

24 changing practices; however, they overlook one cross-cutting ingredient to affecting change:
25 equity. I argue that if qualitative research is to effectively inform public health policy and
26 practice it cannot ignore the fact that physical activity participation is inequitable. I do not
27 dispute the value of the areas Hitchings and Latham identify, but rather caution that without
28 building in a critical equity lens, geographers risk perpetuating the “inequality paradox”¹—that
29 is, the potential for population health interventions to inadvertently exacerbate health inequalities
30 (Frohlich & Potvin, 2008). Related to this, I challenge the authors’ assumption that geographers’
31 critiques of public health approaches to physical activity and our applied efforts to foster
32 physical activity participation are mutually exclusive endeavours. Rather, I argue they are
33 mutually necessary within a social justice agenda. Finally, I close this commentary by offering
34 ways forward for qualitative research on exercise and environment to connect with public health
35 agendas and inform interventions.

36

37 **Putting an equity lens on exercise and environment**

38

39 *Being against (medicalised and individualised) exercise and*
40 *appreciating the potential for it to become a poisoned elixir (rather*
41 *than medicine) shifts priorities and opens up new possibilities. The*
42 *solution is simple, but not easy: reducing inactivity and inequality.*
43 *Refusing inequitable intervention enables the promotion of*
44 *exercise to meaningfully influence the lives and health of*
45 *marginalised and excluded people and reduce related inequalities.*
46 (Williams & Gibson, 2017, p. 13)

47

48 Physical activity participation is, quite simply, inequitable. Physical activity is highly gendered,
49 with men more likely than women to meet the minimum levels for health benefits (Azevedo et
50 al., 2007; Colley et al., 2011; Tucker et al., 2011)—and gender intersects with other aspects of

¹ I wish to acknowledge Williams and Gibson’s (2017) paper for sparking my thinking on this.

51 social difference linked to physical activity disparities, including race/ethnicity (Centers for
52 Disease Control and Prevention, 2007), sexuality (Calzo et al., 2014), disability (Caroll et al.,
53 2014), and socioeconomic position (Grzywacz & Marks, 2001). Qualitative research is especially
54 well-placed to illuminate the socio-spatial processes implicated in inequities in physical activity
55 participation (Gill, 2011; Author, forthcoming), yet equity is substantively absent from Hitching
56 and Latham’s (2017a) discussion. The authors acknowledge that equity issues are apparent, but
57 situate these as seemingly inconsequential to their goal for “qualitative research to help inform
58 efforts to *increase* activity” (p. 304, emphasis added). This is problematic because, as we know
59 from the inequality paradox, *more* people being active is not necessarily better if inequalities
60 remain the same or worsen at the same time. To avoid perpetuating this paradox, qualitative
61 research on exercise and environment should aim for horizontal (equity) improvements as
62 objects of study and targets of change, as opposed to uncritically favouring vertical increases.
63 Indeed, voices in sports studies and public health have argued that qualitative research on
64 physical activity *must* be part of a social justice agenda in physical activity promotion to
65 meaningfully affect change (Gill, 2011; Williams & Gibson, 2017).

66 Following through on Hitchings and Latham’s proposition that “studies concerned with
67 how particular environments are inhabited by particular groups of exercisers could play a more
68 central part in public health promotion” (p. 300) requires critical qualitative evidence that
69 challenges taken-for-granted categories and reveals processes of inequity to inform interventions
70 for inclusive participation. The special issue, however, does not fully realize this goal. Who these
71 “particular groups” are remains conspicuously blank. Hitchings and Latham (2017a) point to
72 paying attention to “the everyman and everywoman of exercise” (p. 302), but bodies remain
73 decontextualized and disembodied. While most studies describe participants in terms of their

74 exercise identities, including runners (Hitchings & Latham, 2017b; Little, 2017), walkers and
75 mountain bikers (Brown, 2017), cyclists (Barratt, 2017), swimmers (Ward, 2017), physically
76 inactive students (Olafsdottira, Clokeb, & Vögele, 2017), or mixed-martial arts practitioners
77 (Blue, 2017), only four of the seven papers using human subjects clearly report the gender mix of
78 their samples (Barratt, 2017; Hitchings & Latham, 2017b; Little, 2017; Olafsdottira, Clokeb, &
79 Vögele, 2017). Of these, only Barratt (2017) explicitly considers gender equity, noting evidence
80 for gamified fitness apps to exacerbate existing gendered inequities and the need to ensure
81 “policies and schemes that promote engagement with them are not intrinsically gendered further
82 disadvantaging women's fitness or broader position in the home and society” (p. 334). Little’s
83 (2017) study focuses on women’s experiences with running and fitness technologies, but it
84 remains unclear how these findings can be directed to intervene in the gendered context of
85 physical activity participation. There is little attention to diversity throughout the issue, with no
86 mention of ethnicity/race, sexuality, or other axes of difference; socioeconomic position was
87 accounted for only by Hitchings and Latham in their sample description of runners (2017b).

