The Biggest Risk is
KEEPING KIDS INDOORS
In the fall of 2014, Active Healthy Kids Canada and ParticipACTION made a strategic decision to turn leadership of the Active Healthy Kids Canada Report Card over to ParticipACTION, a long-standing partner, and wind down operations of Active Healthy Kids Canada.

ParticipACTION’s strategic partner, the Healthy Active Living and Obesity Research Group at the Children’s Hospital of Eastern Ontario Research Institute (CHEO-HALO), played a critical role in the research and development of the 2015 Report Card.

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# Contents

<table>
<thead>
<tr>
<th>Page</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Report Card Development Team</td>
</tr>
<tr>
<td>5</td>
<td>Indicators &amp; Grades</td>
</tr>
<tr>
<td>6</td>
<td>Why is Physical Activity Important?</td>
</tr>
<tr>
<td>7</td>
<td>Get Out of the Way and Let Them Play</td>
</tr>
<tr>
<td>8</td>
<td>Position Statement on Active Outdoor Play</td>
</tr>
<tr>
<td>9</td>
<td>World’s First Integrated 24-Hour Movement Behaviour Guidelines for Children and Youth</td>
</tr>
<tr>
<td>10</td>
<td>Indicators</td>
</tr>
</tbody>
</table>

## Behaviours That Contribute to Overall Physical Activity

<table>
<thead>
<tr>
<th>Page</th>
<th>Behaviour</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Overall Physical Activity</td>
</tr>
<tr>
<td>17</td>
<td>Organized Sport &amp; Physical Activity Participation</td>
</tr>
<tr>
<td>20</td>
<td>Active Play</td>
</tr>
<tr>
<td>23</td>
<td>Active Transportation</td>
</tr>
<tr>
<td>26</td>
<td>Physical Literacy</td>
</tr>
<tr>
<td>28</td>
<td>Sedentary Behaviours</td>
</tr>
</tbody>
</table>

## Settings & Sources of Influence

<table>
<thead>
<tr>
<th>Page</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>32</td>
<td>Family &amp; Peers</td>
</tr>
<tr>
<td>35</td>
<td>School</td>
</tr>
<tr>
<td>39</td>
<td>Community &amp; Environment</td>
</tr>
</tbody>
</table>

## Strategies & Investments

<table>
<thead>
<tr>
<th>Page</th>
<th>Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>Government</td>
</tr>
<tr>
<td>47</td>
<td>Non-Government</td>
</tr>
</tbody>
</table>

## Abbreviations

<table>
<thead>
<tr>
<th>Page</th>
<th>Abbreviation</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Page</th>
<th>Summary of Indicators</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Page</th>
<th>Methodology &amp; Data Sources</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Page</th>
<th>Partners</th>
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<table>
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<tr>
<th>Page</th>
<th>References</th>
</tr>
</thead>
</table>
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Indicators & Grades

Grades are common to every report card. The 2015 Report Card assigns letter grades to 11 different indicators that are grouped into three categories (Figure 1): Strategies & Investments (Government, Non-Government), Settings & Sources of Influence (Family & Peers, School, Community & Environment), and the Behaviours that Contribute to Overall Physical Activity Levels (Overall Physical Activity, Organized Sport & Physical Activity Participation, Active Play, Active Transportation, Physical Literacy).

Sedentary Behaviours). 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 among Canadian children and youth.

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?

The benefits of physical activity in children and youth are far-reaching, with many direct and associated positive outcomes. Regular physical activity at light, moderate and vigorous intensities is associated with more favourable markers of cardiovascular and metabolic health (e.g., lower blood pressure, insulin levels and waist circumference). Typically, the more intense the activity, the greater the health benefit. In addition to the physical benefits, research shows a positive link between physical activity and aspects of mental (e.g., better academic performance), emotional (e.g., improved anxiety and depression symptoms) and social health (e.g., improved social skills).

The Canadian Physical Activity Guidelines for Children and Youth, which are based on a substantial body of evidence, recommend that 5- to 17-year-olds get at least 60 minutes of daily moderate-to-vigorous-intensity physical activity (MVPA). Despite these recommendations, new data from Statistics Canada reveal that only 9% of 5- to 17-year-olds in Canada meet this target (2012-13 CHMS, Statistics Canada). This is a worrying finding given physical inactivity’s link with a clustering of cardiovascular disease risk factors (e.g., higher blood pressure, insulin and cholesterol levels). Additionally, physical inactivity places a significant economic burden in Canada with estimated annual costs in the billions. The importance of physical activity for children and youth remains as relevant and important as ever before.
What many parents recall from their childhoods as thrilling and exciting play is often called “risky play” these days. These are the active games and independent play that tested boundaries and included things like exploring the woods, rough housing, moving fast or playing at heights. We are not suggesting that children be reckless, but we do recognize that some risk is actually good for kids:

» Kids with ready access to unsupervised outdoor play have better-developed motor skills, social behaviour, independence and conflict resolution skills.

> Adventure playgrounds and loose parts playgrounds, which support some exposure to “risky” elements, lead to an increase in physical activity and decrease in sedentary behaviours.

While physical activity injuries to children are common—from all forms of physical activity and not just risky play—the vast majority of these injuries are minor. We need to give kids the freedom to occasionally scrape a knee or twist an ankle.

As stated in the Position Statement on Active Outdoor Play, long-term health should be valued as much as safety. We need to consider the possibility that rules and regulations designed to prevent injuries and reduce perceived liability consequences have become excessive, to the extent that they actually limit rather than promote children’s physical activity and health. Adults need to get out of the way and let kids play.
**Position Statement on Active Outdoor Play**

**Access to active play in nature and outdoors—with its risks—is essential for healthy child development. We recommend increasing children’s opportunities for self-directed play outdoors in all settings—at home, at school, in child care, the community and nature.**

**Preamble**

We conducted two systematic reviews to examine the best available scientific evidence on the net effect (i.e., balance of benefits vs. harms) of outdoor and risky active play. Other research and reviews were also consulted. The Position Statement applies to girls and boys (aged 3-12 years) regardless of ethnicity, race, or family socioeconomic status. Children who have a disability or a medical condition should also enjoy active outdoor play in compliance with guidance from a health professional.

**Context**

In an era of schoolyard ball bans and debates about safe tobogganing, have we as a society lost the appropriate balance between keeping children healthy and active and protecting them from serious harm? If we make too many rules about what they can and can’t do, will we hinder their natural ability to develop and learn? If we make injury prevention the ultimate goal of outdoor play spaces, will they be any fun? Are children safer sitting on the couch instead of playing actively outside? **We need to recognize the difference between danger and risk. And we need to value long-term health and fun as much as we value safety.**

Risk is often seen as a bad word—by parents, neighbours, care providers, insurance providers, schools and municipalities. But in play, risk doesn’t mean courting danger—like skating on a half-frozen lake or sending a preschooler to the park alone. It means the types of play children see as thrilling and exciting, where the possibility of physical injury may exist, but they can recognize and evaluate challenges according to their own ability. It means giving children the freedom to decide how high to climb, to explore the woods, get dirty, play hide ’n seek, wander in their neighbourhoods, balance, tumble and rough-house, especially outdoors, so they can be active, build confidence, autonomy and resilience, develop skills, solve problems and learn their own limits. It’s letting kids be kids—healthier, more active kids.

**Evidence**

- **When children are outside they move more, sit less and play longer**—behaviours associated with improved cholesterol levels, blood pressure, body composition, bone density, cardiorespiratory and musculoskeletal fitness and aspects of mental, social and environmental health.

**Outdoor play is safer than you think!**

- The odds of total stranger abduction are about 1 in 14 million based on RCMP reports. Being with friends outdoors may further reduce this number.
- Broken bones and head injuries unfortunately do happen, but major trauma is uncommon. Most injuries associated with outdoor play are minor.
- Canadian children are eight times more likely to die as a passenger in a motor vehicle than from being hit by a vehicle when outside on foot or on a bike.

