Angoon OR Barrow OR Bethel OR Bristol Bay OR Chugach OR Chukchi OR Cook Inlet OR Cordova OR Denali OR Dillingham OR Fairbanks OR Haines OR Hoonah OR Juneau OR Kenai OR Ketchikan OR King Salmon OR Kodiak OR Koniag OR Kotzebue OR Koyukuk OR Kusilvak OR Lake and Peninsula OR Matanuska OR Naknek OR Nome OR North Slope Borough OR Northwest Arctic Borough OR Palmer OR Peterburg OR Sandpoint OR Skagway OR Sitka OR Soldotna OR Unalaska OR Utqiagvik OR Valdez OR Wade Hapton OR Wrangell OR Yakutat OR Yukon

AND

Alaska

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TABLE S1: Evaluation rubric used to extract information from papers, including a brief justification.

| Section/Topic | Subcategories | Rationale |
|----------------------------|---|---|
| Administrative information | Title | |
| | Year published Journal / source Institution(s) Lead author Funding | A key constraint to conducting thorough CBPR is funding (Minkler et al., 2003) so it would be important to see who funds CBPR and whether certain funders lead to better quality CBPR. |
| | Supplementary materials provided? | It is recognised that stringent word counts for journals may result in non-reporting for some of the categories. However, an increasing number of journals allow supplementary materials to be included. Therefore, where there is non-reporting for indicators, despite supplementary materials being included, this could indicate non-reporting as a result of not being transparent about the research process. |
| Rationale | Key challenges addressed Who identified the challenge? | To understand the purpose of the work, the problem to be addressed and, where possible, whether this is a problem identified by local people or by outsiders. |
| Study site(s) | Rural / urban Indigenous / settler Multi-sited | To characterise where CBPR is most used in Alaska. |
| Positionality | Stated? Comments | Issues of positionality and reflexivity are important in CBPR to ensure transparency in the research process, particularly as this sort of work relies heavily on the premise that all knowledge is situated. It is therefore good practice for authors of CBPR to state their positionality in their research. This will be especially important where PAR is concerned. |
| | Obstacles reported | Obstacles often go unreported in CBPR due to overemphasis of success stories (Ford et al., 2015). This leads to unrealistic expectations for younger researchers and fails to communicate the complexity of the challenges. |
| Definition of community | Provided? | Given the broad definitions of the term “community,” it is important to understand how each publication defines it, if at all. |
| | Critical consideration around the concept of community | To establish whether any of the key debates around the nature of a community are considered in community-based research. This includes whether communities are considered to conflict-ridden or cohesive, and also the role of exogenous forces on the nature of community (Barrett, 2015). |
| | Critical consideration of participants | To better understand the considerations researchers made when selecting participants, with a particular focus on how they represent the ‘community’ and on issues of power. |
| | Consideration of who was excluded | Just as it is important to critically consider who is being included in research, it is important to consider who is excluded. Hitomi and Loring (2018) found there to be a tendency to exclude the voices of women and youth in the Arctic when it came to researching local traditional knowledge. |
| Participation | Who participated? | To better understand the characteristics of those who participated in the research. Previous work by Hitomi and Loring (2018) found that climate change research about local and traditional knowledge in Arctic indigenous communities favoured Elders and men as participants. It would be interesting to see whether this applies to Alaska both within and beyond the field of climate change. |
| | Participation in design Participation in data collection Participation in analysis Participation in evaluation Participation in results dissemination | To determine whether local people participated throughout the entire research process or only specific parts. This is important, as participatory research often claims to involve participants at each stage of the research (Tobias et al., 2013). Who participated at each stage, and the nature of participation will also be recorded. |

EVALUATION RUBRIC

TABLE S2: List of articles included in the review.

