



Symposium

Striving for global equity in physical activity: insights from the Active Healthy Kids Global Alliance



Dr Salomé Aubert



Dr Mark Tremblay



Dr Taru Manyanga



Dr Diego Augusto Santo Silva



Purpose



To explore the Active Healthy Kids Global Alliance's evolving strategies in global physical activity surveillance and promotion for children and adolescents, emphasizing its actions for the integration of justice, equity, diversity, inclusion, and sustainability in its future endeavors.

Outline



Presentation 1 by Dr Mark Tremblay

Title: Active Healthy Kids Global Alliance Global Matrix: History, Activities, and Impact

Presentation 2 by Dr Taru Manyanga Title: Active Healthy Kids Global Alliance's drive to promote equity, diversity, inclusion in opportunities for child physical activity: where we are and where we are going.

Presentation 3 by Dr Diego Silva Title: Physical Activity Report Card Indicators and the United Nations Sustainable Development Goals: Insights from Global Matrix 4.0



Active Healthy Kids Global Alliance History, Activities, and Impact

Mark Tremblay, Ph.D., D.Litt. (hons), FCSEP, FACSM, FCAHS, CSEP-CEP
Senior Scientist, Children's Hospital of Eastern Ontario Research Institute
Professor, Department of Pediatrics, University of Ottawa
President, Active Healthy Kids Global Alliance
Chair, Sedentary Behaviour Research Network
President, Outdoor Play Canada

AHKGA: Who we are? What we do?

- Active Healthy Kids Global Alliance (AHKGA) is a registered not-for-profit organization made up of researchers, health professionals, and stakeholders who work together to advance physical activity in children and adolescents around the world
- AHKGA's vision is a world of active healthy kids
- AHKGA's mission is to power the global movement to get kids moving through thought leadership, knowledge translation and mobilization, capacity building, and advocacy
- The dominant effort of the AHKGA to date has been its Global Matrix initiative



www.activehealthykids.org

Historical timeline



2005

Due to growing concerns of physical inactivity among kids in Canada, the first Report Card on Physical Activity for Children and Youth was released by the not-for-profit organization Active Healthy Kids Canada.

2014

2018

Toronto, Canada - Active Healthy Kids Canada organized the Global Summit on the Physical Activity of Children.

At the Global Summit 15 countries simultaneously released their respective country-specific Report Cards on Physical Activity for Children and Youth. Together this created the Global Matrix 1.0.

Due to the success of the Global Summit, the AHKGA was established.





District A. Some into the S

2016

Bangkok, Thailand - The Global Matrix 2.0 was released on November 26th 2016 featuring participation from 38 countries.

May 25th, 2018 - AHKGA officially became incorporated as a not-for-profit



Adelaide, Australia - The Global Matrix 3.0 was released at the Movement To Move event on November 27th 2018 featuring data from 49 countries.

GLOBAL MATRIX 4.0

2022

Abu Dhabi, United Arab Emirates - The Global Matrix 4.0 was released at the ISPAH 2022 Congress on October 24th 2022 featuring data from 57 countries from six continents.

Report Card Framework and Process

- The Report Card assigns letter grades to different indicators grouped into categories
- Grades are based on a synthesis and examination of current data against a benchmark
- Where available includes an assessment of trends over time and the presence of disparities
- Together the indicators provide a robust and comprehensive assessment of physical activity of children and youth



Country Report Card Leadership Committee

- National in scope
- Cross-sectoral representation
- Unbiased
- Transparent
- Participatory
- Consensus driven
- Harmonization with AHKGA



Common Indicators in Global Matrix 4.0

- Five behaviours
 - Overall physical activity
 - Organized sport and physical activity
 - Active play
 - Active transportation
 - Sedentary behaviour
- One personal characteristic
 - Physical Fitness
- Four settings and sources of influence
 - Family and peers
 - School
 - Community and environment
 - Government



Benchmarks

Overall Physical	Any bodily movement produced by skeletal	% of children and youth who meet the Global
Activity	muscles that requires energy expenditure.	Recommendations on Physical Activity for Health, which recommend that children and youth accumulate at least 60 minutes of moderate- to vigorous-intensity physical activity per day on average. Or % of children and adolescents meeting the guidelines on at least 4 d/wk (when an average cannot be estimated).
Organized Sport and Physical Activity	A subset of physical activity that is structured, goal-oriented, competitive and contestbased.	% of children and youth who participate in organized sport and/or physical activity programs.











Grading Framework

Grade	Interpretation	Corresponding number for analysis
A+	94%-100%	15
A	We are succeeding with a large majority of children and youth (87%-93%)	14
A-	80%-86%	13
B+	74%-79%	12
В	We are succeeding with well over half of children and youth (67%-73%)	11
В-	60%-66%	10
C+	54%-59%	9
C	We are succeeding with about half of children and youth (47%-53%)	8
C-	40%-46%	7
D+	34%-39%	6
D	We are succeeding with less than half but some children and youth (27%-33%)	5
D-	20%–26%	4
F	We are succeeding with very few children and youth (<20%)	2
INC	Incomplete—insufficient or inadequate information to assign a grade	No grade

Form and Format

- Report Card (long and short form)
- Print and electronic
- Multiple languages in some countries
- Additional communication materials
 - Infographics
 - Social media
 - Published manuscript(s)
 - Presentations
- Housed on the AHKGA website and Active Healthy Kids ______
 website



The Report Card Serves as...



