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- * Exploring physical literacy in chronic disease participants:
 - Development and effects of a pilot intervention



Alexandre Mouton, Antoine Dael, Jean-Pierre Weerts & Marc Cloes

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Future directions



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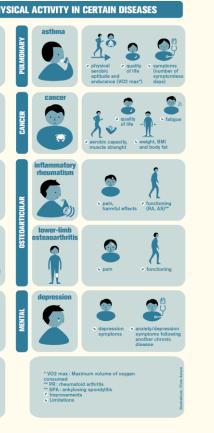
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Why Physical Literacy?



ANSES (2019)

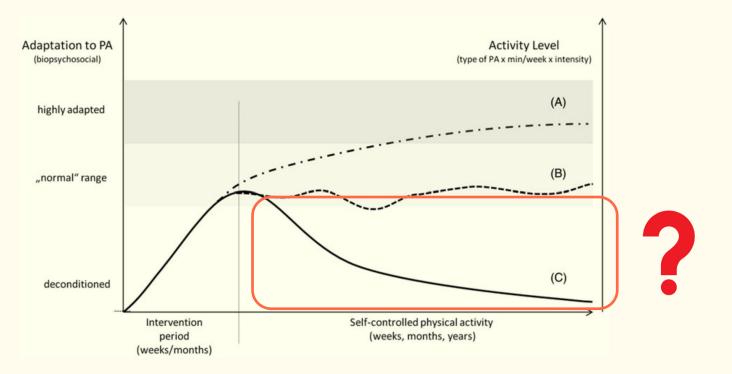




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Why Physical Literacy?

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Adaptations to short-term exercise interventions and their post-intervention progression

Geidl, Pfeifer & Semrau (2014)



improvement centered programs

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Ongoing limits of PA/exercise promotion



One-Size-Fits-All Approaches

Lack of time, knowledge, referral for PA in health care professionals

Hospital vs communitycentered approach

Lack of ecological perspective on participants' PA

Powell et al. (2006); Bauman et al. (2016); Kahn et al. (2002); Moschny et al. (2011)



Why Physical Literacy?

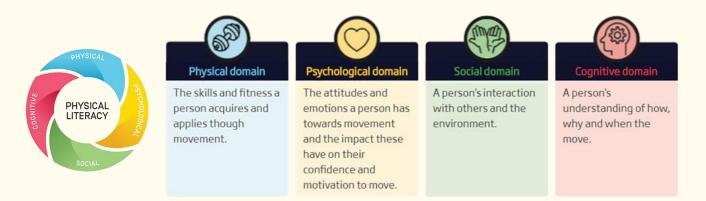
Physical Literacy

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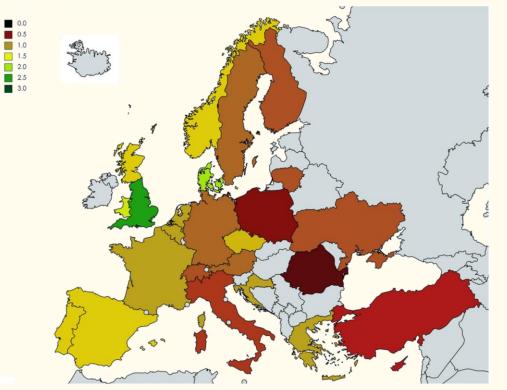
"Motivation, confidence, physical competence, knowledge, ***** and understanding to value and take responsibility for engagement in physical activities for life"

International Physical Literacy Association (2017), inspired from Whitehead (2001)



Why Physical Literacy?

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Physical Literacy implementation in Europe

Carl, .., Mouton, et al. (2023a)



One of the "blank spots"

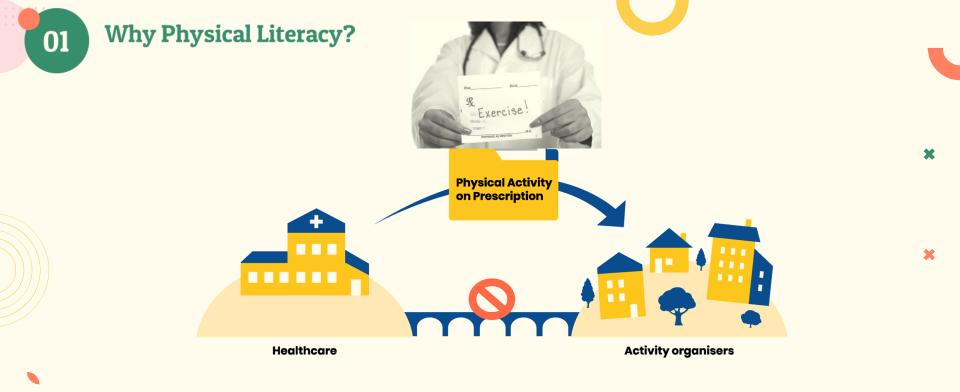
 Evidence support a relationship between the physical domain of physical literacy and improved health outcomes, but evidence is missing in specific populations