88 We cannot ignore how social identities intersect with and are mutually constitutive of and
89 by place, and what this means for physical activity participation. Exercise is prescribed ‘as
90 medicine,’ but I suggest it is very the task of qualitative health geographers is to *situate these*
91 *prescriptions in context*. Take the case of the gym, for instance. A recent systematic review by
92 Morgan et al. (2016) showed that a significant reason for failure of exercise adherence schemes
93 was perceptions of gym environments as uncomfortable or intimidating. Richardson and co-
94 authors’ (2017) qualitative study found that disability intersected with gender in ways that could
95 be a barrier to participation for men in the gym; disabled men felt incongruent with dominant
96 gym masculinities. My own research has shown that micro-level socio-spatial processes within

97 gyms can contribute to normalizing gender differences in physical activity participation (Author,
98 forthcoming). Research on African-American women's experiences of physical activity in the
99 US is a prime example of the importance of centring participant perspectives and qualitative
100 research in developing physical activity interventions (Versey, 2014). Hall et al. (2013) found
101 that African-American women's concerns about hair resulted in about 29% of women avoiding
102 aerobics and gyms, and that those who avoided exercise for hair-related reasons were less likely
103 to meet physical activity guidelines. By showing the socio-spatial processes of in/exclusion that
104 impede participation in a variety of exercise environments, geographers are particularly well-
105 placed to speak directly to public health agendas.

106

107 **Critique versus critical praxis**

108 To excavate these aspects of inequities requires critique; yet, Hitchings and Latham (2017a)
109 claim that "efforts to increase activity" are somehow at odds with how "so much social science
110 activity is taken up in critique" (p. 304). This draws an unhelpful line between the roles of
111 critique and critical praxis, which I argue undercuts the aim of connecting qualitative evidence
112 with public health agendas. Parr (2004) distinguishes between critical thinking, which can *reveal*
113 channels to praxis, and praxis, which comprises direct action. There is certainly an argument to
114 be made that critical thinking does not always translate into change, and it has been noted that
115 there is "an enduring tension between analysis and action" in health geography (Kearns & Moon,
116 2002, p. 616). Hitchings and Latham's (2017a) call for "further conversation with public health
117 practitioners instead of taking a stance of comparative indifference or skeptical critique" (p. 304)
118 does not break free of this tension. Indifference is certainly counterproductive, but I contend that
119 avoiding a critical stance is misplaced because we need *both* critique and critical praxis to

120 connect qualitative research on exercise and environment with public health agendas. To
121 illustrate this, I turn to Guthman's (2012) critical political ecology of fat.

122 According to Guthman (2012), a critical political ecology “encourages examination
123 beyond common sense” (p. 956) and involves interrogating dominant knowledge—or
124 ‘environmental orthodoxies’—to consider how they may ‘foreclose’ other possible explanations.
125 This approach sees scientific explanations not as neutral, but rather as situated within the social
126 and political contexts in which they are produced and sustained. In particular, critical political
127 ecology provides a framework to address potential ‘problem closure;’ that is, “when a specific
128 definition of a problem is used to frame subsequent study of the problem’s causes and
129 consequences” (Guthman, 2012, p. 954). Critique in this way may yield insights into aspects of
130 exercise experience that can otherwise be overlooked if research questions are based uncritically
131 on particular types of knowledge, particularly biomedical knowledge related to body weight
132 (e.g., Body Mass Index or BMI). Indeed, this is precisely why Williams and Gibson (2017) have
133 argued that “ubiquitous knowledge of [exercise’s] elixir-like qualities has not resolved the issue
134 of inactivity” (p. 5). Rather than shying away from critique in qualitative work on exercise and
135 environment, I hold we should do so from an explicitly critical stance that broadens the evidence
136 base upon which new solutions in public health can be derived.

137 Writing from neighbouring anthropology, Hale (2006) defines critique as “an approach to
138 research and writing in which political alignment is manifested through the content of the
139 knowledge produced,” but “neither proposes nor requires substantive transformation in
140 conventional research methods to achieve these goals” (p. 98). Undertaking praxis—or achieving
141 material change—requires different research practices (Hale, 2006). How might we *do* praxis-
142 oriented qualitative research on exercise and environment?