- A public awareness mechanism and call to action through a nationwide media advocacy strategy
- An accountability index for all citizens
- A surveillance synthesis mechanism
- An advocacy tool for physical activity leaders and organizations
- A policy driver
- A compass for identifying strengths, weaknesses, priorities
 - Data driven policy-making
- A process for identifying research and surveillance needs
- A challenge to other jurisdictions to implement similar processes to allow comparisons and facilitate improvements

Global Matrix

- The Global Matrix initiative involves the production and subsequent comparison of country-specific Physical Activity Report Cards for children and adolescents, using a harmonized process to assess and assign letter grades to a number of common physical activity indicators
- To date, there have been four iterations of the Global Matrix initiative
- Registrations for the Global Matrix 5.0 started in January 2024 (launch in Fall 2026)



Global Matrix expansion



Global Matrix 1.0

15 Participating countries147 Experts from around the world



Global Matrix 3.0

49 Participating countries512 Experts from around the world



Global Matrix 2.0
38 Participating countries

349 Experts from around the world



Global Matrix 4.0

57 Participating countries

682 Experts from around the world

Global Matrix 1.0



Physical Activity & Health

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Official Journal of ISPAH www.JPAH-Journal.com BRIEF REPORT

Physical Activity of Children: A Global Matrix of Grades Comparing 15 Countries

Mark S. Tremblay, Casey E. Gray, Kingsley Akinroye, Dierdre M. Harrington, Peter T. Katzmarzyk, Estelle V. Lambert, Jarmo Liukkonen, Ralph Maddison, Reginald T. Ocansey, Vincent O. Onywera, Antonio Prista, John J. Reilly, María del Pilar Rodríguez Martínez, Olga L. Sarmiento Duenas, Martyn Standage, and Grant Tomkinson

The Active Healthy Kids Canada (AHKC) Report Card on Physical Activity for Children and Youth has been effective in *powering the movement to get kids moving* by influencing priorities, policies, and practice in Canada. The AHKC Report Card process was replicated in 14 additional countries from 5 continents using 9 common indicators (Overall Physical Activity, Organized Sport Participation, Active Play, Active Transportation, Sedentary Behavior, Family and Peers, School, Community and Built Environment, and Government Strategies and Investments), a harmonized process and a standardized grading framework. The 15 Report Cards were presented at the Global Summit on the Physical Activity of Children in Toronto on May 20, 2014. The consolidated findings are summarized here in the form of a global matrix of grades. There is a large spread in grades across countries for most indicators. Countries that lead in certain indicators lag in others. Overall, the grades for indicators of physical activity (PA) around the world are low/poor. Many countries have insufficient information to assign a grade, particularly for the Active Play and Family and Peers indicators. Grades for Sedentary Behaviors are, in general, better in low income countries. The Community and Built Environment indicator received high grades in high income countries and notably lower grades in low income countries. There was a pattern of higher PA and lower sedentary behavior in countries reporting poorer infrastructure, and lower PA and higher sedentary behavior in countries reporting better infrastructure, which presents an interesting paradox. Many surveillance and research gaps and weaknesses were apparent. International cooperation and cross-fertilization is encouraged to tackle existing challenges, understand underlying mechanisms, derive innovative solutions, and overcome the expanding childhood inactivity crisis.

Keywords: active transportation, comparison, international, play, policy, sedentary behavior, sport

Global Matrix 2.0



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Global Matrix 2.0: Report Card Grades on the Physical Activity of Children and Youth Comparing 38 Countries

Mark S. Tremblay, Joel D. Barnes, Silvia A. González, Peter T. Katzmarzyk, Vincent O. Onywera, John J. Reilly, Grant R. Tomkinson, and the Global Matrix 2.0 Research Team

The Active Healthy Kids Global Alliance organized the concurrent preparation of Report Cards on the physical activity of children and youth in 38 countries from 6 continents (representing 60% of the world's population). Nine common indicators were used (Overall Physical Activity, Organized Sport Participation, Active Play, Active Transportation, Sedentary Behavior, Family and Peers, School, Community and the Built Environment, and Government Strategies and Investments), and all Report Cards were generated through a harmonized development process and a standardized grading framework (from A = excellent, to F =failing). The 38 Report Cards were presented at the International Congress on Physical Activity and Public Health in Bangkok, Thailand on November 16, 2016. The consolidated findings are summarized in the form of a Global Matrix demonstrating substantial variation in grades both within and across countries. Countries that lead in certain indicators often lag in others. Average grades for both Overall Physical Activity and Sedentary Behavior around the world are D (low/poor). In contrast, the average grade for indicators related to supports for physical activity was C. Lower-income countries generally had better grades on Overall Physical Activity, Active Transportation, and Sedentary Behaviors compared with higher-income countries, yet worse grades for supports from Family and Peers, Community and the Built Environment, and Government Strategies and Investments. Average grades for all indicators combined were highest (best) in Denmark, Slovenia, and the Netherlands. Many surveillance and research gaps were apparent, especially for the Active Play and Family and Peers indicators. International cooperation and cross-fertilization is encouraged to address existing challenges, understand underlying determinants, conceive innovative solutions, and mitigate the global childhood inactivity crisis. The paradox of higher physical activity and lower sedentary behavior in countries reporting poorer infrastructure, and lower physical activity and higher sedentary behavior in countries reporting better infrastructure, suggests that autonomy to play, travel, or chore requirements and/or fewer attractive sedentary pursuits, rather than infrastructure and structured activities, may facilitate higher levels of physical activity.

