IS CANADA IN THE RUNNING?

How Canada Stacks Up Against 14 Other Countries on Physical Activity for Children and Youth

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**Introduction**

**ACTIVE HEALTHY KIDS CANADA PROUDLY PRESENTS THE 10TH ANNIVERSARY EDITION OF THE ACTIVE HEALTHY KIDS CANADA REPORT CARD ON PHYSICAL ACTIVITY FOR CHILDREN AND YOUTH**

Since 1994, Active Healthy Kids Canada (AHKC) has worked to inspire the country to engage all children and youth in physical activity. The primary vehicle to achieve this is the AHKC Report Card on Physical Activity for Children and Youth (Report Card).

The Report Card consolidates current research into a format that can be easily accessed by media, governments, non-governmental organizations, practitioners and researchers, and provides the most comprehensive assessment of the physical activity of children and youth in Canada.

The first Report Card was released in 2005 to sound the alarm about the childhood physical inactivity crisis in our country.

As we release this 10th Anniversary Report Card, the seriousness of the issue of childhood physical inactivity is broadly recognized in Canada. Physical activity levels have not changed significantly since 2005; however, the Report Card has served to power the movement to get kids moving by providing solid evidence and a uniquely Canadian perspective to help stakeholders advocate for and devise solutions that get Canada’s kids moving more often. The annual release of the Report Card has consistently achieved in excess of 100 million media impressions, and reaches more than 80,000 key influencers of physical activity for children and youth in 89 countries. Over 10 years, this amounts to over 1 billion media impressions and more than 300,000 copies distributed (in electronic and hardcopy formats) (Figure 1).

**Figure 1.** Time trends in media hits and impressions from the Report Card release, 2005-2013 (source: Tremblay et al. 2014).
According to a 2013 Impact Assessment Survey, stakeholders have reported that the Report Card has contributed to various organizational activities as outlined in Figure 2 below:

**Figure 2.** Self-reported extent of the Report Card’s contribution to various organizational activities (source: Tremblay et al. 2014).

![Graph showing the self-reported extent of the Report Card's contribution to various organizational activities.]

**Cover Stories**

One of the key ways that AHKC has maintained interest in the Report Card over the years is the use of cover stories, which shine a light on different aspects of the issue of childhood physical inactivity, and provide direction and insight about how Canada can improve the grade. Topics covered through cover stories over the past 10 years are:

- **2005** Canada’s childhood physical inactivity crisis
- **2006 and 2008** Screen time/sedentary behaviour
- **2007** Gender and other disparities in physical activity participation
- **2009** Physical activity and academic achievement
- **2010** Physical activity in the early years
- **2011** Physical activity during the after-school period
- **2012** Active play
- **2013** Active transportation

Electronic copies of all past Report Cards are available on our website, www.activehealthykids.ca.
Powering a Global Movement

Over the years, the Report Card has been replicated in other jurisdictions, where it has been used as a blueprint for collecting and sharing knowledge about the physical activity of their young people. Inspired by the growing global interest in the Report Card, AHKC was proud to host the Global Summit on the Physical Activity of Children on May 19-22, 2014. The Global Summit provided a forum to share evidence and best practices from across Canada and around the world to combat the global childhood physical inactivity crisis. One of the most ambitious and exciting aspects of the Global Summit was that for the first time, 15 countries across 5 continents came together to present their respective national report cards, and revealed the world’s first-ever global matrix of grades on the physical activity of children and youth. Highlights from these national report cards are provided in the International Pages (pages 90–104) and in a recent publication of the Journal of Physical Activity and Health.

Future Directions

Over the past 10 years, the context, environment and methods of communication have changed significantly. This has prompted AHKC to reflect on and evolve our work to ensure that it continues to influence and add value to policies, programs, campaigns and investments that can increase physical activity opportunities for children and youth.

AHKC is committed to working in collaboration with our new and current partners to inspire collective action across Canada and around the world, and to engage all children and youth in physical activity, leaving a legacy of active healthy kids. Some of the future directions include:

- Modification and/or addition of new indicators such as physical literacy, to reflect the changing context of physical activity in Canada.
- Working with researchers and stakeholders to establish and align data collection methods and cycles that coincide with the Report Card publication, and to fill identified knowledge gaps.
- Enhancing work to extend the reach and facilitate use of the Report Card among key influencers of physical activity for children and youth.
- Working with partners to motivate and support coordinated evaluation and surveillance of progress with respect to the physical activity and sedentary behaviour of children and youth in Canada and around the world.

“The annual Report Card results from a thorough process that includes the best available evidence from research, surveillance, policy and practice. The Research Work Group wrestles with the mix of available evidence to achieve consensus on the grades assigned – truly a robust blend of science and art. Recommendations to improve the grade come from evidence-based practice and practice-based evidence. The experience each year is challenging, frustrating and labour-intensive – yet rewarding, inspiring and transformative!”

– Dr. Mark Tremblay, Chief Scientific Officer, Active Healthy Kids Canada
Indicators & Grades

Common to any report card are the grades. The 2014 Report Card assigns letter grades to 10 different indicators that are grouped into three categories (Figure 3): Strategies & Investments (Government and Non-Government), Settings & Sources of Influence (Family & Peers, School, Community & the Built Environment), and the Behaviours that Contribute to Overall Physical Activity Levels (Overall Physical Activity, Organized Sport Participation, Active Play, Active Transportation, Sedentary Behaviours). A child's physical activity level affects outcomes such as mental health and body weight; in turn, these outcomes may affect a child's overall levels of physical activity. Letter grades are based on an examination of current data for each indicator against a benchmark along with an assessment of trends over time, and the presence of disparities (e.g., age, gender, disability, ethnicity, socioeconomic status). Together, the indicators provide a complete and robust assessment of how we are doing as a country in promoting and facilitating physical activity opportunities among children and youth in Canada.

Figure 3. Summary of the 2014 Report Card indicators.

A child's overall physical activity is linked to physical and mental health, maintenance of a healthy body weight, academic performance, motor skill development & physical literacy, among other benefits.
Why is Physical Activity Important?

Physical activity is one of the most effective ways to ensure kids reach their full potential and to ensure a healthy and productive society for all Canadians.

The Canadian Physical Activity Guidelines for Children and Youth are based on a growing body of evidence that demonstrates a clear need for children and youth to incorporate physical activity into their daily lives. For example, new evidence demonstrates that both light-intensity physical activity (LPA) and moderate- to vigorous-intensity physical activity (MVPA) are linked to minimizing cardiovascular disease risk factors and enhancing positive health outcomes in children and youth.3, 4

It is important to note, however, that the benefits of physical activity are not limited to improved physiological markers of health. Evidence from 2 systematic reviews has added to existing data showing that physical activity can also have positive outcomes on markers of cognitive function.5, 6 Specifically, research reveals a positive association between physical activity and academic performance in children and youth. Furthermore, evidence from a recent systematic review provides increasing evidence of the positive effects of physical activity on markers of mental health (e.g., cognitive abilities, psychosocial functioning).7

The benefits of physical activity also come into focus when the economic costs associated with physical inactivity are considered. In Canada, healthcare expenditures and lost productivity in the workforce due to factors related to physical inactivity are in the billions of dollars and represent more than 2% of total healthcare costs annually.8, 9 This, in combination with the reduction in healthy life-years that comes with physical inactivity,10 points to the importance of physical activity.

Despite all the benefits of physical activity, only 5% of Canadian children and youth are getting enough daily physical activity.11 On the 10th anniversary of the Report Card, it is helpful to look back at the trajectories of physical activity promotion in Canada. The continued disappointing levels of physical activity in Canada, in spite of its clear importance for health and development in children and youth, serves as a reminder of the complex nature of this undertaking and of the work that still needs to be done as we work to power the movement to get kids moving.
IS CANADA IN THE RUNNING?

How Canada Stacks Up Against 14 Other Countries on Physical Activity for Children and Youth
Low Levels of Physical Activity in Many Countries

and the role of physical inactivity in the development of non-communicable diseases (NCDs) has led some to declare a pandemic of physical inactivity and to advocate for action. In fact, physical inactivity is at the core of 2 major international efforts in policy and planning. First, in 2013 the World Health Assembly adopted the World Health Organization Global Strategy on Diet, Physical Activity and Health. Second, the United Nations identified physical inactivity as an important global determinant of NCDs at their 2011 high-level meeting on the prevention and control of NCDs. International strategies such as these mark the beginnings of unified action needed to address physical inactivity in a meaningful way.

Motivated by growing interest and shared challenges with respect to physical inactivity among children and youth, AHKC has provided leadership to coordinate the development of the world’s first-ever global matrix of grades on the physical activity of children and youth. Fifteen countries – Australia, Canada, Colombia, England, Finland, Ghana, Ireland, Kenya, Mexico, Mozambique, New Zealand, Nigeria, Scotland, South Africa and the United States – developed national physical activity report cards based on the AHKC model, and participated in the global matrix process.

The global matrix work has revealed areas where Canada is leading and lagging relative to our international counterparts, and provides insight about where focused attention and resources are needed in order to “improve the grade” in the future. The most notable finding from the global matrix is the wide variation in the grades. Different countries are leading and lagging from 1 indicator to the next, with no country consistently outperforming the others. The distribution of countries that are leading and lagging presents an opportunity for cross-fertilization whereby lagging countries may learn from the successes of leading countries for each indicator. It is important to note that the grades were likely influenced to some extent by methodological differences inherent to the synthesized research studies that inform each country’s report card. Nevertheless, the grades for indicators of physical activity behaviour are low in most of the global matrix countries. There is a lot of work to be done to standardize physical activity surveillance across jurisdictions and ultimately, to improve physical activity behaviours and opportunities for kids around the world. Learning from each other may provide our best chance of success.
Canada: Leading and Lagging

When Canada is considered in an economic and industrial context, it is fair to say we are a developed country. But when looking at the lifestyles of our children and youth, it might be more accurate to say we are overdeveloped.

Canada is among the leaders in our relatively sophisticated policies, places and programs, with a B+ in Community & the Built Environment, a C+ in School and a C+ in Organized Sport Participation. We seem to have prioritized the construction of purpose-built places and programmed opportunities for kids to play as key factors for increasing their moderate- to vigorous-intensity physical activity (MVPA).

Indeed, most Canadian jurisdictions have made physical activity a public health priority. Incremental advances over the past decade (e.g., heightened government attention to physical inactivity, increased investment from private and non-government organizations, and increased school physical activity policies and infrastructure) are encouraging. However, lack of progress through the stages of implementation and evaluation led to Canada receiving a C for Government Strategies & Investments. In the global matrix, grades for this indicator were tightly bunched in the B and C range.2 Promising examples of government attention are prominent, such as Colombia’s broad legal framework in support of childhood physical activity as a priority for NCD prevention and social development.278

According to Canadian parents, opportunities for physical activity have been well implemented at the community level; 95% report that there are nearby parks and outdoor spaces, and 94% report local availability of public facilities and programs for physical activity, such as pools, arenas and leagues.123 There are plenty of commercial facilities too; 63% of parents say there are commercial facilities and programs where their children can be active.123

School administrators report nearly as high a degree of success. Every province and territory has a physical education curriculum in place, and 11 of 13 are implementing, or have already developed, comprehensive school health initiatives.102 Further, 83% of schools have a policy to provide daily recess.68 School infrastructure and equipment are well developed – most students have regular access to a gymnasium (95%), playing fields (91%), and areas with playground equipment (73%) during school hours.112

79% of parents contribute financially to their kids’ physical activities (through equipment, fees, etc.), and 64% take them to physical activities often/very often. However, only 37% of parents often play actively with their children.97

Parent reports of organized sport and physical activity participation among their school-aged children offer indirect evidence of a fairly well-developed infrastructure for organized sport and physical activity in Canada. According to parents, 75% of 5- to 19-year olds participated in organized physical activity and sport during the previous year.25 In terms of frequency, 34% of kids participate 4 or more times per week, 50% participate 2-3 times per week, 14% participate 1-2 times per week, and 3% participate less often or with variable participation levels.26 These data indicate good weekly participation rates for children and youth during the months they participate in sport (72% of children and youth participate in sport at least 8 months of the year).26

Unfortunately, even though we excel in these areas, the 10th edition of the Active Healthy Kids Canada Report Card on Physical Activity for Children and Youth once again reveals alarmingly low levels of physical activity. The Canadian Physical Activity Guidelines recommend that in the early years (aged 3-4 years) children participate in at least 180 minutes of physical activity at any intensity throughout the day, and school-aged children (aged 5-11 years) and youth (aged 12-17 years) engage in at least 60 minutes of MVPA every day.12 Even though 84% of Canadian kids aged 3-4 years are active enough to meet Guidelines,13 this falls to only 7% of kids meeting Guidelines at ages 5-11 years, and only 4% at ages 12-17 years.10 As such, Canada’s overall Physical Activity levels are graded at a D-, clustered near the back of the pack with Australia (D-), the United States (D-) and Scotland (F).2
In reality, many of the factors that contribute to high physical activity and low sedentary behaviour in the African region are not likely candidates for implementation in Canada. For example, we are unlikely to forgo running water, central heating or cooking appliances in order to increase our physical activity levels. In fact, the reverse is happening: rural-to-urban migration in Sub-Saharan Africa is beginning to have a negative effect on children’s physical activity levels, and to create more time and opportunity for sedentary activities in that region since survival activities and active transportation are diminishing requirements. Nevertheless, what we can take away from these countries is a reminder of the potentially significant contribution of active transportation, chores and tasks of daily living to increase children’s physical activity levels and decrease their sedentary behaviours.

**Culture of Convenience**

In Canada, the socially acceptable walking distance to school for many kids is considered to be less than 1.6 km, and distance between home and school is the single most reported reason why kids do not walk or bike to get there. Furthermore, in Canada, kids are less likely to use active transportation for school travel if their parents think driving their kids will save them time, is more convenient, or if they have road and neighbourhood safety concerns.

This contrasts sharply with Finland, which is a world leader in the global matrix with a B in Active Transportation, in part because its social norms differ dramatically. Nearly all Finnish children walk or cycle to school if they live less than 1 km away. The proportion of kids who use active transportation for school travel decreases somewhat as distance increases (74% for distances of 1-3 km, 38% for 3-5 km and 18% when the distance is more than 5 km); however, 79% of Finnish children in grades 4-6, and 57% in grades 7-9, live closer than 3 km to their school, meaning most kids use active transportation as their main mode of school travel.

According to Dr. Jarmo Liukkonen, the Lead Investigator for the 2014 Finland Report Card, the requirement for providing children a free bus or taxi ride to school varies (the national mandate provides this to kids living farther than 5 km from school; the cut-off in Helsinki is farther than 2 km, 3 km in Tampere, and 3.5 km in Jyvaskyla). Eligibility for school travel is more lenient in Canadian cities. For example, in Ottawa, kindergarten students are eligible for school bus transportation if they live 800 m from their school; for elementary school students (grades 1-8) the limit is at least 1.6 km away, and for grades 9-12 students, at least 3.2 km away.
## HOW CANADA STACKS UP

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The grade for each indicator is based on the percentage of children and youth meeting a defined benchmark: A is 81% to 100%; B is 61% to 80%; C is 41% to 60%; D is 21% to 40%; F is 0% to 20%. No grade was assigned when the data were considered to be incomplete (INC). Note: The Overall Physical Activity indicator in the England Report Card was scored as C/D and for the purpose of the international comparison a D+ was assigned.

Table 1. Global matrix presented in rank order by grade.

The grade for each indicator is based on the percentage of children and youth meeting a defined benchmark: A is 81% to 100%; B is 61% to 80%; C is 41% to 60%; D is 21% to 40%; F is 0% to 20%. No grade was assigned when the data were considered to be incomplete (INC). Note: The Overall Physical Activity indicator in the England Report Card was scored as C/D and for the purpose of the international comparison a D+ was assigned.

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<th>GOVERNMENT STRATEGIES &amp; INVESTMENTS</th>
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Conclusion

In Canada, there is a tendency to build more, do more and impose more structure, but perhaps these efforts are not optimal approaches for physical activity promotion. In New Zealand, which leads the pack with a B in Overall Physical Activity and a B in Active Play, there was a global media storm in early 2014 when university researchers invited schools to encourage adventurous active play in children. When 4 elementary schools relaxed safety-based playground rules (e.g., “don’t run here,” “no ball areas” and “no wheels”), not only did the students get more active, but the administrators also reported an immediate drop in bullying, vandalism and injuries. In this case, less was more.

To increase physical activity levels, we must encourage the accumulation of physical activity throughout a child’s day and consider a mix of opportunities (e.g., organized sport, active play, active transportation). In some cases, we may need to step back, do less and simply let kids play. In developed societies such as Canada, we must acknowledge that children need room to move and the opportunity to do so in a variety of settings and spaces, including the natural environment.

Overscheduled and Underactive

Our country values efficiency – doing more in less time – which may be at direct odds with promoting children’s health. We have engineered spontaneous movement out of our kids’ daily lives, and believe we have made up for this by providing things like dance recitals, soccer leagues and physical education (PE) classes.

Canadian parents have been conditioned to look to structured activities and schools to get their kids moving. For example, 82% of parents agree that the education system should place more importance on providing quality PE. Further, 79% of parents contribute financially to their kids’ physical activities (through equipment, fees, etc.), and 64% take them to physical activities often/very often. However, only 37% of parents often play actively with their children.

Organized sports and plenty of places and spaces for activity may never make up for lost (active) time. One study shows only 24% of kids got a full 60 minutes of MVPA in 1 session of soccer, and only 2% got this at softball practice. For kids on a hockey team, close to half of their time in a practice session is spent in MVPA, and during a game nearly a third of their time is spent being sedentary.

It is unlikely that participation in organized sport and physical activities will suffice as the only source of kids’ physical activity. Rather, structured sport opportunities and PE should be considered as 2 of many activities that contribute toward overall physical activity levels.

New Zealand and Australia lead the global matrix for Organized Sport Participation (B and B- respectively). In Australia, however, this grade does not translate to higher overall physical activity levels. Although the Active Play indicator was not graded, the remaining grades show a pattern consistent with that of Canada, whereby unstructured activities such as Active Transportation (D) and Sedentary Behaviours (D-) were scored as poor, while organized indicators such as School (B-) and Community & the Built Environment (A-) were graded high. New Zealand seems to have found success in providing kids with a balance of opportunities for organized activities and active play, leading the global matrix with a B for Active Play. In New Zealand, most kids say they spend some time playing for fun in unstructured activities, and spend an average of 78 minutes per day in free play. These values differ by age and gender, with older kids and those living in the most deprived areas reporting significantly less active play.
Kids need room to move.
INDICATORS

BEHAVIOURS THAT CONTRIBUTE TO OVERALL PHYSICAL ACTIVITY
OVERALL PHYSICAL ACTIVITY

84%
84% of 3- to 4-year-olds in Canada meet the daily recommendation of at least 180 minutes of physical activity at any intensity (2009-11 CHMS, Statistics Canada).13

7% & 4%
7% of 5- to 11-year-olds and 4% of 12- to 17-year-olds meet the daily recommendation of at least 60 minutes of MVPA (2009-11 CHMS, Statistics Canada).11
OVERALL PHYSICAL ACTIVITY

THIS YEAR’S GRADE REMAINS A D- BECAUSE MOST CHILDREN AND YOUTH IN CANADA ARE NOT MEETING THE CANADIAN PHYSICAL ACTIVITY GUIDELINES. The grade reflects the balance between 1 age group that is doing well (3- to 4-year-olds) and 2 age groups that are doing very poorly (5- to 11-year-olds and 12- to 17-year-olds).