**There are consequences to keeping children indoors—is it really safer?**

- When children spend more time in front of screens they are more likely to be exposed to cyber-predators and violence, and eat unhealthy snacks.
- Air quality indoors is often worse than outdoors, increasing exposure to common allergens (e.g., dust, mould, pet dander), infectious diseases, and potentially leading to chronic conditions.
- In the long-term, sedentary behaviour and inactivity elevate odds of developing chronic diseases, including heart disease, type-2 diabetes, some forms of cancer and mental health problems.

**Hyper-parenting limits physical activity and can harm mental health.**

- Children are more curious about, and interested in, natural spaces than pre-fabricated play structures. Children who engage in active outdoor play in natural environments demonstrate resilience, self-regulation and develop skills for dealing with stress later in life.

**Outdoor play that occurs in minimally structured, free and accessible environments facilitates socialization with peers, the community and the environment, reduces feelings of isolation, builds inter-personal skills and facilitates healthy development.**

---

ParticipACTION Report Card on Physical Activity for Children and Youth
Recommendations

» **Parents:** Encourage your children to engage more fully with their outdoor environments in a variety of weather conditions. When children are supported to take risks, they have more fun and learn how to assess and manage risk in all areas of their lives.13,14,20

» **Educators and Caregivers:** Regularly embrace the outdoors for learning, socialization and physical activity opportunities, in various weather conditions—including rain and snow. Risky active play is an important part of childhood and should not be eliminated from the school yard or childcare centre.

» **Health Professionals:** Be influential! Promote every child’s connection with nature and the outdoors—identify outdoor play resources and partner with municipalities, parks, nature-related organizations, parent groups and children to support this process.

» **Injury Prevention Professionals:** Find a balanced approach to health promotion and protection that considers the long-term dangers of a sedentary lifestyle along with the acute potential for injury.

» **School and Child Care Administrators:** Choose natural elements over pre-fabricated playgrounds and paved areas—and encourage children to play in, and help design, these environments.

» **Media:** Provide balanced reporting—sensationalizing stories about predators and danger elevates fear; cover success stories related to outdoor and risky active play.

» **Attorneys General:** Establish reasonable liability limits for municipal governments—this means Joint and Several Liability Reform.

» **Provincial and Municipal Governments:** Work together to create an environment where Public Entities are protected from frivolous lawsuits over minor injuries related to normal and healthy outdoor risky active play. This protection would no longer restrict Public Entities to using the Canadian Standards Association CAN/CSA Z614 “Children’s Playspaces and Equipment” as a guide for the design of outdoor play spaces and as a requirement for the funding of these spaces. An increased investment in natural play spaces in all neighbourhoods is encouraged.

» **Schools and Municipalities:** Examine existing policies and by-laws and reconsider those that pose a barrier to active outdoor play.

» **Federal and Provincial/Territorial Governments:** Collaborate across sectors to find ways to improve children’s access to risky active play in nature and the outdoors.

» **Society:** Recognize that children are competent and capable. Respect parents’ assessments of their children’s abilities and their decisions to encourage self-directed play in nature and the outdoors. Allow all children to play with and form a lasting relationship with nature on their own terms.

This Position Statement was informed by the best available evidence, interpreted by a group of Canadian experts representing 14 organizations, and reviewed and edited by more than 1,600 stakeholders. Details of the process are published in the *International Journal of Environmental Research and Public Health* [www.mdpi.com/journal/ijerph].

Funding for the development of the Position Statement was provided by The Lawson Foundation, the Healthy Active Living and Obesity Research Group at the Children’s Hospital of Eastern Ontario Research Institute, KidActive and ParticipACTION.
World’s First Integrated 24-Hour Movement Behaviour Guidelines for Children and Youth

Physical inactivity and obesity represent pervasive and, arguably, the greatest health challenges to our children and youth today. To maximize success, these serious public health threats need to be addressed with a range of strategies. Historically, the health benefits of MVPA to health have dominated discussions. Emerging evidence indicates that a broader, more inclusive and integrated approach is needed to better understand and address these challenges.

Existing guidelines for children and youth around the world focus on MVPA—and, more recently, sedentary behaviour—despite an accumulating body of evidence that light-intensity physical activity (LPA) such as walking can provide important health benefits. Furthermore, there is accumulating support for the importance of adequate sleep and that these behaviours moderate the health impact of each other. For example, some of the health benefits of MVPA can be lost if children have poor sleep habits and/or engage in excessive sedentary behaviour. Ignoring these other components of the movement continuum (LPA, sleep, sedentary time), which make up approximately 95% of the day, limits the potential to optimize the health benefits of movement behaviours.

Is There a Need for 24-Hour Movement Behaviour Guidelines?

Within a 24-hour period, movement occurs on a continuum from sleep (no/low movement) to vigorous-intensity physical activity (high movement). However, current guidelines are missing information on at least 2 important movement behaviours: LPA and sleep. Ignoring important components of the 24-hour day is unfortunate as new research shows that all movement behaviours and their interaction have important health implications. Therefore, it is time that we adopt a paradigm that integrates, not segregates, movement behaviours.

In order to address this limitation, experts in Canada are currently developing the world’s first Integrated 24-Hour Movement Behaviour Guidelines for Children and Youth (Aged 5-17 Years). These guidelines will include all intensities of physical activity (light, moderate, vigorous), sedentary behaviour and sleep. They also follow established protocols for clinical practice guideline development, and involve a large team of researchers, knowledge users and international collaborators. These new guidelines will help children, youth, parents, educators, public health/healthcare professionals and governments easily understand the importance of all movement behaviours in a 24-hour period. This evidence-informed approach will help to advance an integrated healthy active living agenda that has the potential to significantly contribute to the improvement of overall health and well-being among children and youth in Canada and worldwide. Stay tuned!

---

**FIGURE 2.** The general distribution of movement behaviours over 24 hours in children and youth (source: adapted from Chaput et al. 2014).
INDICATORS
9% of 5- to 17-year-olds in Canada (14% of 5- to 11-year-olds and 5% of 12- to 17-year-olds) meet the daily recommendation of at least 60 minutes of MVPA (2012-13 CHMS, Statistics Canada). This percentage has remained stable since the 2007-09 CHMS when 7% of 5- to 17-year-olds met the daily recommendation.¹²²
Overall Physical Activity

This year’s grade remains a D- for the third year in a row 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 poorly (5- to 11-year-olds and 12- to 17-year-olds).

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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 every day).
Key Findings

» **70% of 3- to 4-year-olds in Canada** meet the daily recommendation of at least 180 minutes of physical activity at any intensity (2012-13 Canadian Health Measures Survey [CHMS], Statistics Canada).

» **9% of 5- to 17-year-olds in Canada** (14% of 5- to 11-year-olds and 5% of 12- to 17-year-olds) meet the daily recommendation of at least 60 minutes of MVPA (2012-13 CHMS, Statistics Canada). This percentage has remained stable since the 2007-09 CHMS when 7% of 5- to 17-year-olds met the daily recommendation.145

» **5% of 5- to 19-year-olds in Canada** take at least 12,000 steps every day of the week, which approximates the Canadian Physical Activity Guidelines for Children and Youth (2011-14 Canadian Physical Activity Levels Among Youth Survey [CANPLAY], Canadian Fitness and Lifestyle Research Institute [CFLRI]).123

» **According to primary caregivers**, 72% of 6- to 11-year-olds in Canada from on-reserve and northern First Nations communities accumulate a daily average of at least 60 minutes of MVPA (2008-10 First Nations Regional Health Survey).124

Research Gaps

» **There is a need for more research** on the relationship between physical activity and health indicators in the early years.

» **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.

» **Greater focus** continues to be needed in addressing disparities in physical activity participation related to gender, increasing age, ability and socioeconomic status.