Keywords: international, play, policy, sedentary behavior, sport, active transportation

Global Matrix 3.0



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Global Matrix 3.0 Physical Activity Report Card Grades for Children and Youth: Results and Analysis From 49 Countries

Salomé Aubert, Joel D. Barnes, Chalchisa Abdeta, Patrick Abi Nader, Ade F. Adeniyi, Nicolas Aguilar-Farias, Dolores S. Andrade Tenesaca, Jasmin Bhawra, Javier Brazo-Sayavera, Greet Cardon, Chen-Kang Chang, Christine Delisle Nyström, Yolanda Demetriou, Catherine E. Draper, Lowri Edwards, Arunas Emeljanovas, Aleš Gába, Karla I. Galaviz, Silvia A. González, Marianella Herrera-Cuenca, Wendy Y. Huang, Izzeldin A.E. Ibrahim, Jaak Jürimäe, Katariina Kämppi, Tarun R. Katapally, Piyawat Katewongsa, Peter T. Katzmarzyk, Asaduzzaman Khan, Agata Korcz, Yeon Soo Kim, Estelle Lambert, Eun-Young Lee, Marie Löf, Tom Loney, Juan López-Taylor, Yang Liu, Daga Makaza, Taru Manyanga, Bilyana Mileva, Shawnda A. Morrison, Jorge Mota, Vida K. Nyawornota, Reginald Ocansey, John J. Reilly, Blanca Roman-Viñas, Diego Augusto Santos Silva, Pairoj Saonuam, John Scriven, Jan Seghers, Natasha Schranz, Thomas Skovgaard, Melody Smith, Martyn Standage, Gregor Starc, Gareth Stratton, Narayan Subedi, Tim Takken, Tuija Tammelin, Chiaki Tanaka, David Thivel, Dawn Tladi, Richard Tyler, Riaz Uddin, Alun Williams, Stephen H.S. Wong, Ching-Lin Wu, Paweł Zembura, and Mark S. Tremblay

Background: Accumulating sufficient moderate to vigorous physical activity is recognized as a key determinant of physical, physiological, developmental, mental, cognitive, and social health among children and youth (aged 5–17 y). The Global Matrix 3.0 of Report Card grades on physical activity was developed to achieve a better understanding of the global variation in child and youth physical activity and associated supports. Methods: Work groups from 49 countries followed harmonized procedures to develop their Report Cards by grading 10 common indicators using the best available data. The participating countries were divided into 3 categories using the United Nations' human development index (HDI) classification (low or medium, high, and very high HDI). Results: A total of 490 grades, including 369 letter grades and 121 incomplete grades, were assigned by the 49 work groups. Overall, an average grade of "C-," "D+," and "C-" was obtained for the low and medium HDI countries, high HDI countries, and very high HDI countries, respectively. Conclusions: The present study provides rich new evidence showing that the situation regarding the physical activity of children and youth is a concern worldwide. Strategic public investments to implement effective interventions to increase physical activity opportunities are needed.

Keywords: global comparison, sedentary behavior, health promotion, international, sport, active transportation