| Author(s) | Date | Title | Journal |
|--|------|---|---|
| Allen, J., Mohatt, G., Fok, C.C.T., Henry, D., and People Awakening Team | 2009 | Suicide prevention as a community development process: Understanding circumpolar youth suicide prevention through community level outcomes. | International Journal of Circumpolar Health |
| Allen, J., Mohatt, G.V., Rasmus, S.M., Hazel, K.L., Thomas, L., and Lindley, S. | 2010 | The tools to understand: Community as co-researcher on culture-specific protective factors for Alaska Natives. | Journal of Prevention and Intervention in the Community |
| Allen, J., Mohatt, G.V., Fok, C.C.T., Henry, D., Burkett, R., and People Awakening Team | 2014 | A protective factors model for alcohol abuse and suicide prevention among Alaska Native youth. | American Journal of Community Psychology |
| Allen, J., Rasmus, S.M., Fok, C.C.T., Charles, B., Henry, D., and People Awakening Team | 2018 | Multi-level cultural intervention for the prevention of suicide and alcohol use risk with Alaska Native youth: A nonrandomized comparison of treatment intensity. | Prevention Science |
| Arundale, W and Jones, E. | 1989 | Historic land use processes in Alaska's Koyukuk river area. | Arctic |
| Avey, J.P., Hiratsuka, V.Y., Beans, J.A., Trinidad, S.B., Tyndale, R.F., and Robinson, R.F. | 2016 | Perceptions of pharmacogenetic research to guide tobacco cessation by patients, providers and leaders in a tribal healthcare setting. | Pharmacogenomics |
| Berardi, G. | 1998 | Application of participatory rural appraisal in Alaska. | Human Organization |
| Berardi, G., and Donnelly, S. | 1999 | Rural participatory research in Alaska: The case of Tanakon village. | Journal of Rural Studies |
| Boyer, B.B., Mohatt, G.V., Lardon, C., Plaetke, R., Luick, B.R., Hutehison, S.H., Antunez de Mayolo, G., Ruppert, E., and Bersamin, A. | 2005 | Building a community-based participatory research center to investigate obesity and diabetes in Alaska Natives. | International Journal of Circumpolar Health |
| Boyer, B.B., Mohatt, G.V., Pasker, R.L., Drew, E.M., and McGlone, K.K. | 2007 | Sharing results from complex disease genetics studies: A community based participatory research approach. | International Journal of Circumpolar Health |
| Brewer II, J.P., Vandever, S., and Johnson, J.T. | 2018 | Towards energy sovereignty: Biomass as sustainability in interior Alaska. | Sustainability Science |
| Brinkman, T.J., Hansen, W.D., Chapin, F.S., Kofinas, G., BurnSilver, S., and Rupp, T.S. | 2016 | Arctic communities perceive climate impacts on access as a critical challenge to availability of subsistence resources. | Climatic Change |
| Brinkman, T., Maraete, K.T.B., Kelly, J., Vandyke, M., Firmin, A., and Springsteen, A. | 2014 | Impact of fuel costs on high-latitude subsistence activities. | Ecology and Society |
| Bronen, R. | 2018 | Community-based adaptation: Alaska Native communities design a relocation process to protect their human rights. | Resilience |
| Brown, G.G., and Donovan, S. | 2013 | Escaping the national forest planning quagmire: Using public participation GIS to assess acceptable national forest use. | Journal of Forestry |
| Brubaker, M.Y., Bell, J.N., Berner, J.E., and Warren, J.A., | 2011 | Climate change health assessment: A novel approach for Alaska Native communities. | International Journal of Circumpolar Health |
| Burger, J., Gochfeld, M., and Pletnikoff, K. | 2009 | Collaboration versus communication: The department of energy's Amchitka Island and the Aleut community. | Environmental Research |
| Caringi, J.C., Klika, B., Zimmerman, M., Trautman, A., and van den Pol, R. | 2013 | Promoting youth voice in Indian country. | Children and Youth Services Review |

TABLE S2: List of articles included in the review – *continued*.