Literature Synthesis

Changes in Physical Activity Over Time

A recent review of physical activity in children and youth concluded, based on limited evidence, that there has not been much change in the overall physical activity levels of children and youth in the last 20 years.125 The CANPLAY study in Canada, which began in 2005 and has collected 8 cycles of pedometer data on children and youth, is filling in this gap in knowledge. The latest data reveal that 5- to 19-year-olds in Canada take an average of 11,000 steps per day.126

![FIGURE 3. Trends in average steps over time, overall and by gender (source: adapted from 2005-14 CANPLAY, CFLRI126).](image-url)
Physical Activity and Concussions

Physical activity is important for the health of children and youth (see Why is Physical Activity Important?), but injuries such as concussions can occur during various forms of physical activity. A concussion is a form of traumatic brain injury caused by a blow, contact, or jolt to the head; it can also occur by falling or by an impact to the body that moves the brain within the skull. Concussion symptoms vary between individuals, but common physical symptoms include headache, dizziness, nausea, impaired vision and increased sensitivity to light or noise. Approximately 29,000 concussions and other brain injuries are reported annually in 12- to 19-year-olds in Canada. Data from 8 emergency departments across Canada reveal that 1 in 70 visits is for a concussion. The majority of concussions occur in sports where contact is permitted or where collisions frequently occur (e.g., hockey, football, rugby, soccer, basketball).

Given the seriousness of concussions and growing public concern, the release of Guidelines for Diagnosing and Managing Pediatric Concussion by the Ontario Neurotrauma Foundation in 2014 is timely. These evidence-based guidelines may help inform the decisions of those (e.g., healthcare professionals, parents, caregivers) who suspect that a child or youth has suffered a concussion. For more information on the guidelines, visit onf.org/documents/guidelines-for-pediatric-concussion.
Contributing Factors and Disparities

New data from CANPLAY reveal that a number of disparities have generally persisted since the survey began in 2005: boys take more average daily steps than girls, daily steps decrease with increasing age, and children and youth who participate in organized physical activity and sport take more daily steps than those who do not participate. Additionally, children and youth from the highest income households tend to take more daily steps on average than those from lower income households. Emerging data also show disparities in relation to immigration and ethnicity. For example, 15% of Canadian-born youth versus 11% of their peers who were born outside of Canada report at least 60 minutes of daily MVPA. Only 8% and 9% of youth self-identifying as from East/South East Asia and Latin America, respectively, report at least 60 minutes of daily MVPA. Lower levels of physical activity in South Asian children who live in Canada have also been reported elsewhere.
### Organized Sport & Physical Activity Participation

This year’s grade enters the B range for the first time in the history of the Report Card. The improved grade is due to lessening disparities and new data that reveal encouraging participation rates in children and youth with disabilities.

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» Percentage of children and youth who participate in organized sport and/or physical activity programs.
Key Findings

» According to parents, 75% of 5- to 19-year-olds in Canada participate in organized physical activities and sports (2011-14 CANPLAY, CFLRI).

» 84% of 3- to 17-year-olds in Canada participate in sports and 60% of 3- to 17-year-olds participate in organized sports (2014 Canadian Youth Sports Report, Solutions Research Group).

» 5- to 19-year-olds in Canada who participate in organized physical activities or sports take approximately 1,700 more daily steps on average than children who do not participate in these types of activities (2011-14 CANPLAY, CFLRI).

» According to parents, 49% of 5- to 19-year-olds in Canada participated in organized physical activity and sport during the afterschool period (2011-14 CANPLAY, CFLRI).

» 75% of families with a disabled child report that their child participated in organized physical activity and sport during the afterschool period (2011-14 CANPLAY, CFLRI).

» Just under 30% of 3- to 21-year-olds in Canada with severe developmental disabilities (e.g., moderate to severe intellectual disabilities, autism spectrum disorders, dual diagnosis, physical disabilities, genetic syndromes) play team sports.

Research Gaps

» More robust surveillance of the sport participation of Canadian children and youth is needed.

» A better understanding is needed about the contribution that sport participation makes to MVPA (e.g., what contribution to MVPA should be expected from sport participation?).

» 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.

Literature Synthesis

The health benefits of organized sport participation in children and youth have been highlighted in past Report Cards, and new research continues to reinforce the importance of organized forms of physical activity. A study involving 6-year-olds found that participation in organized sport was significantly associated with reduced body fat, suggesting that organized sport may offer health benefits for participants even at this young age. In 12- to 17-year-olds, organized sport participation is linked with a greater likelihood of meeting physical activity and screen time guidelines. Although a recent review identified sport as a risk factor for increased alcohol consumption from adolescence into early adulthood, organized sport participation is associated with lower illicit drug use. There is evidence that the benefits of organized sport continue across the lifespan: a recent study showed high school varsity sport participation to be the strongest predictor of high physical activity levels and good health after 70 years of age.

Why Do Children and Youth Drop Out of Sport?

Canadian researchers recently reviewed 43 international studies representing nearly 470,000 5- to 19-year-olds and found that structural constraints (e.g., time, injuries, cost, inadequate facilities) are not the leading reasons why children and youth drop out of sport. Rather, dropout is largely due to a lack of enjoyment, low perceived competence and an increase in family and intrapersonal pressure (e.g., stress). These findings suggest that organized sport may be too focused on winning to the detriment of having fun, which is in line with reports that 73% of Canadian parents agree that “sports have become too focused on winning”.

Recommendations

» Educate parents, coaches, officials and participants on the principles of fair play according to the True Sport Principles (http://truesportpur.ca/true-sport-principles) and Canadian Sport 4 Life (www.canadiansportforlife.ca).

» Encourage program providers to develop strategies to counter the dropout rate in organized sport and physical activities among youth.

» Encourage program providers to make the development of physical literacy a priority within their program.
New Citizens and Sport Participation

The Institute for Canadian Citizenship released a report in 2014, *Playing Together: New Citizens, Sports & Belonging*, which explored sport participation among new citizens to Canada. 44% of new citizens who are parents report that their children play sports. Parents who registered their child in sports and/or volunteered for their child’s sports team reported that it helped them learn about Canadian culture and they felt more connected to their community. To read the full report, visit www.icc-icc.ca/en/insights/sports.php.

**Contributing Factors and Disparities**

**Based on data collected** between 2011 and 2014, there was no significant difference in organized sport and physical activity participation rates by gender among 5- to 19-year-olds in Canada, but participation decreased with increasing age. During this same time period, participation rates were generally higher with increasing household income and parental education levels.

The cost of enrollment is the largest barrier to sport participation: 90% of parents agree that organized sports are too expensive. Canadian families spend an average of $953 annually for one child to play in organized sport. Families in Alberta spend the most in Canada ($1,428 annually per child) and families in Quebec spend the least ($886 annually per child).

**RBC SPORTS DAY IN CANADA**

The 5th annual RBC Sports Day in Canada took place on November 29th, 2014. Over 800,000 Canadians participated in more than 200 registered sporting events across the country. Results from a survey of community organizations (53% education, 29% recreation, 37% sport) that hosted a Sports Day event in 2012 reveal a number of benefits that outlasted the event itself: an increase in awareness and interest in sports programs offered by their organization (43%); an increase in awareness and interest in their organization (38%); and an increase in participation or registration in the program (38%). The benefits suggest that events like RBC Sports Day in Canada may provide an additional opportunity for community organizations to promote physical activity to children and youth.

**FIGURE 5.** Barriers that prevent 3- to 17-year-olds in Canada from participating in organized sports (source: adapted from 2014 CIBC – KidSport Report).
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.

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- Percentage of children and youth who engage in unstructured/unorganized active play for several hours a day.
- Percentage of children and youth who report being outdoors for several hours a day.
Key Findings

» According to parents, 76% of 5- to 19-year-olds in Canada participate in unorganized physical activities or sports during the afterschool period, that is, between the end of the school day and suppertime (2011-14 CANPLAY, CFLRI).