Global Matrix 4.0



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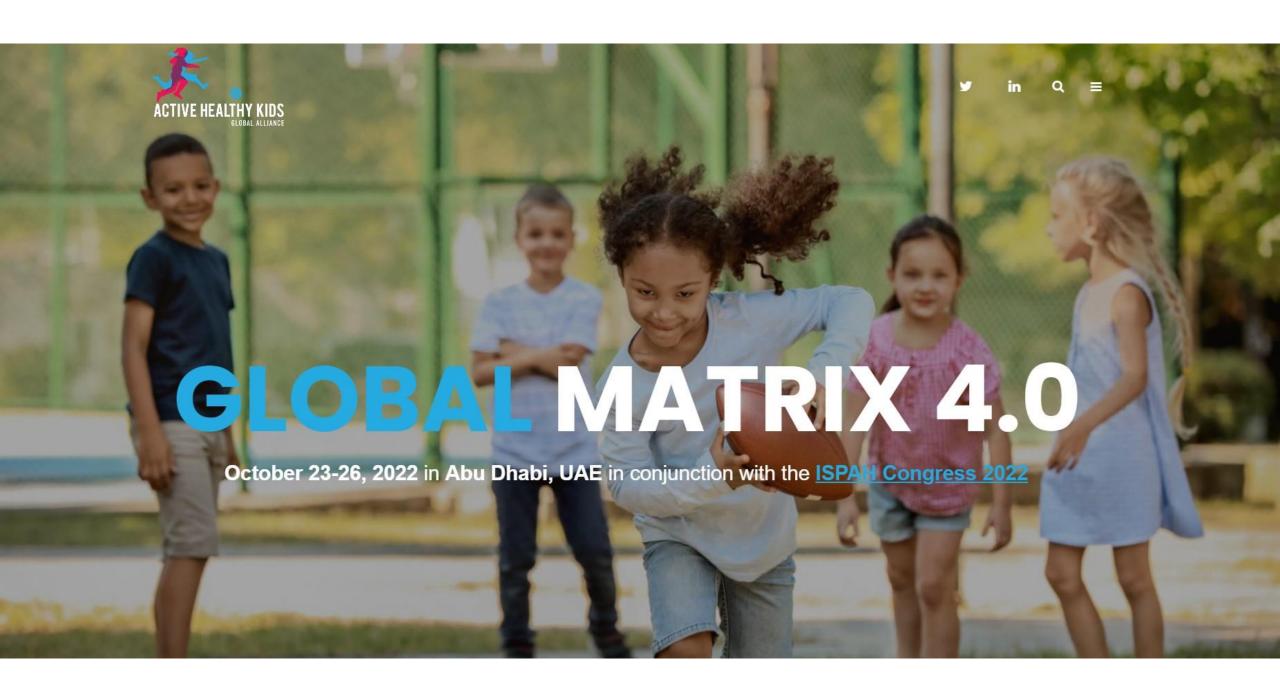
Global Matrix 4.0 Physical Activity Report Card Grades for Children and Adolescents: Results and Analyses From 57 Countries

Salomé Aubert, Joel D. Barnes, Iryna Demchenko, Myranda Hawthorne, Chalchisa Abdeta, Patrick Abi Nader, José Carmelo Adsuar Sala, Nicolas Aguilar-Farias, Susana Aznar, Peter Bakalár, Jasmin Bhawra, Javier Brazo-Sayavera, Mikel Bringas, Jonathan Y. Cagas, Angela Carlin, Chen-Kang Chang, Bozhi Chen, Lars Breum Christiansen, Candice Jo-Anne Christie, Gabriela Fernanda De Roia, Christine Delisle Nyström, Yolanda Demetriou, Visnja Djordjic, Arunas Emeljanovas, Liri Findling Endy, Aleš Gába, Karla I. Galaviz, Silvia A. González, Kylie D. Hesketh, Wendy Yajun Huang, Omphile Hubona, Justin Y. Jeon, Danijel Jurakić, Jaak Jürimäe, Tarun Reddy Katapally, Piyawat Katewongsa, Peter T. Katzmarzyk, Yeon-Soo Kim, Estelle Victoria Lambert, Eun-Young Lee, Sharon Levi, Pablo Lobo, Marie Löf, Tom Loney, José Francisco López-Gil, Juan López-Taylor, Evelin Mäestu, Agus Mahendra, Daga Makaza, Maria Frances T. Mallari, Taru Manyanga, Bojan Masanovic, Shawnda A. Morrison, Jorge Mota, Falk Müller-Riemenschneider, Laura Muñoz Bermejo, Marie H. Murphy, Rowena Naidoo, Phuong Nguyen, Susan Paudel, Željko Pedišić, Jorge Pérez-Gómez, John J. Reilly, Anne Kerstin Reimers, Amie B. Richards, Diego Augusto Santos Silva, Pairoj Saonuam, Olga L. Sarmiento, Vedrana Sember, Mohd Razif Shahril, Melody Smith, Martyn Standage, Gareth Stratton, Narayan Subedi, Tuija H. Tammelin, Chiaki Tanaka, Riki Tesler, David Thivel, Dawn Mahube Tladi, Lenka Tlučáková, Leigh M. Vanderloo, Alun Williams, Stephen Heung Sang Wong, Ching-Lin Wu, Paweł Zembura, and Mark S. Tremblay

Global Matrix 4.0 Launch



October 24, 2022, Abu Dhabi, United Arab Emirates











THE GLOBAL MATRIX 4.0 ON PHYSICAL ACTIVITY FOR CHILDREN AND ADOLESCENTS

October 23-26, 2022 in Abu Dhabi, UAE in conjunction with the ISPAH Congress 2022















• Search the grades by country or continent. View the grading rubric to learn more about how grades are assigned.