| Author (s) | Date | Title | Journal |
|--|------|---|---|
| Carpluk, L., and Leonard, B. | 2016 | Engaging Indigenous communities in higher education: An analysis of collaboration and ownership in Alaska Native teacher preparation. | Engaged Scholar Journal: Community-Engaged Research, Teaching, and Learning |
| Carter, B.T., and Nielsen, E.A. | 2011 | Exploring ecological changes in Cook Inlet beluga whale habitat though traditional and local ecological knowledge of contributing factors for population decline. | Marine Policy |
| Chan, M.N., Beaudreau, A.H., and Loring, P.A. | 2017 | Evaluating patterns and drivers of spatial change in the recreational guided fishing sector in Alaska. | PLoS One |
| Cueva, K., Cueva, M., Revels, L., Lanier, A.P., Dignan, M., Viswanath, K., Fung, T.T., and Geller, A.C. | 2019 | A Framework for culturally relevant online learning: Lessons from Alaska's tribal health workers. | Journal of Cancer Education |
| Cueva, K., Shimer, S., Kent, D., Geller, A.C., Viswanath, K., and Fung, T.T. | 2017 | Strengths and challenges of the Alaska WIC breastfeeding peer counselor program: A qualitative study of program implementation. | Journal of Nutrition Education |
| Cueva, K., Cueva, M., Revels, L., and Dignan, M. | 2018 | Culturally-relevant online education improves health workers' capacity and intent to address cancer. | Journal of Community Health |
| Cusack-McVeigh, H. | 2016 | Learning to listen: Community collaboration in an Alaska Native village. | Collaborative Anthropologies |
| Driscoll, D., Mitchell, E., Barker, R., Johnston, J., and Renes, S. | 2016 | Assessing the health effects of climate change in Alaska with community-based surveillance. | Climatic Change |
| Driscoll, D., Sunbury, T., Johnston, J., and Renes, S. | 2013 | Initial findings from the implementation of a community-based sentinel surveillance system to assess the health effects of climate change in Alaska. | International Journal of Circumpolar Health |
| Druckenmiller, M., Eicken, H., George, J.C., Brower, L. | 2013 | Trails to the whale: Reflections of change and choice on an Inupiat icescape at Barrow, Alaska. | Polar Geography |
| Ebbesson, S.O.E., Laston, S., Wenger, C., Dyke, B., Romensko, T., Swenson, M., Fabsitz, R., MacCluer, J., Devereux, R., Roman, M., Robbins, D., and Howard, B. | 2006 | Recruitment and community interactions in the GOCADAN study. | International Journal of Circumpolar Health |
| Eisner, W., Jelacic, J., Cuomo, C., Kim, C., Hinkel, K., and Del Alba, D. | 2012 | Producing an indigenous knowledge web GIS for Arctic Alaska communities: Challenges, successes, and lessons learned. | Transactions in GIS |
| Fienup-Riordan, A. | 1999 | Collaboration on Display: A Yup'ik Eskimo exhibit at three national museums. | American Anthropologist |
| Flint, C., Robinson, E., Kellogg, J., Ferguson, G., Boufajeldin, L., Dolan, M., Raskin, I., and Lila, M. | 2011 | Promoting wellness in Alaskan villages: Integrating traditional knowledge and science of wild berries. | EcoHealth |
| Ford, T., Rasmus, S., and Allen, J. | 2012 | Being useful: Achieving Indigenous youth involvement in a community-based participatory research project in Alaska. | International Journal of Circumpolar Health |
| Gadamus, L., and Raymond-Yakoubian, J. | 2015 | A Bering Strait Indigenous framework for resource management: Respectful seal and walrus hunting. | Arctic Anthropology |
| Gadamus, L. | 2013 | Linkages between human health and ocean health: A participatory climate change vulnerability assessment for marine mammal harvesters. | International Journal of Circumpolar Health |
| Gadamus, L., and Raymond-Yakoubian, J. | 2015 | Qualitative participatory mapping of seal and walrus harvest and habitat areas: Documenting Indigenous knowledge, preserving local values, and discouraging map misuse. | International Journal of Applied Geospatial Research |
| Gonzalez, J., and Trickett, E. | 2014 | Collaborative measurement development as a tool in CBPR: Measurement development and adaptation within the cultures of communities. | American Journal of Community Psychology |

TABLE S2: List of articles included in the review – *continued*.