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<td>BENCHMARK</td>
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<td>B 61–80%</td>
<td>C 41–60%</td>
<td>D 21–40%</td>
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- Percentage of children and youth who meet the Canadian Physical Activity Guidelines (3- to 4-year-olds: at least 180 minutes of physical activity at any intensity every day; 5- to 17-year-olds: at least 60 minutes of moderate- to vigorous-intensity physical activity [MVPA] every day).

KEY FINDINGS

- 84% of 3- to 4-year-olds in Canada meet the daily recommendation of at least 180 minutes of physical activity at any intensity (2009-11 CHMS, Statistics Canada).13
- 7% of 5- to 11-year-olds and 4% of 12- to 17-year-olds meet the daily recommendation of at least 60 minutes of MVPA (2009-11 CHMS, Statistics Canada).12
- 5- to 19-year-olds in Canada take an average of 11,220 steps per day (2011-12 CANPLAY, CFLRI).14 Generally, there has not been a significant change in average daily steps since 2005.
- 6% of 5- to 17-year-olds in Canada take at least 12,000 steps on 7 days of the week (2011-12 CANPLAY, CFLRI); 12,000 steps approximate the daily recommendation of at least 60 minutes of MVPA.15
- 86% of Canadians agree that children and youth generally do not get enough physical activity (2013 PHE Canada).17
How Much Physical Activity Do Kids Need?
When pedometers are used to measure physical activity, 6,000 steps approximate the daily requirement for 0- to 4-year-olds (at least 180 minutes of physical activity at any intensity), and 12,000 steps approximate the daily requirement for children and youth (at least 60 minutes of MVPA). Visit [www.csep.ca/english/view.asp?x=949](http://www.csep.ca/english/view.asp?x=949) to download the Canadian Physical Activity Guidelines.

### For the early years: 0-4 years

**Guidelines**
For healthy growth and development:
- Infants (aged less than 1 year) should be physically active several times daily – particularly through interactive floor-based play.
- Toddlers (aged 1-2 years) and preschoolers (aged 3-4 years) should accumulate at least 180 minutes of physical activity at any intensity spread throughout the day, including:
  - A variety of activities in different environments;
  - Activities that develop movement skills;
  - Progression toward at least 60 minutes of energetic play by 5 years of age.
- More daily physical activity provides greater benefits.

### For children: 5-11 years

**Guidelines**
For health benefits, children aged 5-11 years should accumulate at least 60 minutes of moderate- to vigorous-intensity physical activity daily. This should include:
- Vigorous-intensity activities at least 3 days per week.
- Activities that strengthen muscle and bone at least 3 days per week.
- More daily physical activity provides greater health benefits.

### For youth: 12-17 years

**Guidelines**
For health benefits, youth aged 12-17 years should accumulate at least 60 minutes of moderate- to vigorous-intensity physical activity daily. This should include:
- Vigorous-intensity activities at least 3 days per week.
- Activities that strengthen muscle and bone at least 3 days per week.
- More daily physical activity provides greater health benefits.

Source: Canadian Society for Exercise Physiology

#### Figure 4. Comparison of Canadian children and youth by age group who are meeting the Canadian Physical Activity Guidelines (source: 2009-11 CHMS, Statistics Canada).

The Canadian Physical Activity Guidelines (PAG) for 3- and 4-year-olds include light, MVPA (referred to below as “total physical activity” – TPA).

The PAG for 5- to 17-year-olds includes only MVPA. Research is needed to better understand the role and importance of light intensity physical activity in this age group.

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<tr>
<th>Age Group</th>
<th>PAG Requirement</th>
<th>Percentage Meeting PAG</th>
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<tbody>
<tr>
<td>5- to 11-year-olds</td>
<td>60 minutes of MVPA</td>
<td>84% Meet PAG (180 minutes of daily TPA)</td>
</tr>
<tr>
<td>12- to 17-year-olds</td>
<td>60 minutes of MVPA</td>
<td>11% Meet PAG (60 minutes of daily MVPA)</td>
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The PAG for the early years states that 3- to 4-year-olds should progress towards at least 60 minutes of energetic play by 5 years of age. While the majority of 3- and 4-year-olds are meeting the PAG (84%), very few are accumulating the 60 minutes of energetic play or MVPA that they need to transition into the PAG for children and youth by age 5.

Commentary
The first Report Card in 2005 revealed that Canada was “dropping the ball” when it comes to providing physical activity for children and youth. While there has been no improvement in the grade for this indicator over the past 10 years, there has been some significant evolution with respect to measurement in this area. For example, there are now evidence-based national physical activity guidelines for all age groups (0- to 17-year-olds) and nationally representative, objective data (accelerometry and pedometry). This 10th anniversary Report Card can serve as a solid baseline for the future. With these objective measures, the Report Card is positioned now more than ever to provide feedback about our collective progress to improve the grade.
Increasing physical activity among children and youth requires a shared responsibility across a number of different stakeholders and sectors: government, non-government, private sector, schools, communities, families, peers, and children and youth themselves. Coordinated and directed action is needed, with each stakeholder exercising its full scope of influence in order to improve the grade.

Policy-makers, funders and programmers should target groups of children and youth that are most in need of changing their physical activity patterns (e.g., adolescent girls, youth, Aboriginal people, children living with a disability and those from a low socioeconomic background).

The Canadian Physical Activity Guidelines should be widely disseminated, and integrated into educational and healthcare settings.

Children and youth should be encouraged to accumulate physical activity throughout the day.

Parents should consider a mix of opportunities (e.g., organized sport, active play, active transportation) to ensure that kids get daily physical activity. No single strategy is sufficient on its own.

While the geographic and cultural diversity of Canada must be recognized, stakeholders at all levels need to work together to make it easier for children and youth to choose the active choice more often: this can be done through targeted information and public education to raise awareness of effective strategies to address barriers and increase physical activity; support for the development and enhancement of effective policies and programs; ensuring adequate investment for implementation as well as strategic and sustained investments in community design; implementing ongoing monitoring and use of evidence to ensure that our efforts are having the desired effect, which is to increase physical activity in children and youth.

Note: The average daily physical activity is approaching 12,000 steps in Figure 6, which approximates the recommendation of at least 60 minutes of daily MVPA. This seems to suggest that Canadian children and youth are close to meeting the guidelines. However, the average does not necessarily reflect the prevalence. For example, even if children and youth were taking 12,000 daily steps on average, at least 50% would be taking fewer than 12,000 steps per day. Indeed, although 40% of 5- to 17-year-olds in Canada accumulate at least 60 minutes of MVPA on at least 3 days of the week, the prevalence reduces to 5% when physical activity levels are considered across 7 days. In conclusion, the only way to get a true measure of the prevalence of children and youth who meet the Canadian Physical Activity Guidelines is to calculate the percentage taking at least 12,000 steps each day of the week.
There is a need for 24-hour integrated movement behaviour guidelines to understand the importance of sleep and light-intensity physical activity to the health of children and youth.

Efforts should be made to harmonize physical activity recommendations for preschool and school-aged children to better understand changes in physical activity during transition years.

In an effort to more effectively coordinate physical activity research in children and youth, 2 independent panels of international experts were established. A total of 29 research priorities for the next 10 years were ranked by the panels. Three top priorities were identified: “developing effective and sustainable interventions to increase children’s physical activity long-term; policy and/or environmental change and their influence on children’s physical activity and sedentary behaviour; and prospective, longitudinal studies of the independent effects of physical activity and sedentary behaviour on health.”

40% of kids (aged 5-17 years) meet the guidelines at least 3 days per week; but to achieve health benefits, these kids need to get **60 minutes** every day of the week. 2009-11 CHMS
LITERATURE SYNTHESIS

Patterns of Daily Physical Activity
Research continues to clarify the patterns of physical activity in children and youth, which may help identify where the deficits are occurring. Based on data among 10- to 15-year-olds in 2 Canadian provinces, time spent in MVPA was approximately 30% lower on weekend days (39 minutes) compared to weekdays (56 minutes). However, light physical activity (LPA) was approximately 15% higher on weekend days compared to weekdays. More children and youth achieved the Canadian Physical Activity Guidelines on weekdays (46%) than weekend days (22%). Some disparities such as differences in time spent in MVPA between genders were greater on weekdays (approximately 13 minutes) than on weekend days (approximately 8 minutes).

How Many Daily Steps Should Preschoolers Take?
The Canadian Physical Activity Guidelines for the Early Years recommend that preschoolers (3- to 4-year-olds) get at least 180 minutes of daily physical activity at any intensity and progress toward at least 60 minutes of daily energetic play by the age of 5. In an effort to help researchers and practitioners monitor physical activity levels in this age group, research was recently carried out to determine the daily step count target that approximates these guidelines. From the analyses, preschoolers who take at least 6,000 steps per day should be considered in compliance with the guidelines.

INTERNATIONAL COMPARISONS

Self-report physical activity data on children and youth from 39 countries around the world reveals that 23%, 19% and 15% of 11-, 13- and 15-year-olds, respectively, get at least 60 minutes of daily MVPA. The percentage of Canadian children and youth who report at least 60 minutes of daily MVPA exceeds the international averages for each age and gender group.

A separate analysis that included data on 105 countries around the world found that only 20% of 13- and 15-year-olds reported getting at least 60 minutes of daily MVPA. Fewer 13- and 15-year-old girls in Canada reported achieving this benchmark than those in countries such as Greenland, Slovakia and India. Among 13- and 15-year-old boys, several countries – including the United States, Ireland, Tanzania and India – had a greater percentage who reported getting at least 60 minutes of daily MVPA.
ORGANIZED SPORT PARTICIPATION

75%

75% of kids aged 5-19 participate in organized physical activities or sport.25

1,500

Canadian children who participate in organized physical activities or sports take on average almost 1,500 more steps per day than children who do not participate in these types of activities (2011-12 CANPLAY, CFLRI).14
This year's grade is a slight improvement from last year. This is due to new, previously unavailable data that reveals the frequency of sport participation per week.

### Key Findings

- According to parents, 75% of 5- to 19-year-olds in Canada participate in organized physical activities and sports, which is similar to what has been seen since the 2007-08 data cycle (2011-12 CANPLAY, CFLRI).
- Among 5- to 17-year-olds in Canada who participate in sport, 46% do so year-round, 26% for 8 to 11 months of the year and 27% for less than 8 months of the year (2010-11 PAM, CFLRI).
- According to parents in Canada, 34% of 5- to 17-year-olds participate in sport at least 4 times per week, 50% participate 2-3 times per week, 14% participate 1-2 times per week, and 3% participate less frequently than this or have variable participation (2010-11 PAM, CFLRI).
- Canadian children who participate in organized physical activities or sports take on average almost 1,500 more steps per day than children who do not participate in these types of activities (2011-12 CANPLAY, CFLRI).
- According to parents, 47% of 5- to 19-year-olds in Canada participate in organized physical activities during the after-school period, i.e., between the end of the school day and suppertime (2011-12 CANPLAY, CFLRI).
- Participation in organized physical activities and sports decreases substantially with age (83% of 5- to 10-year-olds vs. 61% of 15- to 19-year-olds) (2011-12 CANPLAY, CFLRI).
- This decreased participation becomes even more obvious when gender is considered in the context of the after-school period (91% of 5- to 10-year-old boys participate in organized physical activities and sports during the after-school period vs. 48% of 15- to 19-year-old boys; 88% of 5- to 10-year-old girls vs. 30% of 15- to 19-year-old girls). At all ages, a greater percentage of boys than girls participate (2011-12 CANPLAY, CFLRI).
**RECOMMENDATIONS**

- Program providers should develop strategies to counter the dropout rate in organized sport and physical activities among youth.
- Program providers should consider the development of physical literacy as a priority within their program.
- Contribution to MVPA varies from sport to sport; however, given the popularity of organized sport participation in Canada, all sport providers could consider opportunities to increase MVPA levels and, therefore, make a stronger contribution toward the Canadian Physical Activity Guidelines.
- Ensure adequate training and support for coaches and volunteers to plan practices that maximize opportunities for all participants to engage in MVPA.
- Sport and recreation providers should establish formal mechanisms for youth leadership, volunteerism and input to ensure that programs reflect needs and preferences (e.g., ensure cultural diversity is reflected).

**RESEARCH GAPS**

- There is a need for research that examines the influence of active play and unorganized activities at younger ages on the development of skills that are useful for sport participation at older ages.
- More research is needed to better understand the reasons for disparities in getting involved in organized sports (e.g., age, gender, household income) and barriers to participation.
- More understanding is needed of the contribution that sport participation makes to MVPA (e.g., what contribution to MVPA should be expected from sport participation?).

### Helping Canadians with a Disability/Chronic Disease Get Physically Active

For Canadians with a disability, regular physical activity may be even more important than it is for the general population. For a person with a disability, an active lifestyle can open doors to improved health, social inclusion and self-empowerment – doors that might otherwise remain closed. Access to physical activity can help reduce the likelihood of acquiring secondary health conditions such as diabetes, high blood pressure or heart disease. Being active builds resiliency and can provide an all-important outlet for a person with a disability.

The Active Living Alliance for Canadians with a Disability has developed a number of tip sheets, developed by the Canadian Society for Exercise Physiology, that provide general information in support of Canada’s Physical Activity Guidelines. For more information, visit [www.ala.ca/Content/tipsheets/index.asp?langid=1](http://www.ala.ca/Content/tipsheets/index.asp?langid=1).
LITERATURE SYNTHESIS

Organized sport provides an opportunity for children to get physical activity in a structured environment. Although there are other activities that children and youth can do in order to meet the Canadian Physical Activity Guidelines, sport offers added benefits for all ages.

Benefits of Organized Sport Participation
Research shows that participation in organized sport – even as little as once or twice a week – has a beneficial effect on body weight in children and can reduce the odds for being overweight by nearly 50%. Among adolescents, those who take part in sport are more likely to engage in leisure time physical activity and screen time guidelines.

There is also evidence that the associated benefits of organized sport participation track across the life course. Adolescents who participate in sport are more likely to engage in leisure time physical activity as they age and less likely to take part in many negative health behaviours (e.g., smoking, illicit drug use); however, they are more likely to consume alcohol.

Popular Sports and Settings for Participation
The sports most frequently participated in by Canadian children and youth, according to their parents, are soccer (38%), hockey (all types)/ringette (24%), swimming (17%), basketball (13%) and baseball/softball (10%). These and all other sporting activities primarily occur in a structured environment such as a private or community facility or sports club (Figure 9).

What Contribution Does Organized Sport Participation Make to Overall Physical Activity Levels?
The answer to this question varies by sport. Available research appears to indicate that soccer is the sport in which children get the most physical activity. For example, a study revealed that 24% of children got at least 60 minutes of MVPA during one soccer session. However, only 2% of children and youth got at least this much physical activity during a softball practice.

Data from a hockey practice and game breaks down the time spent in physical activity by intensity level and also identifies the amount of time spent sedentary (Figure 10), revealing that children may spend close to half of their time during a practice in MVPA, but during a game spend nearly a third of their time sedentary.

These results reveal that organized sport participation does not guarantee that children and youth will get enough physical activity, and reinforce the point that organized sport is simply 1 activity among many that can be considered in order for children and youth to meet the Canadian Physical Activity Guidelines for Children and Youth. There is a need for them to participate in other forms of physical activity in addition to organized sport.

Figure 10. Percentage of time spent in physical activity and sedentary behaviour during an Atom AA hockey practice and game by 9- to 10-year-olds (source: van den Berg 2013).

Time Spent in Physical Activity and Sedentary Behaviour (%)

- Sedentary behaviour
- Light-intensity physical activity
- Moderate- to vigorous-intensity physical activity

- 70-minute hockey practice
- 80-minute hockey game
CONTRIBUTING FACTORS AND DISPARITIES

Age-related differences in sport participation persist from previous years. A slightly higher participation rate is seen among 5- to 12-year-olds (77%) than in 13- to 17-year-olds (71%). A gender disparity also exists, with more boys (79%) than girls (70%) participating in sport. Participation rates also tend to increase as parental education and household income increase, which has been reported previously. Results from the General Social Survey reveal that the positive relationship between household income and sport participation has been consistent over the last 12 years (Figure 12). Regionally, children and youth from Saskatchewan (80%) and the Yukon (81%) are more likely to participate in sport when compared to the national average (74%). More encouraging is the current, general lack of disparity in sport participation based on parental age and community size.

Figure 11. The percentage of parents in Canada who report that their 5- to 17-year-olds participate in sport, by province/territory (* the North includes Nunavut, Northwest Territories and Yukon. Data for Nunavut are suppressed due to cell size.) (Source: 2010-11 PAM, CFLRI).

Figure 12. Sport participation rates for 5- to 14-year-olds in Canada by household income, 2010 (source: General Social Survey).
A slightly higher participation rate is seen among 5- to 12-year-olds (77%) than in 13- to 17-year-olds (71%).
ACTIVE PLAY

4.1 hours

Parents of kids aged 5-11 report their kids get only 4.1 hours of physical activity per week outside of school while participating in unorganized physical activities, whether alone or with a friend. (2009-11 CHMS)
ACTIVE PLAY

THIS YEAR’S GRADE REMAINS AN INCOMPLETE. Although children and youth spend several hours per week participating in unorganized physical activity, this equates to less than an hour per day. The target of several hours of active play per day is relatively arbitrary, and further research is required to identify an evidence-based benchmark before this indicator can be graded.

KEY FINDINGS

- According to parents, 73% of 5- to 19-year-olds in Canada participate in unorganized physical activities or sports during the after-school period, that is, between the end of the school day and suppertime (2011-12 CANPLAY, CFLRI).27
- According to parents, 67% of 5- to 19-year-olds in Canada participate in outdoor play during the after-school period (2011-12 CANPLAY, CFLRI). In another survey, 65% of Canadian parents report that their 5- to 17-year-olds play outdoors during the after-school period (2010-11 PAM, CFLRI).37
- Canadian children and youth who participate in unorganized physical activities or sports during the after-school period take approximately 1,270 more daily steps than those who do not participate. Additionally, those who play outdoors during the after-school period take 1,940 more daily steps than those who do not (2011-12 CANPLAY, CFLRI).27
- Parents report that their 3- to 4-year-olds get 5.3 hours of physical activity per week outside of school while participating in unorganized physical activities, whether alone or with a friend (2009-11 CHMS, Statistics Canada).
- Parents report that their 5- to 11-year-olds get 4.1 hours of physical activity per week outside of school while participating in unorganized physical activities, whether alone or with a friend (2009-11 CHMS, Statistics Canada).
- 72% of Canadian parents strongly or somewhat agree that their children/youth participate in active play with friends or family every day (2013 PHE Canada).27
RECOMMENDATIONS

- Parents should ensure a balance between scheduled activities and free time during which children can engage in active play.
- Challenge municipal by-laws and school policies that restrict opportunities for active outdoor play.
- There should be focused efforts to ensure opportunities for older youth to participate in physical activity during the after-school period.
- Parents can support active play for younger children by rotating responsibilities for playground supervision.
- Ensure that parents appreciate the low risk of many active play opportunities (break down false perceptions of risk).

RESEARCH GAPS

- More research is needed in order to establish a definition of active play.
- Researchers should focus on studying the dose-response association between active play and health among children and youth.
- Further research is required to identify an evidence-based benchmark for this indicator.

“Gadgets are omnipresent in children’s lives nowadays and it keeps them inside the house. This is a sad reality because it substantially reduces spontaneous active play outside.”

– Dr. Jean-Philippe Chaput, member of the Report Card Research Work Group
LITERATURE SYNTHESIS

Can Active Video Games Play a Role in Physical Activity Promotion?

