

Development of ‘Active Living’ The Sport and Physical Activity Strategy for Northern Ireland

**3rd ANNUAL I-PARC CONFERENCE
University College Dublin
January 2023**

**Kathryn Hill
Director of Active Communities, Department for
Communities**

Active Living

*More People, More Active, More
of the Time*

The Sport and Physical Activity Strategy for Northern Ireland

https://vimeo.com/690458298/3feaf5e511?embedded=true&source=video_title&owner=79538126

Broadening the strategic direction to include physical activity

“With physical activity we all need to remember that some is good, more is better, and being regularly active has not only proven benefits for physical health but also has real positive impacts on mental health and wellbeing. Being physically active is not just a health issue, it brings people together to enjoy shared activities and contributes to building strong communities whilst supporting the economy to grow”.

Professor Sir Michael McBride, Chief Medical Officer for Northern Ireland

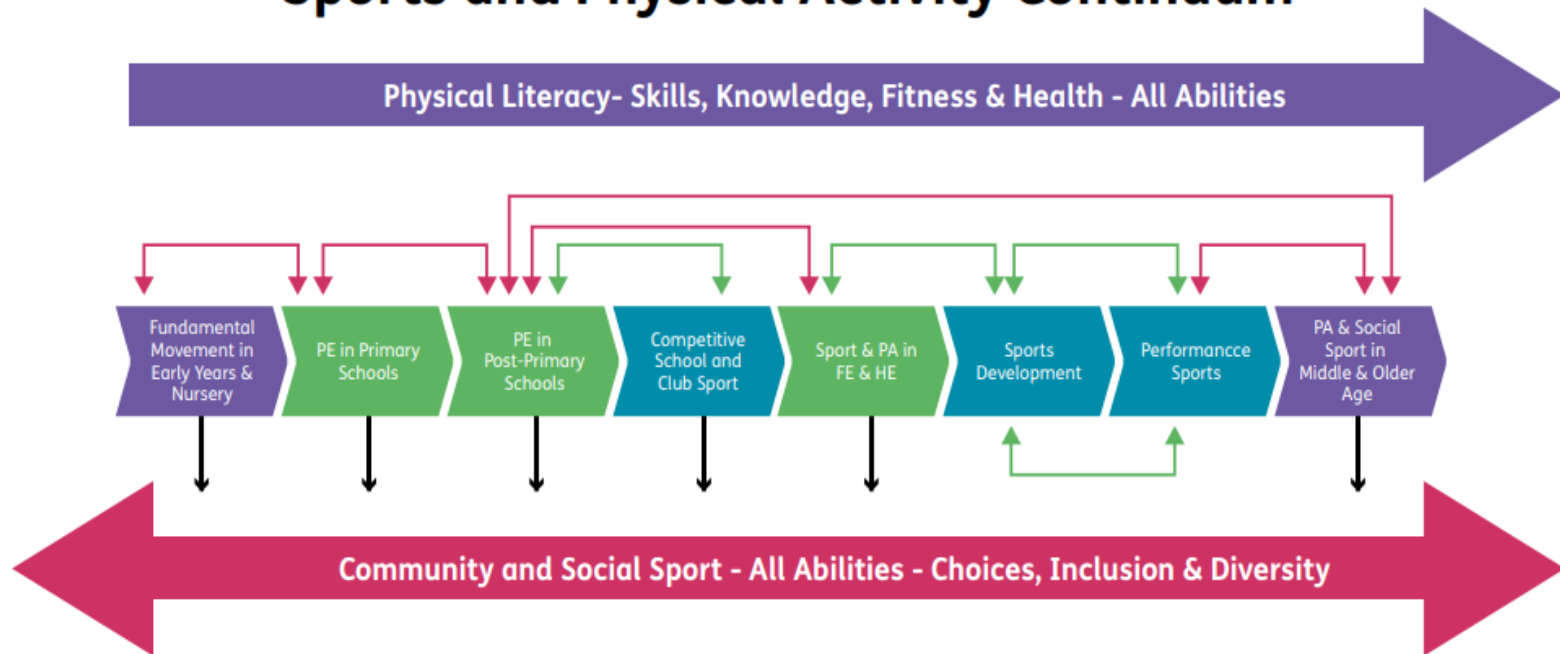
Broadening the strategic direction to include physical activity

“Physical activity reduces the risk of over 20 non-communicable diseases, improves mood and mental health and enhances cognitive function in children and adults. Being physically active through sport or in non-sport activities, increases community engagement, improves social cohesion and decreases loneliness and isolation. Increasing physical activity is indeed the ‘best buy’ we could make for public health and has enormous potential to bring significant returns for the individual and our society”.

Professor Marie Murphy, Ulster University

Sports and Physical Activity Continuum

Sports and Physical Activity Continuum



Our Co-Design Task

- **How do we make sport and physical activity relevant, fun and accessible to everybody at all stages of their lives?**
- **How do we ensure that people are heard, and that organisations and groups that contribute to the discussion have a stake in what needs to be done?**
- **How do we break down the barriers for those who consider sport and physical activity as inaccessible or not meeting their particular needs?**

In-depth Research Phase



Stakeholder Engagement



Methods Used

- Mix of e-surveys
- My Voice Surveys with youth
- Focus groups
- One to one Interviews
- Committee and one to one briefings

Section 75 Engagement Cohorts



129 formal e-survey responses

- ❑ 66 x e-survey responses from stakeholders (Cohorts 1 to 3, Sports bodies, Gov depts, Councils, teachers)
- ❑ 35 x e-survey responses from Section 75 groups (Cohort 4 & 5 – NGOs)
- ❑ 28 x e-survey responses from Youth Leaders

Youth

- ❑ 1 collective My Voice response from young people with 82 respondents

70+ Focus Groups

- ❑ 70+ x focus groups/ meetings to date with mixture of GBs, Non participants, S75 groups, Councils in clusters & other stakeholders

Participants

- ❑ 364 Consultees incl. 28 teachers from across NI to date of which 196 were non participants; 241 from S75 groups

Key messages from pre consultative engagement

- A remaining sense of exclusion from sport and physical activity amongst certain groups;
- Continued frustration at barriers to participation including costs, access issues and a lack of social inclusion;
- A recognition of the need to make best use of sporting assets that already exist, including school estates;
- That success going forward must come from greater cooperation between stakeholders;

Key messages from pre consultative engagement

- **Education is key;**
- **We need an appropriate balance between promoting greater levels of participation and on competitive excellence;**
- **Physical and mental wellbeing of the community as a benefit from sport and physical activity needs to be given greater weight; and**
- **Fundamentally, a new strategy should provide a vision for making more people, more active, more of the time.**