143

144 **Getting creative for change**

145

146 *To be for practice, and to promote physical activity as social justice and public*
147 *service, we must move beyond typical academic research to other types of*
148 *scholarship.* (Gill, 2011, p. 311)
149

150 Qualitative methods in health geography have been conceived as having the potential to bring
151 previously neglected perspectives and everyday life experiences into the policy arena (Dyck,
152 1999). While Hitchings and Latham advocate for more than cultural critique to connect with
153 public health agendas, they stop short of showing us how to do it. The special issue as a whole
154 does not necessarily move beyond critique. It offers useful qualitative evidence that stakeholders
155 in public health *could* engage, but how this becomes more than words on a page is unclear.

156 I propose that to connect qualitative research with public health agendas in the way
157 Hitchings and Latham lay out can be supported by engaging with principles of ‘knowledge
158 translation’ or KT—a concept often engaged by health researchers that refers to the processes
159 and practices of moving evidence into action. KT emphasizes tailoring content in formats for
160 specific audiences in specific contexts, developing actionable messages, and taking a planned
161 approach to identifying the barriers and facilitators of evidence being used (Graham et al., 2006;
162 Grimshaw et al., 2012; Lavis et al., 2003). This involves considering questions such as: (1) Who
163 is the evidence for? (2) What is the best format for that audience? (3) What are the change(s) we
164 want to see? (Lavis et al., 2003). Given the current research climate in many countries that has
165 “encouraged researchers to become more responsible for affecting change” (p. 371), Andrews
166 and colleagues have called for a “practice and evidence-oriented health geography” (Andrews &

167 Evans, 2008; Andrews, Evans, Dunn, & Masuda, 2012)—a call which can be readily engaged by
168 qualitative researchers on exercise and environment.

169 Despite cautions in the KT literature about translating findings from single studies
170 (Grimshaw et al., 2012), such efforts may actually be appropriate for some of the highly context-
171 specific work that qualitative geographers do. Moreover, it is possible to synthesize qualitative
172 evidence from different studies in ways fit-for-purpose for a particular program, policy, or
173 practice target. A strong recent example of this is a duoethnography produced by Williams and
174 Gibson (2017), in which they merged qualitative datasets and “developed an analysis through
175 storytelling to *show*, not just tell, our findings and arguments” (p. 7). The result was two relatable
176 vignettes formulated from qualitative evidence that might be deployed to communicate with
177 decision-makers about the equity implications of ‘exercise as medicine’ approaches to physical
178 activity. Health geographers might consider how to collaboratively link up qualitative evidence,
179 using meta-techniques like duoethnography, about particular places and environments to develop
180 evidence-based tools that can be applied in decision-making and program-planning settings.

181 Creative approaches to KT may be another potential avenue for qualitative research on
182 exercise and environment to affect change. Arts-based methods can connect with audiences at an
183 emotional level and thus “serve to provoke a call to social action” (Parsons et al., 2013, p. 169;
184 Parsons & Boydell, 2012). For example, Parsons and co-authors (2013) evaluated a multimedia
185 arts exhibit aimed at increasing awareness of health inequities experienced among the homeless
186 population in Toronto, Canada. Through post-visit interviews with a range of stakeholders,
187 including decision-makers, the authors found that participants felt the exhibit made the subject
188 matter relevant to them and helped to subtly shift visitors’ perceptions of the homeless
189 community. This form of KT may be an important incremental step to mobilizing action.

190

191 **Conclusion**

192 There is *potential* to connect qualitative research with public health agendas, as showcased in
193 Hitchings and Latham's special issue on exercise and environment. In this commentary,
194 however, I have argued that doing so requires an equity lens—or we risk perpetuating social
195 inequalities in physical activity participation. I demonstrated that rather than dismissing critique
196 in connecting qualitative research with public health, we can benefit from embracing critique and
197 critical praxis as integral and mutually reinforcing components of affecting change. If not, we
198 may foreclose potential new evidence for health equity solutions. Principles of knowledge
199 translation and creative methodologies are avenues that geographers can engage further to move
200 qualitative evidence into action.