» According to parents, 68% of 5- to 19-year-olds in Canada participate in outdoor play during the afterschool period (2011-14 CANPLAY, CFLRI). In another survey, 65% of Canadian parents report that their 5- to 17-year-olds play outdoors during the afterschool period (2010-11 Physical Activity Monitor [PAM], CFLRI).

» Canadian children and youth who participate in unorganized physical activities or sports during the afterschool period take approximately 1,300 more daily steps than those who do not participate (2011-14 CANPLAY, CFLRI). Additionally, those who play outdoors during the afterschool period take 2,100 more daily steps on average than those who do not (2011-14 CANPLAY, CFLRI).

» 7- to 17-year-olds in Canada report spending an average of 92 minutes per day outdoors (122 minutes in 7- to 11-year-olds and 72 minutes in 12- to 17-year-olds) (2012-13 CHMS, Statistics Canada).

» Canadian children burn more than 8 times as many calories meeting the benchmark for active play (several hours a day of unstructured/unorganized active play which was operationalized as 3.8 hours in this particular study) than they do meeting the benchmarks for organized sports and school-based physical education.148

Recommendations

» Increase parents’ and caregivers’ awareness and understanding of the benefits versus the risks of outdoor play.

» 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.

Research Gaps

» More research is needed to establish a definition of active play.

» Further research is required to identify an evidence-based benchmark for this indicator. For example, should LPA and outdoor time be part of the benchmark? How many hours of active play per day are needed for improved health?

» Interventions promoting active play remain to be developed and evaluated.

Literature Synthesis

Outdoor time/play is associated with a number of benefits such as improved social skills,7 motor skill development (e.g., climbing and jumping),19 lower levels of overweight and obesity,149 and increased overall physical activity.151 One recent study also found that as the time 9- to 17-year-olds spent outdoors after school increased, daily MVPA increased and daily sedentary time decreased.12 Those who spent most or all of their afterschool time outdoors got approximately 20 more minutes of MVPA per day and were about 3 times more likely to achieve the Canadian Physical Activity Guidelines, which recommend at least 60 minutes of daily MVPA.151 This additional MVPA translates to an approximate 40% reduction in the risk of high normal blood pressure and a 15% reduction in the risk of being overweight or obese.151

FIGURE 6. Minutes of MVPA per day in 9- to 17-year-olds in Alberta, by gender and amount of time spent outdoors after school (source: adapted from Schaefer et al. 2014). * Significantly different from “none of the time” (p < .05).
Contributing Factors and Disparities

In a recent review of qualitative research of independent active free play, a number of factors were found to have an influence on participation rates. For example, older children and those perceived by their parents to be more streetwise were more likely to be permitted to engage in independent active free play. Boys were generally allowed to play outdoors more frequently, later into the day and further from home than girls. The most widely reported finding was that parental safety concerns (e.g., worry about strangers, bullies and traffic) are the primary barrier to independent active free play.

Outdoor MVPA decreases with age in children and youth, and overall declines in children’s outdoor play have been documented worldwide. Current research suggests that a supportive family environment is a key determinant of regular outdoor play. Furthermore, children who are granted at least some independent mobility (freedom to travel/play in public spaces without adult supervision) have more favorable physical activity profiles. Dog walking may provide an accessible and safe option for improving levels of independent mobility and, consequently, outdoor play.
Active Transportation

In the absence of data on active transportation to/from destinations other than school, 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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» Percentage of children and youth who use active transportation to get to and from places (e.g., school, park, mall, friend’s house).
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).15

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).15

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, Statistics Canada).15

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, Statistics Canada).15

In a small sample of 7- to 12-year-olds from across Canada, the percentage who walk or bicycle at least 5 days per week is low and varies by destination: to school in the morning (28%), to home from school in the afternoon (28%), to the house of a friend/neighbour/relative (14%), to sports venues (5%), to parks and playgrounds (13%), to convenience and variety stores (4%), to fast food restaurants and coffee shops (7%), to other shops and destinations (4%).15

Recommendations

School travel planning interventions should be implemented at a larger scale.

School board transport policies need to recognize and consider ways to support active forms of travel such as walking and cycling, rather than serving as purely a “bussing” policy.

Policy-makers should pay careful attention to areas with known safety risks in which a greater percentage of children engage in active transportation.53,166 Such policies may include lower speed limits, greater provision of sidewalks and bike lanes, traffic calming and crossing guards near schools.46,166

Novel initiatives to encourage active transportation among children living in suburban and rural areas are needed. While school may be located too far away to enable active transportation for the entire trip, walking may still be promoted for part of the journey.93

Research Gaps

Further research is needed on the effectiveness and sustainability of interventions to promote active transportation, such as school travel plans and walking school buses.

More research is needed on how children and youth travel to destinations other than school (e.g., parks, shops, friends’ and relatives’ houses, sport fields). These destinations may provide additional opportunities for active transportation. To date, only the Canadian Health Measures Survey provides national data on trips to some of these destinations.166

The factors associated with children’s independent mobility require more investigation. This research is important because independent mobility may foster active transportation, outdoor play and overall physical activity.84,164

Literature Synthesis

Active travelers to school are more active throughout the entire day than their peers who are driven to/from school.159,165,170 They accumulate as much as 45 additional minutes of MVPA per day.165 Children and youth who cycle to/from school also have greater cardiovascular fitness than those who are driven to/from school.165 Youth who cycle for transportation purposes at least 1 hour per week have been shown to get more MVPA, have higher cardiovascular fitness, have a lower body mass index and waist circumference, and have a more favourable cholesterol profile than those who report no cycling.159 Active transportation may also have positive effects on mental health.21

School Travel Plans

A recently published evaluation of school travel plans (strategies to promote active school travel based on the local school context) in 103 schools found that 17% of parents reported driving their children to/from school less often as a result of the school travel planning intervention.170 Of those parents who reported driving less, the large majority (83%) had switched to active transportation, thus highlighting the potential of school travel planning interventions to increase active transportation in parents and their children.170
Contributing Factors and Disparities

As illustrated in Figure 7, a wide range of factors influence whether children and youth engage in active or motorized travel. The issue of school travel is remarkably more complex than typically assumed. Canadian studies have concluded that active transportation is more likely among:

- Children living closer to the school that they attend.[170-174]
- Children in primary school compared to youth in secondary school.[25]
- Children with greater freedom to travel in their neighbourhood without adult supervision (e.g., independent mobility).[84,173]
- Boys compared to girls.[176,177] This is particularly the case for cycling.[159]
- Children living in an urban area, compared to a suburban or rural area.[167,169,172,176]
- Children living in western provinces compared to eastern provinces.[176,178]
- Children living in more deprived areas.[160,178,179]

FIGURE 7. Factors that influence whether children and youth actively commute to/from destinations (source: adapted from Mitra 2013[180]).
Physical Literacy

The grade for this new indicator in the Report Card is an incomplete due to the limited amount of data on physical literacy that currently exists for children and youth in Canada.

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Percentage of children and youth who meet the recommended levels of physical competence, knowledge, motivation and daily behaviours needed for a physically active lifestyle.
Key Findings

- 39% of 8- to 12-year-olds meet or exceed the minimum level recommended for physical literacy (2011-15 Canadian Assessment of Physical Literacy [CAPL], Healthy Active Living and Obesity Research Group [HALO]).
- 26% of 8- to 12-year-olds meet or exceed the minimum level recommended for the physical competence domain of physical literacy (2011-15 CAPL, HALO).
- 41% of 8- to 12-year-olds meet or exceed the minimum level recommended for the motivation and confidence domain of physical literacy (2011-15 CAPL, HALO).
- 35% of 8- to 12-year-olds meet or exceed the minimum level recommended for the knowledge and understanding domain of physical literacy (2011-15 CAPL, HALO).