Exergames (video games that require physical activity or movement of the body) and GPS exergames (electronic, location-based games that are played outdoors with the help of global positioning systems in mobile devices) are innovative strategies that are fueling hopes for getting kids active. In 2012, Active Healthy Kids Canada released their Position on Active Video Games (www.activehealthykids.ca/active-video-games-position.aspx) and did not recommend them as a good strategy to help kids become more physically active on a daily basis. Evidence from a comprehensive systematic review reveals that active video games (AVGs) may elevate heart rates by increasing light- to moderate-intensity physical activity among children and youth in the short term. However, available evidence does not show that AVGs lead to increases in energy expenditure over longer periods (e.g., 24 hours). Although AVGs may offer some health benefits in special populations, there is not sufficient evidence to recommend them as a way of increasing daily physical activity in the general population.

GPS exergames may be a more promising solution since they address a limitation of console exergames, which require a television set or computer monitor to play, and cannot be played outdoors on a mobile device. Emerging technologies that have advanced GPS functions and game mechanics may offer positive health benefits. However, more research is required before recommending these games for enhancing physical activity levels in children.

CONTRIBUTING FACTORS AND DISPARITIES

There are age- and gender-related differences in active play during the after-school period (Figure 13). As age increases, parents report a decline in participation in unorganized physical activities and sports among both girls and boys at all ages, and a greater percentage of boys than girls participate in unorganized activities in the after-school period. Additionally, children of active parents are more likely to spend their time playing outdoors or participating in unorganized activities after school compared to children of inactive parents.

INTERNATIONAL COMPARISONS

In 2010, children from 25 countries were asked about their single favourite pastime: the top response was playing with friends (30% of those interviewed), followed by playing computer games (15%) and playing with parents (10%). Compared to the international average, playing with friends is more popular among children in Scandinavian countries and Japan (≥ 40%). Playing computer games is more popular in Eastern European countries (23% in Poland and Slovakia; 22% in Russia; 21% in the Czech Republic), and playing with parents is more popular in Hungary (24%), Austria (19%) and France (17%).
ACTIVE TRANSPORTATION

24%

Only 24% of Canadian parents say their kids, aged 5-17, always walk or wheel to/from school. (2010-11 PHAC, CERPH)

2,238

If children walked for all trips of less than 1 kilometre rather than being driven, they would take an average of 2,238 additional steps per day.47
ACTIVE TRANSPORTATION

IN THE ABSENCE OF DATA ON ACTIVE TRANSPORTATION TO/FROM OTHER DESTINATIONS, THIS YEAR’S GRADE REMAINS A D DUE TO THE LOW PERCENTAGE OF CHILDREN AND YOUTH WHO USE ACTIVE TRANSPORTATION TO GET TO/FROM SCHOOL. The decline in active transportation to/from school over the past decade also informs the grade.

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<td>F 00-20%</td>
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→ Percentage of children and youth who use active transportation to get to and from places (e.g., school, park, mall, friend’s place).

KEY FINDINGS

▶ According to parents, 24% of 5- to 17-year-olds in Canada use only active modes of transportation to/from school, 62% use only inactive modes, and 13% use both active and inactive modes (2010-11 PAM, CFLRI).
▶ Between 2000 and 2010, the percentage of Canadian children and youth using only inactive modes of transportation to/from school increased from 51% to 62%. During the same period, the proportion of children and youth using only active transportation decreased from 28% to 24% (2010 PAM, CFLRI).42
▶ In another survey, 58% of parents reported that they walked to school when they were children, compared with only 28% of their children today. Conversely, 13% of parents reported being driven to school as children, compared with 41% of their children.43
▶ Among students in grades 6 to 12 who do not walk or bike to school, 42% spend between 5 and 15 minutes per day travelling to school by motorized means, and another 42% spend 16 minutes or more (2009-10 HBSC).
▶ 51% of 12- to 19-year-olds in Canada report walking between 1 and 5 hours per week to/from school and work, and while doing errands. 27% report less than 1 hour, and 22% report more than 5 hours (2007-09 CHMS).44
▶ 10% of 12- to 19-years-olds report cycling at least 1 hour per week to/from school and work, and while doing errands. 9% report less than 1 hour, and 81% report not using cycling for transportation (2007-09 CHMS).44
▶ In youth aged 15-17 years, the daily time spent walking decreased from 17 to 11 minutes between 1992 and 2010; this decline was particularly evident in girls.45 During this time, the percentage taking all of their daily trips by car increased from 29% to 39%, and the percentage engaging in at least 1 daily trip by active transportation decreased from 52% to 37%.45
“The acknowledgement of active travel as an invaluable source of physical activity for children and youth has grown rapidly over the last 10 years. It is a utilitarian source of physical activity through which interventions have the potential to reach all children.”

– Dr. Guy Faulkner, member of the Report Card Research Work Group

**Figure 14.** Transportation behaviours to/from school by province/territory (source: 2010-11 PAM, CFLRI).

**Figure 15.** Percentage of 15- to 17-year-olds in Canada who take all of their daily trips by car, and those who take at least 1 daily trip using active transportation, 1992-2010 (source: 2012 General Social Survey, Statistics Canada).
RECOMMENDATIONS

- If children walked for all trips of less than 1 kilometre rather than being driven, they would take an average of 2,238 additional steps per day.47
- School Travel Planning is a multidisciplinary intervention that engages key stakeholders (e.g., public health professionals, municipal planners and traffic engineers, police officials, school boards, parents, children, school administrators and teachers) in the survey and evaluation of school travel issues.46 All schools should develop a travel plan identifying strategies (where appropriate) to promote active school travel and address local barriers.
- Similarly, walking and cycling to destinations (e.g., parks, sport fields, shops, friends’ and relatives’ houses) should be promoted if they are located close to the home.53
- Transportation policies (e.g., “complete streets” policies; www.completestreetsforcanada.ca) and additional road safety measures should be implemented given that the built environment surrounding many Canadian schools consists of poor infrastructure, and that there are few programs and policies to support active transportation.49, 50
- Lower- and better-enforced speed limits, traffic calming measures (e.g., speed bumps), greater sidewalk coverage and crossing guards near schools are all measures that could improve safety and help encourage parents to allow their children to walk or cycle more.
- Active transportation needs to be considered before schools are closed or new schools are built, to ensure that a greater proportion of children and youth live within walking or biking distance of their school.51

RESEARCH GAPS

- Further research is needed to determine the effectiveness of interventions such as School Travel Planning in increasing active transportation among children and youth. A recent evaluation of a national School Travel Planning intervention reported evidence of increased walking to/from school at nearly half of the participating schools across Canada. More robust monitoring and evaluation are needed to examine School Travel Planning effectiveness.
- Novel approaches for promoting active transportation among children living in suburban and rural areas should be developed and evaluated. While schools may be located too far away to enable active transportation for the entire trip, walking may nevertheless be promoted for part of the journey.52 53
- There remains a lack of data regarding active transportation to/from destinations other than school (e.g., parks, sport fields, shops, friends’ and relatives’ houses, etc.) among Canadian children. A recent British study has shown that these trips can provide valuable opportunities for physical activity.54
- More research is needed to determine how various interventions can modify attitudes as well as perceived barriers to independent mobility (children’s freedom to move around in public spaces without adult supervision); such mobility may be an important foundation for facilitating both active transportation and active play.
According to school administrators, **10% of Canadian schools** have fully implemented policies to promote active transportation.
LITERATURE SYNTHESIS

Active Transportation as a Source of Physical Activity
Multiple studies have shown that compared to children who are driven to/from school, children who engage in active transportation are more active during the whole day, not just during the trip to/from school. Active travellers can accumulate as many as 45 additional minutes of daily MVPA than inactive travellers. In Montreal, if all daily motorized trips of less than 1 kilometre were replaced by walking, children and youth would accumulate an additional 2,238 steps per day (equivalent to 15-20 minutes of walking). Active transportation was the greatest source of physical activity among adolescents living in urban and suburban areas in Halifax, Nova Scotia. Moreover, 2 recent studies suggest that active transportation may help reduce the decline in physical activity that is associated with the transition from primary to secondary school.

Health Benefits of Active Transportation
A systematic review has shown that children who cycle to/from school have higher cardiovascular fitness than those who are driven to school. In the 2007-09 Canadian Health Measures Survey, adolescents who reported cycling at least 1 hour per week to travel to school, work or while doing errands accumulated more physical activity, had higher cardiovascular fitness and had lower body mass index, waist circumference and cholesterol than those who did not report cycling at least 1 hour per week. Replacing car trips by active transportation can also reduce emissions of exhaust gases, thereby preventing respiratory diseases such as asthma. There is also some evidence suggesting that active transportation may reduce stress and improve academic achievement.

Economic Benefits of Active Transportation
In Ontario alone, the Ministry of Education allocates approximately $800 million per year for school busing. Some of this funding could be redirected to supporting more sustainable, and active, forms of school travel. A benefit-cost analysis of School Travel Planning projects was recently conducted in Canada. It analyzed the results of 19 School Travel Planning projects from various Ontario communities ranging in population size and geographic location. Findings illustrated a benefit-cost ratio of 1.8, supporting the School Travel Planning model as a cost-effective intervention that can result in an increase in walking and cycling to school while providing economic, health and environmental benefits each school year. Based on their annual collective cost of $93,000, the 19 School Travel Planning projects as a group were estimated to yield $200,000 in annual health and societal benefits from reductions in car trips and increases in walking.

Factors Associated with Active Transportation
Current active transportation theories suggest that a wide array of factors influence the choice of travel modes. These include personal characteristics (e.g., enjoyment of walking or cycling), the social environment (e.g., parent and peer attitudes toward active transportation), public policies (e.g., school policies, municipal bylaws), the built environment (e.g., sidewalks and bicycle paths) and the physical environment (e.g., the weather).

In one study in Toronto that engaged 41 elementary school children in discussions about school travel, children mentioned fears about traffic and strangers as barriers to walking. At the same time, they could eloquently describe the potential benefits of active school travel to their own health and the environment. Notably, they hoped for more opportunities to socialize actively with family and friends on their way to school.

Active Transportation Policies and Practices
School policies may contribute to an increase in the percentage of children and youth engaging in active transportation. According to school administrators, 10% of Canadian schools have fully implemented policies to promote active transportation. In particular, the organization of “walking school buses” – groups of children who walk to/from school along a set route with adult supervision – could encourage parents to allow their child to engage in active transportation and increase their physical activity. Walking school buses may serve as “stepping stones” by helping children acquire road safety skills and gradually gain independent mobility. A recent study found that children attending schools that were supportive of active transportation were less likely to be overweight.

Such policies may also be instrumental in reducing the risk of injury associated with walking and cycling. Policy-makers should pay careful attention to deprived areas in which a greater percentage of children engage in active transportation despite being exposed to greater safety risks. Broader implementation of school travel plans in these neighbourhoods could be helpful in this regard. Additionally, lower – and better enforced – speed limits, traffic-calming measures (e.g., speed bumps), greater sidewalk coverage, crossing guards near schools, and “complete streets” policies are all measures that could improve safety and help encourage parents to allow their child to walk or cycle more.

Social marketing campaigns could also emphasize that the benefits of engaging in active transportation far exceed the perceived risks. There is also a need to increase parents’ awareness of existing school travel programs. For instance, a survey in the Greater Toronto Area indicated that the majority of parents were not aware of such programs.
CONTRIBUTING FACTORS AND DISPARITIES

Current Canadian research shows that:
> Children and youth who live closer to their school are more likely to get there by walking or cycling than are those who live farther away from their school.\(^\text{57, 69, 82, 83}\)
> Those living in urban areas are also more likely to engage in active transportation than their peers living in rural areas.\(^\text{56, 59, 82}\)
> In the 2007-2009 CHMS, approximately 4 times more boys than girls reported at least 1 hour of cycling per week to/from school or work and while doing errands.\(^\text{44}\)
> Primary school students are more likely to walk or cycle to/from school than their secondary school counterparts.\(^\text{52, 58}\)
> Children whose parents own fewer cars\(^\text{29}\) and/or report having a lower income are more likely to engage in active transportation.\(^\text{42, 73, 75}\)
> Road safety and personal safety concerns are important barriers to active transportation.\(^\text{69, 79, 84}\)
> Children are less likely to walk or cycle when their parents perceive that driving saves time,\(^\text{85}\) and when they grant their child less independent mobility.\(^\text{69}\)

Together, these findings show substantial contributing factors to disparities in active transportation in Canada. Further research and interventions are needed to address these disparities.

INTERNATIONAL COMPARISONS

The most robust data are available regarding active transportation in relation to the trip to and from school.\(^\text{38}\) The percentage of children and youth in Canada, the United States, the United Kingdom, Australia and New Zealand who bike to/from school is low (Table 2). The prevalence of biking or walking to/from school in countries from continental Europe and in China is relatively high compared to what is seen in North America, the United Kingdom and Australasia.
Table 2. School travel mode of children and youth by country (source: adapted from McDonald 2012\textsuperscript{86} and used by permission).

<table>
<thead>
<tr>
<th>Countries</th>
<th>Survey year</th>
<th>Respondent ages (years)</th>
<th>Bike (%)</th>
<th>Walk (%)</th>
<th>Car (%)</th>
<th>Other (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Netherlands</td>
<td>2000s</td>
<td>5-12</td>
<td>49</td>
<td>37</td>
<td>14</td>
<td>0</td>
</tr>
<tr>
<td>Switzerland</td>
<td>2005</td>
<td>6-14</td>
<td>17</td>
<td>55</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Germany</td>
<td>2008/9</td>
<td>5-14</td>
<td>14</td>
<td>33</td>
<td>19</td>
<td>34</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>2009</td>
<td>5-10</td>
<td>1</td>
<td>50</td>
<td>42</td>
<td>7</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>2009</td>
<td>11-16</td>
<td>3</td>
<td>38</td>
<td>22</td>
<td>37</td>
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<tr>
<td>United States</td>
<td>2009</td>
<td>5-14</td>
<td>1</td>
<td>10</td>
<td>51</td>
<td>36</td>
</tr>
<tr>
<td>Jiangsu Province, China</td>
<td>2002</td>
<td>12-14</td>
<td>B: 66</td>
<td>G: 63</td>
<td>B: 25</td>
<td>G: 21</td>
</tr>
<tr>
<td>Odense, Denmark</td>
<td>1999</td>
<td>9</td>
<td>B: 38</td>
<td>G: 38</td>
<td>B: 28</td>
<td>G: 24</td>
</tr>
<tr>
<td>Odense, Denmark</td>
<td>1999</td>
<td>15</td>
<td>B: 67</td>
<td>G: 64</td>
<td>B: 21</td>
<td>G: 21</td>
</tr>
<tr>
<td>Umea, Sweden</td>
<td>1994</td>
<td>6 &amp; 9</td>
<td>31</td>
<td>41</td>
<td>18</td>
<td>10</td>
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<tr>
<td>Perth, Australia</td>
<td>1994</td>
<td>6 &amp; 9</td>
<td>6</td>
<td>31</td>
<td>62</td>
<td>1</td>
</tr>
<tr>
<td>Melbourne, Australia</td>
<td>1994</td>
<td>6 &amp; 9</td>
<td>3</td>
<td>35</td>
<td>61</td>
<td>1</td>
</tr>
<tr>
<td>Victoria, Australia</td>
<td>2006</td>
<td>5-12</td>
<td>4</td>
<td>23</td>
<td>64</td>
<td>9</td>
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<tr>
<td>Province of Ontario, Canada</td>
<td>2000</td>
<td>5-14</td>
<td>4</td>
<td>58</td>
<td>28</td>
<td>10</td>
</tr>
<tr>
<td>Toronto, Canada</td>
<td>2006</td>
<td>11-13</td>
<td>2</td>
<td>45</td>
<td>26</td>
<td>27</td>
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<tr>
<td>Toronto, Canada</td>
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<td>43</td>
<td>34</td>
<td>22</td>
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<tr>
<td>Montreal, Canada</td>
<td>1994</td>
<td>6 &amp; 9</td>
<td>2</td>
<td>48</td>
<td>14</td>
<td>36</td>
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<tr>
<td>Auckland, New Zealand</td>
<td>1994</td>
<td>6 &amp; 9</td>
<td>1</td>
<td>40</td>
<td>55</td>
<td>4</td>
</tr>
<tr>
<td>Baltimore, United States</td>
<td>1994</td>
<td>6 &amp; 9</td>
<td>0</td>
<td>55</td>
<td>38</td>
<td>7</td>
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</table>

Note: B - boys; G - girls
61% of Canadian parents agree that their kids spend too much time watching TV or using the computer.\textsuperscript{17}

<table>
<thead>
<tr>
<th>Age (Years)</th>
<th>Hours</th>
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<tbody>
<tr>
<td>3-4</td>
<td>5.8</td>
</tr>
<tr>
<td>5-11</td>
<td>7.6</td>
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<tr>
<td>12-17</td>
<td>9.3</td>
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</table>

Kids aged 3-4 spend 5.8 hours a day being sedentary, those aged 5-11 spend 7.6 hours and those aged 12-17 spend 9.3 hours.\textsuperscript{2009-11 CHNS}
**SEDENTARY BEHAVIOURS**

**THIS YEAR’S GRADE IS AN F BECAUSE THE BEST AVAILABLE EVIDENCE CONTINUES TO REVEAL THAT A LOW PERCENTAGE OF CHILDREN AND YOUTH ARE MEETING THE CANADIAN SEDENTARY BEHAVIOUR GUIDELINES.** The presence of age and gender disparities also contributes to the failing grade.

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<tr>
<td>GRADE</td>
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<td>D–</td>
<td>D–</td>
<td>D</td>
<td>F</td>
<td>F</td>
<td>F/INC*</td>
<td>F/INC*</td>
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<tr>
<td>BENCHMARK</td>
<td>A 81–100%</td>
<td>B 61–80%</td>
<td>C 41–60%</td>
<td>D 21–40%</td>
<td>F 00–20%</td>
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In 2011 and 2012 there were 2 separate indicators: Screen-Based Sedentary Behaviours (graded F in both years) and Non-Screen Sedentary Behaviours (graded Incomplete in both years). Following 2012, these indicators were collapsed into a single indicator.

**KEY FINDINGS**

- 18% of 3- to 4-year-olds in Canada meet the Canadian Sedentary Behaviour Guidelines for the Early Years, which recommend that daily screen time (i.e., use of computers, television, etc.) be limited to less than 1 hour (2009-11 CHMS).
- 69% of 5- to 11-year-olds in Canada meet the Canadian Sedentary Behaviour Guidelines for Children and Youth, which recommend daily screen time of no more than 2 hours (2009-11 CHMS).
- 31% of 12- to 17-year-olds in Canada meet the Canadian Sedentary Behaviour Guidelines for Children and Youth (2009-11 CHMS).
- 19% of 10- to 16-year-olds in Canada meet the Canadian Sedentary Behaviour Guidelines for Children and Youth (2009-10 HBSC).
- 11% of Grade 9 to 12 students in most provinces/territories in Canada meet the Canadian Sedentary Behaviour Guidelines for Youth (2010-11 YSS).57
- 73% of parents in Canada report that their 5- to 19-year-olds watch television, read or play video and computer games during the after-school period, that is, between the end of the school day and suppertime (2011-12 CANPLAY, CFLRI).63
- 61% of Canadian parents strongly or somewhat agree that their children/youth spend too much time watching television or using the computer (2013 PHE Canada).17
- 3- to 4-year-olds spend approximately 5.8 hours per day in sedentary behaviours. Children and youth spend approximately 7.6 and 9.3 hours per day, respectively, in sedentary behaviours (2009-11 CHMS, Statistics Canada).
RECOMMENDATIONS

▶ Parents should remove televisions, cellphones and other screens from children’s bedrooms because their nighttime use is associated with lower physical activity levels, increased body weight and poor sleep.89
▶ Parents should be encouraged to establish household rules for television and computer use, and set reasonable limits.
▶ Educators should plan for opportunities to break up sedentary time throughout the day.
▶ Increase awareness around the importance of breaking up sitting time throughout the day.
▶ Interventions that seek to reduce sedentary time among adolescent girls should include strategies that break up prolonged sedentary time during the school day and in the evening.90

RESEARCH GAPS

▶ Research should better differentiate the effects of screen-based vs. non-screen sedentary behaviours and their influence on health indicators.
▶ Research should develop methodologies to assess non-screen-time sedentary behaviour.


