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Shearer, C, Goss, H, Edwards, L, Keegan, R, Knowles, ZR, Boddy, LM, Myers, EJ and Foweather, L

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1	How is Physical Literacy Defined? A Contemporary Update
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3	Cara Shearer ^{1*} , Hannah R. Goss ² , Lowri C. Edwards ³ , Richard J. Keegan ⁴ , Zoe R. Knowles ¹ ,
4	Lynne M. Boddy ¹ , Elizabeth J. Durden-Myers ² , & Lawrence Foweather ¹
5	
6	¹ Research Institute for Sport and Exercise Sciences, Liverpool John Moores University, UK
7	² Faculty of Education, Health and Community, Liverpool John Moores University, UK.
8	³ School of Sport and Exercise Science, College of Engineering, Swansea University, UK.
9	⁴ Research Institute for Sport and Exercise Science, Faculty of Health, University of Canberra,
10	Australia.
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12	*Corresponding Author Email: l.foweather@ljmu.ac.uk
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26 Abstract Physical literacy globally, continues to gain momentum, yet the definition and underlying 27 concept of physical literacy remain contested in both research and practice. This lack of clarity 28 has the potential to undermine the operationalization of physical literacy. This paper considers 29 the various definitions of physical literacy that are currently adopted internationally. Physical 30 literacy experts identified seven leading groups that have established physical literacy initiatives. 31 Although each group is unified in using the term physical literacy, there are contrasting 32 definitions and interpretations of the concept. Common themes were identified, including the: (a) 33 influence of physical literacy philosophy, (b) core elements of physical literacy, (c) lifelong 34 35 nature of physical literacy, and (d) the need to scientifically pursue a robust operationalization of 36 the concept. We conclude by recommending that programmes relating to physical literacy should provide a definition, a clear philosophical approach, and transparency with how their actions 37 38 align with this approach. 39

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41 *Keywords:* definition, international, policy, practice

Over the past 20 years, the invigoration of research regarding physical activity and 42 physical education has generated a greater understanding of both their importance, and how they 43 should be promoted (Allan, Turnnidge, & Côté, 2017). "Physical literacy" has subsequently 44 emerged as a concept that captures both the desire to participate in physical activity, as well as 45 gaining meaningful, fulfilling experiences through doing so. The concept was initially proposed 46 by Whitehead (2001, 2010), in response to concerns as to the direction of physical education and 47 the alarming levels of physical inactivity across the lifecourse (Hallal et al., 2012). Physical 48 literacy has been presented as a "longed for" approach, that values our physical existence 49 (Lundvall, 2015, p. 116). Crucially, it redefines how physical activity is understood, and places 50 51 importance on the holistic development of an individual's physical potential (Whitehead, 2010). 52 This approach appears to have wide appeal (Jurbala, 2015; Tremblay & Lloyd, 2010), with nations from across the world embracing physical literacy to better promote the health, 53 54 productivity, and happiness of their citizens. The concept of physical literacy is, however, often interpreted differently between and within these countries (Edwards, Bryant, Keegan, Morgan, & 55 Jones, 2017), leading to concerns that the concept is becoming lost, confusing, or that it is being 56 57 implemented in ways that are inconsistent with its own core tenets (Jurbala, 2015). As such, researchers have endeavoured to elaborate on what the concept means and how it can be applied 58 59 in practice. Nevertheless, research published on the concept of physical literacy has provided a diverse array of perspectives (Dudley, Cairney, Wainwright, Kriellaars, & Mitchell, 2017; 60 Edwards et al., 2017), which will be further explored within this paper. 61 62 The Origins of Physical Literacy

According to Whitehead (2001), physical literacy is derived from the philosophical
concepts of monism, phenomenology and existentialism. "Monism" is the belief that the mind
and body are interdependent and indivisible (Whitehead, 2007). "Existentialism" proposes that
every person is an individual as a result of their interactions (Whitehead, 2007). Similarly,

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"phenomenology" proposes that individuals are formed through their experience of these interactions, and suggests that perception, through our embodied nature, forms unique perspectives in how individuals view the world (Whitehead, 2007). As such, under these assumptions, at the core of physical literacy, individuals will have: (a) a unique interpretation of the physical world, (b) embodiment within this world based on their own experiences and perceptions, and (c) their physical and mental being viewed as an indivisible, mutually enriching whole. It should be noted, however, that each of the philosophical concepts of monism, existentialism, and phenomenology were originally proposed as self-contained approaches to the philosophy-of-science, and not intended for mixing (Grix, 2002). Whitehead's intention (cf. Whitehead, 2010), by invoking these stances, was to transform

77 physical literacy into an inclusive and holistic concept, focussed on the individual-in-the-world, and her/his experiences. Whitehead (2010) argued that one cannot fully understand or appreciate 78 the true nature of physical literacy without first grasping its philosophical concepts. Yet for 79 many, the detailed and complex philosophical groundings of physical literacy present a barrier to 80 clarity and understanding (Jurbala, 2015). For researchers seeking to explain the concept, there 81 must be some understanding of the philosophical assumptions in order to validate predictions, 82 and this should be articulated. Recent analysis in the related domain of sport and exercise 83 84 psychology has suggested that the lack-of-willingness to discuss and consider philosophical underpinnings is the cause of many current discrepancies, disagreements, and plateaus in 85 progress (Hassmén, Keegan, & Piggott, 2016). 86