Note: if readers have access to physical literacy data that could inform this grade, please forward to ParticipACTION (info@participaction.com).

Recommendations

- Widely communicate the common definition of physical literacy, in order to enhance the overall understanding of physical literacy and each of the elements.
- Based on the definition, create key messages written in plain language that describe physical literacy in the context of each sector and in a way that makes it understandable to leaders and the general public.
- Identify and share initiatives and strategies that develop all elements of physical literacy, not just fundamental movement skills.

Research Gaps

- A common definition, written in plain language, is needed to inform the development of programs, resources and measurement of physical literacy, by different sectors.
- Tools and subsequent data are needed on physical literacy in children under 8 years of age and above 12 years of age.

Physical Synthesis

Physical literacy is a relatively new concept describing an individual's capacity to be physically active. The definition being proposed by harmonization efforts in Canada and following the International Physical Literacy Association is as follows: "Physical literacy is the motivation, confidence, physical competence, knowledge and understanding to value and take responsibility for engagement in physical activities for life."¹⁰¹

Physical literacy has been gaining traction among physical activity stakeholders, but is not always well understood. The concept extends beyond an individual’s physical abilities and includes one’s motivation and confidence, and knowledge and understanding of physical activity.¹⁰²,¹⁰³

Over the past few years, several physical activity stakeholders in Canada have recognized the importance of physical literacy. A few groups have developed tools to monitor and assess the physical literacy of children. Here are examples of the more widely used physical literacy assessments in Canada:

- **Passport for Life**¹⁰⁴ has been developed by Physical Health and Education Canada and looks at the 4 domains of physical literacy through: active participation (self-reported physical activity), living skills (confidence and competence), fitness skills (cardiovascular endurance, core strength, and dynamic balance) and movement skills (locomotor skills, upper limb movement, lower limb movement and balance).

- **Physical Literacy Assessment for Youth (PLAY)**¹⁰⁵ has been developed by Canadian Sport for Life and focuses on the ability and confidence of a child when they perform basic movement skills (e.g., running, throwing, balance, kicking).

- **The Canadian Assessment of Physical Literacy (CAPL)**¹⁰⁶ has been developed by HALO and is a valid and reliable physical literacy assessment for 8- to 12-year-olds.¹⁰⁷ The CAPL examines the 4 domains of physical literacy through: daily behaviour (average daily step count, self-reported physical activity and sedentary time), physical competence (cardiovascular endurance, grip strength, flexibility, core strength, motor skills, body mass index percentile, and waist circumference), knowledge and understanding, and motivation and confidence.

These examples demonstrate the increasing attention that physical literacy is receiving in Canada. Given the current low levels of physical activity¹⁰⁸ and fitness¹⁰⁹ among children, perhaps a different approach is required to help them become more active – an approach that includes physical literacy. In support of this, preliminary evidence suggests one aspect of physical literacy, high motor proficiency, in 6-year-olds is positively related to leisure-time physical activity at age 26.¹¹⁰
**Sedentary Behaviours**

This year’s grade is a D- because most children and youth in Canada are not meeting the Canadian Sedentary Behaviour Guidelines. The presence of age disparities also contributes to the grade.

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» Percentage of children and youth who meet the Canadian Sedentary Behaviour Guidelines (3- to 4-year-olds: less than 1 hour of screen time per day; 5- to 17-year-olds: no more than 2 hours of screen time per day).

**Note:** the Guidelines currently provide a time limit recommendation for screen-related pursuits, but not for non-screen-related pursuits.

* In 2011 and 2012 there were 2 separate indicators: Screen-Based Sedentary Behaviours and Non-Screen Sedentary Behaviours. Following 2012, these indicators were collapsed into a single indicator.
### Key Findings

- **15% 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 (2012-13 CHMS, Statistics Canada).
- **During waking hours,** 3- to 4-year-olds in Canada spend an average of 7.5 hours per day being sedentary (2012-13 CHMS, Statistics Canada).
- **24% of 5- to 17-year-olds in Canada** (24% of 5- to 11-year-olds and 24% of 12- to 17-year-olds) meet the Canadian Sedentary Behaviour Guidelines for Children and Youth, which recommend daily screen time of no more than 2 hours (2012-13 CHMS, Statistics Canada).
- **During waking hours,** 5- to 17-year-olds in Canada spend an average of 8.5 hours per day being sedentary (7.6 hours in 5- to 11-year-olds and 9.3 hours in 12- to 17-year-olds) (2012-13 CHMS, Statistics Canada).
- **According to parents,** 54% of 5- to 19-year-olds in Canada sit and watch less than 1 hour of television during the afterschool period (2011-12 CANPLAY, CFLRI). 33% watch between 1 and less than 2 hours of television, and 13% watch 2 or more hours of television during the afterschool period.
- **According to parents,** 50% of 5- to 19-year-olds in Canada sit and participate in other sedentary pursuits (e.g., reading, playing computer games) for less than 1 hour during the afterschool period (2011-12 CANPLAY, CFLRI). 35% sit and participate in other sedentary pursuits for between 1 and less than 2 hours while 15% do so for 2 or more hours during the afterschool period.

### Research Gaps

- **Research needs to better differentiate** the effects of screen-based vs. non-screen sedentary behaviours and their influence on health indicators.
- **Methodologies to assess** non-screen-time sedentary behaviour are needed.

### Literature Synthesis

**Sedentary behaviours** such as television viewing, seated video game playing and prolonged sitting are associated with increased risks for obesity and cardiometabolic disease in children and youth. In light of this, the Canadian Sedentary Behaviour Guidelines were developed to provide parents and caregivers with evidence-based and age-specific daily limits on screen-time viewing. Some parents find these guidelines confusing because some sedentary behaviours (e.g., reading, coloring) seem to offer benefits to mental and social development. Indeed, new research reveals a positive link between academic-related sedentary behaviours and reading fluency in grades 1-3 schoolchildren.

Although it is important to distinguish types of sedentary behaviours that carry some positive health benefits, research continues to clarify the negative outcomes associated with screen-based sedentary behaviours in children and youth. Negative outcomes linked to television, video game, cellphone and Internet use include disordered sleeping, higher overall levels of sedentary behaviour and measures related to obesity (e.g., higher body fat percentage, waist-to-hip ratio and body mass index). Longer periods of sedentary behaviour appear to be of particular concern for obesity-related outcomes. For example, the number of sedentary periods of 5-19 minutes has been linked to higher body mass index in children with low levels of MVPA. Given that frequent interruptions in sedentary time are associated with lowered risk for cardiometabolic risk factors, children and youth need to be encouraged to break up their daily sedentary time.

### Recommendations

- **Reducing screen time** and using television-limiting devices are promising methods for reducing overall sedentary time. Limiting the number of screens available in the house, particularly in the bedroom, and restricting screen time near bedtime may also be effective.
- **Provide parents** with the Canadian Sedentary Behaviour Guidelines and other resources as early as possible.
- **Educators should plan** for opportunities to break up sedentary time throughout the day.

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Contributing Factors and Disparities

The percentage of 5- to 19-year-olds in Canada who spend at least 2 hours per day sitting while watching television or engaging in other sedentary pursuits during the afterschool period increases with age. A greater percentage of those who do not participate in organized physical activity or sport also spend greater durations of time in these sedentary pursuits during the afterschool period. Parents with a university education and from the highest household incomes (≥ $100,000 per year) are generally less likely to report that their child engages in these sedentary pursuits for at least 2 hours during the afterschool period compared to parents without a university education and from the lower household incomes respectively.
95% of mothers in Canada with a 5- to 11-year-old child agree that “unstructured activities, like outdoor play with friends, are an effective way for kids to get the physical activity they need each day” (2014 Bring Back Play Campaign Assessment, ParticipACTION).
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 by family physical activity data. This year’s C+ grade is a slight improvement over last year due to new data showing that parents understand the importance of physical activity for children and youth.