| Author(s) | Date | Title | Journal |
|--|------|--|--|
| Gorokhovitch, Y., Leiserwitz, A., and Durgan, D. | 2013 | Integrating coastal vulnerability and community-based subsistence resource mapping in Northwest Alaska. | Journal of Coastal Research |
| Gram-Hanssen, I. | 2017 | Leaving, staying or belonging: Exploring the relationship between formal education, youth mobility and community resilience in rural Alaska. | Polar Geography |
| Green, C. | 2017 | Children environmental identity development in an Alaska Native rural context. | International Journal of Early Childhood |
| Henderson, T., Dinh, M., Morgan, K., and Lewis, J. | 2015 | Alaska Native grandparents rearing grandchildren: A rural community story. | Journal of Family Issues |
| Henry, D., Allen, J., Ching Ting Fok, C., Rasmus, S., Charles, B., and the PA Team | 2012 | Patterns of protective factors in an intervention for the prevention of suicide and alcohol abuse with Yup'ik Alaska Native youth. | The American Journal of Drug and Alcohol Abuse |
| Hillmer-Pegram, K. | 2016 | Integrating Indigenous values with capitalism through tourism: Alaskan experiences and outstanding issues. | Journal of Sustainable Tourism |
| Hiratsuka, V., Brown, J., and Dillard, D. | 2012 | Views of Biobanking Research Among Alaska Native People: The Role of community context, | Progress in Community Health |
| Hugo, R., Smythe, W., McAllister, S., Young, B., Maring, B., and Baptista, A. | 2013 | Lessons learned from a geoscience education program in an Alaska Native community. | Journal of Sustainability Education |
| Jones, C., Kielland, K., Hinzman, L., and Schneider, W. | 2015 | Integrating local knowledge and science: economic consequences of driftwood harvest in a changing climate. | Ecology and Society |
| Lardon, C., Soule, S., Kernak, D., and Lupie, H. | 2011 | Using strategic planning and organizational development principles for health promotion in an Alaska Native community. | Journal of Prevention & Intervention in the Community |
| Legaspi, A., and Orr, E. | 2007 | Disseminating research on community health and well-being: A collaboration between Alaska Native villages and the academe. | American Indian and Alaska Native Mental Health Research |
| Leonard, B., and Gilmore, P. | 1999 | Language revitalization and identity in social context: A community-based Athabaskan language preservation project in western interior Alaska. | Anthropology Education Quarterly |
| Lewis, J., Boyd, K., Rasmus, S., and Henderson, T. | 2018 | "We raise our grandchildren as our own." Alaska Native grandparents raising grandchildren in southwest Alaska. | Journal of Cross-Cultural Gerontology |
| Lewis, J. | 2014 | The role of the social engagement in the definition of successful ageing among Alaska Native elders in Bristol Bay, Alaska | Psychology and Developing Societies |
| Lipka, J. | 1989 | A cautionary role of curriculum development in Yup'ik Eskimo communities. | Anthropology & Education Quarterly |
| Lopez, E., Sharma, D.K., Mekiana, D., and Citibor, A. | 2012 | Forging a new legacy of trust in research with Alaska Native college students using CBPR. | International Journal of Circumpolar Health |
| Lynch, A., Curry, J., Brunner, R., and Maslanik, J. | 2004 | Toward an integrated assessment of the impacts of extreme wind events on Barrow, Alaska. | American Meteorological Society |
| McNeeley, S., and Shulski, M. | 2011 | Anatomy of a closing window: Vulnerability to changing seasonality in interior Alaska. | Global Environmental Change |
| McNeeley, S. | 2012 | Examining barriers and opportunities for sustainable adaptation to climate change in interior Alaska. | Climatic Change |

TABLE S2: List of articles included in the review – *continued*.