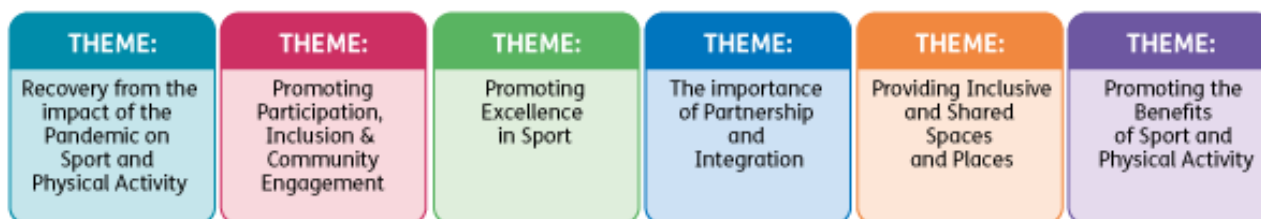
Sport and Physical Activity Framework

Programme for Government Outcomes and Indicators

PROPOSED VISION

‘Lifelong involvement in physical activity and sport leads to an active, healthy, resilient, and inclusive society which recognises and values both participation and excellence’

PROPOSED KEY THEMES



PROPOSED CROSS-CUTTING PRINCIPLES



DEPARTMENTAL CROSS - CUTTING THEMES



Lessons Learned

- **A need for clear definition of scope i.e. ‘Sport and Physical Activity’;**
- **The benefits of extensive pre-consultative engagement;**
- **Agreeing with key partners the potential issues to explore in the wider engagement phases;**
- **The need to provide feedback from any engagement or consultation process to respondents;**
- **Benefits of being able to access a range of skills and experience from Departmental and other colleagues;**

Lessons Learned

- **Understanding the lived experiences of respondents;**
- **The richness and vibrancy of engagement with children and young people groups;**
- **The added value of reaching those not usually engaged in sport and physical activity;**
- **The necessity of supportive working groups representative of key sectoral partners including academia; and**
- **Use of video and animation to communicate key messages to a wider audience including groups we have traditionally found “harder to reach”.**

Next Steps

- **Develop Strategic Delivery Action Plan**
- **Develop a Digital System to capture Delivery Data**
- **Establish the Monitoring and Reporting Structures**
- **Support and drive delivery of intended outcomes**

www.communities-ni.gov.uk/publications/active-living-sport-and-physical-activity-strategy-northern-ireland

Questions?

International Evidence Based Aquatic Therapy Guidelines for Parkinson's Disease

Dr. Louise Carroll

**Dr. Amanda Clifford, Prof. William O'Connor, Prof. Meg Morris,
Dr. Daniele Volpe, Dr. Jon Salsberg**





ACRM
AMERICAN CONGRESS OF
REHABILITATION MEDICINE

Archives of Physical Medicine and Rehabilitation
Journal homepage: www.archives-pmr.org
Archives of Physical Medicine and Rehabilitation 2017;98:631-8

ORIGINAL RESEARCH

Aquatic Exercise Therapy for People With Parkinson Disease: A Randomized Controlled Trial

Louise M. Carroll, MSc,^a Daniele Volpe, MD,^b Meg E. Morris, PhD,^c Jean Saunders, PhD,^d Amanda M. Clifford, PhD^e



Clinical background & experience

Background

Parkinson's disease

- 12,000 people in Ireland and >6 million people worldwide
- Movement disorder characterised by motor/ non-motor symptoms effecting movement, function, mental status & social engagement
 - ↑ sedentary behaviour
 - ↓ physical activity levels
 - ↓ community participation

Need to explore ways to engage people with PD in effective and enjoyable exercise programs

Background

Parkinson's exercise recommendations

➤ 150 minutes of moderate to vigorous exercise per week is recommended (Parkinson's Foundation 2021)

- Aerobic activity
- Strength training
- Balance, agility and multitasking
- Stretching

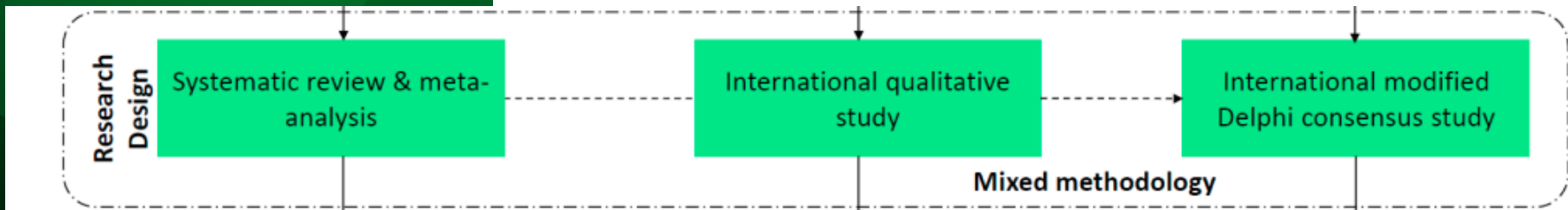
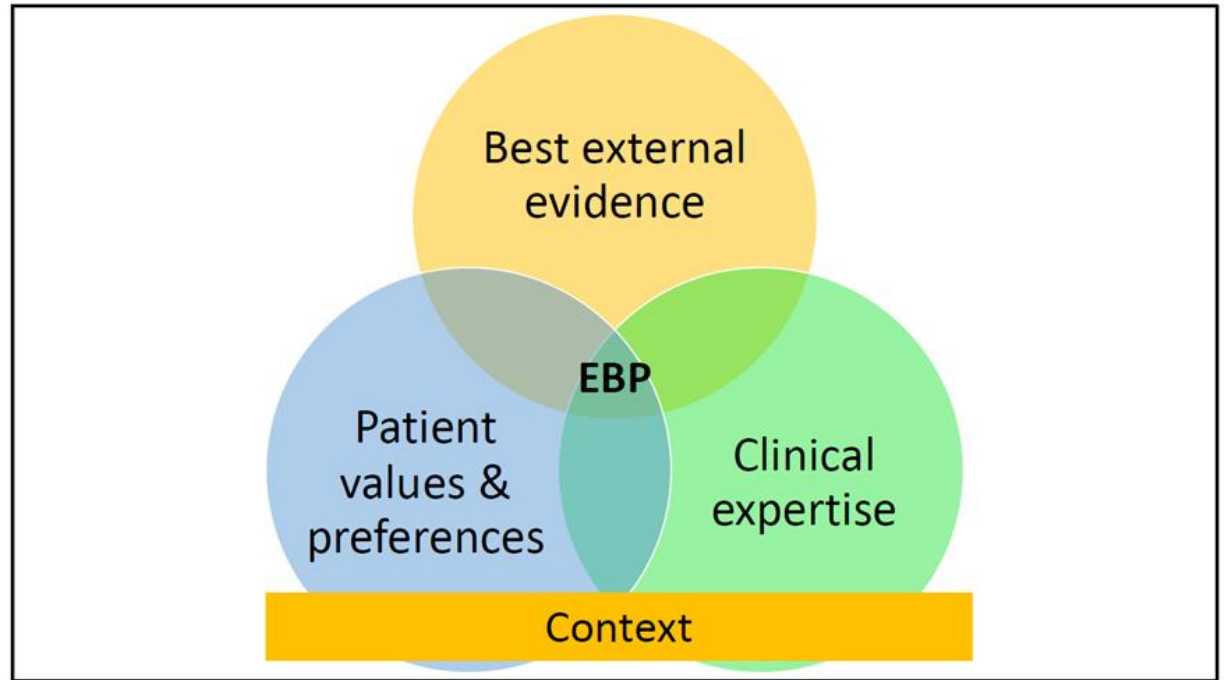
➤ Aquatic therapy “water-based exercises” is emerging as a popular medium for people with PD to engage in exercise.