A definition is, or should aim to be, inextricably linked to its underpinning philosophical
assumptions (Dennett, 1995). Whitehead has been proactive in seeking to refine and improve the
definition of physical literacy since she first proposed the concept in 1993 (Whitehead, 1993),
often through consensus-seeking exercises within the International Physical Literacy Association
(IPLA). For example, in 2010 physical literacy was defined as: "appropriate to each individual's

endowment, physical literacy can be described as the motivation, confidence, physical 92 competence, knowledge, and understanding to maintain physical activity throughout the 93 lifecourse" (Whitehead, 2010, p. 11). In 2013, Whitehead had described physical literacy in the 94 International Council for Sport Science and Physical Education (ICSSPE) bulletin as "the 95 motivation, confidence, physical competence, knowledge, and understanding to value and take 96 responsibility for maintaining purposeful physical pursuits/activities throughout the lifecourse" 97 (Whitehead, 2013b, p. 29). Following discussions and refinements, the definition was recently 98 changed on the IPLA website, to read as follows: "the motivation, confidence, physical 99 competence, and knowledge and understanding to value and engage in physical activity for life" 100 101 (IPLA, 2017). While there have been three iterations of the definition since 2001, Whitehead and 102 her colleagues at the IPLA have always retained the elements of motivation, confidence, physical competence, knowledge, and understanding. Another constant throughout Whitehead's 103 104 definitions is the notion that the concept is applicable throughout the lifecourse. Nevertheless, the evolving nature of the definition may be a pivotal consideration in illustrating how 105 individuals who approach physical literacy as a new/novel concept may be left bewildered in 106 their search for a definitive definition as arguably, none exists at this time. 107 108 Generally, good science is embodied by debate, discussion, and a willingness to evolve and 109 progress ideas (Popper, 1957) and, in this respect, physical literacy is thriving. The following sections will demonstrate that while there may not be a correct or true definition, as both 110

consensus and evidence are currently lacking (Jurbala, 2015), instead there are – or should be –
transparent approaches (Edwards et al., 2017). This paper aims to collate, compare, and critically

review existing definitions of physical literacy from leading organisations implementing physical

114 literacy agendas around the world. This process will thus facilitate the positioning and

115 contextualisation of various policy frameworks, measurement and assessment approaches, and

116 intervention data and results. Each will be discussed with respect to its specific underlying

definition and conceptualisation. Common themes and differences will then be discussed, as well
as origins for these differences. While other papers have sought to critically appraise varying
concepts (Robinson & Randall, 2017), or offer their own interpretations (Chen, 2015), the aim of
this paper is to clearly identify, articulate, and compare the various approaches of each group,
united under the label of physical literacy.

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Methods

Members of the IPLA (n=4) were contacted via email in Spring 2017 and asked to 123 identify leading organisations/groups working within the physical literacy community. Physical 124 literacy is a relatively novel concept with almost all organisations/groups using freely available 125 126 online platforms to share research and express definitions and interpretations. Working with 127 these experts allowed access to definitions produced both inside and outside of the traditional academic publishing distribution channels. In tandem, the references of a recent systematic 128 review of definitions, foundations, and associations of physical literacy (Edwards et al., 2017) 129 were also checked to ensure all relevant organisations/groups and resources were identified. The 130 websites and publicly available material from each organisation/group were searched to capture 131 information regarding the definitions and theoretical/conceptual underpinnings of physical 132 133 literacy being operationalised internationally.

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Findings

We identified that there are seven prominent groups currently working to promote and develop physical literacy, each operating with at least one identifiable definition. The groups included research teams, government organisations (national or state), not-for-profit and corporate groups, or multi-sector partnerships spanning all of these. These organisations/groups use online platforms to share research and present definitions and interpretations of the concept and these were used to gain insight. Definitions and interpretations of physical literacy from each of these seven groups are presented according to country of origin in Table 1. 142

(Place Table 1 about here)

143 United Kingdom (UK)

The IPLA is a leading advocacy group for physical literacy in the UK, having been 144 established as a UK charity in 2014, whereupon Margaret Whitehead was appointed as the 145 president. The IPLA was formed with the purpose of providing guidance, clarity, and 146 consistency regarding physical literacy. At the time of this study, the IPLA promoted their 147 definition of physical literacy through their website (www.physical-literacy.org.uk), as well as 148 delivering training programmes to practitioners and hosting an annual conference. Nonetheless, 149 there was a lack of research published by the association, and despite being named the 150 151 "International Physical Literacy Association," the group is predominantly connected with UK 152 partners and focused on promoting physical literacy within the UK.