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- Most physical literacy research is focused on children, few in adults, almost none in older adults and chronic disease populations
- Greater emphasis is placed on the physical domain of physical literacy, leaving the remaining domains (affective, cognitive, and behavioural) underrepresented/understudied
- Health care practitioners are not yet engaged with the construct of physical literacy in practice

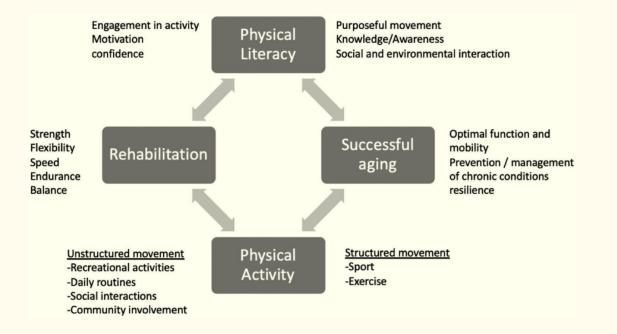
Cornish et al. (2020) Carl et al. (2022; 2023a)



Missing bridge between healthcare and autonomous physical activity

Why Physical Literacy?

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Physical literacy for adults through a rehabilitation lens

Petrusevski et al. (2022)

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PL pilot intervention in chronic disease

Objective & Methods



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Explore the effects of a physical literacy assessment and counselling session in chronic disease participants



Longitudinal quasi-experimental study (T1= pre-intervention, T2= 2 months post-intervention)



Control vs Experimental group design

Adult (+18) with chronic disease



T0 = 108 (71% ²; 56±15 yrs)

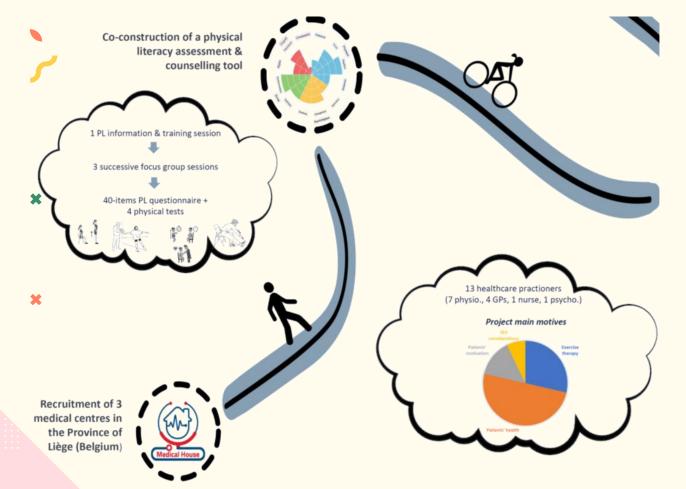
 $T1 = 64 (74\% \, \text{°}; 61 \pm 13 \, \text{yrs})$



Recruitment of 3 medical centres in the Province of Liege (Belgium)