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» 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. 5
» 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

**Family Physical Activity**

- **79% of parents** report contributing financially to their kids’ physical activity (e.g., purchasing equipment, paying membership fees) (2010-11 PAM, CFLRI).
- **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, which recommend at least 150 minutes of weekly MVPA (2007-11 CHMS, Statistics Canada).
- **37% of parents** report playing active games with their kids often or very often (2010-11 PAM, CFLRI).
- **90% of high school students** (grades 9-12) in Ontario and Alberta report that their parents are very supportive or supportive of them being physically active (2013 COMPASS, University of Waterloo).
- **70% of high school students** (grades 9-12) in Ontario and Alberta report that their parents encourage or strongly encourage them to be physically active (2013 COMPASS, University of Waterloo).
- **95% of mothers in Canada** with a 5- to 11-year-old child agree that “unstructured activities, like outdoor play with friends, are an effective way for kids to get the physical activity they need each day” (2014 Bring Back Play Campaign Assessment, ParticipACTION).
- **26% of mothers in Canada** with a 5- to 11-year-old child ranked participation in daily physical activity as the most important priority for their child (2014 Bring Back Play Campaign Assessment, ParticipACTION).
- The **majority of moms** with a 5- to 11-year-old child are generally confident in their ability to influence their child to participate in physical activity without infringing on the child’s time spent doing things with the family (89%), without infringing on the child’s time spent doing the things s/he wants to do (88%), and by limiting screen time (85%) (2014 Bring Back Play Campaign Assessment, ParticipACTION).

**Peer Influence**

- **40% of high school students** (grades 9-12) in Ontario and Alberta report that they have 5 or more friends who are physically active. 17% report having no or only 1 friend who is physically active (2013 COMPASS, University of Waterloo).

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.

Research Gaps

- **Research is needed** on the types of things children and youth find supportive for physical activity from their friends and peers.
- The influence of parental and peer support on physical activity has received relatively less research attention in Canada than in other countries. In particular, prospective research is needed to examine whether changes in parental and peer support explain changes in physical activity over time.
- Peer-based physical activity interventions need to be developed and evaluated.

Literature Synthesis

The Influence of Parents on Physical Activity and Sedentary Levels in Children

Parents and family can impact the health and physical activity levels of children and youth in a variety of ways. For example, when schoolchildren perceive that at least 1 of their parents is physically active, they are more likely to meet physical fitness standards. Children with families that are supportive and believe strongly in the importance of physical activity are also more likely to engage in physical activity. Parents can also play a role in the sedentary behaviour of their children. There is evidence that children with mothers who spend a greater amount of time in screen-based activities are more likely to spend a greater amount of time being sedentary on weekends. This reinforces the importance of physical activity promotion targeted not just at children and youth but parents as well.
Friendship Networks and Physical Activity

In a recent review of research that looked at the relationship between friendship networks and physical activity in children and youth, every study found that physical activity levels were similar among friends within a group. This may be the result of individuals adopting the attitudes and behaviours of the group (peer influence), or it may be the result of individuals selecting friends who are similar to them in terms of attitudes and behaviours (friend selection). Several longitudinal studies that tracked friendship networks over time found that the physical activity of individuals changed over time and became more similar to that of their friends with higher physical activity levels, suggesting that peer influence and not just friend selection accounts for the similarity in physical activity levels within a friendship network.

Contributing Factors and Disparities

Based on a large sample of high school students (grades 9-12) in Ontario and Alberta from the COMPASS study, grade-related differences exist in family physical activity and peer influence. For example, 33% of grade 9 students report that their parents strongly encourage them to be physically active compared to 21% of grade 12 students. Similarly, 53% of grade 9 students report that their parents are very supportive of them being physically active compared to 42% of grade 12 students. This downward trend with increasing grade is also seen in the proportion of students who report having 5 or more friends who are physically active (46% of grade 9 students vs. 34% of grade 12 students). There is also a gender difference for the proportion of students reporting 5 or more physically active friends (50% of boys vs. 31% of girls).
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.

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 who report their children and youth 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, multipurpose space for physical activity, equipment in good condition).
Key Findings

Physical Education & Physical Activity Participation at School & in Childcare Settings

- **In 2010-11,** 77% of parents reported their children’s (5- to 17-year-olds) school offers programs outside of physical education (PE) classes for sport and physical activity, which is an increase from 68% in 2000 (2010-11 PAM, CFLRI).

- **53% 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 Canadian Student Tobacco, Alcohol and Drugs Survey [formerly, Youth Smoking Survey], University of Waterloo).

School 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.

- **55% of school administrators in Canada** report having a fully implemented policy for daily PE for all students (2011 Opportunities for Physical Activity at School Survey [OPASS], CFLRI). 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. 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).

- **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). The overall percentage of schools that report a fully implemented policy has not changed since 2006.

School Infrastructure & Equipment

- **40% of school administrators** in Canada have a fully implemented policy that ensures the allocation of funding for student equipment (2011 OPASS, CFLRI). The overall percentage of schools that report a fully implemented policy has not changed since 2006.

- **24% of school administrators** in Canada have a fully implemented policy that ensures an “everyone plays” approach (2011 OPASS, CFLRI). Again, the overall percentage of schools that report a fully implemented policy has not changed since 2006.

- **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).

- **A majority of school administrators** in Canada report their students have access to bicycle racks (79%) and change rooms (75%) during school hours.

- **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).
Recommendations

- **Ministries of education** and school boards should increase training, support and accountability for implementing PE according to their provincial/territorial policies.
- **Schools** should **maximize opportunities** for students to move more and sit less (e.g., standing desks, activity breaks) throughout the day.
- **Sport and physical activity policies** and programs need to ensure that all children have the opportunity to participate on schools teams, in intramural programs and in recess and lunch time games, depending on their interest.
- **Ensure that children and youth** with disabilities are always included and integrated into regular PE classes by providing training to teachers.

Research Gaps

- **More research is needed** on physical activity and sedentary behaviours in childcare settings.
- **Research is needed** on factors at the student-, school-, and community-level that influence participation in physical activity at school.
- **While we know something** about the quantity of PE and physical activity participation at school and in childcare settings, we know little about the quality of those opportunities.

Literature Synthesis

**Because children and youth** spend a large proportion of their waking hours in non-parental environments such as school and childcare settings, these environments represent multiple opportunities to promote and facilitate physical activity (e.g., PE, recess, intramural sport, varsity sport). Indeed, there is evidence that more physical activity offerings at school are associated with more active children and youth. In a recent study of grades 11-12 students in Manitoba, those who were enrolled in PE had slightly higher levels of daily MVPA, but had almost 2 times the odds of meeting the Canadian Physical Activity Guidelines for Children and Youth (i.e. at least 60 minutes of daily MPVA) compared to those not enrolled in PE. Grades 7-12 students in Montreal who reported participation in school sports throughout their secondary school years were more likely to report lower levels of depression symptoms and perceived stress, and were more likely to report higher levels of self-rated mental health when followed up at approximately 20 years of age. In addition to the immediate impact that the school setting can have on physical activity levels, there may also be more long-term benefits. In a study of 1940s potential servicemen in the United States who were deemed “fit to fight” in World War 2 based on the successful completion of a physical exam, the single greatest predictor of their physical activity levels 50 years later when in their 70s was participation in high school varsity sport. High school varsity sport participation is also associated with fewer self-reported doctor visits.