Despite the establishment of the IPLA, different definitions and interpretations of physical 153 literacy had been utilised across UK countries (England, Wales, Scotland, and Northern Ireland). 154 The importance of physical literacy for children and young people was first affirmed within 155 national government policy and strategy in England in "Sporting Future: A New Strategy for an 156 Active Nation" (Sport England, 2016). In response, Sport England – a non-departmental public 157 body tasked by Department for Culture Media and Sport with increasing population levels of 158 159 participation in physical activity in England – had identified "increasing the percentage of children achieving physical literacy" as a key performance indicator within their 2016-2021 160 strategy (Sports England, 2016, p. 20). The Youth Sport Trust, in partnership with Sport 161 162 England, Association for Physical Education, Sports Coach UK, and County Sports Partnership Network had created a Primary School Physical Literacy Framework, detailing the role of school 163 physical education (PE), extra-curricular activities, and competitive sports. Within this 164 framework physical literacy was defined as the "motivation, confidence, physical competence, 165 knowledge, and understanding that provides children with the movement foundation for lifelong 166

participation in physical activity" (Youth Sport Trust, 2013, p. 1). Although similar to the
previously discussed Whitehead definition, the additional outcome of movement foundation
implied a movement focus within the physical literacy framework. Notably, the IPLA are also
not listed as collaborating or endorsing this framework.

In Wales, the devolved Welsh Government (Llywodraeth Cymru) prioritised physical 171 literacy at a policy level considerably earlier than England, with physical literacy highlighted as 172 an opportunity to enable lifelong participation in sport and physical recreation. As such, 173 recommendations to raise the status of physical education to become a core subject in Wales -174 alongside mathematics, English, Welsh, and science - were proposed (Schools and Physical 175 176 Activity Task and Finish Group, 2013). At the time of publication, the physical literacy 177 definition adopted by Sport Wales displayed similarities to the definition put forward by Whitehead and the IPLA, but instead, it was articulated in the form of an equation: "Physical 178 Skills + Confidence + Motivation + Lots of opportunities = Physical Literacy" (Sport Wales, 179 2017). In turn, the Sport Wales definition was an attempt to translate the complex physical 180 literacy concept into one that the general public could easily interpret. In line with Whitehead's 181 approach, Sport Wales advocated the notion of physical literacy as a journey throughout life 182 through their interactive website (http://physicalliteracy.sportwales.org.uk/en/) that displayed 183 184 physical literacy in relation to different life stages. Further, in 2014, approximately £1.78 million (\$2.3 million) was invested by the Welsh government into the "Physical Literacy Programme for 185 Schools." The program was a targeted intervention programme that aimed to develop young 186 187 people along their physical literacy journey. The programme had a political agenda of improving young people's engagement and confidence in secondary schools and reducing the impact of 188 189 deprivation on academic attainment (Sport Wales, 2017). More recently, upcoming curricular changes in Wales were implicitly aligned with the concept of physical literacy, whereby physical 190

193 Canada

194 As a nation, Canada is often praised for being a strong advocate and leader of physical literacy through its implementation of well-funded programmes and strategies within national 195 sport systems (Allan et al., 2017). There are many groups across Canada's provinces and 196 territories using the term physical literacy, with varying definitions and interpretations of the 197 concept. Two leading government funded groups that work to promote physical literacy on a 198 national scale are Canadian Sport for Life (CS4L) and Public Health and Education Canada 199 200 (PHE Canada). There are also regional groups dedicated to physical literacy research, such as the 201 Healthy Active Living and Obesity group and the Pacific Institute for Sporting Excellence. Initially a range of physical literacy definitions were developed in Canada, often adapted 202 203 from the Whitehead (2010) original definition to suit the needs of specific organisations. The Whitehead (2010) physical literacy definition is – in some capacity – recognised or endorsed by 204

205 each research team or organisation. Nevertheless, in 2015, discourse within the physical literacy

206 community – surrounding concerns for the divergence in approaches and foci of programme –

207 prompted the creation of a consensus statement within Canada. The purpose of the statement was

208 to provide clarity for the development of policy, practice, and research. The consensus statement

209 was a collaborative process and authors of the statement included: ParticipACTION, Sport for

210 Life Society, the Healthy Active Living and Obesity Research Group at the Children's Hospital

of Eastern Ontario Research Institute, Physical and Health Education Canada (PHE Canada),