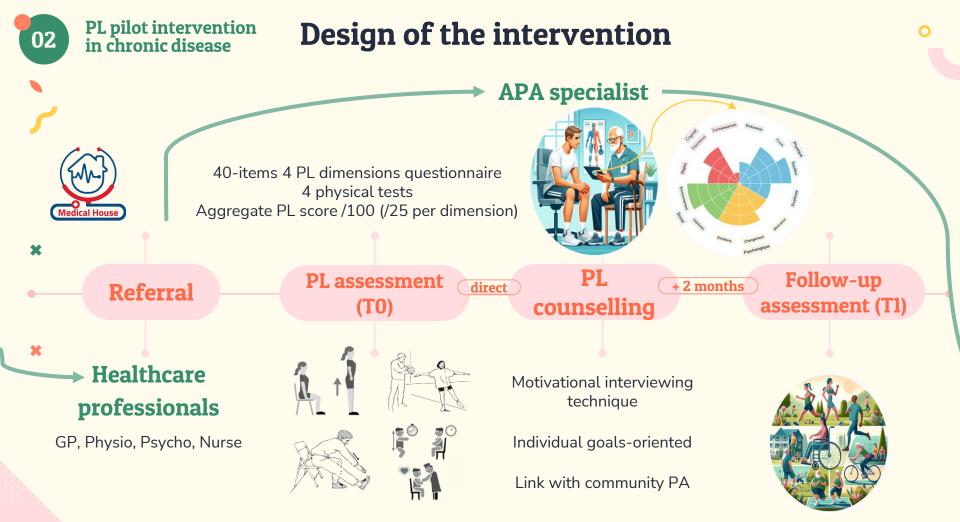


Co-designing of the physical literacy counselling scheme



"Developing approaches that broaden the focus to include everything that makes a human being [...] is undoubtedly more relevant" (psycho.) Ο

" It could bring a "complementary work" with other health professionals who work here. The physical educator will share his skills with the team and patients" (physio. 3)



Weerts & Mouton (2023)



Results

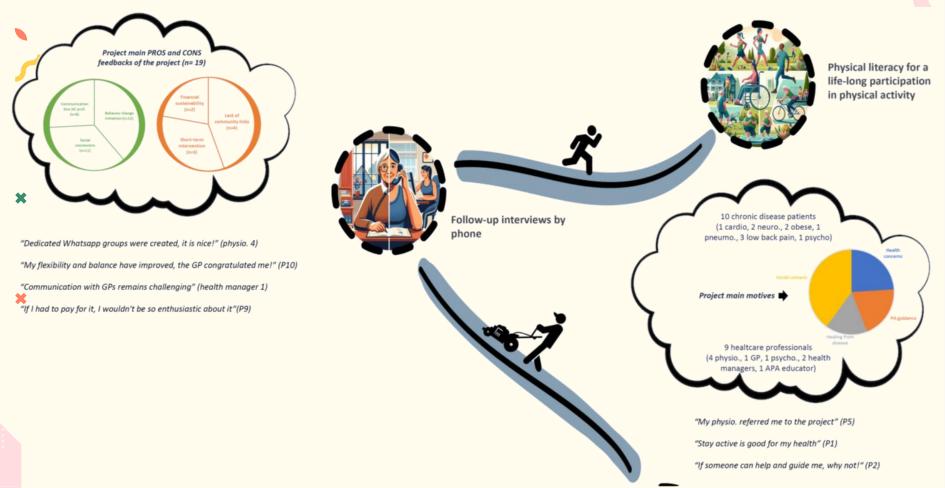
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بر	PL dimensions	ТО			T1 (+2 months)			
		GC (n=20)	GE (n=44)	<i>Inter-group P</i> -value	GC (n=20)	GE (n=44)	<i>Inter-group</i> <i>P</i> -value	
	Psycho.	78,62	70,52	0,1	78,99	72,09	0,11	
×	Social	74,34	74,91	0,78	75,2	77,45	0,78	
×	Cognitive	59,19	69,68	0,01	59,53	73,93***	>0.001	
	Physical	64,11	52,53	0,03	64,56	54,34	0,02	
	PL total score	69,07	66,91	0,59	69,57	69,46**	0,6	

*only mean values presented; ask about IC variability & SD P-value *<0,05;**<0,01;***<0,001