Canada-Wide Physical Education Curriculum Scan

The last time data were presented on physical activity curricula across the country by school type (elementary or secondary) and jurisdiction (province or territory) was in the 2011 Report Card. In 2014, the Canadian Tire Corporation commissioned a research study that was prepared by The Learning Partnership and which included an updated curriculum scan. The scan reveals that every province and territory has a PE policy in place but time allotments vary. However, one of the key conclusions from the scan is that there is lack of consistent physical activity monitoring at school to ensure that physical activity (e.g., PE, daily physical activity) is being implemented appropriately.
Contributing Factors and Disparities

In previous years, the OPASS study has largely informed disparities in the school setting (e.g., age/grade, student population size, community size, region of the country) that relate to physical activity participation. Those Report Cards\(^ {138,227}\) should be consulted for data on these disparities. A new cycle of the OPASS study, which is expected next year, will provide fresh statistics that will inform the benchmarks and disparities in this indicator. Stay tuned.
## Community & Environment

The benchmarks for this indicator relate to community policy and programming, availability of infrastructure (e.g., parks and playgrounds), neighbourhood safety, and the natural environment. In the absence of new data that can inform the indicator, this year’s grade remains a B+.

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- 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.

* 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.

*** This indicator has been in the Report Card since 2011 and was called Nature & the Outdoors until this year.
Key Findings

Availability of Facilities, Programs, Parks & Playgrounds

- **Most parents in Canada** do not report infrastructure and programming as barriers that prevent their child from participating in organized sports: inconvenient location of programs/club/facilities (26%), lack of awareness of programs available in the community (15%) and limited access to good quality sports facilities (13%) (2014 CIBC – KidSport Report, CIBC and KidSport).[^14][^15]

- **Approximately 17,000 km** of the Trans Canada Trail (75% of the proposed route) are operational. 4 out of 5 Canadians live within 30 minutes of the Trail.[^23]

Neighbourhood Safety

- **The homicide rate** in Canada in 2011 for all ages (1.73 per 100,000) was 36% lower than the homicide rate in 1983 (2.69 per 100,000) (1983-2012 Uniform Crime Reporting Survey, Statistics Canada). Note: the method for calculating the homicide rate may have been modified at points during this time period. Trends over time must be interpreted with caution.

- **The sexual assault rate** in Canada in 2012 (62.85 per 100,000) for all ages was 34% higher than the sexual assault rate in 1983 (47.04 per 100,000) (1983-2012 Uniform Crime Reporting Survey, Statistics Canada). However, the current rate is the second lowest since 1985. Note: the method for calculating the sexual assault rate may have been modified at points during this time period. Trends over time must be interpreted with caution.

- **The child abduction rate** (by non-parents) in Canada in 2012 for children and youth under 14 years of age (0.43 per 100,000) was 23% lower than the child abduction rate in 1983 (0.56 per 100,000) (1983-2012 Uniform Crime Reporting Survey, Statistics Canada). Note: the method for calculating the child abduction rate may have been modified at points during this time period. Trends over time must be interpreted with caution.

- **The odds of total stranger abduction** are about 1/14 million based on RCMP reports.[^43] Being with friends outdoors may further reduce this risk.

- **Canadian children are 8 times** more likely to die as a passenger in a motor vehicle than from being hit by a vehicle when outside on foot or on a bike.[^52][^54]

Recommendations

- **National guidelines/standards** for the construction of protected bicycle paths and lanes are required.

- **Municipalities should adopt** complete streets policies which ensure that streets are designed for all ages, abilities, and modes of travel.

- **Create and promote** the development of natural playgrounds to supplement or replace traditional playgrounds in order to help engage children in outdoor play and enhance their connection with nature. Natural playgrounds are areas where children can play with natural elements such as sand, water, wood and living plants.

- **Ensure that children and youth** with disabilities are always included and integrated into community programs by providing training to recreation leaders.

Research Gaps

- **Research is needed** to understand why families are not using local spaces and programs for physical activity despite good availability.

- **Research is needed** on the factors that influence parental perceptions of child safety as it relates to playing outdoors and engaging in active transportation.

Literature Synthesis

Playability vs. Walkability

The built environment consists of all physical environments created or modified by humans (e.g., urban design, land use, transportation systems). The relationship between these environments and physical activity in children and youth varies by age and is sometimes counterintuitive or unclear. For example, although a review study revealed a positive correlation between walkability and physical activity in children,[^224] a nationally representative sample of grades 6-10 students in Canada found that walkability (how conducive an area is to walking) correlates negatively with physical activity whereas some markers of poor walkability such as cul-de-sacs are positively related to physical activity.[^226] Perhaps areas with poor walkability – not just cul-de-sacs but undeveloped green space like fields and treed areas – actually present opportunities for outdoor play in children and youth. Indeed, a recent study of grades 6-8 students in Canada found that the percentage of home neighbourhood space consisting of trees was positively associated with the frequency of physical activity outside of school hours.[^226]
Parental Safety Concerns as a Barrier to Physical Activity

As stated in previous Report Cards,138,227 child and youth participation in unstructured free play, structured physical activity and active transportation can be influenced by parental safety concerns. A recent study of 9- to 13-year-olds in Quebec reinforced this – parents who felt comfortable letting their children actively commute to school were more likely to report that their children did actively commute to school.228 In a recent review of qualitative research studies, the most widely reported finding was that parental safety concerns (e.g., worry about strangers, bullies and traffic) are the primary barrier to independent active free play.152

In view of the influential role that parents have on the independent active free play of their children, the question that needs to be asked is whether an appropriate balance of allowing children and youth to be active while protecting them from serious harm has been reached? As argued in the recently released Position Statement on Active Outdoor Play (see pages 8-9), “We need a better balance between perceived danger, real danger and acceptable risk”. In terms of real danger and associated risk in relation to crimes against children and youth in Canada, the majority of physical and sexual assaults are not committed by strangers but by someone known to the victim. For example, 81% of police-reported physical assaults against children under the age of 6 in Canada are committed by persons known to the victims.229 Likewise, 75% of reported sexual violence against children and youth in Canada was perpetrated by someone familiar to the victim such as a family member, friend or acquaintance.229 Furthermore, cases of child luring through the Internet (149 reported cases in 2008)229 are far greater than the number of reported child kidnappings by strangers (odds of 1/14 million). These statistics should help inform parents’ understanding of real danger as they seek to strike the proper balance of protecting their children and youth without unnecessarily restricting their independent active free play.

The Importance of Connectedness to Nature

A recent review of 30 studies reveals that people who are more connected to nature tend to be happier.229 The strength of the relationship is similar to other factors believed to be positively linked with happiness including income,233 marital status,233 education233 and physical attractiveness.233 Positive experiences in nature at a young age are important for fostering nature connectedness. These experiences can influence one’s tendency to connect with nature233 and, subsequently, behaviours like time spent outdoors and MVPA.12

Contributing Factors and Disparities

Some parents (11%) in Canada report a lack of accessibility (e.g., distance to facilities and opportunities for physical activity) as a barrier to their children being physically active.235 This differs by province and territory with the proportion of parents from the Atlantic region, Saskatchewan and the North reporting a lack of accessibility as a barrier generally exceeding the national average.235 This disparity is also seen depending on community size with lack of accessibility being more problematic in communities with less than 10,000 versus 250,000 residents or more.235
STRATEGIES & INVESTMENTS

2015

At the 2015 Conference of Federal-Provincial-Territorial Ministers responsible for Sport, Physical Activity and Recreation, provincial and territorial Ministers endorsed, and the Government of Canada supported, the Framework for Recreation in Canada 2015.
Government

This year’s B- grade is an improvement since last year’s due to new evidence of increased physical activity funding by the federal government and by a majority of provincial and territorial governments. Evidence of leadership and commitment (e.g., two announcements made at the 2015 Conference of Federal-Provincial-Territorial Ministers responsible for Sport, Physical Activity and Recreation) also factored into this year’s improved grade.

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» 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

- **At the 2015 Conference** of Federal-Provincial-Territorial Ministers responsible for Sport, Physical Activity and Recreation, provincial and territorial Ministers endorsed, and the Government of Canada supported, the Framework for Recreation in Canada 2015. The Framework was a joint initiative of the Canadian Parks and Recreation Association and the Interprovincial Sport and Recreation Council (ISRC).