➤ Challenge for healthcare practitioners:

- Choosing activities to keep people with PD motivated so that they can continue to exercise throughout disease course



Evidence-based practice framework



Systematic review & meta-analysis

Key findings

- Optimal dosage and intensity unclear.
- Exercise prescription was highly variable and often insufficiently dosed
 - E.g., Therapy duration was low, ranging from 3-11 weeks.
- Evidence from low to moderate quality trials suggests that AT is as effective as land-based exercise interventions for:
 - Balance
 - Motor disability
 - Quality of life
 - Mobility

Not enough evidence to inform the development of evidence-based aquatic therapy guidelines

Findings from 14 RCTs



ORIGINAL ARTICLE



Community aquatic therapy for Parkinson's disease: an international qualitative study

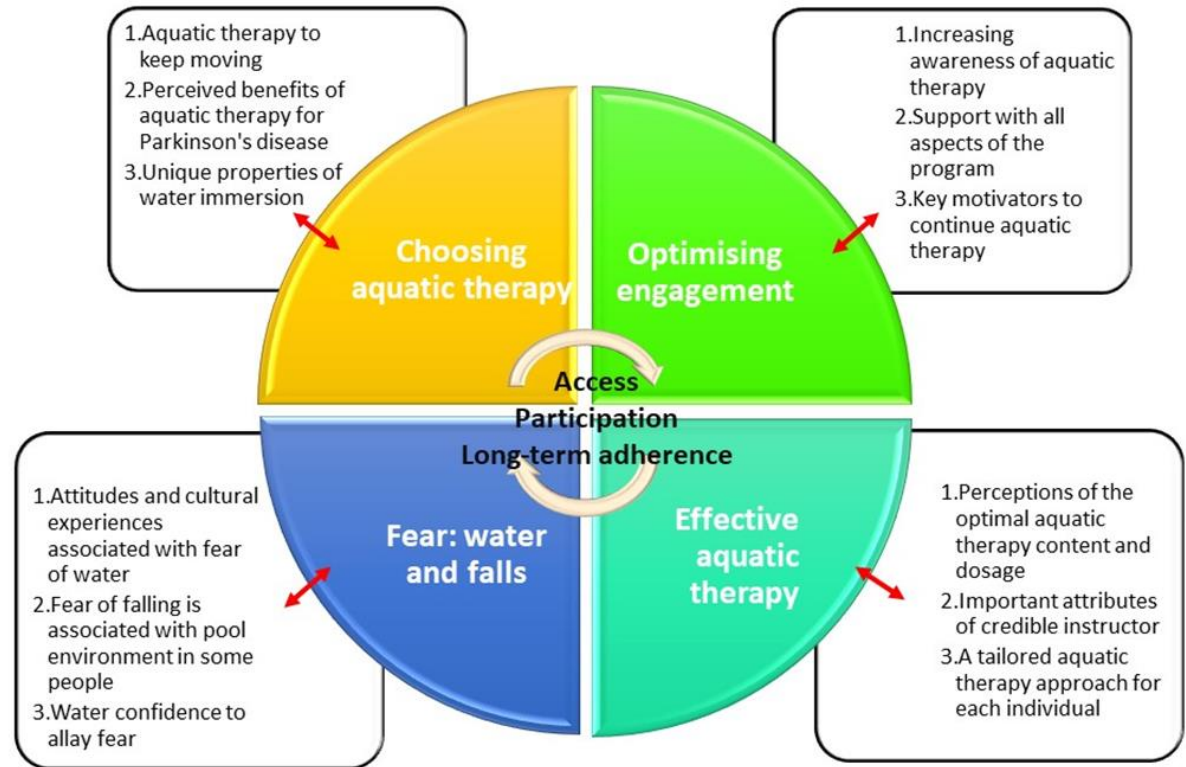
Louise M. Carroll^a , Meg. E. Morris^{b,c,d}, William T. O'Connor^e and Amanda M. Clifford^f

Qualitative study:

1. Focus groups (n=4)
2. Interviews (n=9)
3. Sample: n=34
 - Previous AT experience (n=16)
 - No AT experience (n=18)
4. Ireland and Australia



Four main themes



1. To generate a list of consensus statements
2. To establish evidence-based aquatic therapy guidelines

Research Report

Evidence-Based Aquatic Therapy Guidelines for Parkinson's Disease: An International Consensus Study

Louise M. Carroll^a, Meg. E. Morris^{b,c}, William T. O'Connor^d, Daniele Volpe^e,
Jon Salsberg^{d,f} and Amanda M. Clifford^{a,*}

^a*School of Allied Health, Faculty of Education and Health Sciences, Aging Research Centre, Health Research Institute, University of Limerick, Limerick, Ireland*

^b*Victorian Rehabilitation Centre, Healthscope; ARCH, College Science, Health and Engineering, La Trobe University, Bundoora, Australia*

^c*College of Healthcare Sciences, James Cook University, Queensland, Australia*

^d*University of Limerick School of Medicine, Faculty of Education and Health Sciences, Limerick, Ireland*

^e*Fresco Parkinson Institute Centre of Excellence, "Villa Margherita", Vicenza, Italy*

^f*Health Research Institute, University of Limerick, Limerick, Ireland*

Accepted 22 October 2021
Pre-press 22 November 2021

International Consensus Study

Guideline development

- Initial list of 43 statements
- Parkinson's panel (n=4)
- 3-step modified Delphi process:
 - 2-rounds of Delphi questionnaires (n=45)
 - Online consensus meeting (n=10)