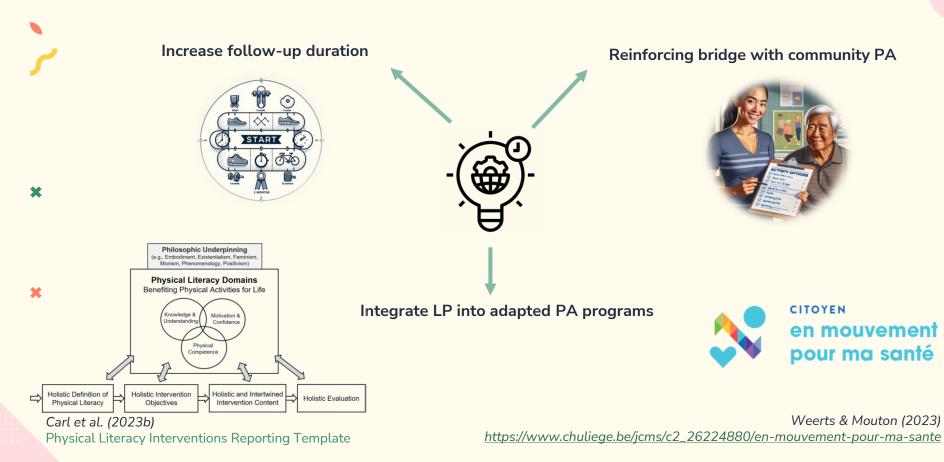


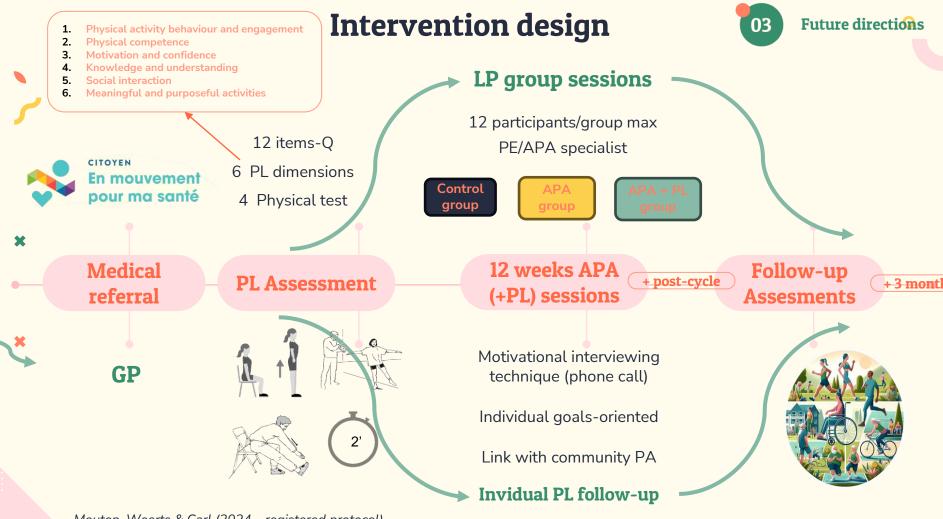
Qualitative follow-up of the project



Discussion & future directions

Future directions





Mouton, Weerts & Carl (2024 – registered protocol)

Future directions

03

PL-oriented APA sessions



Г	Session n°	PL domains	PL-oriented content focus				
	1	Pre-intervention	30 minutes of LP evaluation; group divided into two: 15 minutes of questionnaires for group 1 and 15 minutes of physical tests for group 2 and vice versa.				
		PL assessment	15 minutes of physical tests for group 2 and vice versa.				
	2-7	(1)+(2)	1. Raise awareness of current personal physical activity (PA) habits in playful form.				
			2. Encouragement to practice through the provision of monitoring tools (watches, pedometers,				
			home exercises, calendars) inviting participants to initiate the practice of PA outside the session.				
	3-8	(1)+(3)	1. Information and awareness about PA in and its dimensions (types, recommendations, benefits).				
			 Exchange on the physical environmental offer (park, trails, sport facilities, etc.) and social (sports group, association, etc.) of AP available at local level. 				
€	4-9	(1)+(4)	1. Experimentation of collective/cooperative exercising situations (pairs or groups).				
			2. Invitation to extend practice outside the sessions by involving the entourage; awareness of the participant's potential role as an PA initiator.				
			3. Invitation to practice between participants beyond the session cycle.				
-	5-10	(1)+(5)	1. Collective identification of key barriers to participant PA; valuing the progress of each.				
•			2. Role-playing, taking responsibility of the participants in the session to increase the perception of skills.				
_	6-11	(1)+(6)	1. Sensitisation of the participant towards PA who have meaning in his daily life.				
			2. Diversification of exercise modalities (music, groups, new formats) to solicit pleasure.				
			3. Autonomous choice of exercises and modalities by participants				
	12	Post-intervention	30 minutes of evaluation LP: Group divided into two: 15 minutes of questionnaires for group 1 and				
		PL assessment	15 minutes of physical tests for group 2, and vice versa.				

(1) Physical competence (2) Physical activity behaviour/engagement in physical activity (3) Knowledge/understanding (4) Motivation and confidence for physical activity (5) Environment interactions (6) Meaningful/purposeful activities



"Physical literacy is required as a foundation to an active population"...