212 Canadian Parks and Recreation Association, and the Ontario Society of Physical Activity

213 Promoters in Public Health (CS4L, 2015). The IPLA definition (IPLA, 2017) informed by

214 Whitehead (2013b; the motivation, confidence, physical competence, knowledge and

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understanding to value and engage in physical activity for life) was endorsed within the 215 216 consensus statement as the definition of physical literacy (CS4L, 2015, p. 1). Despite the generation of this consensus statement, the previous definitions from these 217 organisations were often referred to in practice and the primary sources available to interested 218 219 parties searching the internet (Hyndman & Pill, 2017). The prevalence of these competing approaches leads to the continued confusion and disagreement within the physical literacy 220 221 community (Robinson & Randall, 2017). For example, in 2009, PHE Canada, a leading 222 professional organisation for physical education teachers, released a physical literacy positioning paper using the following working definition: "Individuals who are physically literate move with 223 224 competence and confidence in a wide variety of physical activities in multiple environments that benefit the healthy development of the whole person" (Mandigo, Francis, Lodewyk, & Lopez, 225 2012, p. 6). This definition was displayed on the PHE Canada (2017) website 226 227 (http://www.phecanada.ca/programs/physical-literacy), however, at the same time the IPLA 228 definition was also endorsed with reference to the consensus statement. 229 In addition to PHE Canada's approach, The Sport for Life Society (previously Canadian Sport For Life) endorses the IPLA definition of physical literacy, alongside the description: 230 "Physical literacy is the mastering of fundamental movement skills and fundamental sport skills" 231 232 (The Sport for Life Society, 2017). In 2016, The Sport for Life Society registered "60 Minutes Kids Club," which became "Physical Literacy for Life" (PLFL, 2017). PLFL aimed to advance 233 physical literacy in the health, recreation, and education sectors, with the aspiration "to develop 234 physical literacy in all Canadians" (PLFL, 2017, p. 1). Again, the materials accompanying this 235 site reiterated the IPLA 2014 definition of physical literacy, alongside the full 2015 consensus 236 statement, although it has been debated whether this acknowledgement was translated in practice 237 (Robinson & Randall, 2017). For example, in 2014, physical literacy was adopted as one of the 238 10 key factors influencing the CS4L model of Long Term Athlete Development (CS4L, 2015). 239

This model became a popular and influential approach often deployed in relation to physical 240 literacy in Canada (Robinson & Randall, 2017). The model evolved to try to acknowledge the 241 wide variety of factors that influence physical literacy, and in turn athletic development, 242 including a range of skills and environments. As an internationally recognised talent 243 244 development model, this performance-driven approach to physical literacy received global attention (Allan et al., 2017). Nevertheless, although CS4L adopted the IPLA definition of 245 physical literacy, strategies intended to promote physical literacy within the Long-Term Athlete 246 247 Development model largely focussed on physical skills and motor development (Allan et al., 2017) and as the popularity of this model grew, so too have criticisms regarding whether the 248 249 model truly acknowledges the holistic nature of physical literacy (Robinson & Randal, 2017).

250 United States

At the time of our sampling, physical literacy in America was supported by The Society of 251 252 Health and Physical Educators (SHAPE America) as a part of the National Standards and Grade Level Outcomes for K-12 Physical Education (Moreno, 2013). In 2013, SHAPE America 253 254 defined physical literacy as "the ability to move with competence and confidence in a wide variety of physical activities in multiple environments that benefit the healthy development of 255 256 the whole person" (Mandigo et al., 2012, p. 6; SHAPE America, 2014, p. 4). This definition was 257 the same as that utilised by PHE Canada, and physical literacy is outlined as the goal for both physical and health education, highlighted through the campaign 50 Million Strong which 258 259 reflected SHAPE America's commitment to put all children on the path to health and physical 260 literacy by 2029 (Jefferies, 2016).

In 2015, The Aspen Institute (an education and policy studies organisation) was
commissioned by SHAPE America to produce the document: "Physical literacy in the United
States: A model, strategic plan, and call to action" (The Aspen Institute, 2015). Alongside the
SHAPE America website, the Aspen Institute developed further resources via their "Physical

Literacy: Project Play" website which defined physical literacy as "the ability, confidence, and 265 desire to be physically active for life" (The Aspen Institute, 2013), thus deviating quite 266 significantly from the SHAPE America definition. Crucially, this wording removed the element 267 of knowledge and understanding from Whitehead's definitions, although it could be argued that 268 this was in an attempt to simplify the definition in order to engage youth populations. Both 269 Physical Literacy: Project Play (The Aspen Institute, 2013) and SHAPE America are initiatives 270 for school-aged children, so will undoubtedly focus on children and young people. 271 272 SHAPE America asserted that physical education "develops the physically literate individual through deliberate practice of well-designed learning tasks" (SHAPE America, 2017, 273 274 p. 1). In 2014, the term "physically educated" was replaced with "physically literate" in the 275 National Standards and Grade Level Outcomes for K-12 Physical Education (SHAPE America, 2014). This was critiqued by Lounsbery and McKenzie (2015) and it was reported that this 276 277 change occurred without the consultation of the physical education profession. It was also argued that there appeared to be little difference between the definitions of physical education and 278 279 physical literacy. This argument was echoed by Hyndman and Pill (2017), who argued that the substitution and interchangeable use of physical education for physical literacy has led to 280 "definitional blurring." 281

282 New Zealand

Sport New Zealand is a government-funded agency that supports and funds local, regional,
and national organisations working to promote grassroots and elite sports throughout New
Zealand. The 2015-2022 Community Sports Strategy (Sport New Zealand, 2015), which
followed the first national strategy published in 2009, highlighted physical literacy as a key focus
area for young people within New Zealand. To guide this focus area, Sport New Zealand (2015)
published a document titled *Physical Literacy Approach - Guidance for Quality Physical Activity and Sport Experiences*, wherein they used Whitehead's (2013b) definition of physical literacy:

290 "the motivation, confidence, physical competence, knowledge and understanding required by 291 participants that allows them to value and take responsibility for engaging in physical activity and sport for life" (Sport New Zealand, 2015, p.1). Sport New Zealand reasoned that although 292 293 they wanted to be a successful sporting nation, they require a participant-focused physical 294 literacy approach to community sport. This approach took a holistic view of the participant, considering their physical, social and emotional, cognitive, and spiritual needs (Sport New 295 Zealand, 2015). The inclusion of a spiritual aspect to their interpretation of physical literacy 296 297 reflected the important spiritual facets of the Maori culture, which is specific to, and has great importance within New Zealand culture and society. Further, Sport New Zealand outlined their 298 299 vision, provided information regarding physical literacy, and considered the needs and 300 considerations of various life stages. This document (Sport New Zealand, 2015) gave significance to the "lifecourse," in line with Whitehead's (2010) definition, through a section 301 302 called "traveling through life" where physical literacy was considered in regard to each life stage (i.e., from early years through to seniors), thus promoting a holistic and inclusive approach to 303 physical literacy. The most recent annual report from Sport New Zealand targets improving 304 physical literacy in children between 2017 and 2020 (Sport New Zealand, 2016). 305

306 Australia

307 The first Australia-wide curriculum for Health and Physical Education (HPE) was released to Australia's states and territories and their respective education systems in 2015. Although the 308 HPE documents did not make an explicit reference to physical literacy, there were strong 309 310 alignments between particular interpretations of physical literacy and aspects of the HPE curriculum; for example, the aim of the curriculum is to provide the basis for developing 311 knowledge, understanding, and skills for students to lead healthy, safe and active lives 312 (Australian Curriculum, Assessment and Reporting Authority - ACARA, 2016). The concept of 313 physical literacy was specifically mentioned in the document titled *Getting Australia Moving*, 314

which was commissioned by the local state government in the Australian Capital Territory
(Keegan, Keegan Ordway, Daly, & Edwards, 2013). During this time, the University of
Canberra's physical literacy research group was arguably the leader of physical literacy within
Australia (The Aspen Institute, 2015), aiming to improve the physical literacy of Australian
children through school physical education and sport, community linkages, and the development
of resources such as web apps and task-cards for teachers.

In May 2016, the Australian Sports Commission recruited a team of researchers to 321 produce, for Australia, a physical literacy definition, standards framework, assessment 322 guidelines, and implementation guidelines. The core researchers in the team conducted a wide-323 324 ranging literature review of physical literacy, followed by expert panel meetings, and a Delphi 325 consultation process involving three rounds of Delphi surveys to pursue consensus (Australian Sports Commission, 2017). Following this process, it was agreed that physical literacy should be 326 327 theoretically separable from physical activity, a so-called double dissociation wherein a person could be high or low in both, separately, or together. The group agreed on a set of defining 328 329 statements making it clear that each individual has the potential to learn through participation in physical activity and that potential can be developed to a level where it is self-perpetuating. In 330 331 the end, there were four defining statements issued by the Australian Sports Commission, with 332 between 94-100% consensus recorded from an expert group of 18 leading researchers. The four defining statements were: (a) Physical literacy is lifelong holistic learning acquired and applied 333 in movement and physical activity contexts (Core/process; 94% consensus); (b) It reflects 334 335 ongoing changes integrating physical, affective (subsequently renamed psychological), cognitive, and social capabilities (Components/constructs; 94% consensus); (c) It is vital in 336 337 helping us lead healthy and fulfilling lives through movement and physical activity (Importance; 100% consensus); and (d) A physically literate person is able to draw on their integrated 338 physical, psychological, cognitive, and social capacities to support health promoting and 339

fulfilling movement and physical activity – relative to their situation and context – throughout
the lifespan (Aspiration/product; 94% consensus).

Central to these defining statements was the clarification that whole-person, holistic 342 development spans four key learning domains: the physical, affective, cognitive, and social 343 344 (Australian Sports Commission, 2017). The physical domain included physical competence, motor skills, health- and skill-related fitness, technique and psychomotor skills. The affective 345 (subsequently 'psychological') domain concerned itself with one's experiences of internal 346 signals such as fatigue and exertion, as well as motivation, confidence, self-esteem and 347 engagement. The cognitive domain covered conscious and unconscious knowledge and 348 349 understanding, including problem-solving and decision-making, awareness of rules and tactics, 350 appreciation of healthy and active lifestyles, and processing of feedback and reflection. The social domain included leadership, understanding ethical principles, working with peers, 351 352 coaches, teachers and more, treating others with sensitivity and effective communication. The group emphasised that development and learning must be "integrated across" all four domains, 353 and not merely focussing on the physical. It is early days for this new approach, using defining 354 statements rather than a singular definition, but the work has been well received in stakeholder 355 356 focus groups and has support from the Federal government, including ongoing funding of the 357 Australian Sports Commission's work in this area across Australia.