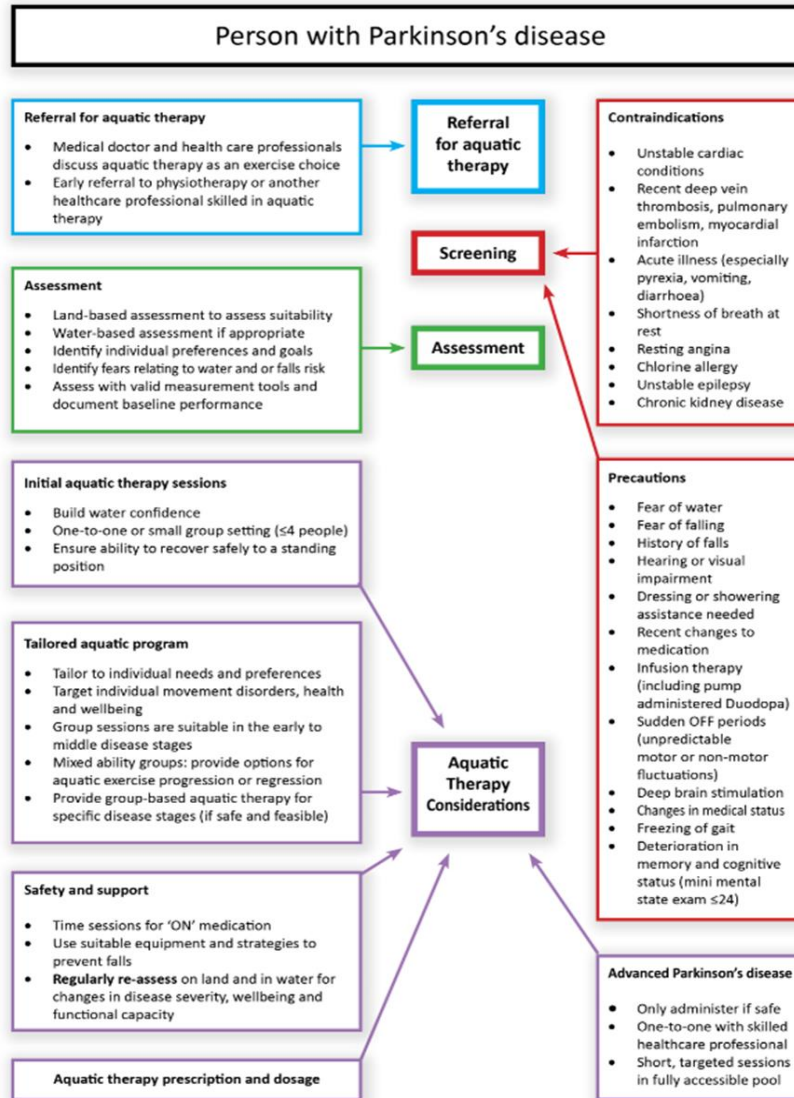


Results: 48 statements met consensus

1. Aquatic therapy delivery
2. Location & pool environment
3. Safety and supports
4. Tailored aquatic program
5. Dosage: frequency of aquatic therapy
6. Dosage: intensity of aquatic therapy
7. Dosage: duration of aquatic therapy
8. Aquatic therapy elements

Finding

S



Key exercise prescription and dosage recommendations for aquatic therapy

A person-centred approach is recommended.

Design and tailor aquatic programs to individual needs, goals, preferences, medication and the stage of disease.

How often? (Frequency)

Rehabilitation/ hospital setting:

2-5 times per week as part of an overall therapy program.

Community-based setting:

At least **twice per week** as part of an overall exercise and physical activity program.

OR

At least **once per week** together with a targeted home exercise program.

How hard? (Intensity)

In the warm-up and cool down phase include low intensity activities.

In the active phase aim for **moderate to high intensity** aquatic exercises including: progressing aquatic exercises by gradually increasing the quality, time, speed, resistance and number of repetitions and sets.

How much? (Duration)

30-60-minutes are recommended.

At least **12-weeks** of aquatic therapy is recommended for optimal outcomes.

Continuous participation in community aquatic therapy is recommended if possible.

What elements? (Type)

Mobility

Balance & Posture

Muscle strengthening

Speed
Co-ordination
Motor skills

Water-based
walking & gait
training

Flexibility

Quality of life & emotional wellbeing

Cardiorespiratory fitness

Pain management

Exercise prescription & dosage recommendations

- Person-centred approach
- Individually tailored

1. Frequency:

1. Twice weekly
2. Once per week with home exercise program

2. Intensity:

1. Moderate to high intensity (active phase)

3. Duration

1. 30-60 minutes
2. 12-weeks
3. Continuous participation

6. Type...



AQUATIC THERAPY GUIDELINES

For people with Parkinson's disease

A person-centred approach is recommended.
Design and tailor aquatic programs to individual needs, goals, preferences, co-morbidities, medication and the stage of disease.

FREQUENCY: HOW OFTEN?

Community-based setting:
At least **twice per week** as part of an overall exercise and physical activity program
OR
At least **once per week** together with a targeted home exercise program

Rehabilitation/ hospital setting:
2-5 times per week as part of an overall therapy program

INTENSITY: HOW HARD?

In the warm-up and cool down phase include low intensity activities.

In the active phase aim for **moderate to high intensity** aquatic exercises including:
progressing aquatic exercises by gradually increasing the quality, time, speed, resistance and number of repetitions and sets.

DURATION: HOW MUCH?

30-60 minutes are recommended.

At least **12-weeks** of aquatic therapy is recommended for optimal outcomes.

Continuous participation in community aquatic therapy is recommended if possible.

TYPE: WHAT ELEMENTS?

- Mobility
- Balance and posture
- Muscle strength
- Speed, co-ordination and motor skills
- Water-based walking & gait training
- Flexibility
- Quality of life and emotional wellbeing
- Cardiorespiratory fitness
- Pain management

Guideline Infographic



PERSON WITH PARKINSON'S DISEASE

- 1 Referral for aquatic therapy**
 - Aquatic therapy is one exercise therapy choice.
 - Early referral to a physiotherapist or healthcare professional skilled in aquatic therapy is recommended.
- 2 Assessment**
 - Land-based screening & assessment to assess suitability.
 - Identify individual preferences & goals.
 - Identify fears relating to water or falls risk.
 - Use valid measurement tools & document baseline values
- 3 Safety & support**
 - Establish if dressing & showering support is required.
 - Time sessions for 'ON' medication.
 - Use suitable equipment & strategies to prevent falls.
 - Regularly re-assess on land & in water for changes in disease severity, well-being & functional capacity.
- 4 Location & pool environment**
 - Facilitate access to aquatic therapy in the local community.
 - Thermoneutral water temperatures (33.5°C-35.5°C) ideal but not always applicable.
 - Consider pool accessibility based on person's mobility, & ensure safe pool entry & exits.
- 5 Initial aquatic therapy**
 - Build water confidence.
 - One-to-one or small group setting (4 people)
 - Ensure ability to recover safely to a standing position.
- 6 Aquatic therapy considerations**
 - Tailor to individual needs & preferences.
 - Target individual movement disorders, health & wellbeing.
 - Group sessions are suitable in the early to middle disease stages.
 - Mixed ability groups: provide options for aquatic exercise progression or regression.
 - Provide group-based aquatic therapy for specific disease stages (if safe & feasible).
- 7 Advanced Parkinson's disease**
 - Only administer if safe.
 - One-to-one with skilled healthcare professional.
 - Short, targeted sessions in a fully accessible pool.