Westerbeek & Eime, 2021

But there is still an avenue to explore its full potential in research and practice







Thank you for your attention

Exploring physical literacy in chronic disease participants:

HF

Development and effects of a pilot intervention

Prof. Alexandre Mouton

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URL Publications' list: http://orbi.ulg.ac.be/ph-search?uid=U205676

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Physical Literacy origins

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Early Childhood Primar Developing physical literacy through parental role modelling, physical education and active engagement with the world Sport policy focusing on retention retention Physical ٠ Psychological ٠ Cognitive Sport policy focusing on Modified sport offering Social Sport policy focusing Sedentary lifestyle

> Early life stage focus: fundamental movement skill development, frequent play and movement experiences that are fun as a preventative approach to physical inactivity and way into sport

Mid life stage focus: fundamental movement mastery and skill transition and maintenance ensuring a physically active lifestyle and opportunity to play sport

Active

lifestyle

50

Late life stage focus: fundamental movement skill maintenance and adaptation as a preventative and curative approach to physical inactivity and maintaining involvement in sport (clubs)

Inactive/mostly poor physical literacy

Active/good

= current physical

activity and sport

= future physical

sport participation

activity and

participation

100

physical literacy

Inconsistently active

Physical Activity and Sport Participation (PASP) framework

Elderly

nt

gem

eng

sport

uo

focusir

Sport policy

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Westerbeek & Eime (2021)



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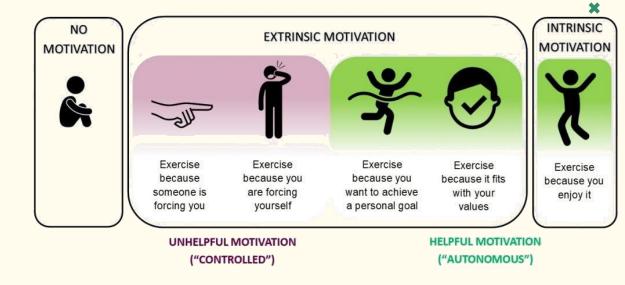
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Physical Literacy origins

Behavior change & Physical Activity...



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Self-Determination Theory for Physical Activity (Ryan & Deci, 2009)



Physical Literacy

Core

Focused on the inherent potential of all humans to learn through physical interaction with the environment

2 Constitution

Based on integrated development spanning the four of physical, psychological, cognitive, and social learning domains

3 Importance

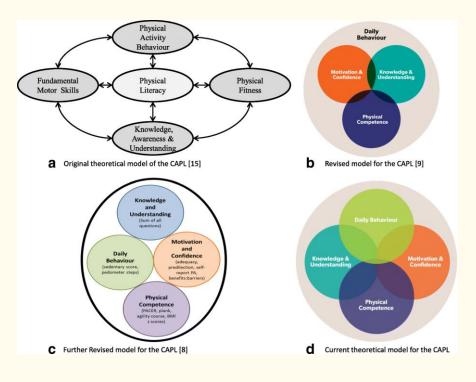
Helps a person to learn more about the world, become more capable, and ultimately pursue a range of fulfilling activities, as well as the known benefits to health associated with PA

4 Aspiration

Describe possible configurations, becomes self-perpetuating, such that the individual persists with PA, and/or reengages following interruptions such as injury, or significant life events

Future directions

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Evolution of CAPL Assessment of PL

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Future directions

Overall Physical Literacy 100 points Physical Competence Daily Behaviour 30 points 30 points Progressive Aerobic Average Daily Step Count Cardiovascular Endurance Run (PACER) (Pedometer) 25 points 10 points Canadian Agility and Self reported Number of Movement Skill Days a Week a Child Assessment (CAMSA) Engages in MVPA 5 points 10 points Plank 10 points Knowledge and Understanding Motivation and Confidence 10 points 30 points Q: Physical Activity (PA) Compréhension and Understanding (fill in Intrinsic Motivation blanks) (3 items) 6 points 7.5 points Q : Daily PA guidelines Competence 1 point (3 items) 7.5 points Q : Cardiorespiratory Fitness Definition Predilection 1 point (3 items) 7.5 points Q : Muscular Strength & Endurance Definition Adequacy 1 point (3 items) 7.5 points Q : Improve Sport Skill 1 point