201

202 **References**

- 203 Andrews, G., & Evans, J. (2008). Understanding the reproduction of health care: towards
204 geographies in health care work. *Progress in Human Geography*, 2(6), 759-780.
- 205 Andrews, G., Evans, J., Dunn, J. R., & Masuda, J. R. (2012). Arguments in health geography: On
206 sub-disciplinary progress, observation, translation. *Geography Compass*, 6, 351-383.
- 207 Andrews, G., Hall, E., Evans, B., & Colls, R. (2012). Moving beyond walkability: On the
208 potential of health geography. *Social Science & Medicine*, 75(11), 1925-1932.
- 209 Author, forthcoming.
- 210 Azevedo, M. R., Pavin Araújo, C. L., Fossati Reichert, F., Vinholes Siqueira, F., Cozzensa da
211 Silva, M., & Curi Hallal, P. (2007). Gender differences in leisure-time physical activity.
212 *International Journal of Public Health*, 52, 8-15.

- 213 Barratt, P. (2017). Healthy competition: A qualitative study investigating persuasive
214 technologies and the gamification of cycling. *Health & Place*, 46, 328-336.
- 215 Blacksher, E., & Lovasi, G. S. (2012). Place-focused physical activity research, human agency,
216 and social justice in public health: Taking agency seriously in studies of the built
217 environment. *Health & Place*, 18(2), 172-179.
- 218 Brown, K. M. (2017). The haptic pleasures of ground-feel: The role of textured terrain in
219 motivating regular exercise. *Health & Place*, 46, 307-314.
- 220 Calzo, J. P., Roberts, A. L., Corliss, H. L., Blood, E. A., Kroshus, E., & Austin, S. B. (2014).
221 Physical activity disparities in heterosexual and sexual minority youth ages 12–22 years old:
222 Roles of childhood gender nonconformity and athletic self-esteem. *Annals of Behavioral
223 Medicine*, 47(1), 17-27.
- 224 Carroll, D. D., Courtney-Long, E. A., Stevens, A. C., Sloan, M. L., Lullo, C., Visser, S. N., ...
225 Dorn, J. M. (2014). Vital signs: Disability and physical activity—United States, 2009–2012.
226 *Morbidity and Mortality Weekly Report*, 63(18), 407-413.
- 227 Centers for Disease Control and Prevention (2007). Prevalence of regular physical activity
228 among adults—United States, 2001 and 2005. *Morbidity and Mortality Weekly Report*,
229 56(46), 1209-1212.
- 230 Colley, R. C., Garrigué, D., Janssen, I., Craig, C.L., Clarke, J., & Tremblay, M. S. (2011).
231 Physical activity of Canadian adults: Accelerometer results from the 2007 to 2009 Canadian
232 Health Measures Survey. *Health Reports*, 22(1), 1-7.
- 233 Colls, R., & Evans, B. (2014). Making space for fat bodies? A critical account of ‘the obesogenic
234 environment.’ *Progress in Human Geography*, 37(5), 1-21.

- 235 Dorn, M. L., Keirns, C. C., & Del Casino Jr., V. J. (2010). Doubting dualisms. In T. Brown, S.
236 McLafferty, & G. Moon (Eds.), *A companion to health and medical geography*. Wiley-
237 Blackwell, Oxford, UK. doi: 10.1002/9781444314762.ch4
- 238 Dyck, I. (1999). Using qualitative methods in medical geography: Deconstructive moments in a
239 subdiscipline? *The Professional Geographer*, 51(2), 243-253.
- 240 Frohlich, K. L., & Potvin, L. (2008). Transcending the known in public health practice: The
241 inequality paradox: the population approach and vulnerable populations. *American Journal*
242 *of Public Health*, 98(2), 216-221.
- 243 Gill, D. L. (2011). Beyond the qualitative–quantitative dichotomy: notes from a non-qualitative
244 researcher. *Qualitative Research in Sport, Exercise and Health*, 3, 305-312, DOI:
245 10.1080/2159676X.2011.607184
- 246 Graham, I. D., Logan, J., Harrison, M. B., Straus, S. E., Tetroe, J., Caswell, W., & Robinson, N.
247 (2006). Lost in Translation: Time for a map? *Journal of Continuing Education in the*
248 *Health Professions*, 26(1), 13-24.
- 249 Grimshaw, J. M., Eccles, M. P., Lavis, J. N., Hill, S. J., & Squires, J. E. (2012). Knowledge
250 translation of research findings. *Implementation Science*, 7, 50:
251 <https://doi.org/10.1186/1748-5908-7-50>.
- 252 Grzywacz, J. G., and N. F. Marks. 2001. Social inequalities and exercise during adulthood:
253 Toward an ecological perspective. *Journal of Health and Social Behavior*, 42(2): 202-220.
- 254 Guthman, J. (2012). Opening up the black box of the body in geographical obesity research:
255 Toward a critical political ecology of fat. *Annals of the Association of American*
256 *Geographers*, 102(5), 951-957.