The Canadian Sedentary Behaviour Guidelines by Age Group

For the early years: 0-4 years

Guidelines
▶ For healthy growth and development, caregivers should minimize the time infants (aged less than 1 year), toddlers (aged 1-2 years) and preschoolers (aged 3-4 years) spend being sedentary during waking hours. This includes prolonged sitting or being restrained (e.g., stroller, high chair) for more than one hour at a time.
▶ For those under 2 years, screen time (e.g., TV, computer, electronic games) is not recommended.
▶ For children 2-4 years, screen time should be limited to under one hour per day; less is better.

For children: 5-11 years

Guidelines
For health benefits, children aged 5-11 years should minimize the time they spend being sedentary each day. This may be achieved by:
▶ Limiting recreational screen time to no more than 2 hours per day; lower levels are associated with additional health benefits.
▶ Limiting sedentary (motorized) transport, extended sitting and time spent indoors throughout the day.

For youth: 12-17 years

Guidelines
For health benefits, youth aged 12-17 years should minimize the time they spend being sedentary each day. This may be achieved by:
▶ Limiting recreational screen time to no more than 2 hours per day; lower levels are associated with additional health benefits.
▶ Limiting sedentary (motorized) transport, extended sitting and time spent indoors throughout the day.

Source: Canadian Society for Exercise Physiology12

One of the most significant developments over the past 10 years is the evolving nature and increasing allure of screen-based sedentary pursuits. At least 2 decades ago, TV was the only screen-based sedentary pursuit – now we have multiple options, including video games and cellphones, which are available from more locations (e.g., school, community centres as well as home) thanks to WiFi. We now have an increased understanding of the harmful nature of sedentary behaviour notwithstanding whether physical activity guidelines are met. This has led to a more nuanced recommendation than 10 years ago: rather than simply replacing sedentary time with physical activity, current recommendations suggest moving more AND sitting less.

“Given the mounting evidence for the negative health consequences associated with sedentary behaviour, the tracking of this indicator by the Report Card is an extremely valuable contribution to public health. The grade of F for 2014 highlights the pressing need to develop effective interventions and communication strategies to improve this grade.”

— Dr. Peter Katzmarzyk, member of the Report Card Research Work Group
There are age-related differences in sedentary pursuits during the after-school period. A greater percentage of 11- to 14-year-olds (77%) watch television, read or play video and computer games during these hours compared to 15- to 19-year-olds (70%). In girls, a greater percentage of 5- to 14-year-olds (73% of 5- to 10-year-olds; 75% of 11- to 14-year-olds) engage in these particular sedentary pursuits compared to 15- to 19-year-olds (66%). Recent research suggests that sedentary time may also differ by socioeconomic position. Although the relationship between socioeconomic position and sedentary time in children is not well understood, a study in England revealed a relationship between low socioeconomic position and increased television time. However, lower socioeconomic position was also associated with lower total sedentary time.

Figure 16. Percentage of 5- to 19-year-olds in Canada who, according to parents, watch television, read or play video and computer games during the after-school period, by age and gender (source: 2011-12 CANPLAY, CFLRI).
INTERNATIONAL COMPARISONS

Self-report sedentary behaviour data on representative samples of children and youth from 39 countries around the world reveals that 56%, 65% and 63% of 11-, 13- and 15-year-olds, respectively, watch 2 or more hours of television per day on weekdays.23 The percentage of 11-year-old girls (56%) and boys (64%) in Canada who report at least 2 hours of television viewing per day exceeds the international average for girls (54%) and boys (56%). However, television viewing time among 13- and 15-year-olds in Canada is at or below the international average for each age and gender group.

In a study of parents from 25 countries around the world, 44% of parents agreed that their children spend too much time watching television or playing electronic games. The percentage of Canadian parents who agreed with this statement was equal to the international average (44%).41

Figure 17. Percentage of parents from 25 countries who agree their children spend too much time watching television or playing electronic games (source: adapted from 2010 IKEA Play Report41 and used by permission.)
56%, 65% and 63% of 11-, 13- and 15-year-olds, respectively, watch 2 or more hours of television per day on weekdays.
79% of parents support their kids’ physical activity financially (e.g., through fees, equipment).

But

Only 37% of parents say they often played active games with their children in the past year.
FAMILY & PEERS

THE BENCHMARKS FOR THIS INDICATOR RELATE TO FAMILY PHYSICAL ACTIVITY AND PEER INFLUENCE. Since there continues to be a lack of gradable data for peer influence, the grade is informed only by family physical activity data. Parental support for physical activity is high, but parental physical activity modelling is lacking, thus making the grade a C rather than a B.

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<tbody>
<tr>
<td>FAMILY PHYSICAL ACTIVITY GRADE</td>
<td>D/C-</td>
<td>D-/D/D*</td>
<td>D</td>
<td>D/</td>
<td>B*</td>
<td>C</td>
<td>D</td>
<td>D*</td>
<td>D*</td>
<td>C</td>
</tr>
<tr>
<td>PEER INFLUENCE GRADE</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>INC</td>
<td>INC</td>
<td>INC</td>
<td>INC</td>
<td>INC</td>
<td>C</td>
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</tbody>
</table>

BENCHMARK

- A 81-100%
- B 61-80%
- C 41-60%
- D 21-40%
- F 00-20%

- Percentage of parents who facilitate physical activity and sport opportunities for their children (e.g., volunteering, coaching, driving, paying for membership fees and equipment).
- Percentage of parents who meet the Canadian Physical Activity Guidelines for Adults.
- Percentage of parents who are physically active with their kids.
- Percentage of children and youth with friends and peers who encourage and support them to be physically active.
- Percentage of children and youth who encourage and support their friends and peers to be physically active.

* In 2005 there were 2 separate indicators: Family Physical Activity and Ensuring Kids are Active. In 2006 there were 3 separate indicators: Family Physical Activity, Ensuring Kids are Active and Parent Perspectives on Activity. In 2008 there were again 2 separate indicators: Family Perceptions & Roles Regarding Physical Activity and Ensuring Kids are Active.
KEY FINDINGS

- 79% of parents report contributing financially to their kids’ physical activity (e.g., purchasing equipment, paying membership fees) (2010-11 PAM, CFLRI).97
- 64% of parents report taking their kids to physical activities and/or sport often or very often (2010-11 PAM, CFLRI).97
- 37% of parents report volunteering outside of school for their kids’ physical activities and/or sports in the past year (2010-11 PAM, CFLRI).97
- 21% of parents report volunteering at school (e.g., supervising recess, helping at a physical activity or sporting event) in the past year (2010-11 PAM, CFLRI).97
- 37% of parents report playing active games with their kids often or very often (2010-11 PAM, CFLRI).97
- 19% of 18- to 39-year-olds and 13% of 40- to 59-year-olds in Canada meet the Canadian Physical Activity Guidelines for Adults,98 which recommend at least 150 minutes of weekly MVPA (2007-11 CHMS, Statistics Canada).99
- Parents of 5- to 19-year-olds in Canada who report being substantially more active than their peers are more likely to report that their kids participate in unorganized physical activities and sports during the after-school period compared to parents who report being slightly less active than their peers (2011-12 CANPLAY, CFLRI).27

Figure 18. Percentage of parents who are involved in their children and youth’s physical activity in a volunteering and/or financial capacity (source: 2010-11 PAM, CFLRI97).

"It has been consistently shown over the past 10 years that parents positively support their children’s physical activity by registering and paying for fees, volunteering in a variety of ways, and encouraging their children to be physically active. However, most parents continue to not be physically active role models for their children.”

– Dr. Angie Kolen, member of the Report Card Research Work Group
RECOMMENDATIONS

- Parents are encouraged to reduce their own and their children’s sedentary time, particularly sedentary time in front of screens.
- Parents are encouraged to regularly plan for physical activities for their children and family on evenings, weekends and holidays.
- Since physical inactivity is a problem for Canadians of all ages, interventions could encourage families as a whole to be physically active and reduce sedentary time together.
- Parents should be encouraged to spend time with their children in healthy outdoor activities such as biking, walking and swimming. Parents are important physical activity role models for their children.
- Parents should take advantage of opportunities for active transportation with their children and youth in their daily routine (e.g., when shopping; walking between big box stores rather than driving).
- Parents should be assisted in strategizing opportunities to be physically active with their children versus watching their children be active.
- Social marketing efforts should place increasing emphasis on a mix of strategies to increase physical activity. Key strategies such as active play and active transportation allow both parents and kids to be active, and also come with fewer costs and greater ease of access.

RESEARCH GAPS

- More research is needed to understand parents’ perceptions of their kids’ physical activity and of their motivations for being physically active.
- More research is needed on the influence of peers on children’s physical activity.
- A greater understanding is needed of how different parenting styles (e.g., hyper-parenting such as the Helicopter Parent) influence physical activity in young people.
**Contributing Factors and Disparities**

There are age, gender and socioeconomic disparities in parental influences on child and youth physical activity. For example, a greater percentage of 25- to 44-year-old parents report playing active games with their children or youth (46%) or taking their children and youth to their physical activities often or very often (67%), compared to 45- to 64-year-old parents (27% and 61% respectively). More fathers and/or male guardians (42%) report playing active games with their children and youth often or very often compared to mothers and/or female guardians (32%). However, more mothers (24%) report volunteering at school (e.g., supervising recess, helping out at a school physical activity event) compared to fathers (18%).

Parents’ support of their children’s and youths’ physical activity (e.g., financial contributions, transportation to physical activity and sporting events) generally increases with higher parental education and household income levels. The same positive relationship is generally observed between parents’ physical activity levels and parental support for their kids’ physical activities.

**Literature Synthesis**

**Family Physical Activity**

The family environment has an important influence on the physical activity levels of children and youth. A recent study demonstrated that as the number of steps taken by parents increased, so did the quantity taken by their children. Other family factors, including the number of siblings, family visits to the park, family participation in sport, parents’ screen time and degree of kids’ freedom to play outside, also influence physical activity levels.

**An Active Pregnancy May Promote the Child’s Lifelong Activity Engagement**

It is well established that physical activity improves both physical and mental health in the mother (see Why is Physical Activity Important? on page 7). Physical activity during pregnancy also improves both maternal and fetal outcomes, limiting the mother’s risk of gestational diabetes (high blood sugar levels during pregnancy) and optimizing the newborn’s birth weight, in addition to enhancing the developing baby’s well-being while in the mother’s womb. Adding to the mounting list of benefits provided by physical activity, new research suggests that the quantity of the mother’s physical activity in the third trimester is associated with resting fetal heart effects similar to a trained response. In other words, the baby can adapt and respond to the mother’s physical activity habits. A follow-up study revealed that the beneficial adaptations of maternal physical activity continue following childbirth. Infants of mothers who participated in regular physical activity during pregnancy have higher heart rate variability and lower resting heart rates compared to infants of mothers who were not physically active during pregnancy. Overall, it appears that a physically active pregnancy is not only beneficial to the health of the mother and developing baby during pregnancy, but extends into the postpartum period and benefits the child after delivery. What better way to engage the entire family in active living? An early start may just be the best start.

**Peer Influence**

There is limited research on the influence that peers have on child and youth physical activity; however, children and youth often report that they enjoy being physically active with their friends. Additionally, peer encouragement related to being physically active is positively associated with physical activity, and children and youth who have friends who are active are more likely to be active themselves.
INTERNATIONAL COMPARISONS

In 2010, parents of children aged 0 to 12 years from 25 countries around the world were asked about the average time they spend in all types of play with their children during a typical week. Canadian parents reported 14.4 hours per week, which is on par with the 14.3 hours per week average across all countries (Figure 19).41

Figure 19. Self-reported hours per week that parents spend in all types of play with their children (source: adapted from 2010 IKEA Play Report41 and used by permission).
55% of Canadian school administrators report having a fully implemented policy for daily PE for all students. 

82% of parents agree that the education system should place more importance on providing quality PE.
This year’s grade is informed by data that relates to Physical Education (PE) and Physical Activity Participation at School, School Policy and Programming, and School Infrastructure and Equipment. Results are generally in the C range with school infrastructure and equipment data in the B range; therefore, the grade is a C+.

Percentage of schools with active school policies (e.g., daily PE, Daily Physical Activity, recess, “everyone plays” approach, bike racks at school, traffic calming on school property, outdoor time).

Percentage of schools where the majority (≥ 80%) of students are taught by a PE specialist.

Percentage of schools where the majority (≥ 80%) of students are offered at least 150 minutes of PE per week.

Percentage of schools that offer physical activity opportunities (excluding PE) to the majority (≥ 80%) of their students.

Percentage of parents with children and youth who have access to physical activity opportunities at school in addition to PE classes.

Percentage of schools with students who have regular access to facilities and equipment that support physical activity (e.g., gymnasium, outdoor playgrounds, sporting fields, multi-purpose space for physical activity, equipment in good condition).

---

* From 2005 to 2012 there were 2 separate indicators: Physical Education and Sport & Physical Activity Opportunities at School. In 2013, these indicators were collapsed into a single indicator.

** From 2009 to 2012 there were 2 separate indicators: School Policy and Sport & Physical Activity Opportunities at School. In 2013, these indicators were collapsed into a single indicator.

### Yearly Grades

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<td>-/C*</td>
<td>C-/B-</td>
<td>C-/C*</td>
<td>C-/B*</td>
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<td>-/INC**</td>
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<td>C/B-**</td>
<td>C/C**</td>
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### Benchmark

- A 81–100%
- B 61–80%
- C 41–60%
- D 21–40%
- E 00–20%
KEY FINDINGS

School Policy & Programming
► All provinces/territories in Canada have a PE curriculum (policy) but the requirements for high school students, who are most at risk for low physical activity, vary dramatically. Manitoba is the only province that requires a PE credit (or equivalent) in all high school years.
► 11 of 13 provinces/territories have comprehensive school health initiatives in place or underway.110
► 55% of school administrators in Canada report having a fully implemented policy for daily PE for all students (2011 OPASS, CFLRI).68 Between 2006 and 2011, there has been a 57% increase in the percentage of schools in Canada with a fully implemented policy for daily PE for all students.
► 45% of elementary schools in Ontario have a PE specialist.111 New Brunswick requires all elementary schools to have a PE specialist.
► 83% of school administrators in Canada report having a fully implemented policy to provide daily recess to their students. 45% of schools report having a fully implemented policy to hire teachers with a university qualification to teach PE. Neither percentage has changed since 2006 (2011 OPASS, CFLRI).68
► 59% of school administrators in Canada report having a fully implemented policy to provide students with a number of physical activity options such as competitive and non-competitive activities (2011 OPASS, CFLRI).68 The overall percentage of schools that report a fully implemented policy has not changed since 2006.
► 40% of school administrators in Canada report having a fully implemented policy that ensures the allocation of funding for student equipment (2011 OPASS, CFLRI).68 The overall percentage of schools that report a implemented policy has not changed since 2006.
► 24% of school administrators in Canada report having a fully implemented policy that ensures an “everyone plays” approach (2011 OPASS, CFLRI).68 Again, the overall percentage of schools that report a fully implemented policy has not changed since 2006.

School Infrastructure & Equipment
► School administrators in Canada report that a number of amenities are available during school hours including gymnasiums (95%), playing fields (91%) and areas with playground equipment (73%) (2011 OPASS, CFLRI).112
► A majority of school administrators in Canada report that their students have access to bicycle racks (79%) and change rooms (75%) during school hours.113
► 95% of school administrators report that students have regular access to a gymnasium during school hours (2009-10 HBSC).
► A large majority also report that students have access to outdoor facilities (89%) and gyms (84%) outside of school hours (2009-10 HBSC).
► School administrators report that grades 6-10 students have regular access to an outdoor field (83%), an outdoor paved area (61%) or a large room indoors (59%) for physical activity. 85% and 70% of school administrators agree/strongly agree that their school’s gymnasium and playing field are in good condition, respectively. A majority of school administrators report that students have access to indoor facilities (68%) and equipment (56%) outside of school hours (2009-10 HBSC).

Schools offer a key opportunity to reach the majority of children and youth in Canada. Several high-quality programs and services are widely available to support the delivery of physical education and physical activity in schools and many jurisdictions have established new policies and investments to increase physical activity during the after-school time period.11 However, a gap remains between the existence of policies and programs and their implementation by schools.

“We now have evidence that demonstrates physical activity during the school day contributes to student academic success; however, this has not consistently translated to changes in Canadian schools. Resource and liability issues are partly to blame. Beyond that, health and education advocates and researchers need to engage schools and governments to jointly ensure the school setting is contributing to overall student welfare via physical activity.”

— Dr. Stephen Manske, member of the Report Card Research Work Group
Physical Education & Physical Activity Participation at School & in Childcare Settings

- In 2010-11, 77% of parents reported that their children’s (5- to 17-year-olds) school offers programs outside of PE classes for sport and physical activity, which is an increase from 68% in 2000 (2010 PAM, CFLRI).
- 52% of parents say their children (5- to 17-year-olds) participate in sport and/or physical activity programs at school (2010-11 PAM, CFLRI).
- 52% of students in grades 6 to 12 across most Canadian provinces report participation in intramurals or school team sports (2010-11 YSS).

Figure 20. Availability of large-scale facilities at schools in Canada during school hours (source: 2011 OPASS, CFLRI112).

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55% of Canadian school administrators report having a fully implemented policy for daily PE for all students.

Figure 21. Total number of Quality Daily Physical Education Award recipients by year, 2004-13 (source: PHE Canada). Note: the application period in 2012-13 was shortened to 3 months. There are currently 15,513 schools in Canada (inclusive of public/private, First Nations and elementary/secondary schools).
RECOMMENDATIONS

▶ It is recommended that schools take a comprehensive approach to enhance physical activity opportunities and participation among children and youth; this should include opportunities in the teaching and learning environment; Healthy School Policy; Physical and Social Environments; and Partnerships and Services.

▶ Ministries of Education and school boards should increase training, support and accountability for implementing PE according to their provincial/territorial policies.

▶ School Boards/schools/principals are encouraged to continue to put efforts into implementing their policies regarding recess, which should happen for at least 15 minutes twice daily.

▶ School boards/schools/principals should continue to provide access to various locations and equipment for physical activity within the school and on the school grounds.

▶ PE in schools in all grades and with a PE specialist teaching in all grades should be mandated.

▶ Non-traditional physical activity needs to be addressed and groups targeted who are known to have lower levels and who tend to get the majority of their physical activity only at school (e.g., adolescents girls). This may require adaptation of current space to allow for new activities (e.g., yoga or dance room).

▶ Consider opportunities to encourage children and youth to move more and sit less throughout the day, through a mix of strategies for different time periods (before school, during curriculum time, recess, lunch hour, after school).

▶ Ensure that early childcare educators, daycare operators and after-school program providers understand and value the role of physical activity (active free play, structured activities) and have the capacity to implement physical activity programs.

▶ Work toward policies that require preschool, childcare and after-school care programs to implement and monitor physical activity for a minimum amount of time daily.