Search:

Country *	Overall Physical Activity *	Organized Sport and Physical Activity =	Active Play +	Active Transportation •	Sedentary Behavior *	
Argentina	D+	C-	INC	INC	D+	
Australia	D-	B-	INC	D+	D+	
Basque Country	INC	B-	INC	C+	B-	
Botswana	D+	D+	C-	С	C-	
Brazil	D	C-	F	С	D	
Canada	D	C+	D-	C-	F	
Chile	D+	C-	INC	D	D-	
China	C	F	C-	С	D+	
Chinese Taipei	F	D-	F	C-	D+	
Colombia	D+	D+	INC	В	D+	





THE GLOBAL MATRIX 4.0 ON PHYSICAL ACTIVITY FOR CHILDREN AND ADOLESCENTS

October 23-26, 2022 in Abu Dhabi, UAE in conjunction with the ISPAH Congress 2022

57 COUNTRIES



570 GRADES













Access physical activity grades, report cards and other related documents from all Global Matrix events in which Canada has participated.







THE GLOBAL MATRIX 1.0



Report Card Grades

- > Overall Physical Activity: D
- > Organized Sport and Physical Activity; C+
- > Active Play: D-
- > Active Transportation: C-
- > Sedentary Behavior: F
- > Physical Fitness: INC
- > Family and Peers: C
- > School: B-
- Community and Environment: B
- Government: B-

Related Links

- Short form (en version)
- & Short form (fr version)
- & Long form (en version)
- % Long form (fr version)
- % Website





Global Matrix 4.0 Report Cards















































57 Report Cards 570 Grades

- 465 Letter Grades
- 105 Incomplete Grades

682 Experts from around the world













































Global Matrix 4.0 on physical activity for children and adolescents



Country rankings and grades by physical activity indicators and aggregated indicators ACTIVE HEA