Research findings: Clinical Implications

1. Aquatic therapy is a valuable exercise approach for PD
2. Demonstrate comparable effects to some land-based interventions
3. Identified barriers and motivating factors can be considered by professionals when designing community based aquatic classes.
4. Evidence-based practice guidelines provide key information about optimal delivery, safety, dosage, content of aquatic therapy for PD.
 - International applicability

Acknowledgements

1. Supervisors:

- Dr. Amanda Clifford, School of Allied Health, University of Limerick
- Professor William O'Connor, University of Limerick School of Medicine
- Professor Meg Morris, La Trobe University, Melbourne, Australia.

2. School of Allied Health UL

3. Broader community

- Study participants, Experts, Clinicians, Researchers
- Parkinson's panel
- Members of the Midwest branch of the Parkinson's Association of Ireland

Thank you!
I-PARC organisers



University of Limerick,
Limerick, V94 T9PX,
Ireland.

Ollscoil Luimnigh,
Luimneach,
V94 T9PX, Éire.
+353 (0) 61 202020

ul.ie

2022 Ireland North and South Report Card on Physical Activity for Children and Adolescents

Dr Angela Carlin
Chair, Research Working Group



@AngelaCarlin7
@activehealthyk1

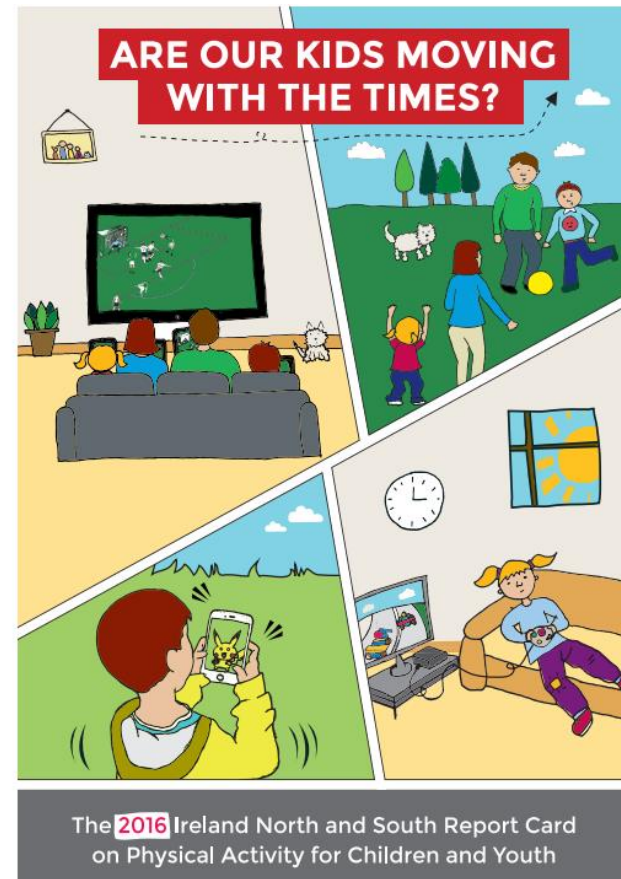




BACKGROUND

The Ireland North and South Report Card on Physical Activity for Children and Adolescents is produced as part of the Active Healthy Kids Global Alliance (AHKGA).

Established in 2014, this global alliance brings researchers, health professionals and other stakeholders together to advance physical activity (PA) in children and young people, with a view to creating a world of active healthy kids.





Global Matrix 4.0 on physical activity for children and adolescents

What is the Global Matrix 4.0?



Purpose

To learn more about the state of physical activity of children around the world and how to improve it.

How?

For each participating country, a team of experts prepared a **Report Card on physical activity for children and adolescents** following a standardized development process to compile the best available evidence and grade (from A+ to F) 10 common physical activity indicators. This initiative allowed researchers to perform **global comparisons**.

10 Physical Activity Indicators

- Overall Physical Activity
- Organized Sport and Physical Activity
- Active Play
- Active Transportation
- Sedentary Behaviours
- Physical Fitness
- Family and Peers
- School
- Community and Environment
- Government

57 Participating Countries

- Africa & the Middle East (n = 7)
- Anglosphere (n = 10)
- Asia-Pacific (n = 13)
- Europe (n = 21)
- Latin America (n = 6)



Involving **682** physical activity leaders & experts



ACTIVE HEALTHY KIDS
GLOBAL ALLIANCE

1

INDICATORS

Ten physical activity indicators were selected for inclusion in Global Matrix 4.0 by the AHKGA

2

AVAILABLE DATA

Potential data sources for each indicator were identified. Relevant data were extracted and collated

3

GRADING

Provisional grade based on factors including sample size, methodology and inequalities in the data

4

STAKEHOLDERS

Proposed grades and accompanying rationale were circulated to stakeholder agencies for consultation

1

INDICATORS

Overall Physical
Activity

Organised Sport
& Physical
Activity

Sedentary
Behaviours

Active Play

Physical Fitness

Community &
Environment

Active
Transportation

Family & Peers

School

Government

1

INDICATORS

Overall Physical
Activity

Organised Sport
& Physical
Activity

Sedentary
Behaviours

Active Play

Physical Fitness

Community &
Environment

Active
Transportation

Family & Peers

School

Government

1

INDICATORS

Overall Physical
Activity

Organised Sport
& Physical
Activity

Sedentary
Behaviours

Active Play

Physical Fitness

Community &
Environment

Active
Transportation

Family & Peers

School

Government

Physical
Education



1

INDICATORS

Ten physical activity indicators were selected for inclusion in Global Matrix 4.0 by the AHKGA

2

AVAILABLE DATA

Potential data sources for each indicator were identified. Relevant data were extracted and collated

3

GRADING

Provisional grade based on factors including sample size, methodology and inequalities in the data

4

STAKEHOLDERS

Proposed grades and accompanying rationale were circulated to stakeholder agencies for consultation

2

AVAILABLE DATA

Young Persons' Behaviour and Attitude Survey (YPBAS)

UK Millennium Cohort Study

Continuous Household Survey

Health Behaviour of School-aged Children (HBSC)

Growing up in Ireland (GUI) Cohort '08 and Cohort '98

Children's Sport Participation and Physical Activity Study (CSPPA) 2018

Every Minute Counts

2

AVAILABLE DATA

**CHILDREN AND
ADOLESCENTS WITH
DISABILITIES**



2

AVAILABLE DATA

- Data obtained since the implementation of COVID-19 public health measures began in March 2020 were not included in the grading of indicators for this Report Card.
- Early evidence suggests that the restrictions introduced in an effort to control the spread of COVID-19 have negatively impacted children's PA.
- The impact of the COVID-19 pandemic on indicators relating to children and young peoples' PA will be considered in our next Report Card, when we have a greater availability of robust data.