RESEARCH GAPS

▶ Research is needed on the possible disconnect between school physical activity policies and participation rates.

▶ Better data are needed on the quality of physical activity participation (e.g., frequency, intensity, time) at school.

▶ More research is needed to determine how much PE and intramurals contribute to daily MVPA.

▶ More research is needed on physical activity in childcare settings.

▶ Research is needed to explore the link between physical activity before or during the school day and student success.

▶ There is a need to evaluate Daily Physical Activity policies and its alternatives (e.g., extending curriculum time with explicit activity targets) in all provinces where it is being implemented.

11 of 13 provinces/territories have comprehensive school health initiatives in place or underway.110
Principals are encouraged to continue to put efforts into implementing their policies regarding recess, which should happen for at least 15 minutes twice daily.
Physical Activity Promotion in Childcare Settings
The preschool environment has the potential to promote physical activity in young children. Research suggests that in order to get children to move more, it is important to motivate childcare providers. Childcare providers must perceive that their director, parents and co-workers value their role as physical activity promoters. Perceived barriers (e.g., time, space, inclement weather) must also be overcome by developing contingency plans and strategies that are specific to childcare settings.

Relationship Between School Environment Features and Physical Activity
In a large Ontario study of secondary school students, administrators reported that all students had access to a gymnasium and a room with cardio and weight equipment during school hours. Among male and female students, the only feature of the school environment that was associated with increased physical activity was having access to an alternate room that was converted for physical activity purposes. No differences existed among urban, suburban and rural schools in terms of infrastructure and equipment (e.g., alternate room for physical activity, dance studio, swimming pool, baseball diamond, outdoor hoops, tennis court, paved areas for games, bicycle racks or a skating rink). A significantly higher percentage of urban than rural schools reported not having a running track on school grounds although access to a track was not associated with an increase in activity levels.

Literature Synthesis
What Canadians Think About PE
A recent opinion poll surveyed Canadians to learn about their views on PE, and results revealed a high level of support. For example, approximately 90% of parents in Canada view PE as very or somewhat important. 82% of parents in Canada strongly or somewhat agree that the education system should place more importance on providing quality PE. 85% of parents strongly or somewhat support devoting more time to PE when told that it will not negatively impact academic achievement. Further, 77% of parents in Canada are satisfied with the quality of PE teaching.

International Study of Childhood Obesity, Lifestyle and the Environment (ISCOLE)
ISCOLE is an international study of approximately 6,000 10-year-olds from 12 countries in 5 geographic regions of the world (Europe, Africa, Americas, Southeast Asia, Western Pacific). Physical activity data relating to a number of settings, including the school environment, have been collected. Canadian data were collected from administrators at several schools (a convenience sample) in the Ottawa area; results reveal the following about school policies as well as school infrastructure and equipment:

- 35% of the participating schools in Ottawa reported having a committee that oversees/offers guidance on the development of policies and practices on physical activity.
- 8% of the schools reported that at least half of their students participated in varsity/ interschool athletics.
- 15% of the schools reported that at least half of their students participated in intramural athletics or physical activity clubs.
- 50% of the schools reported using physical activity as a reward a lot or some of the time.
- 96% of the schools reported promoting physical activity during, or as part of, special events a lot or some of the time.
- 65% of the schools reported integrating physical activity into other curriculum areas a lot or some of the time.
- According to the schools, the majority of students have regular access to the following during school hours: gymnasium (100%), fitness room for aerobic and/or strength training (100%), outdoor sports field (81%), outdoor paved area (100%), grassy playground area (85%) and playground equipment (96%).
- Outside of school hours, the schools in Ottawa permit regular student access to gymnasiums (77%), indoor facilities (58%) and equipment (31%).

Pan-Canadian Joint Consortium for School Health
The Pan-Canadian Joint Consortium for School Health (JCSH) was established by provincial/territorial and federal governments to facilitate and initiate co-operation across the health and education sectors. The focus is on providing information and support to member governments, building system capacity for promoting health through school-based and school-linked programs, and being a catalyst for collaborative activities and actions. The JCSH is funded by a $250,000 annual contribution from the Public Health Agency of Canada and a matched contribution of $250,000 from 12 provincial/territorial ministries of education (except Quebec). This is a 5-year funding commitment that began April 1, 2010. Currently, 11 of 13 provinces/territories have comprehensive school health initiatives in place or underway (see page 72).
INTERNATIONAL COMPARISONS

"Internationally, PE appears to have lost ground seriously over recent years. Quantified, this loss amounts to 15-20% of weekly time allocation, due to cost-reduction or space-making for more theoretical or new school subjects ... in many countries, there is a clear discrepancy between curricular demands and actual practice. Unsatisfactory infrastructure, lack of equipment, poor financial resources, poor attainment of the goals set, low qualification of primary teachers of PE teachers in general, a gap between policy and practice, curricular demands that exceed teacher competence, over-sized classes and other problems abound." 122

CONTRIBUTING FACTORS AND DISPARITIES

Schools with fewer than 200 students are less likely to report the availability of gymnasiums and playing fields compared to larger schools.121 However, 90% of these smaller schools still report the availability of a gymnasium for their students. Generally, the percentage of schools reporting the availability of other types of rooms and facilities for physical activity (e.g., dance studios, swimming pools, tennis courts) increases with student population size. Yet there are substantial decreases in the percentage of larger schools reporting access to areas with playground equipment during school hours. Schools in smaller communities are generally less likely to report the availability of gymnasiums, fitness centres or weight rooms, but are more likely than schools in some large communities to report the availability of baseball diamonds and areas with playground equipment.
95% of parents report local availability of parks and outdoor spaces. 123

59% of adults report living in a neighbourhood that supports overall physical activity (e.g., has bike lanes, is walkable). 133
This year’s benchmarks relate to community policy and programming, availability of infrastructure (e.g., parks and playgrounds), neighbourhood safety, and nature and the outdoors. Data to inform the grade were available only for the Community Policy & Programming and Availability of Facilities, Programs, Parks & Playgrounds benchmarks. Results for these benchmarks are in the A and B ranges; therefore, the grade is a B+.

### Community Policy & Programming Grade

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### Benchmark Grades

- **A**: 81-100%
- **B**: 61-80%
- **C**: 41-60%
- **D**: 21-40%
- **F**: 00-20%

- Percentage of children or parents who perceive their community/municipality is doing a good job at promoting physical activity (e.g., variety, location, cost, quality).
- Percentage of communities/municipalities that report they have policies promoting physical activity.
- Percentage of communities/municipalities that report they have infrastructure (e.g., sidewalks, trails, paths, bike lanes) specifically geared toward promoting physical activity.
- Percentage of children or parents who report having facilities, programs, parks and playgrounds available to them in their community.
- Percentage of children or parents who report living in a safe neighbourhood where they can be physically active.
- Percentage of children or parents who report having well-maintained facilities, parks and playgrounds in their community that are safe to use.
- Percentage of children and youth who report being outdoors for several hours a day.

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* In the years prior to 2013, there were 2 separate indicators: Municipal Policies & Regulations and Community Programming. In 2013, these indicators were collapsed into a single indicator: Community Policy & Programming.

** In 2005 and 2006, this indicator was called Proximity & Availability of Facilities, Programs, Parks & Playgrounds. The 2007 grade reflects both availability and usage. In all other years, availability was graded on its own.
**KEY FINDINGS**

**Availability**

- 95% of Canadian parents report that parks and outdoor spaces are available for their children and youth (2010-11 PAM, CFLRI).^{123}
- 94% of Canadian parents report that local public facilities and programs, such as swimming pools, arenas and leagues, are available for their children and youth (2010-11 PAM, CFLRI).^{123}
- 79% of Canadian parents report the availability of other places in their community (e.g., schoolyard after hours) where their children and youth can be physically active (2010-11 PAM, CFLRI).^{123}
- 63% of Canadian parents report the availability of commercial facilities, including YM/YWCAs, and programs in their community where their children and youth can be physically active (2010-11 PAM, CFLRI).^{123}

**Participation**

- According to parents, 67% of 5- to 19-year-olds in Canada participate in outdoor play during the after-school period, that is, between the end of the school day and suppertime (2011-12 CANPLAY, CFLRI).^{27}
- According to parents, 65% of 5- to 17-year-olds in Canada play outdoors during the after-school period (2010-11 PAM).^{37}
- Canadian children and youth who play outdoors during the after-school period take 1,940 more daily steps than those who do not play outdoors (2011-12 CANPLAY, CFLRI).^{27}

**RECOMMENDATIONS**

- Provide time in facility schedules for drop-in, spontaneous activities. Many arenas and gyms are booked for organized activities that do not serve all children and youth.
- Create more effective means of making children, adolescents and their parents aware of what facilities, programs, parks and playgrounds exist in their neighbourhood, including hours of service and/or supervision.
- Assist parents to manage safety concerns through policies (e.g., traffic speed enforcement, provision of crossing guards) and strategies (e.g., neighbourhood watch program, walking school bus, shared supervision) so that children have greater independent mobility to actively travel with friends to places to be physically active.
- Municipalities should conduct a health impact assessment when they do their planning (e.g., to approve a new subdivision or road) or implement a new policy (e.g., consider any negative implications the policy will have on outdoor play).

---

**10 YEAR COMMENTARY**

“While Canadians increasingly report the availability and suitability of physical activity – promoting structures and programs, the utilization of this supportive environment continues to lag. Evidence from the active play indicator suggests that less focus on structure(s) may represent an untapped movement opportunity.”

- Dr. Mark S. Tremblay, Chief Scientific Officer, Active Healthy Kids Canada

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94% of Canadian parents report that local public facilities and programs, such as swimming pools, arenas and leagues, are available for their children and youth (2010-11 PAM, CFLRI).^{123}
RESEARCH GAPS

- Research is needed to better understand the varying outdoor play experiences of children and youth in and between seasons.\textsuperscript{124}
- Experimental evidence is needed on how changes to the built environment influence the physical activity of children and youth. Such evidence could come from natural experiments that are evaluated by local communities.
- Further research is required in examining the potential disconnect between the availability of physical activity facilities and resources, with less than optimal uptake.

According to parents, 67\% of 5- to 19-year-olds in Canada participate in outdoor play during the after-school period, that is, between the end of the school day and suppertime (2011-12 CANPLAY, CFLRI).\textsuperscript{27}
Greater time spent outdoors is associated with higher levels of physical activity in preschoolers and children.
Literature Synthesis

Perceived Neighbourhood Safety and Independent Mobility
As stated in a previous Report Card, independent mobility refers to the freedom kids have to move around in their neighbourhood or city without adult supervision. Independent mobility is an important contributor to children’s physical activity. A recent study revealed that parental perceptions of sidewalk and street safety strongly predicted independent mobility. Interestingly, parental safety concerns may reinforce the use of motorized vehicles, which, in turn, can heighten parental concerns about safety due to fast-moving vehicles, irresponsible drivers and absence of crossing facilities or adequate pathways.

The Relationship Between Outdoor Time and Physical Activity
Greater time spent outdoors is associated with higher levels of physical activity in preschoolers and children. In the case of preschoolers, outdoor time is even associated with more MVPA when compared to preschoolers’ MVPA during indoor time. Interestingly, in a study that investigated the time course for physical activity as preschool children transition from indoor to outdoor environments, physical activity levels were shown to increase when children first go outdoors, but decline the longer they are outside. This may reflect a boredom effect that could occur with prolonged exposure to any play environment. Regardless, this study highlights the importance of examining frequency and duration of outdoor play in order to optimize physical activity levels.

HIGH FIVE®
Founded by Parks and Recreation Ontario, HIGH FIVE provides quality standards for children’s (6- to 12-year-olds) recreation and sport. Their mission is to: (1) ensure that sport and recreation practitioners develop a high level of expertise in child development; (2) help parents to make informed choices; and (3) provide practitioners with tools for enhancing and maintaining a high level of program quality.

There are several areas where HIGH FIVE has grown in 2013, thus providing a measure of their impact:

- 675,000 children impacted (5% growth)
- 86,000 front-line leaders trained (15% growth)
- 9,300 supervisors trained (12% growth)
- +400 managers trained (9% growth)
- 1,300 trainers (12% growth)
- +350 registered organizations (12% growth)
- 20 accredited organizations (5% growth)
- 11 authorized providers across Canada (9% growth)

Leisure Information Network’s National Recreation Database

The Leisure Information Network is a national non-profit organization that was developed in 1995 with support from the Ontario Ministry of Tourism and Recreation, and the Fitness Program of Health Canada. The network’s vision is to be recognized as the national knowledge-based digital forum for sharing value-added information regarding individual and community nourishment and well-being through recreation, parks and healthy living. They have a number of resources available on their website including the National Recreation Database (www.lin.ca/recreation-database), which can be searched or browsed by various topics (parks and playgrounds, facilities). For more information, visit www.lin.ca.
**CONTRIBUTING FACTORS AND DISPARITIES**

Despite reports from most parents in Canada that spaces, facilities and programs are available where their children and youth can be physically active, some regional and socioeconomic disparities exist. Parents in small communities (< 1,000 residents) are less likely to report the availability of public facilities and programs in their proximity. Parents living in communities of less than 10,000 residents are least likely to report the availability of parks and outdoor spaces. Parents with a university education or from high-income households (≥ $100,000 per year) are more likely to report the availability of public and commercial facilities and programs, as well as other places to be physically active such as schoolyards after hours, compared to parents with no more than a high school education or from lower-income households ($80,000 per year or less).

**INTERNATIONAL COMPARISONS**

In a recent study, built environment features were reported by adult participants from 11 countries including Canada. Five neighbourhood patterns emerged across countries (Figure 23). Two of these patterns were associated with meeting the physical activity guidelines: overall activity supportive and high walkable and unsafe with few recreation amenities. Canada was among the countries with a higher percentage of participants belonging to an overall activity supportive neighbourhood, and a safe neighbourhood with active transport facilities. Canada was also among the countries with a lower percentage belonging to a neighbourhood characterized by high walkability but unsafe with few recreation amenities.

Figure 23. Percentage of participants, by country, belonging to latent classes that relate to community and the built environment (source: adapted from Adams et al. 2013 and used by permission).
Figure 23 continued

3. Percentage of participants, by country, belonging to the class 3 (safe with active transport facilities) neighbourhood pattern.

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium</td>
<td>27%</td>
</tr>
<tr>
<td><strong>Canada</strong></td>
<td>24%</td>
</tr>
<tr>
<td>USA</td>
<td>24%</td>
</tr>
<tr>
<td>New Zealand</td>
<td>20%</td>
</tr>
<tr>
<td>Norway</td>
<td>13%</td>
</tr>
<tr>
<td>Sweden</td>
<td>11%</td>
</tr>
<tr>
<td>Japan</td>
<td>8%</td>
</tr>
<tr>
<td>Brazil</td>
<td>7%</td>
</tr>
<tr>
<td>Lithuania</td>
<td>4%</td>
</tr>
<tr>
<td>Colombia</td>
<td>2%</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>1%</td>
</tr>
</tbody>
</table>

4. Percentage of participants, by country, belonging to the class 4 (transit and shops dense with few amenities) neighbourhood pattern.

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brazil</strong></td>
<td>70%</td>
</tr>
<tr>
<td>Japan</td>
<td>31%</td>
</tr>
<tr>
<td>Colombia</td>
<td>15%</td>
</tr>
<tr>
<td>Lithuania</td>
<td>11%</td>
</tr>
<tr>
<td>Norway</td>
<td>11%</td>
</tr>
<tr>
<td>USA</td>
<td>11%</td>
</tr>
<tr>
<td>New Zealand</td>
<td>6%</td>
</tr>
<tr>
<td><strong>Canada</strong></td>
<td>6%</td>
</tr>
<tr>
<td>Belgium</td>
<td>3%</td>
</tr>
<tr>
<td>Sweden</td>
<td>3%</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>2%</td>
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</tbody>
</table>

5. Percentage of participants, by country, belonging to the class 5 (safe but activity unsupportive) neighbourhood pattern.

<table>
<thead>
<tr>
<th>Country</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>USA</td>
<td>14%</td>
</tr>
<tr>
<td><strong>Canada</strong></td>
<td>7%</td>
</tr>
<tr>
<td>Belgium</td>
<td>5%</td>
</tr>
<tr>
<td>Japan</td>
<td>4%</td>
</tr>
<tr>
<td>Brazil</td>
<td>4%</td>
</tr>
<tr>
<td>New Zealand</td>
<td>4%</td>
</tr>
<tr>
<td>Lithuania</td>
<td>4%</td>
</tr>
<tr>
<td>Norway</td>
<td>2%</td>
</tr>
<tr>
<td>Sweden</td>
<td>2%</td>
</tr>
<tr>
<td>Colombia</td>
<td>1%</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>1%</td>
</tr>
</tbody>
</table>
INDICATORS

STRATEGIES & INVESTMENTS
12 of 13 provinces/territories have initiatives in place or underway that promote physical activity among children and youth during the after-school period.¹¹⁰

Research from the Sport Matters Group reveals that less than 1% of total healthcare spending in Canada is devoted to health promotion, physical activity/education and sport.¹⁰⁰
This year’s grade is a C because there is evidence of increased engagement and investment from the federal, provincial and territorial governments, despite ongoing, tenuous economic conditions (e.g., renewal of the Canadian Sport Policy; demonstrated commitment, planning and action to advance the Federal/Provincial/Territorial Framework on Healthy Weights). Although there is evidence of progress through the stages of policy-making, problems with the implementation of spending persist (e.g., in its current form, the Canadian Fitness Tax Credit does not meet the needs of most Canadian families), preventing the grade from being higher.

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<tbody>
<tr>
<td>FEDERAL GOVERNMENT STRATEGIES &amp; INVESTMENTS GRADE</td>
<td>C-</td>
<td>-</td>
<td>C</td>
<td>C+</td>
<td>C</td>
<td>C+/F*</td>
<td>C/F*</td>
<td>D/F*</td>
<td>C-</td>
<td>C</td>
</tr>
<tr>
<td>PROVINCIAL/ TERRITORIAL GOVERNMENT STRATEGIES &amp; INVESTMENTS GRADE</td>
<td>INC</td>
<td>-</td>
<td>C</td>
<td>C+</td>
<td>C</td>
<td>B+/C-**</td>
<td>B+/C-**</td>
<td>B+/C-**</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>

**BENCHMARK**

- A 81–100%
- B 61–80%
- C 41–60%
- D 21–40%
- F 00–20%

- Evidence of leadership and commitment in providing physical activity opportunities for all children and youth.
- Allocated funds and resources for the implementation of physical activity promotion strategies and initiatives for all children and youth.
- Demonstrated progress through the key stages of public policy making (i.e., policy agenda, policy formation, policy implementation, policy evaluation and decisions about the future).

* In years prior to 2010, there was 1 indicator: Federal Government Strategies & Investments. From 2010 to 2012, there were 2 separate indicators: Strategies and Investments. In 2013, these indicators were again collapsed into a single indicator.

** In years prior to 2010, there was 1 indicator: Provincial/Territorial Government Strategies & Investments. From 2010 to 2012, there were 2 separate indicators: Strategies and Investments. In 2013, these indicators were again collapsed into a single indicator.
**Key Findings**

**Federal Government Strategies & Investments**
- In October 2013, Canada’s Governor General, David Johnston, delivered the Speech from the Throne to open the 2nd session of the 41st Parliament and to outline the federal government’s agenda. In the speech, the Government committed to “[working] with the provinces and territories and with the private and not-for-profit sectors to encourage young Canadians to be more physically active.”

- The federal government is investing over $380 million in the 2015 Pan Am Games, which will be held in the Greater Toronto Area. The Government of Ontario may invest as much as $2.5 billion in the Games, a significant portion of which will go to sport and recreation infrastructure development.