Overall Physical Activity	- 1	Organised Sports and Physical Ac	tívity	Active Play		Active Transportation	0		Sedentary Behaviour		Physical Fitness		Family and Peers		School		Community and Environme	ent	Government		Behavioral average		Sources of influence average	0	Overall average
1 Slovenia		1 Denmark	A	1 Spain (Region of Murcia)	aī B+	1 Dunmark	A-	1	Indonesia	8	1 Slovenia	A	1 Nepal	Α+:		A»	1 Singapore		1 New Zealand A		1 Finland	B-	1 Malaysia		1 Denmark B-
1 Finland	A-	2 Spain	8+	2 Ethiopia	8	1 Japan	Art	1	Montenegro		2 Japan	В	2 Montenegro	Α		A	3 Slovenia	4+	1 South Korea A		Liapas	B-			1 Finland B-
3 Crostia	8-	2 Sweden	5+	2 Montenegro	0	3 Finland	8+	1	Philippines	0	2 Malaysia	В	2 Spain (Extre-madura)	A	2 Slovenia /	A:	1 Sweden	Δ+	3-Finland A-	5	3 Denmark	C+	3 Denmark	B	1 Japan B-
3 Japan	8-	4 Spain (Region of Murcia)		2 Sertina	8	3 Hong Kong	8+	- 4	Spain (Basque Country)	H-	4 Denmark	B-	4 Thailand		2 South Korea /	A	4 Australia	A-	3 Chile A-		3 Slovenia	C+ .	3 Finland	В	1 Sovenia 8-
3 Slovakia	8-	5 Australia	8-	5 Denmark	8-	3 South Korea	84	- 5	Ethiopia	C+	4 South Africa		5 Sovenia	0+	2 Vietnam /	A	4 Chinese Taiper	A-	5 Chinese Taiper B4		3 Spain	C+	3 France	B	5 Czech Republic C+
3 South Africa	B-	5 Czech Republic	8	5 Lithuania	B-	6 Colombia	N.		Israel	C+	6 Botswana		5 Sweden	Be.	6 Chinese Taiper /	Δ.	6 Denmark	B+	5 Denmark Be		3 Spain (Basque Country)	Ca	3 Portugal	В	5 Montenegro C+
3 South	8.	5 Extensa	8	5 Spain	R.	6 Serbia	- 1		Portugal	647	6 Estoria	Ca.	7 France	Ŕ	6 Ethiopia A	A	6 Estonia	Re	5 United Arab Emirates Ba	_	3 Spain (Region of Murcia)	Ca	3 Singapore	B	5 Singapore C+
3 United States	8.	5 Germany		8 Mexico	C+	6 Spain (Region of Murcia)			Slovenia	F4	6 Montenegro	C+	7 Jursey		6 Malaysia 4	A	6 Ireland	B+	8 Februar B	_	3 Zimbabwe	E+	3 Slovenia	16	5 South Korea C+
8 New Zealand	C+	5 Hong Kong	0.	8 Nepal	C4	6 Zimbabwe			Germany			C+	7 Portugal	n	6 Montenegro /		9 Canada	D	8 France B		9 Czech Republic	F	3 South Korea	b	5 Spain C+
8 Czech Republic	C.	5 Japan	2.	8 Wales	E+	10 Czech Republic			Guernsey			-	10 Czech Republic	1.	6 United Arab Emirates A		9 Czech Republic	0	8 Greenland B		9 Guernsey	c .	10 Chinese Taipei	D.	5 Spain (Basque Country) C+
	64	5 Lithuania	6	8 Zimbabwe					Lebanon		11 France		10(Finland	0	1 Czech Republic		9 Finland	in .	8 Hungary B		9 Montenegro		10 England	n.	5 Sweden C+
8 Guernsey	56.0	5 New Zealand		12 Croatia	10	A C MINISTER	B.		Malaysia		11 Lithusnia		10 Mexico		1 Denmark		9 France		8 Ireland 8	_	9 Serbia		10 Hong Kong	0.	12 Estonia C
8 Zimbabwe	C+	5 Scotland		12 Czech Republic	10	10 Hungary 10 India	-		Nepal		11 Poland		10 Spain		1 England E		9 Hang Kong		8 Japan B		13 Colombia				12 France C
14 China	0	TO SHARE THE PARTY OF THE PARTY		12 France		10 South Africa	D-		Zimbabwe		11 Portugal							D			13 Croatia	0	10 Hungary		12 Guernaey C
14 India	6	5 Singapore			15	10 Seuth Affica	D-		Botswana		15 Finland		14 Denmark	C+ 1			9 Japan	0	8 Malaysia B		13 Ethiopia	6	10 Japan	0-	12 Guerniey C
	-	5 Spain (Basque Country) 5 Zimbatiwe		12 Hungary		10 Spain	D1							E+ 1			9 Lithuania	B	8 Philippines B		13 Germany	E .	10 Jersey	P.	12 Hong Kong C
16 England				12 Slovenia		16 England	C+		Ireland		15 Spain 15 United States		16 Canada	6 1	1 Poland E		9 Portugal		8 Portugal B 8 Singapore B			10	10 Montenegro		12 Hungary C
16 Montenegro		17 Canada		15 Botswana		16 Mexico	C+		Japan				16 Germany	- 1	1 Double E	LOT	2 Spain	_	- Indiana - Indi		13 Hong Kong	0	10 Spain (Extremadura)		12 Lithuania C
16 Singapore		17 Finland	C+ 1		6-	16 Spain (Basque Country)	C+		New Zealand		15 Wales		16 Lithuania		1 Uruguay E		9 Spain (Extremadura)		8 Sweden B		13 India		10 Thailand		12 Malaysia C
16 Ireland		17 Guernsey		15 Finland	(C-	16 Thailand	C+		Serbia		19 Australia		16 Spain (Region of Murcia)		9 Brazil		19 Colombia		8 Thafand 8		13 Lithuania		10 Vietnam		12 New Zealand C
20 Argentina		17 Poland		15 Germany		20 Botswana	C		Singapore	-	19 Brant		16 Vietnam		9 Finland		19 Croatia		20 Canada: 8-		13 Mexico				12 Poland C
20 Botowarus		21 France		15 Singapore		20 Brazil	· C		Skryakia	C- '	19 Germany 1		21 Botswaria		9 France		19 Germany		20 Indonesia II-		13 Nepal				12 Portugal C
Ottile		21 Ireland		15 Slovakia		20 China	C		South Africa	C-	19 Slovakia		21 Brazil		9 Hong Kong E		19 Scotland		20 Slovakia B-		13 New Zealand				12 Serbia C
Colombia		21 Mexico	C :	23 Portugal		20 Germany	C		Vietnam		23 Hong Kong		21 Chine		9 Slovakia E		19 Slovakia		20 Vietnam B-		13 Poland				12 Slovakia C
20 Lithuania		21 Montenegro	(C)	4 Estonia		20 Nepal	C		Argentina	D+::	24 Spain [Region of Murcia]		23 Estonia	C 1	9 Sweden E		19 South Korea				13 Singapore				12 Zimbahwe C
20 Nepal		21 Slovenia		24 Hong Kong	D	20 Singapore	C		China		24 Thailand		21 Zapan		S Canada E		25 Serbia				13 Slovakia				25 Australia C-
20 Serbia	D+	21 United States	C 3	26 Canada		20 Slovakia	C		Chinese Tripei	0+	26 Indonesia	F	21 Poland	C- 2	5 Croatia E		26 Brazil	C	24 Hong Kong C+	+	13 South Africa	C-	20 Lithuania	C+	25 Canada C-
O Sweden	D+	21 Wales	6 6	27 Brazil	F	20 Slovenia	C	24		D+ -			21 Serbia	C- 2	5 Germany E	8-	26 England	C	24 India C4		13 South Korea	C-	20 New Zealand	C+	25 Chinese Taipei C-
/8 Seant	D	28 Argentina	C- 3	27 Chinese Tutpel	FEET PROPERTY.	20 Sweden	C	24	Crostia	D4-	Canada	INC :	21 Singapore	C- 2	S Guernaey E	8-	26 Montenegro	C	24 Lithuania Ca	6	13 Sweden	C-	20 Philippines	C+	25 Colombia C-
28 Canada		28 Brazil	C- 3	27 Indonesia	FEE	20 Uruguay	C	24	Qunmark	Dell	Chile		21 Słovakia	C- 2	5 Theiland 6	B- :	25 Nepal	C	29 Ethiopia C		29 Argentina			C+	25 Croatia C-
/® Denmark	D*	28 Chile	0- 3	27 Thalland	E F	30 Canada	C-	24	England	D+	China	INC :	21 South Africa	C 2	S Wales E	В	26 Poland	C	29 tirael C		29 Australia	De	20 Spain	C+	25 England C-
/8 Mexico	D.	28 Croatia	C-	Argentina	INC	30 Chinese Taipei	C-	24	tithuania	De I	Chinese Taipei	INC :	21 South Korea	C 3	3 Australia 0	C+ 3	26 United States	C	29 Jersey C		29 Botswana	D+	20 United Arab Emirates		25 Ethiopia C-
28 Spain (Region of Murcia)	D.	28 Ethiopia	C-	Australia	INC	30 Croatia	C-	24	Spain (Region of Muccia)	D+	Colombia	INC 3	32 Croatia	D+ 3	1 Estonia 0	C+	26 Vietnam	C	29 Mexico C	01	29 China	D+	20 Uruguay	C+	25 Germany C-
28 Thailand		28 Hungary	C-	Chile	INC	30 Guernsey	C-	24		D+:	Crootia	INC	32 Hungary	D+ 3			26 Wales	C	29 Montenegro C	8	29 England		33 Brazil		25 India C-
34 Australia		28 Nepal	C-	Colombia	INC	30 Israel	0	34	Brazil	0			32 Ireland	D+ 3	1 Uthuania 0	C+ 1	34 Argentina	C-	29 Poland C		29 Estunia	D+	33 Chile	c	25 Ireland C-
34 France		28 Portugal	C-	England		30 Poland	C-		Czech Republic	D			32 Wales			C+ I	34 Ethiopia		29 Scotland C		29 France	D+	33 Colombia		25 Jersey C-
34 Greenland		28 Serbia	C-	Greenland			C-	34		D			36 Chile		1 Spain (Extremadura) 0				29 South Africa C		29 Hungary	D+	33 Croatia		25 Mexico C-
54 (arget		28 Slovakia	IC-	Guernsey			C .	34		D		INC	36 Guernsey		1 Spain (Region of Murcia) C				29 Spain C		29 Ireland		33 Greenland		25 Nepal C
34 Lebanon		38 Botswana	De	India			D+		Jersey	0			36 New Zealand		8 Chile 0		34 Uruguay		29 Uruguay C	_	29 Israel		33 Guernsey		25 Philippines C-
34 Malaysia		38 Colombia	70+	Ireland			D+	34		0			39 Chinese Taipei		8 India 0	-	34 Zimbabwe		29 Wales C		29 Jehango		33 Nepal		25 South Africa C-
34 South Korea		38 Spain (Extremadura)	D+	Israel	-		D+		South Korea	0		INC	(Olistael		8 Nepal 0		40 Chile		40 Australia C-	1	29 Philippines		33 Poland	_	25 Spain (Extremadura) C-
34 Germany		38 Thailand	D4	Japan		18 Lebanon	D4	34		0		INC	19 Scotland		8 Zimbabwe 0		40 Greenland		40 Spain (Extremadura) C-		29 Portugal		33 Serbia		25 Spain (Region of Murcia) C-
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United Arab Emirates	E	Philippines	INC	United Arab Emirates	INC		F	52			United Arab Emirates			INC		INC	New Zealand	INC		VC	50 Spain (Extremadura)	D-	53 China	_	43 Wales D+
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	INC			United States																					
Scotland	INC	United Arab Emirates	INC	Uniguay	INC	Greenland	INC		Finland Greenland	NC	Vietnam	INC	Uruguay	INC	Singapore I	INC	Spain (Basque Country) United Arab Emirates	INC	Spain (Basque Country) IN	C	50 Uruguay	D-	53 Lebanon	D	55 Lebanon 0