| Authors(s) | Date | Title | Journal |
|---|-------|---|--|
| Miller, P.K., Waghiyi, V., Welfinger-Smith, G., Byrne, S.C., Kava, J., Gologergen, J., Eckstein, L., Serudato, R., Chiarenzelli, J., Carpenter, D.O., and Seguinot-Medina, S. | 2013 | Community-based participatory research projects and policy engagement to protect environmental health on St Lawrence Island, Alaska. | International Journal of Circumpolar Health |
| Mohatt, G. V., Fok, C. C. T., Henry, D., The People Awakening Team., and Allen, J. | 2014 | Feasibility of a community intervention for the prevention of suicide and alcohol abuse with Yup'ik Alaska Native Youth: The Elluam Tunginun and Yup'icimta Asvairtuumallerkaa studies. | American Journal of Community Psychology |
| Mohatt, G. V., Rasmus, S. M., Thomas, L., Allen, J., Hazel, K., and Marlatt, G. A. | 2008 | Risk, resilience, and natural recovery: a model of recovery from alcohol abuse for Alaska Natives. | Addiction |
| Mohatt, G. V., Hazel, K. L., Allen, J., Stachelrodt, M., Hensel, C., and Path, R. | 2004 | Unheard Alaska: Culturally anchored participatory action research on sobriety with Alaska Natives. | American Journal of Community Psychology |
| Mohatt, G.V., Plaetke, R., Klejka, J., Luick, B., Lardon, C., Bersamin, A., Hopkins, S., Dondanville, M., Herron, J., and Boyer, B., | 2007 | The center for Alaska Native health research study: A community-based participatory research study of obesity and chronic disease-related protective and risk factors. | International Journal of Circumpolar Health |
| Natcher, D. | 2004 | Implications of fire policy on Native land use in the Yukon Flats, Alaska. | Human Ecology |
| Nu, J., and Bersamin, A. | 2016 | Collaborating with Alaska Native communities to design a cultural food intervention to address nutrition transition. | Progress in Community Health Partnerships: Research, Education, and Action |
| Patten, C.A., Lando, H., Resnicow, K., Decker, P.A., Smith, C.M., Hanza, M.M., Burhansstipanov, L., and Scott, M. | 2018 | Developing health communication messaging for a social marketing campaign to reduce tobacco use in pregnancy among Alaska native women. | Journal of Communication in Healthcare |
| Patten, C.A. | 2012 | Tobacco cessation intervention during pregnancy among Alaska Native women. | Journal of Cancer Education |
| Picou, S. | 2009 | Disaster recovery as translational applied sociology: Transforming chronic community distress. | Humboldt Journal of Social Relations |
| Picou, S. | 2000 | The “talking circle” as sociological practice: Cultural transformation of chronic disaster impacts. | Sociological Practice |
| Rasmus, S., Allen, J., and Ford, T. | 2014a | “Where I have to learn the ways how to live: “Youth resilience in a Yup'ik village in Alaska. | Transcultural Psychiatry |
| Rasmus, S., Charles, B., and Mohatt, G.V. | 2014b | Creating Qungasvik (A Yup'ik Intervention “toolbox”): Case examples from a community-developed and culturally-driven intervention. | American Journal of Community Psychology |
| Redwood, D., Lanier, A., Kemberling, M., Klejka, J., Sylvester, I., and Lundgren, K., | 2010 | Community-based participatory research in a large cohort study of chronic diseases among Alaska Native adults. | Progress in Community Health Partnerships: Research, Education, and Action |
| Rivkin, I.D., Lopez, E., Quaintance, T.M., Trimble, J., Hopkins, S., Fleming, C., Orr, E., and Mohatt, G.V. | 2010 | Value of community partnership for understanding stress and coping in rural Yup'ik communities: The CANHR study. | The Journal of Health Disparities Research and Practice |
| Rivkin, I.D., Trimble, J., Lopez, E. D., Johnson, S., Orr, E., and Allen, J. | 2013 | Disseminating research in rural Yup'ik communities: challenges and ethical considerations in moving from discovery to intervention development. | International Journal of Circumpolar Health |
| Rivkin, I.D., Johnson, S., Lopez, E., Trimble, J., Quaintance, T., and Orr, E. | 2016 | Yup'ik understanding of stress within the context of rapid cultural change. | Journal of Community Psychiatry |

TABLE S2: List of articles included in the review – *continued*.