- In 2013, the federal government spent $200 million on Canada’s sport system, $28 million of which directly supported Canada’s 1,700 Olympic-level athletes.

- The Federal, Provincial and Territorial Framework for Action to Promote Healthy Weights has moved through a number of stages: 2010 Declaration; 2010 Framework; 2011 Report of recommendations and key actions; 2011 endorsement by federal/provincial/territorial (F/P/T) ministers responsible for sport, physical activity and recreation; the 2012 Summit on Healthy Weights. In combination with the Provincial/Territorial Healthy Weights Dashboard, these actions demonstrate progress through the stages of public policy-making.

- The Public Health Agency of Canada has released *Preventing Chronic Disease Strategic Plan, 2013-16*, which will guide their investments over the next 4 years in healthy active living and chronic disease prevention.

- 78% of Canadians strongly or somewhat agree with the statement that “of the $200 billion spent on health care in Canada each year [they] support increasing the proportion spent on health promotion and disease prevention measures like physical activity, recreation or sport from less than 1 percent to 2 percent.” (2013 PHE Canada)

- 85% of Canadians strongly or somewhat agree that the F/P/T governments should devote a greater percentage of the healthcare budget to preventive measures (2013 PHE Canada). Research from the Sport Matters Group reveals that less than 1% of total healthcare spending in Canada is devoted to health promotion, physical activity/education and sport.

- There is a federal fitness tax credit.

**Provincial Government Strategies & Investments**
- At the Canada Games in August 2013, Sport, Physical Activity and Recreation Ministers approved 3 new federal/provincial/territorial priorities for collaborative action dealing with the promotion of improved access for economically disadvantaged Canadians in all contexts of sport; collaborating with sport sector stakeholders to identify priorities and strategies to improve capacity within the sport sector; and promoting opportunities for collaboration and alignment with Active Canada 20/20 and the National Recreation Framework.

- 10 of 13 provinces/territories have planning in place or underway for active and safe routes to school/travel.

- 11 of 13 provinces/territories have comprehensive school health initiatives in place or underway.

- 12 of 13 provinces/territories have initiatives in place or underway that promote physical activity among children and youth during the after-school period.

- On January 24, 2014, Ontario announced the “Healthy Kids Community Challenge” – a program offering up to $1.5 million for each of 30 communities over a 4-year period to municipalities that apply for funding of local projects and activities focused on promoting healthy living and eating for kids.

- There are 6 provincial/territorial fitness tax credits.
RECOMMENDATIONS

- The federal government should work more proactively with the physical activity sector in Canada to implement and fund a comprehensive national physical activity policy similar in nature and scope to the 2012 Canadian Sport Policy. The federal government should approve multi-year financial commitments providing sustained funding to organizations and programs providing physical activity leadership, including the implementation of Active Canada 20/20 and the National Recreation Framework.

- Of the $9 billion the federal government spends on direct operational costs related to health care (excluding provincial/territorial transfers), the amount spent on health promotion should be increased from 2% to 3% (additional investment of approximately $84 million) over 2 years. These funds should be directed to the active living unit of the Public Health Agency of Canada in order to increase the range of funding and investment available to support healthy active living, nutrition, emotional and mental resiliency, and injury prevention for Canadians, with special attention given to children and youth.

- It is proposed that the government create a recreation/sport-specific envelope of the Build Canada Infrastructure Program in order to address the multi-billion dollar sport and recreation infrastructure gap that exists in rural and urban communities across Canada. The recreation and sport infrastructure deficit is predicted to be well over $15 billion.

- Provincial/territorial governments should develop action plans based on the recommendations within Active Canada 20/20, the Canadian Sport Policy and the National Recreation Framework.

- Governments at all levels should intentionally address people with the greatest need, and access issues by targeting policies to eliminate disparities in participation levels.

- Governments at all levels need to improve the level of funding devoted to health promotion, including physical activity promotion, physical education and entry-level sport participation, to reflect the realities of cost savings to be attained in the future as a result of a more physically active population.

RESEARCH GAPS

- Governments should ensure monitoring and evaluation of policies that are designed to support physical activity for children and youth.

- Tracking and monitoring of changes in physical literacy at the national and provincial/territorial levels should be undertaken immediately in order to assess the impact of public investment in hosting major multi-sport games (e.g., Pan AM/Parapan AM Games and possible future FIFA World Cup bid).

- A comprehensive evaluation of after-school initiatives is needed to determine the effectiveness of programs and identify promising practices within the after-school setting.

- Funding should be dedicated to the evaluation of formulation and implementation of physical activity policy in Canada.
Policy can be defined as a legislative action, organized guidance or rule; it can come in the form of written codes or standards that guide choices or common practices. Both government and non-government organizations have a role to play in shaping policies that aim to increase physical activity and decrease sedentary behaviour in Canadian children and youth.

Policy development pertaining to physical activity in Canada is a complex and dynamic process that involves engagement and collaboration among different levels of government, school boards, non-government organizations and delivery partners. A helpful way to look at this process is with the Stages Model for public policy making. The stages in this model include a policy agenda, policy formation, policy adoption, policy implementation, policy evaluation and decisions about the future. The speed at which proposals move through each of these stages can vary greatly between jurisdictions and depending on the number of stakeholders involved.

This section of the Report Card includes grades for policy development and implementation. For each indicator, the following criteria are used to determine the grade:

- Evidence of leadership and commitment in providing physical activity opportunities for all children and youth.
- Allocated funds and resources for the implementation of physical activity strategies and initiatives for all children and youth.
- Demonstrated progress through the key stages of public policy making (i.e., policy agenda, policy formation, policy adoption, policy implementation, policy evaluation and decisions about the future).

Follow-Up to the United Nations Draft Declaration on Non-Communicable Diseases

In 2011, the United Nations took aim at non-communicable diseases (NCDs) by adopting a draft declaration that called for a multi-pronged campaign by governments, industry and civil society to establish by 2013 the plans needed to curb the risk factors behind the 4 groups of NCDs: cardiovascular diseases, cancers, chronic respiratory diseases and diabetes. In 2013, the 66th World Health Assembly endorsed the World Health Organization Global Action Plan for the Prevention and Control of Non-Communicable Diseases, 2013-20. One of the voluntary global targets set is a 10% reduction in the prevalence of physical inactivity. For more information, visit bit.ly/1m8VAir.

While Canada provides international leadership in the development of physical activity and sedentary behaviour guidelines, Canada is still lagging in the areas of high-level political commitment, integration of physical activity in national policies, the identification of national goals and objectives, and the evaluation of policies that have been formulated or implemented.
Raising Gas Prices Through Taxation: An Effective Physical Activity Policy?

CFLRI recently summarized research from the United States that looked at this question using data from the 2003-08 American Time Use Survey. An increase in gas prices of approximately $0.26 per litre was associated with an increase in a number of physical activities (e.g., total time spent in moderate-intensity physical activity, active transportation, leisure-time activities such as walking, running and inline skating) but not in time spent playing with children. The greatest increases in physical activity occurred during sharp fluctuations in gas prices. Changes in physical activity were disproportionate across groups of different socioeconomic status (SES), with mid-to-high SES groups changing their physical activity patterns more than low and high SES groups. Given this disproportionate effect, caution is advised when considering the use of higher gas taxes to promote physical activity as a primary policy intervention.

Canadian Municipal Active Transportation Policy Map

As discussed in the Active Transportation indicator on page 34, multiple studies have shown that compared to children who are driven to/from school, children who engage in active transportation are more active during the whole day, not just during the trip to/from school. Active travellers can accumulate as many as 45 additional minutes of daily MVPA than inactive travelers.

The Canadian Partnership Against Cancer has launched a new tool – a policy map to track active transportation policies that are available across Canada. Users are encouraged to submit data in order to expand active transportation policy information. For more information, visit bit.ly/1idKGub.

Figure 24. Screen capture of the Canadian Partnership Against Cancer’s Active Transportation Policy Map (source: Google Maps).

Healthy Kids Community Challenge

In early 2014, the Government of Ontario launched the Healthy Kids Community Challenge, a new healthy active living initiative in response to the Healthy Kids Panel report to inform the development of a strategy that is expected to reduce childhood obesity in Ontario by 20% in 5 years. Over the next 4 years, the province will provide 30 communities in Ontario with up to $1.5 million each to fund local projects and activities focused on promoting kids’ healthy living and eating habits. Communities are encouraged to partner with organizations such as schools and public health organizations to submit an application to participate in the challenge. An evaluation will be undertaken to determine the impact of this investment. For more information, visit www.health.gov.on.ca/en/public/programs/healthykids.
Only 1/3 of Canadians believe that the Children’s Fitness Tax Credit encourages or makes it easier for them to register their children in physical activity programs.¹⁴⁶
CONTRIBUTING FACTORS AND DISPARITIES

As mentioned in previous Report Cards, there are disparities associated with the federal government’s Children’s Fitness Tax Credit (CFTC). For example, Canadian families that have an annual household income greater than $20,000 are 4-30% more likely to claim the CFTC than families below an annual household income of $20,000. Additionally, compared to families with annual household incomes below $20,000, families with annual incomes between $100,000 and $200,000, and above $200,000, have CFTC claims that are $125 and $250 higher respectively. Women, 40- to 49-year-old parents, Canadians with a post-secondary education, and families with an annual household income exceeding $40,000 are more likely to be familiar with the CFTC. Finally, among Canadians who are familiar with the CFTC, less than a third believe that it motivates, encourages and/or makes it easier for them to register their children in physical activity programs.

INTERNATIONAL COMPARISONS

Physical activity is recognized internationally as 1 of the most important health-promoting behaviours, and there has been an increasing interest in its ability to reduce the risk of NCDs such as overweight and obesity. The emphasis on physical activity for health and well-being can be seen through the development of the World Health Organization’s (WHO) Global Strategy on Diet, Physical Activity, and Health (DPAH) in 2004 (WHO, 2004); and the Toronto Charter for Physical Activity in 2010. Policy interventions in public health for the promotion of physical activity, such as those based on the DPAH, have the ability to influence a great number of people. At the national level, politicians, leaders and decision makers have an opportunity to influence the amount, intensity and variety of physical activity in which children and youth engage. An Ipsos Reid poll, commissioned by the Public Health Agency of Canada, found that 60% of respondents thought the federal government is not doing enough to deal with the problem of childhood obesity. Further, 90% of those surveyed said the federal government should fund more recreational facilities for youth in their communities, and support development that makes it easier for children to incorporate walking and cycling into their daily routines. A glimpse into the policies and programs that are in place in other countries may provide a new perspective for reducing rates of childhood obesity through physical activity and healthy active living for children.
Table 3. A comparison of a selection of identified important elements of successful policies and plans for implementing physical activity promotion policies, from several countries.

<table>
<thead>
<tr>
<th>Elements</th>
<th>Description</th>
<th>Canada</th>
<th>Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>High-level Political Commitment</strong></td>
<td>Political commitment from government is crucial, as it may facilitate physical activity promotion on the political agenda, particularly if the commitment is officially announced to the public.</td>
<td>Yes</td>
<td>Support for UN declaration of physical activity identified as a priority within the F/P/T Framework for Action to Promote Healthy Weights</td>
</tr>
<tr>
<td><strong>Integration in National Policies</strong></td>
<td>A national policy in which physical activity has a central place may foster the implementation of a national physical activity plan. A policy on physical activity may be a stand-alone document or be integrated within policies addressing the prevention and control of non-communicable disease, or health promotion.</td>
<td>Partially</td>
<td>Physical activity identified as 1 of 3 primary targets within the 2005 Integrated Pan-Canadian Healthy Living Strategy</td>
</tr>
<tr>
<td><strong>Identification of National Goals and Objectives</strong></td>
<td>Clear, concise and measurable goals. Stated goals should be complemented with a set of specific objectives. These can be stated at the national, regional and/or local level. It may also be useful to distinguish short-, medium- and long-term objectives.</td>
<td>Partially</td>
<td>Physical activity identified as 1 of 3 primary targets within the 2005 Integrated Pan-Canadian Healthy Living Strategy</td>
</tr>
<tr>
<td><strong>Funding</strong></td>
<td>Funding may come from governmental, non-governmental and/or private sectors, and should be sufficient and sustainable for the type and scale of policy or plan being pursued.</td>
<td>?</td>
<td>Sport Matters, 2011; von Tigerstrom et al, 2011</td>
</tr>
<tr>
<td><strong>Support From Stakeholders</strong></td>
<td>A network of relevant stakeholders and effective collaboration is necessary for implementing physical activity programs in specified settings and to disseminate health messages on physical activity through relevant media.</td>
<td>Yes</td>
<td>Active Canada 20/2011; National Recreation Framework</td>
</tr>
<tr>
<td><strong>Integration of Physical Activity Within Other Related Sectors</strong></td>
<td>National policies and plans on physical activity should be coherent with, and complementary to, national policies and action plans addressing other areas. While the promotion of physical activity can require direct interventions, there are advantages to working with others to promote physical activity through indirect or complementary interventions.</td>
<td>No</td>
<td>–</td>
</tr>
<tr>
<td><strong>Target Whole Population as Well as Specific Population Groups</strong></td>
<td>National action plan should include large-scale interventions to reach the whole population and enhance physical activity at population level. In addition, some interventions may be tailored to specific population groups.</td>
<td>Partially</td>
<td>Canadian Physical Activity Guidelines</td>
</tr>
<tr>
<td><strong>National Physical Activity Guidelines</strong></td>
<td>National guidelines or recommendations on physical activity for the general population or specific population groups are important to educate the population on the frequency, duration, intensity and types of physical activity necessary for health.</td>
<td>Yes</td>
<td>Canadian Physical Activity Guidelines</td>
</tr>
<tr>
<td><strong>Monitoring and Evaluation</strong></td>
<td>Evaluation and ongoing monitoring of the process and outcomes of actions for the promotion of physical activity is necessary in order to examine program success and to identify target areas for future plans of action.</td>
<td>Yes</td>
<td>AHKC Report Card on Physical Activity; Canadian Health Measures Survey, CFLRI’s CANPLAY, population studies and setting-based surveys (e.g., school, municipal, parent)</td>
</tr>
<tr>
<td>US</td>
<td>Evidence</td>
<td>UK</td>
<td>Evidence</td>
</tr>
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<td>-----------------------------------------------</td>
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<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Yes</td>
<td>The US National Physical Activity Plan</td>
<td>Yes</td>
<td>Be Active, Be Healthy: A Plan for Getting the Nation Moving</td>
</tr>
<tr>
<td>Yes</td>
<td>Healthy Eating and Physical Activity Across Your Lifespan (NIDDK); Healthy People 2020</td>
<td>Yes</td>
<td>Choosing Activity, a Physical Activity Action Plan; Sport England London: The London Plan for Sport and Physical Activity</td>
</tr>
<tr>
<td>Yes</td>
<td>Healthy People 2020</td>
<td>Yes</td>
<td>The Welsh Assembly Government: Strategy for Sport &amp; Physical Activity</td>
</tr>
<tr>
<td>Yes</td>
<td>The US National Physical Activity Plan</td>
<td>Yes</td>
<td>WHO review of physical activity promotion policy development and legislation in European Union member states</td>
</tr>
<tr>
<td>Yes</td>
<td>Physical Activity Guidelines for Americans; Healthy Eating and Physical Activity Across Your Lifespan (NIDDK); Healthy People 2020</td>
<td>Yes</td>
<td>WHO review of physical activity promotion policy development and legislation; Be Active, Be Healthy: A Plan for Getting the Nation Moving</td>
</tr>
<tr>
<td>Yes</td>
<td>Healthy People 2020</td>
<td>Yes</td>
<td>UK physical activity guidelines</td>
</tr>
<tr>
<td>Yes</td>
<td>Physical Activity Guidelines for Americans</td>
<td>Yes</td>
<td>UK physical activity guidelines</td>
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NON-GOVERNMENT

Canada is home to one of the largest voluntary sectors in the world where both time and money are voluntarily devoted to a number of organizations and activities including sport and recreation.
**Non-Government**

This year’s grade is an A- because of evidence of a growth in leadership and commitment from non-government organizations/groups and the private sector to develop strategies and allocate funds and resources to increase physical activity for children and youth. Non-government organizations and groups are recognizing the challenges related to obesity and physical inactivity more today than in the past. However, partnerships and coordination of activities remain fragmented and suboptimal, thus preventing a higher grade.

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<tbody>
<tr>
<td>Grade</td>
<td>–</td>
<td>–</td>
<td>INC</td>
<td>C+</td>
<td>B-</td>
<td>C</td>
<td>C</td>
<td>A-/INC*</td>
<td>B+</td>
<td>A-</td>
</tr>
<tr>
<td>Benchmark</td>
<td>A 81–100%</td>
<td>B 61–80%</td>
<td>C 41–60%</td>
<td>D 21–40%</td>
<td>F 00–20%</td>
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</table>

- Evidence of leadership and commitment in providing physical activity opportunities for all children and youth.
- Allocation of funds and resources for the implementation of physical activity promotion strategies and initiatives for all children and youth.
- Demonstrated progress through the key stages of public policy making (i.e., policy agenda, policy formation, policy implementation, policy evaluation and decisions about the future).

* In years prior to 2012, there was 1 indicator: Non-Government Strategies & Investments. In 2012, there were 2 separate indicators: Strategies and Investments. In 2013, these indicators were again collapsed into a single indicator. For more information on the evolving nature of the indicators, please see the impact paper by Tremblay et al. 2014.
In 2013, the Canadian Automobile Association (CAA) South Central Ontario invested $300,000 in order to enhance the safety of active transportation opportunities for children and youth through the CAA School Safety Patrol Program.

In 2013, Canadian Tire launched ACTIVE AT SCHOOL, a national campaign that aims to inject 1 hour of daily physical activity in Canada’s schools with support from a group of over 60 influential, credible organizations from across Canada with an expertise in health and wellness, sport and recreation, industry and education.

In 2013, Canadian Tire Jumpstart Charities invested $14.3 million to enhance physical activity opportunities for Canadian children and youth through their network of 332 local chapters. Since 2005, Canadian Tire Jumpstart Charities has invested $65 million.

In 2013, General Mills Canada, through its Champions for Healthy Kids™ Initiative invested over $150,000 in community-based organizations across Canada to provide youth fitness and nutrition events/initiatives.

In 2013, George Weston Limited invested $1.4 million to enhance physical activity opportunities for Canadian children and youth. There are 77 programs across Canada that have been funded, and thousands of children and youth who have benefited from access to after-school exercise and nutrition.

In 2013, GoodLife Kids Foundation invested over $400,000 through their grant program to enhance physical activity opportunities for Canadian children and youth.

The Heart and Stroke Foundation, which targets childhood obesity in Ontario by focusing on making healthy foods and physical activity opportunities more affordable and accessible, awarded 164 grants and more than $1.7 million between 2006 and 2011.

In 2013, Jays Care Foundation invested $2.3 million in physical activity opportunities for Canadian children and youth through programs including Field of Dreams grants, Grand Slam Grants and the Blue Jays Baseball Academy Rookie League.

In 2012, Kid Sport™ issued $5 million in grants which provided financial assistance for registration fees and equipment for more than 50,000 kids.

In 2013, Loblaw Companies Limited invested over $250,000 to enhance physical activity opportunities for Canadian children and youth through their After School Grants.

In 2013, the MLSE Foundation invested $2.1 million to enhance physical activity opportunities for Canadian children and youth through their granting programs and facility refurbishments. Since 2010, the Foundation has invested over $7.7 million.