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Discussion

The current paper has endeavoured to collate, compare, and critically review the current understandings of physical literacy internationally. We have identified seven established and prominent groups, and have provided an overview of those groups operating with the term physical literacy. The following discussion will critically review these by identifying common themes and issues regarding the definitions used by these groups, exploring potential reasons for these issues, and pointing out the implications this has for the future of physical literacy.

365 Global Differences

In articulating her views on the concept of physical literacy, Whitehead (2010) was clear 366 that there are good reasons to expect different approaches to physical literacy. The underlying 367 368 philosophy (or philosophies) she argued as being central considerations denoted that the unique personal experience, unique personal capabilities at any point in time, and unique social and 369 environmental contexts all necessitate a context-specific approach. International differences in 370 the interpretation and operationalization of physical literacy are expected, indeed needed, in 371 order to create meaning and cultural relevance. The influence of culture was extensively 372 discussed by Whitehead (2010) who identified that "specific expression (of physical literacy)... 373 374 will be particular to the culture in which they live" (p. 12). Although physical literacy is 375 proposed to be a universal and inclusive concept, there is a debate as to how much tailoring the socio-cultural context should necessitate, and this is referred to throughout Whitehead's book 376 (2010). Initially, it was assumed that the differences in interpretation could stimulate the 377 implementation of physical literacy in practice and allow it to flourish within a variety of 378 settings, ultimately, leading not only to different approaches to applied practice, but also 379 different definitions of physical literacy. As a consequence, however, some have argued that this 380 381 diversity in definitions has generated a level of inconsistency and conflict within the physical 382 literacy community (Dudley et al., 2017; Jurbala, 2015; Tremblay & Lloyd, 2010). Each of the seven organisations, discussed above, have adopted their own definition(s) of 383 physical literacy. With the exception of SHAPE America, these groups are non-governmental 384 385 public sports bodies. While the growing interest from international organisations aiming to promote physical literacy is promising, it should be noted that these organisations each have their 386 own specific purposes, philosophies, expertise, and funding priorities in order to promote the 387

388 concept within their communities. These contextual constraints then influence associated

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characteristics, descriptors, objectives, methodologies, programmes, and evaluations of physical
literacy, perhaps perpetuating the issues that form the focus of the current paper.

The Canadian consensus statement (CS4L, 2015) aimed to decide upon a single definition 391 as, even within one country, the interpretations of physical literacy were notably different across 392 provinces. The Canadian consensus statement went some way towards unifying a physical 393 literacy approach, yet there is a marked difference between endorsing a definition and 394 appropriately operationalising said definition (Edwards et al., 2017). It is unclear, however, what 395 meaningful difference this consensus achieved in terms of changes to practice and approaches, 396 with conflicting definitions presented alongside the 'agreed' one. More substantive, transparent, 397 398 and scientific processes may be required in order to develop and agree on a robust working 399 consensus regarding the definition and meaning of physical literacy.

Philosophy within the definition. The philosophy underpinning the physical literacy 400 401 concept and its holistic nature is arguably what makes the concept unique. Whitehead has 402 consistently noted that philosophy is the vital foundation behind physical literacy and one cannot truly understand physical literacy without embracing its philosophical roots (2001, 2007, 2010, 403 & 2013b). Nevertheless, the philosophy surrounding physical literacy programmes was often ill-404 405 aligned or simply missing, both in research and practice (Edwards et al., 2017). For example, 406 SHAPE America (2017) and Sport Wales (2014) may have neglected the lifelong experience in 407 their materials, as their focus at the time was on school-aged populations. Likewise, having historical associations with talent development pathways, The Sport for Life Society (2017) and 408 409 Sport New Zealand (2016) may have placed higher importance on movement skills rather than valuing the diverse and holistic construction of physical literacy. Yet despite the emphasis on 410 411 philosophy, Whitehead has never successfully included an acknowledgement of philosophy within the definitions she has developed, or helped to stimulate. This may be a potential reason 412 for the confusion and misinterpretations surrounding the concept. 413

414 **Defining the Core Elements**

While making the concept culturally relevant, some organisations may have deviated from 415 the original Whitehead (2001) definition, which included the four elements of confidence, 416 417 physical competence, motivation, and knowledge and understanding. For example, CS4L (2015) and PHE Canada (2017) expressed the physical literacy elements as "fundamental movement and 418 sport skills" (CS4L, 2015, p. 1) and "competence and confidence" (PHE Canada, 2017, p. 1). In 419 each case, some of the physical literacy core elements described in Whitehead's definition are 420 omitted; therefore, is the term physical literacy appropriate? Whitehead's definition has taken 421 different forms over the 10 years preceding this analysis, however, it remained consistent in the 422 423 sense that all four elements (motivation, confidence, physical competence, and knowledge and 424 understanding) were included. Sport Wales (2017) replaced the element "physical competence" from the Whitehead definition with "physical skill." This was seemingly an attempt to translate 425 426 the core elements into language that can be easily understood by the general population, thus making it possible to implement within local and education sectors. 427