- 257 Hale, C. R. (2006). Activist research v. cultural critique: Indigenous land rights and the
258 contradictions of politically engaged anthropology. *Cultural Anthropology*, 21(1), 96-120.
- 259 Hall, R. R., Francis, S., Whitt-Glover, M., Loftin-Bell, K., Swett, K., & McMichael, A. J. (2013).
260 Hair Care Practices as a Barrier to Physical Activity in African American Women. *JAMA*
261 *Dermatology*, 149(3), 310-314.
- 262 Hitchings, R., & Latham, A. (2017a). Exercise and environment: New qualitative work to link
263 popular practice and public health. *Health & Place*, 46, 300-306.
- 264 Hitchings, R. & Latham, A. (2017b). How 'social' is recreational running? Findings from a
265 qualitative study in London and implications for public health promotion. *Health &*
266 *Place*, 46, 337-343.
- 267 Kearns, R. A. (1993). Place and health: Towards a reformed medical geography. *The*
268 *Professional Geographer*, 45(2), 139-147.
- 269 Kearns, R. A. (1995). Medical geography: Making space for difference. *Progress in Human*
270 *Geography*, 19(2), 251-259.
- 271 Kearns, R., & Moon, G. (2002). From medical to health geography: Novelty, place and theory
272 after a decade of change. *Progress in Human Geography*, 26(5), 605-625.
- 273 Lavis, J. N., Robertson, D., Woodside, J. M., McLeod, C. B., Abelson, J., & Knowledge Transfer
274 Study Group (2003). How can research organizations more effectively transfer research
275 knowledge to decision makers? *Milbank Quarterly*, 81(2), 221-248.
- 276 Little, J. (2017). Running, health and the disciplining of women's bodies: The influence of
277 technology and nature. *Health & Place*, 46, 322-327.
- 278 Mohan, J. (1989). Medical geography: Competing diagnoses and prescriptions. *Antipode*, 21(2),
279 166-177.

- 280 Morgan, F., Battersby, A., Weightman, A. L., Searchfield, L., Turley, R., Morgan, H. ... Ellis, S.
281 (2016). Adherence to exercise referral schemes by participants – what do providers and
282 commissioners need to know? A systematic review of barriers and facilitators. *BMC Public*
283 *Health*, 16, 227, <https://doi.org/10.1186/s12889-016-2882-7>.
- 284 Olafsdottira, G. Cloke, P. & Vögele, C. (2017). Place, green exercise and stress: An exploration
285 of lived experience and restorative effects. *Health & Place*, 46, 358–365.
- 286 Parr, H. (2004). Medical geography: Critical medical and health geography? *Progress in Human*
287 *Geography*, 28(2), 246-257.
- 288 Parsons, J.A., & Boydell, K. M. (2012). Arts-based research and knowledge translation: Some
289 key concerns for health-care professionals. *Journal of Interprofessional Care*, 26(3), 170-
290 172.
- 291 Parsons, J., Heus, L., & Moravac, C. (2013). Seeing voices of health disparity: Evaluating arts
292 projects as influence processes. *Evaluation and Program Planning*, 36, 165–171.
- 293 Richardson, E. V., Smith, B., & Papatomas, A. (2017). Disability and the gym: Experiences,
294 barriers and facilitators of gym use for individuals with physical disabilities. *Disability*
295 *and Rehabilitation*, 39(19), 1950-1957. DOI: 10.1080/09638288.2016.1213893
- 296 Rosenberg, M. (2016). Health geography III: Old ideas, new ideas or new determinisms?
297 *Progress in Human Geography*, 1-11. doi: 10.1177/0309132516670054
- 298 Tucker, J. M., Welk, G. J., & Beyler, N. K. (2011). Physical Activity in U.S. Adults: Compliance
299 with the Physical Activity Guidelines for Americans. *American Journal of Preventive*
300 *Medicine*, 40(4), 454–461.
- 301 Versey, H. S. (2014). Centering Perspectives on Black Women, Hair Politics, and Physical
302 Activity. *American Journal of Public Health*, 104(5), 810-815.

303 Ward, M. (2017). Swimming in a contained space: Understanding the experience of indoor lap
304 swimmers. *Health & Place*, 46, 315-321.

305 Williams, O., & Gibson, K. (2017). Exercise as a poisoned elixir: inactivity, inequality and
306 intervention. *Qualitative Research in Sport, Exercise and Health*,

307 <http://dx.doi.org/10.1080/2159676X.2017.1346698>

308

309

310

311

312

313

314