In 2014, RBC will provide $750,000 in grants to community-based organizations to help improve and deliver quality programs across the country. This project is part of the RBC Believe in Kids pledge, a five-year, $100 million commitment to improve the well-being of one million children and youth in Canada. In 2014, RBC will provide $750,000 in grants to community-based organizations to help improve and deliver quality programs across the country. This project is part of the RBC Believe in Kids pledge, a five-year, $100 million commitment to improve the well-being of one million children and youth in Canada.

“...We have seen a real shift from ‘sponsorship’ and hands-off investment in the private sector to Corporate Social Responsibility and authentic partnerships between private, NGO and government organizations to support physical activity for children and youth. We need to continue to move in this direction!”

– Jennifer Cowie Bonne, CEO, Active Healthy Kids Canada
RECOMMENDATIONS

➢ There is a need for increased coordination of investments between the private sector and the broad physical activity stakeholder community to ensure alignment between emerging strategies and investments and to minimize duplication and possible inefficiencies.

➢ Non-government organizations, business, industry and philanthropic groups should maintain healthy active living as a priority area for funding as a fundamental contribution to healthy individuals, families, communities and overall societal well-being.

➢ Organizations that promote and deliver sport and physical activity programs for children and youth should continue to take advantage of the large voluntary sector that exists in Canada, and optimize volunteering and giving by considering the factors that influence both activities (e.g., economic conditions, demographics, social values, public policies).

➢ Grant programs should recognize and support costs for partnership development as a strategy to maximize resources and avoid duplication of effort.

RESEARCH GAPS

➢ Research is needed to evaluate strategies intended to enhance organizational capacity at the local level in order to improve the delivery of children and youth sport and physical activity programs supported by the private sector.

➢ Research is also required to determine the most effective mechanisms to harness the human and financial resources of the private sector to maximize sport and physical activity promotion in Canada.

➢ Improved evaluation and reporting of private/non-governmental organization (NGO) sector investments are needed to better understand the impact of these investments on the physical activity levels of children and youth.

➢ In essence, we have a limited understanding of how much is being spent, how it is being spent, and to what outcome. Filling the current vacuum of information about funding decisions (e.g., Are evidence based initiatives being supported? What criteria are used to decide where to invest?) could help funders to understand how their investments could be better targeted to maximize impact.
Below are examples of non-government strategies and investments in Canada, organized by setting (e.g., family, school, community). This is not a comprehensive picture of the non-government sector, but gives an indication of some of the work being done.

**Family**
**Canadian Tire Jumpstart Charities**
In 2013, Canadian Tire Jumpstart Charities invested $14.3 million to enhance physical activity opportunities for Canadian children and youth through their network of 332 local chapters. Jumpstart helped more than 146,000 children and youth (45% girls, 55% boys; 36% 4- to 8-year-olds; 47% 9- to 13-year-olds; 17% 14- to 18-year-olds) through funding that has reached more than 1,500 communities in Canada.

76 different sports and activities were funded in 2013:

- Multi-sport
- Soccer
- Swimming
- Kids activity kit
- Hockey

Operating in all provinces and territories, Jumpstart has invested $65 million since 2005 and helped almost 700,000 children and youth.

**KidSport**
Formed in 2005, the KidSport Fund was initially set up to help families overcome financial barriers to participating in sport and recreation as a result of the rising costs of registration and equipment. Today there are 11 provincial/territorial chapters and more than 175 community KidSport committees across Canada. In 2009, more than 3,500 KidSport volunteers raised more than $7 million and gave out over 60,000 sport grants in their communities. In 2012, $5 million in grants was issued and more than 50,000 kids were helped.

**Schools**
**GoodLife Kids Foundation**
In 2013, the GoodLife Kids Foundation invested more than $400,000 to enhance physical activity opportunities for Canadian children and youth through their grant program. More than 23,500 4- to 14-year-olds were provided with ongoing physical activity opportunities (a minimum 5 weeks to a maximum of a full school year). The Foundation provided funding to 51 registered charities/qualified groups/organizations, including 31 elementary schools. Since 2009, it has invested more than $1.2 million in physical activity opportunities for more than 200,000 children and youth. During this time, programs have been supported in 85 communities in Canada, and 115 registered charities/qualified groups/organizations have received funding.

The CAA School Safety Patrol Program
The CAA School Safety Patrol program has been in operation for over 80 years in regions across the country. In 2013, the CAA South Central Ontario invested $300,000 to enhance the safety of active transportation opportunities for children and youth through the CAA School Safety Patrol Program. Approximately 22,000 school-aged children and youth have benefited from the program. More than 55 police services support the program, and 32 school boards or school authorities participate in it. Since its inception over 80 years ago, there have been more than 80 documented cases of CAA School Safety patrolers saving others from serious injury or death.

**Wonder+ Cares Healthy Active Kids Grant Program**
This grant program, which is run by George Weston Limited, supports charitable organizations across Canada that are working to increase access to high-quality after-school programming for children from kindergarten to Grade 8. Funding of up to $15,000 is available for programs that are offered throughout the year, and are located near cities where Weston Foods Inc. operates.

**ACTIVE AT SCHOOL**
Canadian Tire Corporation Limited is providing national leadership for ACTIVE AT SCHOOL, a national campaign with an aim to raise awareness of the issue and solutions to physical inactivity and to work with governments, school boards and industry partners to determine how best to achieve one hour a day of quality physical activity in schools. In December 2013, Canadian Tire joined New Brunswick Premier David Alward to launch the ‘Premier’s Challenge’ – a bold new plan from the Government of New Brunswick to ensure the province’s youth get one hour of physical activity before, during or after school every day. To help the Premier’s Challenge come to life, the Canadian Tire Family of Companies pledged an initial $1 million in funding for new sports equipment in schools, in addition to offering access to Company resources and ongoing support as it works alongside the government to get kids in New Brunswick active.

**Community**
**RBC Learn to Play Project**
The RBC Learn to Play Project is a wide-ranging initiative to help children develop the confidence and skills they need to enable them to become active for life. At the centre of the Project is a charitable commitment to support organizations that deliver quality sport and recreation programming to children and youth. In 2014, RBC will provide $750,000 in grants to community-based organizations to help improve and deliver quality programs across the country. This project is part of the RBC Believe in Kids pledge, a five-year, $100 million commitment to improve the well-being of one million children and youth in Canada. To learn more visit rbc.com/learntoplay.

**MLSE Foundation**
In 2013, the MLSE Foundation invested $2.1 million to enhance physical activity opportunities for Canadian children and youth through their granting programs and facility refurbishments. As a result, 29 new communities were impacted, 7 new spaces/facilities were built or renovated, 10 new programs or charities were funded, 56 leaders were trained and 32,000 children benefited from the investment. Since 2010, the Foundation has invested over $7.7 million, which has benefited 142,000 children and youth and has led to the building or renovation of 32 new facilities/spaces.
Champions for Healthy Kids™

Champions for Healthy Kids™ was launched by General Mills Canada in 2006 to provide financial support to registered charitable organizations with new or established youth fitness and nutrition events or initiatives. Since then, more than 182 community-based organizations across Canada have received grants for as much as $5,000 each. General Mills’ grant funding has been $150,000 per year.

Loblaw Companies Limited After-School Grants

In 2013, Loblaw Companies Limited invested over $250,000 to enhance physical activity opportunities for Canadian children and youth through their after-school grants. Approximately 25,000 children and youth from 101 communities in Canada benefited from these grants. Since 2010, more than $1 million has been invested in physical activity opportunities through the after-school grant program. During this time, more than 100,000 children and youth from 377 communities have benefited.

Since 2008, through annual corporate donations and in-store customer donation campaigns, Loblaw Companies Limited has also given over $4.3 million to community organizations to assist them in encouraging children and youth to get active. These funds have gone to organizations such as YMCA, KidSport, ParticipACTION, Start2Finish and Girl Guides of Canada.

Jays Care Foundation

Since 2005, Jays Care Foundation has invested over $8.1 million through their programs and initiatives in order to provide physical activity opportunities for Canadian children and youth. Their programs include Field of Dreams grants, Grand Slam grants and the Blue Jays Baseball Academy Rookie League. In the last 9 years, 40 capital space projects have been developed including 20 baseball fields. Jays Care Foundation has also expanded into 9 provinces and 1 territory and partnered with Boys & Girls Clubs of Canada, the YMCA and Toronto Community Housing. In 2013 alone, Jays Care Foundation invested $2.3 million which benefited 35,000 children and youth through physical activity and sport training programming.

The Heart and Stroke Foundation Spark Together for Healthy Kids™ (Spark) in Ontario

In Ontario the Foundation invests in targeting childhood obesity by focusing on making healthy foods and physical activity opportunities more affordable and accessible and, in the 5 years between 2006 and 2011, has awarded 164 grants and more than $1.7 million. Based on an evaluation report, “Spark Advocacy grants resulted in meaningful outcomes related to advocacy and policy change – all focused on increasing access to physical activity and healthy eating for children and youth. The grants were especially effective in building readiness and capacity in local communities to undertake advocacy.”

ParticipACTION Teen Challenge

The ParticipACTION Teen Challenge, sponsored by Coca-Cola Canada, works to encourage teens across the country to get moving by breaking down the barriers that prevent teens from getting active. The program is administered by 13 provincial and territorial partner organizations, and is delivered by a network of more than 3,500 registered community organizations across the nation. The Teen Challenge allows teens to come up with innovative ways to get active, and then provides micro-grant funding, called Teen Physical Activity Grants, to registered community organizations to support teens’ physical activity programs. Collectively, the goal is to enable teens to get active and to have fun in ways that mean something to them. By removing barriers and providing access to equipment, facilities, instruction or transportation – all things that teens may need to get active – the Challenge is not only helping teens establish healthy habits for life, it is facilitating stronger connections to the community and fostering social interactions that help build confidence and self-esteem.

For more information about the Teen Challenge, visit www.participaction.com/teen-challenge/about.

**INTERNATIONAL COMPARISONS**

Voluntarism in Canada is not representative of all the work related to physical activity promotion that takes place in non-government organizations and groups. However, as stated in a previous Report Card, Canada is home to one of the largest voluntary sectors in the world where both time and money are voluntarily devoted to a number of organizations and activities including sport and recreation.

Based on data from the 2012 World Giving Index, Canada is ranked 3rd among 146 countries. The most common giving behaviour is “helping a stranger,” followed by giving money and volunteering time. This marks an improvement from Canada’s 7th-place ranking in the 2011 World Giving Index. In the past 5 years, the percentage of Canadians giving money to charities and NGOs has ranged from 62% to 66%. In terms of giving money, Canada has the largest gender disparity of all countries monitored (tied with Afghanistan). Specifically, 53% and 75% of Canadian men and women respectively give money to charities and NGOs. In the past 5 years, the percentage of Canadians volunteering time to charities and NGOs has ranged from 34% to 42%.

Report Card on Physical Activity for Children and Youth 10th Edition 89
# Report Card on Physical Activity for Children and Youth

**Grades**

<table>
<thead>
<tr>
<th>Category</th>
<th>Grade</th>
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<tbody>
<tr>
<td>Overall Physical Activity</td>
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<td>Active Transportation</td>
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<td>Family &amp; Peers</td>
<td>C</td>
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<td>School</td>
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<td>Community &amp; the Built Environment</td>
<td>A-</td>
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<tr>
<td>Government Strategies &amp; Investments</td>
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<tr>
<td>Physical Education &amp; Physical Activity</td>
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<td>Participation in Schools</td>
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<td>Aerobic Fitness</td>
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<td>Movement Skills</td>
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# Highlights

For the first time, the Australian Report Card on Physical Activity for Children and Youth provides a comprehensive synthesis of the best available evidence of how we are doing as a country in promoting and facilitating physical activity opportunities among children and youth in Australia. Key findings from the 2014 Report Card include:

- 20% of 5- to 17-year-olds meet the Australian Physical Activity Guidelines for Children and Youth, which recommend at least 60 minutes of daily moderate- to vigorous-intensity physical activity (Australian Bureau of Statistics, Australian Health Survey, 2011-12).
- The 2014 Australian Report Card reveals a disparity between support structures (e.g., parental support, external environments) and children’s physical activity levels. While the support structures seem to be in place, this is not reflected in kids’ actual physical activity levels.

# Research Gaps

- There is a need to better understand what active play is and how we can define it from a research perspective, given the lack of high-quality data that truly reflects the nature of children’s active play.
- There is a need for nationally representative data to help assign grades for the indicators that were assigned incomplete grades: Active Play; Physical Education & Physical Activity Participation in Schools; Aerobic Fitness; and Movement Skills.
- Consistent analytical protocols are needed in order to help with data synthesis.

# Recommendations

- It is imperative that children, parents, teachers and other influential people are aware of the different ways in which children can be physically active, so that they can help kids accumulate the recommended 60 minutes of physical activity each day.
- Everyone needs to be held accountable and work together with the goal of providing children with endless opportunities to be active, to ensure children are aware of the physical activity guidelines and of why physical activity is important for their health and well-being.
The 2014 Colombian Report Card on Physical Activity for Children and Youth

Lead Investigator: Olga L. Sarmiento, M.D. Web: http://epiandes.uniandes.edu.co/ Email: osarmien@uniandes.edu.co

COLOMBIA

The 2014 Colombian Report Card on Physical Activity for Children and Youth

Grades

Overall Physical Activity: D
Organized Sport Participation: D
Active Play: INC
Active Transportation: INC
Time Spent in Sedentary Behaviours: D
Family Influence: INC
School: F
Community and Built Environment: INC
National Policy: B
Departmental Policy: C
Below Health Fitness Zone: INC
Overweight: C
Obesity: B
Non-Government Initiatives: D

Research Gaps

- National surveillance data is needed on physical activity levels for preschool and school-aged children, active transportation to school in children and youth, and regular participation in organized sports.
- There is a need to better understand the influence of family, school, community and the built environment on the physical activity levels of children and youth. Future studies on physical activity, with a multi-level approach and national representativeness, are desirable.
- More evaluation is needed to better understand the impact of available policies and programs on the promotion of physical activity.

Recommendations

- Initiatives to promote active transportation to school should be designed and implemented at a national level.
- There is a need to communicate guidelines and develop initiatives to reduce the time children and youth spend in sedentary behaviours.
- Physical education in public and private schools, for all ages, must be imparted by a physical education specialist.

Highlights

- Colombia has a broad legal framework that encourages physical activity promotion in children and youth as a priority for non-communicable diseases prevention and social development.
The 2014 Active Healthy Kids England Report Card on Physical Activity for Children and Youth

**HIGHLIGHTS**

Key findings from the first annual assessment of how England is performing in relation to engaging and facilitating physical activity in children and youth include:

- 33% of boys and 21% of girls aged 4-15 in England meet the UK Physical Activity Guidelines for Children, which recommend at least 60 minutes of moderate- to vigorous-intensity physical activity per day (2008 Health Survey for England).
- The proportion of children and youth meeting the guidelines varies considerably between younger children and adolescents.
- Provision of physical activity opportunities in schools and the neighborhood is substantial, yet the use of such facilities is low.

**RESEARCH GAPS**

- Ongoing and nationally representative monitoring of objectively assessed physical activity data across children and youth within England is needed.
- Future iterations of the English Report Card would benefit greatly from a stratified and targeted survey designed specifically to address the 9 core indicators (and associated benchmarks). Particular indicators that require further research in order to confidently assign grades include Active Play, Sedentary Behaviours and Peer Influences on Physical Activity.
- Research is needed on the quality of physical activity undertaken within physical education lessons.

**RECOMMENDATIONS**

- The use of existing facilities and resources for physical activity needs to be maximized.
- Particular attention should be targeted toward groups that are at risk of low physical activity levels (e.g., adolescents, girls, children with disabilities, etc.).
- Interventions that target the family environment are required.
- A minimum of 2 hours of physical education in schools at all ages should be mandated.
The Finnish 2014 Report Card on Physical Activity for Children and Youth

Lead Investigator: Jarmo Liukkonen, Ph.D. Web: https://www.jyu.fi/sport/ReportCard/ Email: Jarmo.liukkonen@jyu.fi

**Grades**

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<td>Government Strategies &amp; Investments</td>
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**Highlights**

- The Finnish 2014 Report Card on Physical Activity (PA) for Children and Youth is the first assessment of Finland’s efforts in promoting and facilitating PA opportunities for children and youth using the Active Healthy Kids Canada grading system.
- The development of the Report Card relies on research findings primarily from 6 research institutes, coordinated by the University of Jyväskylä and LIKES–Research Center for Sport and Health Sciences.
- More than 20% of children meet the minimum level of Finnish recommendations for PA, and more than 40% participate actively in organized sports. Most children commute in a physically active way to school.
- According to most of the indicators, Finland has much to improve in order to promote a physically active lifestyle for children and youth.

**Research Gaps**

- There are research gaps related to preschool-aged children’s PA; the role of family and peers in the PA of children and youth; the forms of activity, leisure PA and play; and neighbourhood PA facilities and investments in municipalities.
- Some of the data presented are outdated and would need to be updated for the next annual Finnish Report Card.

**Recommendations**

- Because PA levels in Finnish children and youth are lower and sedentary behaviour higher than recommended, there is still a lot to do to promote PA through policy, action programs and investments.
- It is hoped that this first Finnish 2014 Report Card on Physical Activity for Children and Youth will raise awareness about the need to make even greater efforts to enhance the PA of Finnish children and youth, and awareness that all sectors of society have a role to play in this public health challenge.

Report Cover

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Active Healthy Kids Canada  International Pages
In its first year, the Ghanaian 2014 Report Card on Physical Activity for Children and Youth provides a baseline assessment of how we are doing as a country in promoting and facilitating physical activity opportunities among children and youth. Key Findings from the 2014 Ghana Report Card include:

- 12% to 34% of youth are meeting physical activity guidelines in reference to the international physical activity questionnaire analysis guidelines and general public health recommendations for physical activity.
- The 2013 Report Card reveals that 21% of in-school adolescents are sedentary, which does not include time spent sitting in school.
- Although syllabi for physical education exist, there are no policies guiding their implementation.

RESEARCH GAPS

- Physical activity and sedentary behaviour guidelines for Ghanaian children and youth are needed.
- There is a need for investment in monitoring and surveillance of physical activity patterns among Ghanaian children and youth.
- Research is needed on physical activity in general in Ghana.

RECOMMENDATIONS

- Schools should provide opportunities (e.g., play time, recess, activity breaks, games time) to increase participation in physical activity during or after formal school hours.
- Appropriate school physical education and sports policies should be developed to regulate programs in schools.
- Each basic school should engage non-physical education specialist teachers in the use of physical activities, to improve teaching methodologies that will promote academic performance and adherence to regular physical activity and sport participation.
Grades

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Highlights

Ireland’s first Report Card on Physical Activity in Children and Youth provides complete and robust baseline data on indicators related to children’s physical activity, representing data from more than 35,000 children (plus census) from 2003 to 2010. Key Findings from Ireland’s 2014 Report Card include:

- 11% to 43% of children are meeting the physical activity guidelines for children of at least 60 minutes of daily moderate- to vigorous-intensity physical activity every day. Sex differences exist.
- There is a discrepancy between the amount of physical education recommended for schools and the amount reported by children.
- 24% to 43% of children actively commute to or from school. This indicator does not follow the typical age-related decline, but an urban-rural difference exists.

Research Gaps

- It is crucial to reach agreement and implementation of a common framework for the systematic surveillance of indicators related to physical activity of children and youth.
- Studies are needed on the implementation of government policies related to physical activity indicators.