X

X

CAPL-2 Assessment Scoring

Future directions

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Characteristi	ics of Physical Literacy Journeys	Unaware of or dismissing potential	Exploring potential	Developing potential	Consolidating potential	Maximising potential
	Motivated to participate in physical activity.	I seldom want to engage in physical activity	I am physically active because I enjoy it.	I participate in physical activity for the joy of it and because it is important to me.	I maintain being physically active because it is part of who I am and because I value it.	I am motivated to try new activities and challenge my capabilities.
Motivation	Sustained application and engagement. Motivated to apply oneself.	I do not apply myself fully when engaged in physical activity	I apply myself during physical activity.	I do not give up easily and keep going. I am persistent and resilient.	I sustain my engagment and involvement in regular physical activity.	I am determined to challenge my self in a range of environments.
	Motivated to take steps to include physical activity in life my pattern.	I take steps to avoid physical activity	Physical activity is included in my life pattern.	Physical activity forms a increasingly regular part of my life pattern.	Physical activity is a secure part of my life pattern.	I seek new ways to include physical activity in my life pattern
	Confident to engage.	I am not confident to take part in physical activity	Hook forward to taking part in physical activity.	I am confident that I can fulfil the tasks set and that others will support me.	I am certain that participation will be rewarding and enhance my self confidence.	I am confident that, with practice/effort I can fulfil the challenges set by myself and others.
Confidence	Self perception of abilitiy and belief that progress can be made.	I am not confident that I can make progress in physical actionity	I am confident that I can make progress in physical activity.	I am aware that I have made progress in some activities and confident that I am capable of making further progress.	I know I can have rewarding experiences in physical activities and this enhances my self esteem.	Exponentiate my movement ability and am confident that i ca enhance my expertise and learn from future challenging experiences.
	Confident to interact and engage with a range of environments.	Lam generally not at ease in physical activity environments	I am at ease engaging in physical activity in varied indoors and outdoors situations.	I look forward to new settings and activities in the confidence that I can engage effectively within these environments.	I am confident to explore a range of settings, more or less familiar to me, with the assurance that I can respond to the demands they make on me.	I relish new and challenging environments and set myself ambitious goats.
	Movement patterns that constitute the foundation of all movement/physical activity.	I have limited movement vocabulary related to physical activities	I am developing my movement vocabulary associated with a wide variety of physical activities.	I am developing general and refined movement patterns and linking them into sequences associated with a range of physical activities.	I continue to apply and adapt my movement patterns that form more complex sequences related to the physical activities in which I participate.	I am able to move effectively using specific movement patterns in one or more challenging physical activities.
Physical Competence	Movement within a wide range of environments both individually and with others.	I am seidom able to move effectively in movement environments	I am starting to engage a wide variety of physical activity environments both individally and with others.	I am succesfully engaging in physical activity in an increasing range of varied environments both individually and with others.	I continue to engage effectively and efficiently in a variety of physical activity environments both individually and with others.	I seek out opportunities to challenge myself in a range of physical activity environments invidually and/or with others
	Sensitive perception of and perceptive action in interaction with physical activity environments.	Lam not aware of movement requirements related to most physical activity environments	I am starting to develop my awareness of the movement requirements of varied physical activity environments.	I am becoming more aware of and sensitive to the demands presented by varied physical activity environments.	I show heightened semilitivity to and awareness of my physical competence when interacting perceptively in physical activity environments.	I am perceptive in appreciating all aspects of challenging physical activity environments, anticipating movement need or possibilities and responding appropriately to these with perception and imagination.
	X&U - Reflecting and improving performance.	I find it difficut to describe what I am doing well and where I need to improve	I can identify movements that I am working on and think about what I need to improve.	I can describe movements I that I am working on, suggesting where I am being successful, and targets that I could work towards.	I can evaluate movements that I am working on, identifying where I am being successful, setting realistic targets and devising ways in which I can work towards these targets.	I can analyse all aspects of movement that I am working on, describing my strengths and aspects that require improvement. I challenge myself by devising strategies through which I can reach targets.
Knowledge and Understanding	K & U - Planning, interacting and creativity.	I find it hard to work by myself or with others when I participate in physical activity	I can work individually and with others in planning and adapting movement sequences and physical activities, contributing ideas and listening to the views others.	Ican work individally and with others, in a range of settings, creating and refining movement sequences and physical activities, contributing ideas, listening to and respecting the views others.	I can work individually and with others in reflecting on, creating and refining movement sequences and hyricial activities. I contribute dean, listening to and respecting the views of others and play my part in different roles in competing and co-operating with others.	I work individually and with others, in challenging physical activity environments, creatively planning my own and other responsibilities in competitive and co-operative situations.
	K & U - Wellbeing and valuing physical activity.	I am not conviced of the importance of physical activity for my holistic health and well-being.	I understand that physical activity helps me to keep well so that I can enjoy life.	I understand that participating in physical activities will have a beneficial effect on my holistic health and provide opportunities for me to thrive in physical activity settings alone and/or with others in a variety of different environments.	I understand that participating in a range of physical activities, will have a positive impact on my holistic health, and enable me to maintain my quality of life.	Funderstand that participating in a range of physical activitie opens up a world of opportunity for challenging myed if the worthwhite experimence in a walk earling of acting is that will contribute to my holistic health as well as enhance my qualities of life.