1

INDICATORS

Ten physical activity indicators were selected for inclusion in Global Matrix 4.0 by the AHKGA

2

AVAILABLE DATA

Potential data sources for each indicator were identified. Relevant data were extracted and collated

3

GRADING

Provisional grade based on factors including sample size, methodology and inequalities in the data

4

STAKEHOLDERS

Proposed grades and accompanying rationale were circulated to stakeholder agencies for consultation

3

GRADING



**Overall physical
activity**

3

GRADING



The % of children and adolescents who meet the Global Recommendations on PA for Health, which recommend that children and adolescents accumulate at least 60 min of MVPA per day **on average**

OR

The % of children and adolescents meeting the guidelines on at least four days a week (when an average cannot be estimated)

3

GRADING

Awarded (A-F (including '+' or '-') or 'Incomplete' (INC) as per the standardised, international grading system





1

INDICATORS

Ten physical activity indicators were selected for inclusion in Global Matrix 4.0 by the AHKGA

2

AVAILABLE DATA

Potential data sources for each indicator were identified. Relevant data were extracted and collated

3

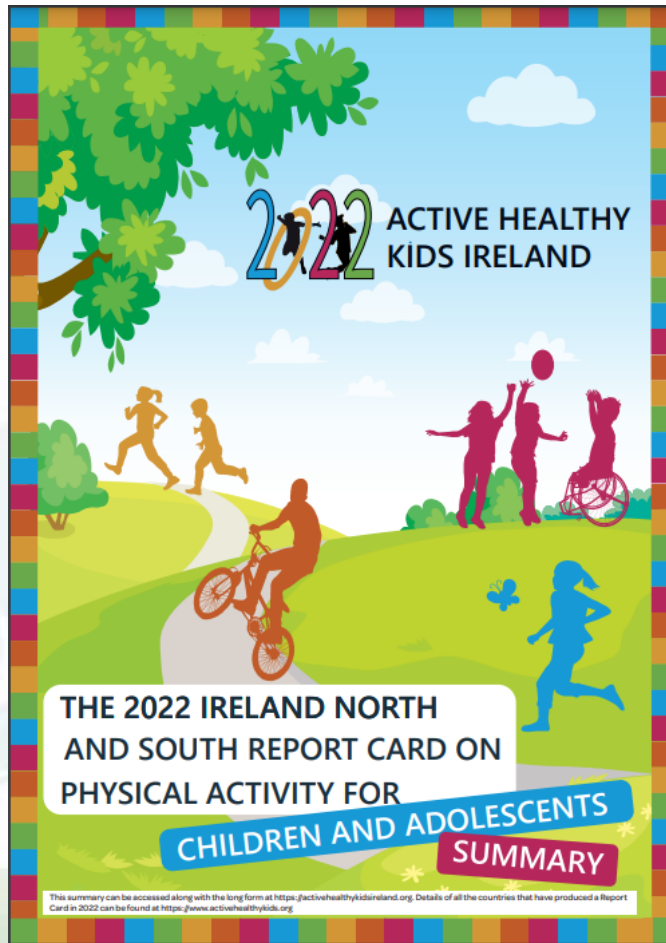
GRADING

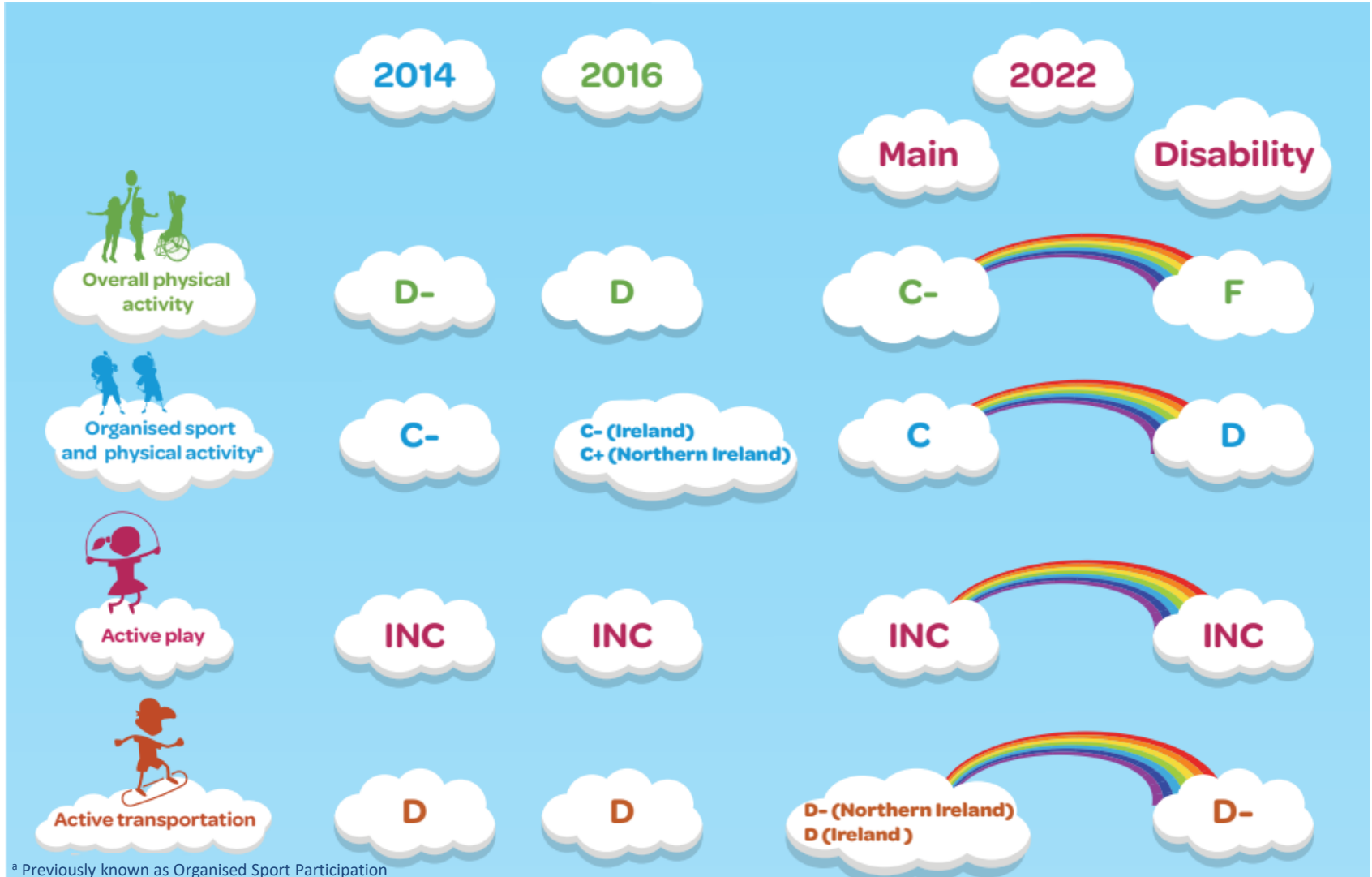
Provisional grade based on factors including sample size, methodology and inequalities in the data