Recommendations

- A ‘quality’ experience of school-based physical activity and sport – not downgrading physical education to a short course (as it is in the Republic), and embracing 4 hours/week of sport and physical activity during school (i.e., physical education) and after school as is the case with rest of UK (Northern Ireland).
- Development, launch and implementation of a national physical activity plan.
- Appropriate volunteer:paid workforce ratio for physical activity and sport.
Kenya’s 2014 Report Card on the Physical Activity and Body Weight of Children and Youth

Kenya’s 2014 Report Card on the Physical Activity and Body Weight of Children and Youth is the second report card completed in Kenya; it aims to synthesize the best available evidence and provide increased awareness on issues surrounding the physical activity of children and youth. This innovative publication targets those with an interest in child and youth health and wellness research and promotion:

► Sampled studies on rural, urban and combined urban and rural Kenyan children showed that about 72%, 13% and 35% respectively were meeting World Health Organization physical activity guidelines, which recommend that 5- to 17-year-olds accumulate at least 60 minutes or more of moderate to vigorous physical activity daily.
► From self-report data, 87% of rural and 42% of urban children used active transport to and from school.
► There was a decreasing trend in the number of children who met physical activity guidelines with increasing parental education attainment and increasing household socioeconomic status.
► A high proportion of schools offered opportunities for children to participate in active play and sports.

RESEARCH GAPS

► Data analyses revealed a crucial lack of representative national-level surveillance on physical activity and sedentary behaviour, which is necessary in determining overall activity patterns among Kenyan children and youth.
► Surveillance efforts should include the key sources of physical activity such as active play, active transportation, sports participation and physical education.

RECOMMENDATIONS

► Kenyan children and youth need to be supported in making physical activity choices that are convenient, sustainable and compatible with their interests.
► There is a need to enhance the development of social and physical environments that support the integration of physical activity into daily life.
► There is a need to increase awareness of the relationships between physical activity, healthy eating and a range of other health determinants that contribute to, or inhibit, optimal health.

Report Cover
The 2014 Mexican Report Card on Physical Activity for Children and Youth

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**Highlights**

The 2014 Mexican Report Card seeks to solidify the Report Card project in Mexico, which will eventually position it as an instrument useful for public debate, elaboration and revision of public policies.

Key Findings from the 2014 Mexican Report Card include:

- 59% of Mexican youth are classified as active and 22.7% are inactive, based on international physical activity recommendations.
- There has been an increase in the amount of screen time hours. 67% of youth aged 10 to 18 years spend more than 2 hours per day on screen time.
- The 2014 Mexican Report Card shows that there has been some methodological progress in this country, such as the implementation of instruments enabling direct measurements, and the use of accelerometers to assess physical activity levels.

**Research Gaps**

- More research is needed on the influence of family and peers, as well as the amount of time children and youth spend in active play.
- More research examining the impact of existing programs and policies is needed.

**Recommendations**

- Develop and promote physical activity guidelines for Mexican children and youth.
- Promote extracurricular programs enabling space for physical activity outside of compulsory physical education classes.
- Promote physical activity in the family setting.
Results from the Mozambique 2014 Report Card on Physical Activity in Children and Adolescents

**HIGHLIGHTS**

This is the first Mozambican Report Card. Although there were some limitations related to the lack of information available, this first assessment emphasized:

- Physical activity behaviours among children and young people are positively influenced by the rural environment and the absence of motorized transport. Physical activity behaviours are mainly related to survival activities and outdoor play.
- Children from urban cities are becoming less active as a result of rapid urbanization and lack of planning that supports active transport and play.
- Rapid urbanization is accompanied by trends toward sedentary habits and aggressive environments for physical activity.

**RESEARCH GAPS**

- A nationwide research project to gather information on physical activity and sedentary behaviours must be done to overcome the lack of systematic information in the country.
- There are no national or regional data available to provide an understanding of the role of family and peers in the physical activity behaviours of children and adolescents.

**RECOMMENDATIONS**

- Environments that are supportive of physical activity must be prioritized in urban planning.
- Governments must follow through with election promises to invest in physical activity and sport.
This brief report provides grades for the 2014 New Zealand Report Card on Physical Activity for Children and Youth. Nationally representative survey data were collated by the working group at the University of Auckland, Auckland, New Zealand, between June and December 2013, in collaboration with consultants from key sport, health and academic organizations.

For 8 of the 9 indicators, a score of B (61%-80% achieved) or C (41%-60% achieved) was allocated. An inconclusive grade was given for the Government indicator due to a lack of established criteria.

Physical activity participation in New Zealand is satisfactory (but could improve); however, sedentary behaviour is high. Of particular concern is the age-related decline in physical activity participation and increase in sedentary behaviour, and the very low levels of physical activity among adolescent females.

Future surveys in New Zealand should ideally include more objective assessments of physical activity and sedentary behaviours. National-level data are required on environmental factors that may support or hinder physical activity. This would entail the collection and combination of various data sources, including geocoding of physical activity facilities and green space using geographic information systems to determine utilization by children and young people.

A national-level, coordinated approach to ensuring all children and young people achieve the recommended guidelines for physical activity.

Ongoing and continuous evaluation of physical activity and sedentary behaviour outcomes, using objective measures where possible.

Ongoing report cards and benchmarking.

Consideration of other New Zealand-specific report card indicators.
This first Nigerian Report Card provides a baseline assessment of the levels of physical activity and sedentary behaviours among children and youth in Nigeria. Key Findings include:

- 30% to 75% of 5- to 18-year-olds engage in some form of physical activity daily, but only 47% (58% boys; 29% girls) participate in moderate to vigorous physical activity for 3 or more days in a week.
- The 2013 Report Card suggests a decline in active transportation levels as the population shifts from rural to urban settings.
- 35% to 91% of 6- to 19-year-olds in rural and urban Nigeria accumulate more than 3 hours of screen time daily.

**RESEARCH GAPS**

- There is no available nationally representative data or active surveillance on physical activity and sedentary behaviour among Nigerian children and youth.
- More research is needed on the influence of socioeconomic transition on the levels of active transportation, active play, organized sports and sedentary behaviour among Nigerian children and youth.
- There is a lack of research on the evaluation of the implementation of the Nigerian policy on sports and youth development.

**RECOMMENDATIONS**

- Nationally representative data and active surveillance on physical activity and sedentary behaviour among Nigerian children and youth is needed to inform practice and policy.
- National guidelines on physical activity levels and sedentary behaviour for Nigerian children and youth are needed.
- Evaluation of the implementation and influence of the Nigerian policy on sports and youth development is needed.
**SCOTLAND**

Child’s Play 2013? The Active Healthy Kids Scotland Report Card

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**GRADES**

<table>
<thead>
<tr>
<th>Category</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>Overall Physical Activity</td>
<td>F</td>
</tr>
<tr>
<td>Organized Sport Participation</td>
<td>INC</td>
</tr>
<tr>
<td>Active Play</td>
<td>INC</td>
</tr>
<tr>
<td>Active Transportation</td>
<td>C</td>
</tr>
<tr>
<td>Sedentary Behaviours</td>
<td>F</td>
</tr>
<tr>
<td>School</td>
<td>NA</td>
</tr>
<tr>
<td>Community &amp; the Built Environment</td>
<td>B</td>
</tr>
<tr>
<td>Government Strategies &amp; Investments</td>
<td>B</td>
</tr>
<tr>
<td>Obesity</td>
<td>F-</td>
</tr>
<tr>
<td>Diet</td>
<td>D-</td>
</tr>
</tbody>
</table>

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**HIGHLIGHTS**

Key Findings from the 2013 Active Healthy Kids Scotland Report Card include:

- Scottish adolescents have extremely high levels of recreational screen time; 76% of 11- to 15-year-olds report watching more than 2 hours per day of TV alone. In addition, 77% of boys and 37% of girls report more than 2 hours of screen-based gaming per day (HBSC Scotland 2010).
- Scottish adolescents have low levels of moderate- to vigorous-intensity physical activity; among 11- to 15-year-olds, only 19% of boys and 11% of girls meet the UK ‘Start Active Stay Active’ Physical Activity Guidelines, which recommend at least 60 minutes of daily moderate- to vigorous-intensity physical activity (HBSC Scotland 2010).
- The 2013 Report Card reveals a major disconnect between apparently favourable policy and physical activity environments, and what children are actually doing.

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**RESEARCH GAPS**

- There is a need to better understand why favourable Scottish policy and physical environments are not being translated into acceptable levels of physical activity and sedentary behaviour.
- Research is needed on levels of physical activity and sedentary behaviour among preschool children.
- Research is needed on the amount of time spent sitting, and sitting fragmentation in children and adolescents.

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**RECOMMENDATIONS**

- Public health surveillance of physical activity in Scotland should include objective measures.
- There is a need to evaluate both the implementation and outcome of national policies that target physical activity, diet and obesity in children and adolescents.
- There is a need for national policy and investment directed at the reduction of sedentary behaviour among children and adolescents.
The Healthy Active Kids South Africa (HAKSA) Report Card provides an evidence-based benchmark and advocacy tool to promote physical activity and healthy eating in South African children and youth. Key Findings from the 2014 HAKSA Report Card include:

- Almost half of South African children are insufficiently active (< 60 minutes per day in moderate physical activity).
- Sedentary behaviour remains a problem, with children spending just under 3 hours per day watching television.
- More than half of urban children participate in some form of organized sport or recreational activity.
- Overweight and obesity continue to rise among children and adolescents.
- Over two thirds of adolescents consume fast foods at least 3 times per week, and there is a massive secular trend in sugar-sweetened beverage consumption.
- The National School Nutrition Programme has extended its reach but evaluation is needed.

**RESEARCH GAPS**

- Research is needed with particular emphasis on organized sport and recreation participation in children, and empirical studies are needed to support the effectiveness of active play.
- There is a need for proof-of-concept intervention studies in schools, after school and in communities, aimed at providing more opportunities for structured physical activity.
- Active transport represents an arena of potential health benefit to children and yet there is insufficient evidence to support this, particularly in the context of unsafe environments.

**RECOMMENDATIONS**

- Surveillance of physical activity and sedentary behaviour should be undertaken regularly in South African school children and youth.
- The implementation gap in physical education may be addressed through teacher training and advocacy.
- Policy action is needed for fast food, snack and beverage marketing to children and school tuck shops.
The 2014 United States Report Card on Physical Activity for Children and Youth

Key Findings from the 2014 U.S. Report Card include:

- Approximately one quarter of U.S. children and youth meet the “2008 Physical Activity Guidelines for Americans” recommendation of at least 60 minutes of daily moderate to vigorous physical activity (Troiano et al. Med Sci Sports Exerc 2008;40:181-8). The prevalence was lower among youth 12 to 15 years of age (8.0%) than among children 6 to 11 years of age (42.0%). The grade of D- indicates that the majority of American children and youth do not meet physical activity recommendations, and reflects the age and gender differences in physical activity participation.
- Only 12.7% of school-aged children and youth in the U.S. travel to school by active means such as walking or biking (McDonald et al. Am J Prev Med 2011;41:146-51).

RESEARCH GAPS

- Currently, there are no recommendations for limiting total sedentary time in children and youth. The 2014 Report Card Committee relied on screen time as a proxy for sedentary behaviour, but this likely underestimates the total amount of time a child spends in sedentary pursuits.
- There is a need for additional research on the measurements and health effects of active play.
- In order to provide a more comprehensive grade for Community and the Built Environment, more information is required on the quality of park and facilities infrastructure, the availability of programming and activities, and safety concerns due to violence and traffic.

RECOMMENDATIONS

- The National Physical Activity Plan (www.physicalactivityplan.org/theplan.php) includes many evidence-based recommendations to improve the indicators in the U.S. Report Card.
- Parents, teachers, health professionals, community leaders and policy-makers should be proactive in developing and implementing new initiatives, programs and policies in support of healthy environments to improve the physical activity levels and health of children and youth in the U.S.
### ABBREVIATIONS

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHKC</td>
<td>Active Healthy Kids Canada</td>
</tr>
<tr>
<td>AVG</td>
<td>Active video game</td>
</tr>
<tr>
<td>CAA</td>
<td>Canadian Automobile Association</td>
</tr>
<tr>
<td>CANPLAY</td>
<td>Canadian Physical Activity Levels Among Youth study</td>
</tr>
<tr>
<td>CFLRI</td>
<td>Canadian Fitness and Lifestyle Research Institute</td>
</tr>
<tr>
<td>CFTC</td>
<td>Children’s Fitness Tax Credit</td>
</tr>
<tr>
<td>CHEO</td>
<td>Children’s Hospital of Eastern Ontario</td>
</tr>
<tr>
<td>CHMS</td>
<td>Canadian Health Measures Survey</td>
</tr>
<tr>
<td>DCMS</td>
<td>Department for Culture, Media and Sport</td>
</tr>
<tr>
<td>F/P/T</td>
<td>Federal/provincial/territorial</td>
</tr>
<tr>
<td>HBSC</td>
<td>Health Behaviour in School-Aged Children Survey</td>
</tr>
<tr>
<td>INC</td>
<td>Incomplete</td>
</tr>
<tr>
<td>ISCOLE</td>
<td>International Study of Childhood Obesity, Lifestyle and the Environment</td>
</tr>
<tr>
<td>JCSH</td>
<td>Pan-Canadian Joint Consortium for School Health</td>
</tr>
<tr>
<td>LPA</td>
<td>Light-intensity physical activity</td>
</tr>
<tr>
<td>MVPA</td>
<td>Moderate- to vigorous-intensity physical activity</td>
</tr>
<tr>
<td>NGO</td>
<td>Non-government organization</td>
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<td>OPASS</td>
<td>Opportunities for Physical Activity at School Survey</td>
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<tr>
<td>PAM</td>
<td>Physical Activity Monitor</td>
</tr>
<tr>
<td>PE</td>
<td>Physical education</td>
</tr>
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<td>PHE Canada</td>
<td>Physical &amp; Health Education Canada</td>
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<td>RBC</td>
<td>Royal Bank of Canada</td>
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<td>YSS</td>
<td>Youth Smoking Survey</td>
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# SUMMARY OF INDICATORS

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<tr>
<th>Category</th>
<th>#</th>
<th>Indicator Name</th>
<th>Benchmark(S)</th>
<th>2014 Report Card Grades</th>
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<td></td>
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<td></td>
<td>3</td>
<td>Active Play</td>
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<td></td>
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<td>5</td>
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<td><strong>Settings &amp; Sources of Influence</strong></td>
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<td></td>
<td>7</td>
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<td><strong>Strategies &amp; Investments</strong></td>
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<td></td>
<td>10</td>
<td>Non-Government</td>
<td>≥21%</td>
<td>A</td>
</tr>
</tbody>
</table>
The following are major data sources used in the 2014 Report Card:

**Canadian Health Measures Survey (CHMS):** [www.statscan.gc.ca/daily-quotidien/100113/dq100113a-eng.htm](http://www.statscan.gc.ca/daily-quotidien/100113/dq100113a-eng.htm) The Canadian Health Measures Survey, launched in 2007, is collecting key information relevant to the health of Canadians by means of direct physical measurements such as blood pressure, height, weight, and physical fitness. As part of the CHMS, a clinical oral health examination helps to evaluate the association of oral health with major health concerns such as diabetes, and respiratory and cardiovascular diseases. In addition, the survey is collecting blood and urine samples to test for chronic and infectious diseases, as well as nutrition and environmental markers. Through household interviews, the CHMS is gathering information related to nutrition, smoking habits, alcohol use, medical history, current health status, sexual behaviour, lifestyle and physical activity, the environment and housing characteristics, as well as demographic and socioeconomic variables.

**Canadian Physical Activity Levels Among Youth Survey (CANPLAY):** [www.cflri.ca](http://www.cflri.ca) The Canadian Fitness and Lifestyle Research Institute conducts a major national survey annually to examine physical activity levels of children and youth. CANPLAY studies the current fitness and physical activity patterns of young people in Canada. Approximately 10,000 children and youth (approximately 6,000 families) are randomly selected across Canada. The study has been conducted since 2005. Pedometers are used to measure the number of steps taken daily by each participant. CANPLAY is a joint venture of the Canadian Fitness and Lifestyle Research Institute, the Public Health Agency of Canada and the Interprovincial Sport and Recreation Council.

**Health Behaviour in School-Aged Children Survey (HBSC):** [www.hbsc.org](http://www.hbsc.org) Results are based on the Canadian data from the World Health Organization's (WHO) HBSC. The HBSC is a repeated cross-sectional survey conducted every 4 years. The survey consists of a classroom-based questionnaire. The sample was designed according to the international HBSC protocol in that a cluster design was used, with the school class being the basic cluster and the distribution of the student sample in the distribution of Canadians in grades 6 to 10 (ages 10 to 16). Canadian schools were selected for this study using a weighted probability technique to ensure that the sample is representative of regional geography and key demographic features such as religion, community size, school size and language of instruction. Schools from each province and territory, as well as urban and rural locations, are represented. A total of 26,078 youth from 436 schools across the country participated in the 2009-10 HBSC survey. The Canadian HBSC was approved by the Queen's University General Research Ethics Board. Consent was obtained from the participating school boards, individual schools, parents and students. Student participation is voluntary. The HBSC includes 3 main components: 1) a questionnaire completed by students that asks about their health behaviours (such as physical activity and active transportation), lifestyle factors and demographics; 2) an administrator questionnaire distributed to each school principal that inquires about school demographics, policy, infrastructure and the school neighbourhood setting (completed for 41 of the 436 participating schools); and 3) geographic information systems (GIS) measures of built and social features in the school neighbourhoods.

**Keeping Pace:** This study (formerly Physical Activity of Children and Youth in Nova Scotia – PACY) is a provincial government-funded surveillance project conducted every 4 years that measures the physical activity and dietary intake of a provincially representative sample of students in grades 3, 7 and 11. Data was also collected on the various factors that may influence physical activity and dietary intake. The results from the 3 waves of surveillance have been used to inform various health promotion initiatives.

**Opportunities for Physical Activity at School Survey (OPASS):** [www.cflri.ca](http://www.cflri.ca) The content of the 2003 OPASS is designed to explore the availability and composition of physical education programming at school, determine the availability and adequacy of facilities and opportunities for physical activity, explore the provision of extracurricular physical activities, examine policies related to physical activity at school, and describe the broader physical and social environments at school. The survey consists of a self-completed questionnaire that was mailed to a total of 8,000 Canadian schools. The survey was conducted by the CFLRI and funded through the Children’s A-TEAM collaboration (Children’s Activity Through Exchange and Measurement) being led by the Healthy Active Living and Obesity Research Group at the CHEO Research Institute.

**Physical Activity Monitor (PAM):** [www.cflri.ca](http://www.cflri.ca) The PAM is an annual telephone survey conducted by the CFLRI that tracks changes in physical activity patterns, factors influencing participation, and life circumstances in Canada. As such, it tracks outcome indicators of the efforts to increase physical activity among Canadians. To date, 17 waves of PAM have been completed, with theme content cycled in and out across planned periods.

**Youth Smoking Survey (YSS):** [www.yss.uwaterloo.ca](http://www.yss.uwaterloo.ca) The YSS is a repeated, biannual, cross-sectional survey of 50,000+ students in grades 6 to 12 from all provinces except New Brunswick. Funded by Health Canada, the YSS was created to study the factors that increase or diminish the likelihood of tobacco use among youth. The Propel Centre for Population Health Impact at the University of Waterloo coordinates the implementation of the YSS nationally, and provincial partners implement the YSS in each province. The YSS was first administered in 1994 and it has been the largest and most comprehensive survey on youth smoking behaviour since 1979. It was repeated in 2002, 2004-05, 2006-07, 2008-09 and most recently in 2010-11.
ACKNOWLEDGEMENTS

Norm O’Reilly, Ohio University

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Active Healthy Kids Canada

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Ness RB.


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