Graded B- to A+ Graded C- to C+ Graded F to D+ **Graded INC**









Infographics



🧖 🧶 Global Matrix 4.0 on physical activity for children and adolescents

What is the Global Matrix 4.0?



edentary Behaviours

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

For each participating country, a team of exports prepared a Report Card on physical activity for children and adolescents following a standardized development process to compile the best initiative allowed researchers to perform global comparison

10 Physical Activity Indicators

overall Physical Activity Organized Sport and Physical Activity

57 Participating Countries

Anglesphere (n = 10) Asia-Pacific (n = 13)

What has the Global Matrix 4.0 shown?



Overall Physical Activity is the indicator with the lowest average grade (D): only 27%-33% of children and adolescents are estimated to meet the recommended amount of physical activity globally.



The challenges for assessing indicators highlighted the need for the development of a physical activity measurement instrument/protocol that would be globally accepted, harmonised, translated, utilised, and culturally



Inequities in terms of grades and surveillance (difference in number of incomplete grades (INC)) across geo-cultural regions were observed, highlighting the persistence of inequities between countries for the surveillance and promotion of physical activity in children and adolescents. There is a general lack of representativeness of some specific populations (i.e., children: under 10 years, living in rural areas, with a disability, not attending school, indigenous, 2SLGBTQ+, and from other equity-seeking groups).