Charting Physical Literacy Journey Tool

IPLA; https://www.physical-literacy.org.uk/library/charting-physical-literacy-journey-tool/

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Future directions

PHYSICAL LITERAC	Y FOR LIFE (IPLA September	2016)						
Stages of Physical Literacy Journey in relation to the Life course								
Pre-School	Early Years + Primary School	Secondary School	Young Adulthood	Adulthood	Older Age			
Developing, establishing, maintaining and/or challenging physical literacy								
Developing physical competence and the joy of movement fostered, supported and encouraged. Provision of regular purposeful guided play in a range of stimulating environments which encourage creativity, imagination and exploration along with the development of control and co- ordination of a range of movements. Healthy approach to physical exercise, sleep and diet.	Physical competence is developed alongside motivation, confidence and knowledge and understanding. Developing on awareness of the benefits of physical activity for holistic health.	Characteristics of physical literacy are established and contextualised in a range of physical activities and contexts. Enhancing awareness of the benefits of physical activity for holistic health.	Consolidation of characteristics of physical literacy, achieved by own motivation to participate in selected physical activities as part of life-style. Promotion of an understanding of the benefits of physical activity for holistic health.	Physical literacy maintained, contributing to successful and rewarding physical activity being a part of an individual's life-style. Continued interest in, and awareness of, the way physical competence can be beneficial in respect of quality of life, including aspects of health promotion. Opportunities taken to challenge oneself to try new activities and or aim for a higher level – may set more demanding goals for self Promotion and increasing awareness of the benefits of physical activity for holistic health.	Personal physical literacy journey modified with age. Continued appropriate activity. Increase of knowledge and understanding in relation to changing capacities, health in older age and the importance of an active life-style. Promotion of the continued importance of physical activity for holistic health.			
	Personnel influe	encing the attainment and	maintenance of Physical					
Parents, family, significant others								
health and community workers personnel, health and community workers. classes (coaches, sports development officers), health and community workers. Systems, situations, contexts where Physical literacy can be encouraged, established and maintained include:-								
Provision of high quality family, school physical education and community activities in a range of varied environments that encourage active participation, learning and access for all. Provision of regular purposeful guided play (for younger children) in a range of stimulating environments which encourage creativity, imagination and exploration along with the development of control and co-ordination of a range of movements. Provision of social and empathetic learning environments that allow for the development of positive attitudes, values and beliefs in relation to healthy active lifestyles. Provision of healthy social community environments that support travel, access to facilities, personal development and health care. Provision of community activities and facilities for sport and non-competitive physical activities that engage a wide range of people. Provision of a range of challenging and supportive environments that allow for the development of positive attitudes, values Provision of healthy social community activities in that support travel, access to facilities, personal development on healthy active lifestyles.								
Environments - Home, Nurseries, Pre-School Activity Clubs, School, Local Environment, Community clubs and teams, Day Care settings, local and national facilities, work environments and travel. Support - Qualified staff, supportive medical professions, employer and government policies and priorities. Communication – media, schools, health								
Methods that could be used to chart progress include:-								
Parental and health worker monitoring of physical, affective and cognitive development	monitoring of physical, affective monitoring and recording of monitoring and recording of conceptualise the lived experience of participation, performance and movement. Future targets and goals re:							

IPLA; https://www.physical-literacy.org.uk/library/charting-physical-literacy-journey-tool/

and knowledge and understanding

and knowledge and understanding

X

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