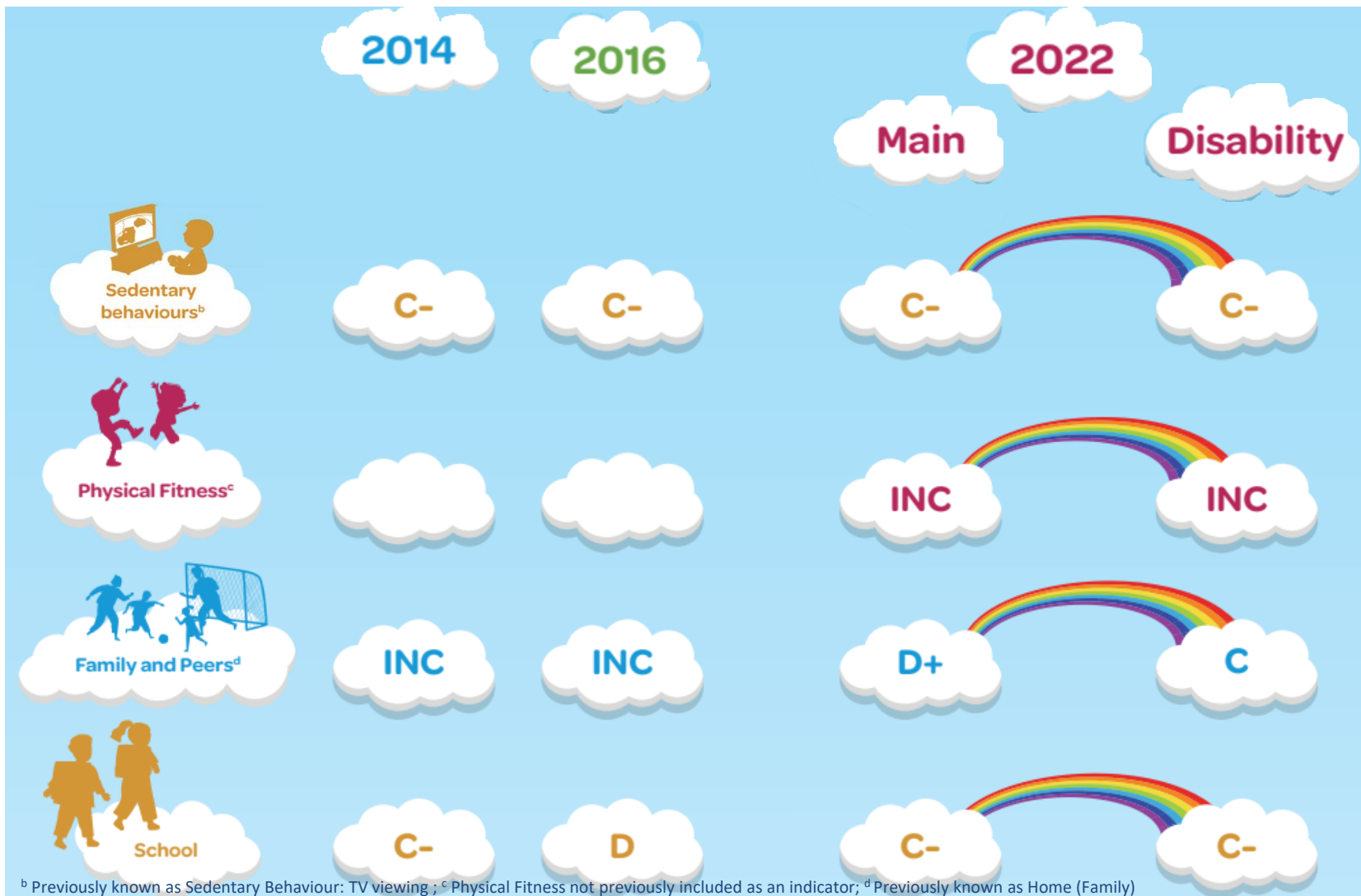
4

STAKEHOLDERS

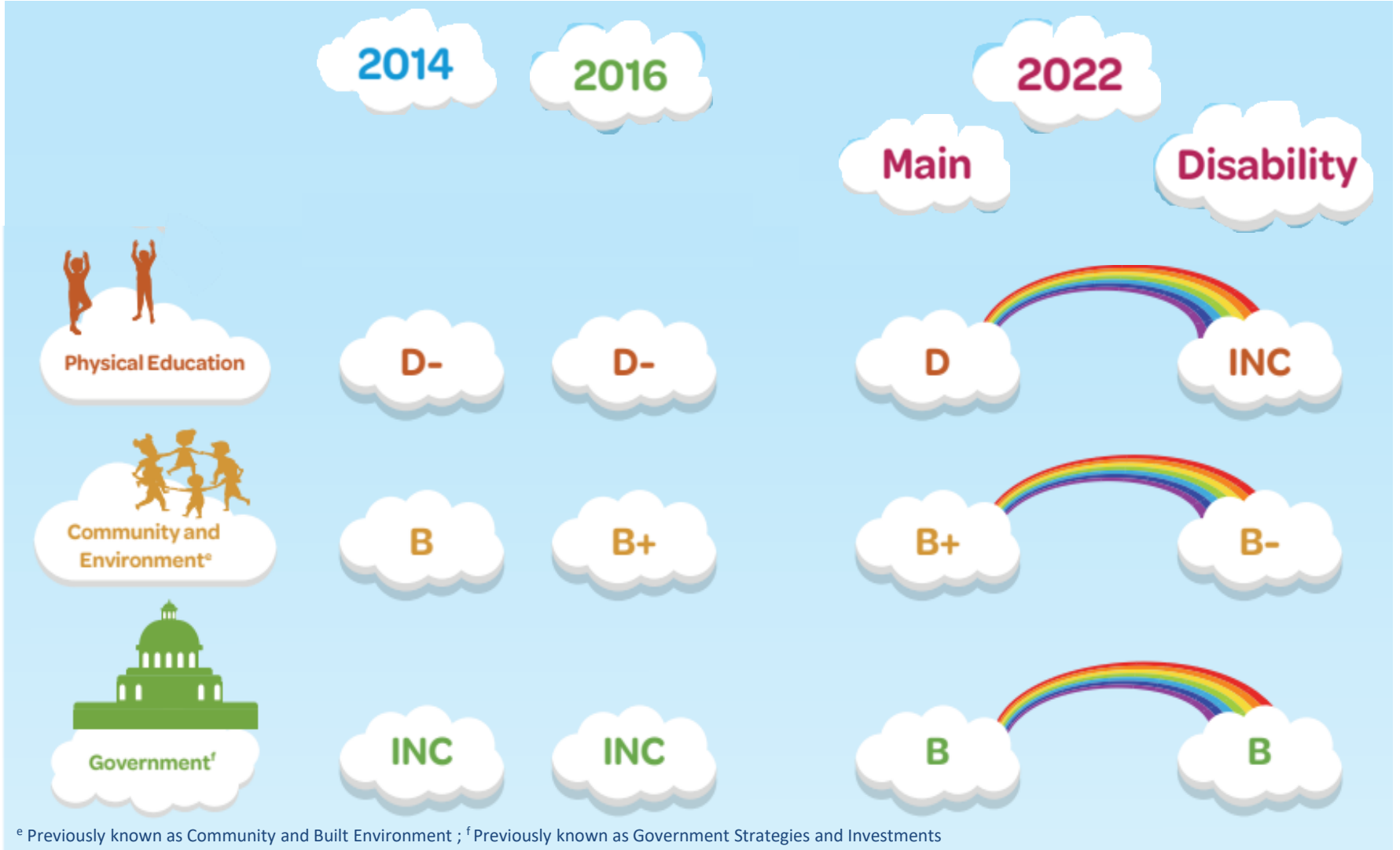
Proposed grades and accompanying rationale were circulated to stakeholder agencies for consultation