Sport Wales (2017, p. 1) added an additional core element, "a range of opportunities" 428 referring to facilities available and the environment facilitating physical activity. By adding this 429 430 element into the definition, Sport Wales emphasised that physical literacy was not only the 431 responsibility of the individual, but also of parents, teachers, council members, and the community as a whole. Similarly, CS4L (2015), PHE Canada (2017), and SHAPE America 432 (2014) also added this element referring to it as "multiple environments." This aspect was 433 434 discussed extensively by Whitehead (2001), who sought to clarify what constituted a physically challenging environment, and how a physically literate individual would read the environment. 435 In contrast, however, interacting with the environment was not featured in Whitehead's 436 subsequent definitions (2001, 2007, 2010, 2013a, & 2013b; IPLA, 2017). Recent research by 437 Dudley et al. (2017) identified movement contexts as a significant consideration for policy 438

439 makers, so much so as to suggest the Whiteheadian definition could beneficially be adapted further to incorporate this crucial element. Interestingly, and in contrast to other groups, 440 Australia's new approach does not mention the four elements of motivation, confidence, 441 442 competence, and knowledge and understanding. Instead, it has included the components/constructs of physical, affective (subsequently psychological), cognitive, and social 443 capacities (Australian Sports Commission, 2017). The research group reached a consensus that it 444 would be more inclusive and engaging to specify the broader domains as there were concerns 445 that concepts such as motivation and confidence held different meanings to different cultures, 446 between researchers, and versus the wider stakeholder group. This presents an alternative 447 448 interpretation in approaching physical literacy, which warrants consideration.

449 A Lifelong Journey

Whitehead (2001, 2010) consistently argued that physical literacy represents a lifelong
journey. A recent systematic review of the definitions of physical literacy conducted by Edwards
et al. (2017) found "throughout the lifespan" as a core category in defining physical literacy.
Within existing literature, they reported the existence of three categories: throughout the lifespan,
unique journey, and the Long-Term Athlete Development model. Nonetheless, the systematic
review also highlighted physical education as a core category, alluding to the focus that has been
placed upon school-aged populations.

457 Despite most of the groups reviewed advocating Whitehead's definition (2001, 2007, 2010, 458 2013a, & 2013b; IPLA 2017) to some degree, many groups that have operationalised physical 459 literacy in practice have predominantly focused on school-aged children and young people. This 460 is not surprising, especially as PHE Canada and SHAPE America are organisations formed 461 within the physical education sector. Many of these organisations have received funding from 462 governments who wish to invest in children's health. Particularly within policy, where cost 463 versus benefit must be evidenced, the lack of research to support physical literacy across the

464 lifecourse presents a major barrier. At the time of writing, much of the published literature relating to physical literacy concerned school-aged populations. Within the 2013 special issue on 465 physical literacy published in the Journal of Sport Science and Physical Education, authors 466 admitted many of the articles were school focused (Weinburg, 2013). Likewise, within the 467 current special issue, articles also focus on physical education, as is the mission of the Journal of 468 Teaching in Physical Education. Therefore, in order to generate evidence throughout the 469 lifecourse, relevant and appropriate research from the established contexts of physical education 470 and physical activity should be considered. Nevertheless, physical literacy has only been adopted 471 by policymakers in recent years, and the youth population has evidently been the easiest to 472 473 access and impact. Perhaps it is too early to comment on the focus of applied practice. We would 474 suggest that a more holistic approach needs to be taken to consider physical literacy across the 475 lifecourse.

476 Process Versus Product

An apparent difference when comparing global organisations became the choice of some 477 groups to define a physically literate person as opposed to defining physical literacy. For 478 example, achieving physical literacy in children is a key performance indicator in Sport 479 480 England's (2016) strategy for physical activity in the UK. Similarly, PHE Canada (2017) 481 described a person who is physically literate in their definition, while SHAPE America identified that physical education is the means "to create the conditions for all youth in the United States to 482 be physically literate by the middle school years" (The Aspen Institute, 2015, p. 11). This 483 484 process (journey) versus product (outcome/goal) debate became apparent in the work of Keegan et al. (in review), and has led to a core point of difference in the work produced from Australia. 485 The Australian (2017) defining statements differentiate between physical literacy as a process 486 (Statement 1 – Core/process) versus physical literacy as the product/outcome (Statement 4 – 487 Aspiration/product). Different approaches to physical literacy have emphasised an inherent, 488