| Author(s) | Date | Title | Journal |
|---|------|--|--|
| Sakakibara, C. | 2016 | People of the whales: Climate change and cultural resilience among Inupiat of Arctic Alaska. | Geographical Review |
| Sharma, K., Lopez, E. D., Mekiana, D., Cibor, A., and Church, C. | 2013 | “What makes life good?” Developing a culturally grounded quality of life measure for Alaska Native college students. | International Journal of Circumpolar Health |
| Sigman, M., Dublin, R., Anderson, A., Deans, N., Warburton, J., Matsumoto, G.I., Dugan, D., and Hareharek, J. | 2014 | Using large marine ecosystems and cultural responsiveness as the context for professional development of teachers and scientists in ocean sciences. | Journal of Geoscience Education |
| Skewes, M., and Lewis, J. | 2016 | Sobriety and alcohol use among rural Alaska Native elders. | International Journal of Circumpolar Health |
| Trout, L., Wexler, L., and Moses, J. | 2016 | Beyond two worlds: Identity narratives and the aspirational futures of Alaska Native youth. | Transcultural Psychiatry |
| Trout, L., McEachern, D., Mullany, A., Lauren, W., and Wexler, L. | 2018 | Decoloniality as a framework for Indigenous youth suicide prevention pedagogy: Promoting community conversations about research to end suicide. | American Journal of Community Psychology |
| Weinrook, H., Wexler, L., Trout, L., Rowlett, K., Klakegg, I., Zhen, S., Valenzuela, S., Henry, I., and Moses, J. | 2017 | New understandings of communities and ourselves: Community-based participatory research with Alaska Native and lower 48 youth. | Educational Action Research |
| West, K., Hopkins, S., Hopper, K., Mohatt, G., and Boyer, B. | 2013 | Found in translation: Decoding local understandings of genetics and heredity in a Yup'ik Eskimo community. | Public Understanding of Science |
| Wexler, L., Moses, J., Hopper, K., Joule, L., Garoutte, J., and LSC CIPA Team | 2013 | Central role of relatedness in Alaska Native youth resilience: Preliminary themes from one site of the circumpolar Indigenous pathways to adulthood (CIPA) study. | American Journal of Community Psychology |
| Wexler, L. | 2006 | Inupiat youth suicide and culture loss: Changing community conversations for prevention. | Social Science and Medicine |
| Wexler, L. | 2009 | Identifying colonial discourses in Inupiat young people's narratives as a way to understand the no future of Inupiat youth suicide. | American Indian and Alaska Native Mental Health Research |
| Wexler, L. | 2011 | Intergenerational dialogue exchange and action: Introducing a community-based participatory approach to connect youth, adults and elders in an Alaskan Native community. | International Journal of Qualitative Methods |
| Wexler, L. | 2014 | Looking across three generations of Alaska Natives to explore how culture fosters indigenous resilience. | Transcultural Psychiatry |
| Wilson, N. | 2014 | Indigenous water governance: Insights from the hydrosocial relations of the Koyukon Athabascan village of Ruby, Alaska. | Geoforum |
| Wilson, N. | 2018 | Community-based monitoring as the practice of Indigenous governance: A case study of Indigenous-led water quality monitoring in the Yukon River Basin. | Journal of Environmental Management |

TABLE S3: Themes and supporting evidence of articles that did, to some degree, critically consider who their participants were.

| Theme | Example |
|---|---|
| Consideration of participant demographics | Ensured focus groups were conducted across different groups of students (e.g. all-male, all-female and non-traditional student groups) (Sharma et al., 2013). |
| Representation | Acknowledges that cultural consultants speak on behalf of population under study (Caringi et al., 2013; Legaspi and Orr, 2007). Acknowledges cultural inappropriateness of speaking on behalf of others so aims for representation from different cultural groups of AN (Mohatt et al., 2004). |
| Justification for inclusion | Argue that community health aides are best positioned to disseminate research (Cueva et al., 2018). States that participants knew each other, but did not represent a clique (Rivkin et al., 2010). Highlights that participants chosen by the steering committee were selected to represent varied pathways to adulthood (Wexler et al., 2013). Highlights that the community coordinator and taskforce members were cultural translators who were willing to contend with the paradox of familiarity (Wexler, 2006) |
| Recognition of heterogeneity | Recognizes that despite using local documents, the views presented there do not reflect the entire community (Hilmer-Pegram, 2016). Recognizes the diversity of groups and their perspectives (Hugo et al., 2013). Recognizes that larger families have more power and are more likely to be elected into public office, as well as the presence of tensions between extended families (Lipka, 1989). Describes difficulty in identifying core Yup'ik values and traditions due to heterogeneity between and within communities (Rasmus, 2014b). |
| Evidence of reflexivity | Addresses that snowball sampling meant that participants were identified based on other's definition of resilience, meaning that social workers selected youth participants who have obstacles to overcome, while youth chose Elders for their wellbeing (Wexler, 2014). |