^b Previously known as Sedentary Behaviour: TV viewing ; ^c Physical Fitness not previously included as an indicator ; ^d Previously known as Home (Family)



^e Previously known as Community and Built Environment ; ^f Previously known as Government Strategies and Investments

OVERALL PHYSICAL ACTIVITY

- Differences in PA patterns observed by gender with more males meeting the guidelines than females
- There were also differences in age and socioeconomic status (SES)
- Inconsistencies in how PA is measured in self-report surveys, and limited device measured data
- Benchmark does not consider all aspects of the PA guidelines



OVERALL PHYSICAL ACTIVITY



- There were four data sources with data that included sub-samples of children and adolescents with disabilities that reported the % of children who took part in at least 60 minutes of MVPA daily.
- These sources and the respective percentages for the 'Overall Physical Activity' indicator included the CSPPA (13%), HBSC (22%), GUI Child Wave 3 (14%) and GUI Infant Wave 5 (23%) studies

SEDENTARY BEHAVIOURS

- There is an age-related increase in screen time, with fewer secondary school children meeting the guideline of < 2 hours per day
- There is a clear distinction in screen time accumulated on weekdays versus weekend days, this is consistently shown across data
- In the CSPPA study, 44% of children with disabilities met the screen time guideline of < 120 minutes/day.



ACTIVE PLAY

- For this Report Card, all data considered for the grading of the Active Play indicator used indirect, subjective, self-reported data - possibility of misreporting
- Current evidence is constrained by the lack of an internationally agreed definition of Active Play, which directly impacts the development of standardised measurements for Active Play throughout childhood
- There is a lack of evidence using direct and device-based measures of active play



GOVERNMENT

- Grade was determined using the Health-Enhancing PA Policy Audit Tool (HEPA PAT v2) - all government policies in both Ireland and Northern Ireland
- Development of policies with specific actions - these emerge within and are implemented across most government departments in Ireland and Northern Ireland and represent a broad range of sectors.
- Cross-government and interdepartmental working are key themes in the delivery of many policies





Institute of Public Health
@publichealthie

To see how Ireland and Northern Ireland compared to the rest of the UK read this new [#blog](#) from IPH Public Health Development Officer Lauren Rodriguez [@Lauren_Andrea12](#) >>> publichealth.ie/blog-active-he...

Table 1: Summary of Ireland / Northern Ireland, Wales and Scotland Report Cards on Physical Activity for Children and Adolescents (2021/ 2022)

Indicator	Ireland: North & South (2022)	Wales (2021)	Scotland (2021)
Overall Physical Activity	C-	F	Inconclusive
Organised Sport and PA	C- (Ireland) C (Northern Ireland)	C	B-
Active Play	Inconclusive	C+	Inconclusive
Active Transportation	D	C-	C-
Sedentary Behaviours	C-	F	F
Physical Fitness	Inconclusive	C-	Inconclusive
Family and Peer Influence	D+	D+	D-
School	C-	B-	
Community and the Built Environment	B+	C	B-
National Government and Policy	B	C	C (Physical Activity) C- (Diet)
Physical Literacy *		C-	
Diet			Inconclusive
Obesity			Inconclusive

CONCLUSIONS

- The Report Card has shown we are making progress - small, positive trends observed across a number of indicators, including **'Overall Physical Activity'**, **'School'** and **'Physical Education'**, and the availability of new data sources which have collated data on an all-island basis.
- Modifications to the benchmarks since our last Report Cards has had an impact and while grades may have changed as a result, the proportion of children and adolescents who are succeeding in relation to certain indicators has remained relatively unaltered.

Recommendations



Continue to develop policy measures that address inequalities highlighted in the report across a range of determinants including disability, gender, socioeconomic status, and age impact on children and adolescent PA levels.



Continue to progress the development of a framework for the systematic surveillance of indicators related to PA for children and adolescents with disabilities. These include greater representation, and consistency of measurement tools in policy.



Prioritise research specifically designed to measure levels of activity in children and adolescents with disabilities.



Address persistent gaps in data availability in relation to a number of indicators, for example, 'Active Play' and for some sub-groups of children and adolescents, for example, data in younger children.



Increase the use of objective measures across the indicators to help overcome a reliance on self-reported data in relation to PA.



Future report cards will need to consider the impact of COVID-19 public health measures on PA as data from March 2020 were not included in the grading of this Report Card. The impact of the COVID-19 pandemic on indicators will need to feature in subsequent Report Cards, when more robust data is available.

2022 Ireland North and South Report Card on Physical Activity for Children and Adolescents

Produced as part of the
Active Healthy Kids Global Alliance (AHKGA)

[Download the Report Card](#)



<https://activehealthykidsireland.org/>



GLOBAL MATRIX 4.0

Released on October 24, 2022, the Global Matrix 4.0 is the most comprehensive assessment of global variation in child and adolescent physical activity.

ACKNOWLEDGEMENTS



SPÓRT ÉIREANN
SPORT IRELAND

Research Working

Group

Sarahjane Belton

Sinead Connolly

Tara Coppinger

Conor Cunningham

Alan Donnelly

Kieran Dowd

Deirdre Harrington

Helen McAvoy

Elaine Murtagh

Kwok Ng

Tamsyn Redpath

Lauren Rodriguez

Catherine Woods

**Marie H.
Murphy**

Disability sub-group

Dr Sean Healy

Louise O'Connor

Stakeholders

Global Matrix

Dr Mark Tremblay

Iryna Demchenko

Active Healthy Kids
Global Alliance team