489 ongoing potential to learn and develop through movement (process), which has been contrasted against some kind of current physical literacy status (product), which is presented as a desirable 490 level of being physically literate. Concerns remain, however, that discussing physical literacy as 491 an end state, also implies that someone may be physically illiterate, which has been a particular 492 source of contention; Whitehead (2013a) argued that physical illiteracy cannot occur in a living 493 being as human movement potential is necessary for life. Nonetheless, in the book Physical 494 Literacy: Throughout the Lifecourse, Whitehead refers openly to "physically illiterate 495 individuals" (2010, p. 7). In a recent personal communication, Whitehead has expressed 496 frustration at the process versus outcome (versus both) debate. Whitehead has attempted to 497 498 clarify her view that although a journey is a process in the interests of seeking a goal, progress on 499 a physical literacy journey depends on the accumulated processes in which the individual is involved (Whitehead, personal comunication, August 14, 2017). Separately, the ongoing process 500 501 versus outcome (versus both) debate is another core source of disagreement and inconsistencies 502 in definitions, viewpoints, and approaches. Robust and contemporary research on this topic should be published in publically accessible peer-reviewed journals, to engage and render 503 transparent the current debate, thus also stimulating the development of understanding of 504 505 physical literacy.

506

Future Implications

507 This review of the current approaches to defining physical literacy, while not exhaustive, 508 has identified several distinguishable approaches, between and within different countries. For 509 example, in conducting this review we have been made aware of physical literacy 510 programs being conducted in Singapore, Scotland, China, and India. At the time of writing, these 511 programs were not sufficiently developed, or distinguishable from other programs, to warrant a 512 separate analysis. Nonetheless, a common issue experienced by both established and emerging 513 groups working around physical literacy is a lack of empirical evidence (Giblin, Collins, &

Button, 2014; Jurbala, 2015). This paucity-of-evidence was a limiting factor in the current paper,
as we were only able to include established organisations, all of which existed in English
speaking, developed countries. Yet even in these groups, many had an online presence without a
peer-reviewed, published evidence-base. Conducting peer-reviewed research and robustly
evaluating programmes throughout policy and practice should therefore be a key focus for
organisations moving forward.

Crucially, however, when presenting this empirical evidence, understandings of, and 520 521 assumptions regarding, physical literacy should be clearly presented in order to provide a frame for interpretations of findings. While the concept and topic of physical literacy appears to hold 522 523 strong potential – particularly the notion of re-emphasising the holistic, integrated nature of 524 personal development through movement experiences – researchers within the area have increasingly recommended that academics need to focus on clearly articulating aligned 525 526 definitions, philosophical assumptions, and conceptual frameworks (Dudley et al., 2017; Edwards et al., 2017). Furthermore, with this research transparency, there is also a need for 527 tolerance for differing approaches of physical literacy in order to permit collaborations, sharing, 528 and critical discussions while operationalising the concept (Edwards et al., 2017). This paper 529 530 demonstrates that different approaches have been adopted towards physical literacy by different 531 groups. Some advocates, often from a specific group promoting a specific approach, are troubled by this divergence in meanings, calling for alignment to agreed core elements of definition 532 wordings. While this paper recognises that there will be different interpretations of physical 533 534 literacy, it also urges all authors and researchers to clearly articulate their definition, assumptions, and core values when they deliver and report their findings in relation to physical 535 536 activity and physical literacy.

537

Conclusion

A number of international groups, and numerous papers, chapters, and books, have 538 focussed on physical literacy in the recent years. Such is the perceived benefit of physical 539 literacy that within the UK, Canada, USA, New Zealand, and Australia, the term physical 540 literacy has been recently cited within recent national policies. Nonetheless, in order for physical 541 literacy to develop, robust evidence-based research is needed. Within such research, a level of 542 clarity, transparency is needed; and through such clarity and clear evidence, consensus may be 543 pursued regarding the "what and for what" questions (Edwards et al., 2017). To be clear, we do 544 not advocate that each group adopts the same definition *a priori*, but it must be possible to 545 compare different interpretations and evaluate the effectiveness of measurement/assessment 546 547 attempts, intervention programmes, and policies internationally. Opportunities for cooperation in 548 promoting physical literacy should continue to be developed, as open discussions could help determine the importance of physical literacy in research and practice (Corbin, 2016). As such, 549 550 all stakeholders, throughout both academia and applied practices, should seek to clearly and coherently articulate their approach to physical literacy in order to make meaningful differences 551 552 that stand a chance of significantly advancing the field.

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Table 1. International Definitions of Physical Literacy

are/what-were-

working-	
working	

towards/physical-

literacy-approach

Australian Sport	Australia	Australian Sports	Four defining statements:
Australian Sport	Australia	Australian Sports	Four defining statements.
Commission		Commission (2017)	1.Core / process - Physical literacy is lifelong holistic
		http://ausport.gov.au/ph	learning acquired and applied in movement and physical
		ysical_literacy	activity contexts
			2.Components / constructs - It reflects ongoing changes
			integrating physical, affective (subsequently renamed
			'psychological'), cognitive and social capabilities
			3.Importance - It is vital in helping us lead healthy and
			fulfilling lives through movement and physical activity
			4.Aspiration / product - A physically literate person is able
			to draw on their integrated physical, affective, cognitive,
			and social capacities to support health promoting and
			fulfilling movement and physical activity - relative to their
			situation and context

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