TABLE S4. Aspects of positionality expressed by authors. References to the cited works are listed in Table S2.

| Component of positionality | Number of articles | Example |
|----------------------------|--------------------|--|
| Ethnicity | 11 | States how background as AN facilitated trust with community members (Lewis, 2014). States that being American Indian means there is no separation between the researcher and the researched (Brewer et al., 2018). |
| Institutional | 3 | Describes how the use of research evidence itself undermines the decolonial approach desired in the research (Trout et al., 2018). |
| Collective | 2 | Provides detailed description of collaboration, as well as how individuals' position as unmarried women created challenges in assuming leadership roles, as they conflicted with Yup'ik social and gender norms (Lardon et al., 2011). |
| Personal | 2 | Provides detailed description of friendships between author, his family, and the community (Caringi et al., 2013). |
| Professional | 12 | Author had previously worked in region (Arundale and Jones, 1989; Rasmus, 2014; Wexler, 2006 ¹ , 2011). |
| Interests | 2 | The researchers want to strengthen energy sovereignty (Brewer et al., 2018). |

¹ Wexler (2006) additionally demonstrates reflexivity as her results, discussion, and recommendations are guided by her role as the Suicide Prevention Coordinator. In her research, she tried to link the meanings of suicide to frameworks for action.

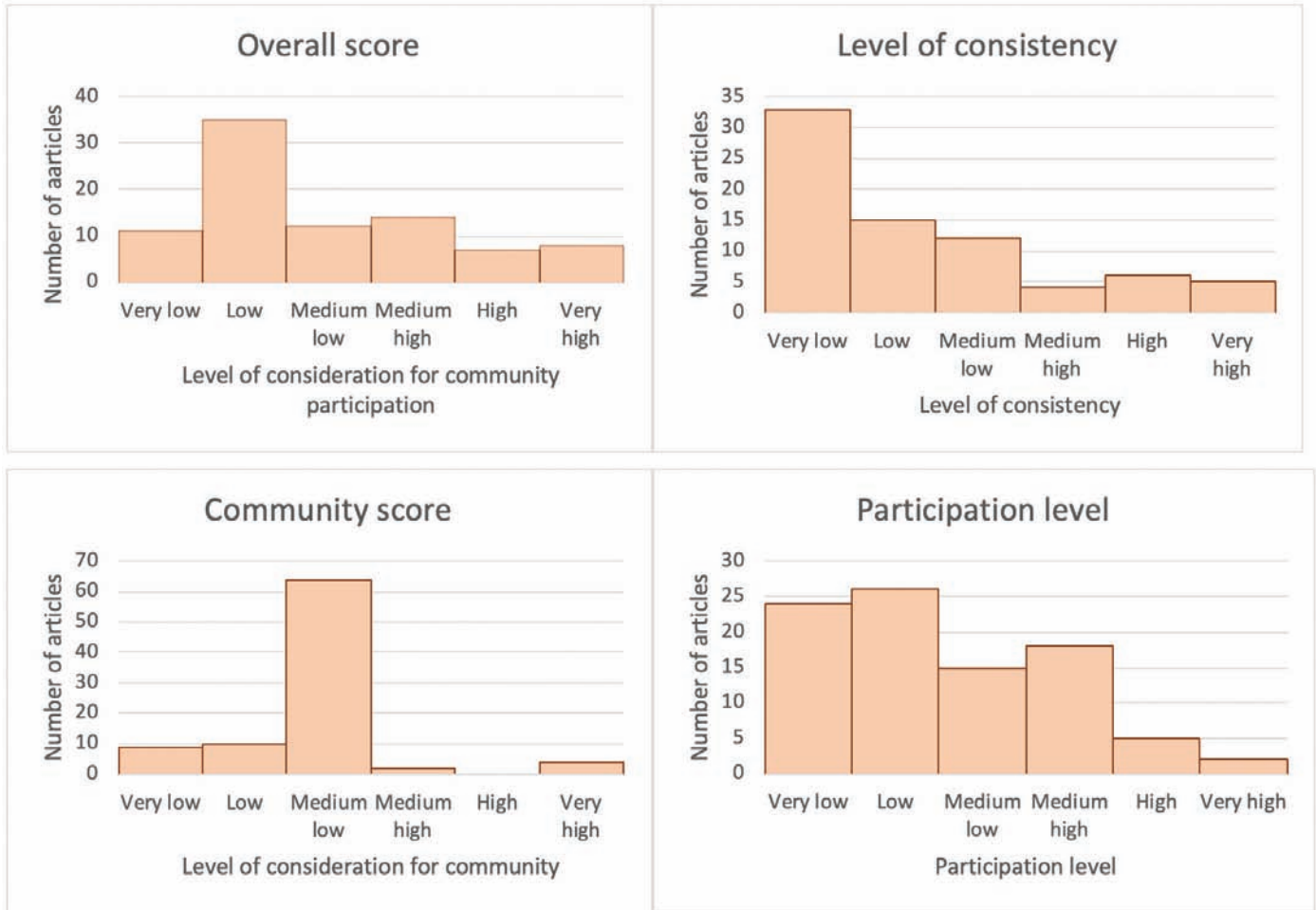


FIG. S1. Scoring of papers based on consistency, description of community, and level of participation.

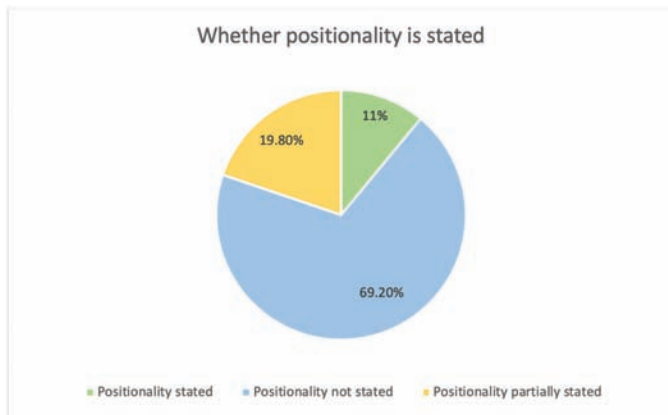


FIG. S2. The majority of papers did not state the author's positionality within the research, despite this being important in both participatory and community-based research.

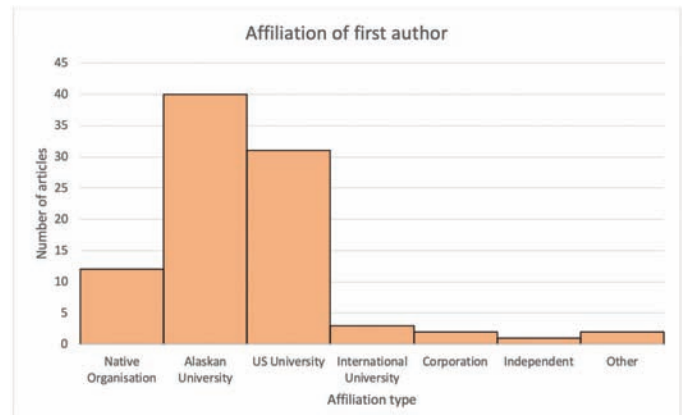


FIG. S3: Affiliation of the first author. Of all Alaskan institutes (n = 40), 80% (n = 32) had the University of Alaska Fairbanks (UAF) as the affiliation of the first author. Eleven papers had UAF as the affiliation of other authors.