The COVID-19 pandemic adversely affected the physical activity indicator grades in most countries, their surveillance, and the research activity of physical activity experts. Sedentary Behaviour, followed by Organised Sport and Physical Activity, and Overall Physical Activity, were the indicators most frequently reported as affected negatively by the COVID-19 pandemic.



Report Card Leaders from 14% (n = 8) of the countries participating in the Global Matrix 4.0 reported that warflocal conflict was potentially affecting the physical activity of children and adolescents in their country.



Report Card Leaders from 30% (n = 17) of the countries participating in the Global Matrix 4.0 considered that children and adolescents physical activity was currently affected by local climate change/climate change mitigations.



Report Card Leaders from about half (n = 28) of the countries participating in the Global Matrix 4.0 estimated that the physical activity of children and adolescents in their country was currently affected by local economic changes/challenges.

Conclusions



For more details or to read the global priorities themes reported by the Report Card Leaders (n = 83) to improve the grades in their countryljurisdiction for each indicator, consult the following open access publication: Aubert S et al. Global Matrix 4.0 Physical Activity Report Card Grades for Children and Adolescents: Results and Analyses from 57 Countries. Journal of Physical Activity and Health. 2022.







Active Healthy Kids Global Alliance







Global Matrix 4.0 on physical activity for children and adolescents

What can we learn from the most successful countries?





Overall Physical Activity

adolescents of different ages has been taken into consideration in documents that guide early childhood education and teaching. National physical activity promotion programs have been funded to create a more physically active operational culture in educational institutions





Organized Sport and Physical Activity

In Denmark, several national policies support physical activity for children and adolescents in day care, school, transport, city planning, leisure, and health policies. In regard to organised sport and physical activity, the Danish legislation obliges municipalities to make facilities available for sports clubs and other voluntary associations and to provide financial support for activities for children and young people under the age of 25 years.



Active Transportation

Compulsory Education Schools determines school commuting distances within around 4 km for public primary schools and around 6 km for public junior high schools. This policy, associated with high level of independent mobility in children, potentially lad to the observed high percentage of Japanese





Physical Fitness

In Slovenia, children grow up with a tradition of receiving quality physical education instruction, and this may lead to increased physical literacy so a potentially better ability to maintain their fitness. The national education regulations also dictate that every primary school and secondary school must have at least one sports hall fully equipped with all the necessary sports equipment, including additional outdoor facilities for the children, and all schools in Slovenia have written public physical activity policies (e.g., bike racks at school, traffic calming on school property, outdoor play time).





Family and Peers

In Nopal, parents and schools generally expect students to participate in and win intra- and inter-school competitions. Families usually allow their children and adolescents (especially boys) to play with friends in their neighbourhood after school and on weekends. Activities such as playing, walking cycling (in plain/Toral regions) among adolescents are considered as ordinary activities by their family





In Hungary, a national physical education curriculum including five sessions of 45 min per week (one per weekday) and recommendations for extracurricular physical activity as well as school sports programs were gradually introduced from 2012 in all Hungarian schools. After the introduction of daily physical education in Hungarian schools, leisure time spent on sports and exercise increased significantly, regardless of gender and age group.





Community and Environment

Swedon has long prioritised green space and the outdoor environment and providing the Swedish people with a usable outdoor environment that promotes physical activity and active transport. In 2012, a Swedish outdoor recreation policy was created to increase opportunities to be in nature and





as skides and swings, to thematic playgrounds with a soluction of play equipment as a key feature, supporting a wider array of activities such as climbing, swinging, balancing, and jumping





In New Zealand, significant central and local government investments in physical activity and sport initiatives have been implemented since 2018. Sport NZ, thi Autearoa, a key crown agency supporting children and adolescents through sport and PA initiatives, established a national physical activity framework, strategy, and plan, and conducted evaluations of most initiatives.

Learn more at www.activehealthykids.org !













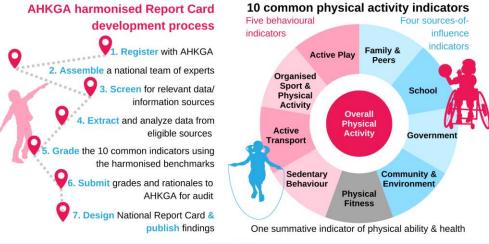
Active Healthy Kids Global Alliance



Celebrating a decade of the Active Healthy Kids Global Alliance (AHKGA) Global Matrix Initiative



Physical activity indicators have been assessed internationally for children and adolescents using the AHKGA Report Card methodology since 2014. Country Report Cards are developed using a harmonized protocol and aggregated to create a Global Matrix of grades.



Global impact

AHKGA Report Cards & Global Matrices have been shown to be very effective and influential across multiple sectors for creating awareness; developing capacity; transferring interventions, policies, and practices; improving surveillance; and advocacy purposes.









AHKGA Global Matrix 4.0 Network



The Global Matrix 4.0 involved a network of: 57 Participating countries or jurisdictions 682 Experts from around the world

Partnerships

Partnership agreements with international groups have been established to synergize collaborative efforts to "power the movement to get kids moving" around the world.