- **At the same 2015 Conference** of Federal-Provincial-Territorial Ministers responsible for Sport, Physical Activity and Recreation, a report outlining the current status of physical activity levels among children, youth and adults in Canada was discussed. Recognizing the complex challenge of increasing physical activity for all Canadians, Ministers gave direction to apply findings from the report to advance approaches and program interventions to increase population-level physical activity through collaborative action and jurisdictional initiatives. Further, Ministers directed officials to review Active Canada 20/20: A Physical Activity Strategy and Change Agenda for Canada, with a view to developing a pan-Canadian framework to be brought to Ministers for endorsement at a future meeting.

On October 7, 2014, the Government of Canada announced intentions to enhance the Child Fitness Tax Credit (CFTC) by increasing the maximum amount that may be claimed under the credit to $1,000 from $500 and making it refundable. According to the Department of Finance’s Tax Expenditures and Evaluations 2014 report, the projected tax expenditure for the CFTC is $130 million for 2014.

- **Sport Canada** and the provinces/territories work together to help children and youth participate and excel in sport through the implementation of Canadian Sport for Life (CS4L), a Federal-Provincial/Territorial framework that within its first three stages (Active Start, Fundamentals and Learn to Train) promotes competency in fundamental motor skills for children and youth. In 2014-15, Sport Canada recommended $573,800 in funding for CS4L Leadership in the sport system to advance Long-Term Athlete Development implementation.

- **The Government of Canada** encourages sport participation and physical activity among children and youth by supporting projects and activities through bilateral agreements with provinces and territories. One of the primary objectives of the bilateral agreements specifically targets youth and children: To introduce sport through programming that supports physical literacy at the early stages of athlete development. In 2014-15, $4.87 million in support was provided through these agreements. The provinces and territories in turn matched this amount.

- **On October 16, 2014**, His Excellency, the Right Honourable David Johnston, Governor General of Canada proclaimed 2015 as the Year of Sport in Canada. The overarching theme is Canada: A Leading Sport Nation (see the Spotlight section for more information).

- **In conjunction with** the 2015 Pan Am/Parapan Am Games, the Government of Canada is contributing up to $500 million for sport infrastructure, legacy initiatives, a federal cultural strategy, preparation of Canadian teams (athletes, coaches and officials), and essential federal services that support the overall staging, safety and security of the Games.

- **Parliamentarians of all parties** voted unanimously to pass Bill S-211, an Act to establish the first Saturday in June as National Health and Fitness Day across Canada. This initiative provides an opportunity for local municipalities and all citizens to mark the day with local events that celebrate and promote the use of local health, recreational, sports and fitness facilities.

- **The Public Health Agency of Canada** is addressing physical inactivity through partnership agreements with the private sector and non-government organizations (see the Spotlight section for more information).

- **The Public Health Agency of Canada** is leading a collaborative project called Mobilizing Knowledge for Active Transportation. The project reflects the Agency’s commitment to promote healthy living and curb childhood obesity, and supports its recognition that designing communities to support active transportation is key to fostering physical activity and producing a variety of public health benefits.

- **Health Canada is working** with Aboriginal partners to deliver community-based, culturally relevant healthy child development and healthy living programs that address obesity. With investments of $134.8 million in 2014-15, community-based health promotion and disease prevention programs and services promote healthy eating and physical activity, and build community skills to support healthy living.

- **11 of 13 provinces and territories** have maintained or increased their spending on physical activity.

Recommendations

- **Federal government officials** should work with provincial/territorial governments and the physical activity sector in Canada to develop the Pan-Canadian Framework that addresses their goal of advancing approaches and program interventions to increase population-level physical activity through collaborative action and jurisdictional initiatives. The Framework or Strategy should be based on the work of Active Canada 20/20, and align with the Framework for Recreation 2015 and the Canadian Sport Policy 2012.

- **To realize cost savings** as a result of a more physically active population, an increased range of funding and investment is required to support active healthy living, recreation and sport infrastructure, including physical activity promotion and entry-level sport participation. Further, increased investment across the broader sector is required, including multi-year financial commitments providing sustained funding to organizations and programs providing physical activity leadership.

- **Create a mechanism**, that could take the form of an interdepartmental council, a new ministry or a public-private nonprofit body, to integrate sport, physical activity and wellness, to connect efforts across education, transportation, human resources, infrastructure, environment, heritage and tourism, veterans’ affairs, citizenship, the private sector and other non-governmental stakeholders.
Research Gaps

» There is a need for more evaluation of policies that impact physical activity and/or sedentary behaviour. For example, it is important to examine if making the Child Fitness Tax Credit refundable will allow it to be more accessible to low-income families.

» There is a need to establish common tools and measures of physical activity at the national level and at the provincial/territorial level.

Spotlight

Public Health Agency of Canada: Addressing Physical Inactivity through Multi-sectoral Partnerships to Promote Healthy Living and Prevent Chronic Disease

The Public Health Agency of Canada reports that since 2013 they have been working with partners to create the conditions that will help children, youth and their families achieve and maintain healthy weights. The Agency is taking an integrated approach to the promotion of healthy living and chronic disease prevention by focusing on common risk factors, such as physical inactivity, unhealthy eating, and tobacco use, that are most associated with the major chronic diseases, including cancer, diabetes, cardiovascular and chronic respiratory diseases.

This approach includes leveraging federal investments under the Multi-sectoral Partnerships to Promote Healthy Living and Prevent Chronic Disease initiative. These investments and efforts are intended to foster a “whole of society” approach to develop new ideas, initiatives and partnerships that serve to support Canadians in living healthier and more active lives. For more information visit www.phac-aspc.gc.ca/fo-fc/mspphl-pppms-eng.php. Each year, the Agency invests approximately $20 million in funding for multi-sectoral partnership projects in this area. Examples of recently-funded projects include:

» The Play Exchange is a high-profile competition designed to seek out leading edge healthy living ideas from a range of groups including not-for-profit organizations, social enterprises, businesses, schools, students and families. The best innovation, Trottibus Walking School Bus, was selected by Canadians in January 2015 and will receive up to $1 million to scale up their intervention. Working in collaboration with Canadian Tire, LIFT Philanthropy Partners, and with support from the Canadian Broadcasting Corporation, the goal of The Play Exchange is to engage Canadians in an unprecedented national dialogue around preventing chronic diseases and the importance of healthy active lifestyles. Visit www.phac-aspc.gc.ca/media/nr-rp/2014/2014_0222-eng.php.

» Building Our Kids Success (BOKS) program, an initiative of Reebok and the Reebok Foundation, is aimed at getting elementary school kids moving and their brains ready for a day of learning. BOKS, is an evidence-based proven program to improve physical endurance, executive functioning, working memory and other areas that help lay the ground work for successful and healthy children. The partnership between, Reebok Canada, the Reebok Canada Fitness Foundation, the Canadian Football League (CFL), and the Propel Centre for Population Health Impact will help address the obstacles that prevent children from getting enough physical activity so they can lead more active and healthier lifestyles. Visit news.gc.ca/web/article-en.do?nid=887089.

» RBC Learn to Play, a partnership with the Royal Bank of Canada and ParticipACTION, delivers a national program aimed at improving physical literacy among Canada’s children and youth. The Project focuses on teaching kids the basics of being active while also supporting programs that give them the chance to put these skills into practice. This helps children and youth feel confident and knowledgeable enough to participate in sport and to make physical activity a part of their daily lives. The main goal of the RBC Learn to Play Project is to help organizations incorporate “physical literacy” elements into their sport and recreation programs. Visit news.gc.ca/web/article-en.do?nid=908559&_ga=1.147441271.1945364295.1408207158.

To date, over $27 million in private sector capital has been leveraged through partnerships with organizations such as Reebok, the CFL, Air Miles for Social Change, Maple Leaf Sports and Entertainment, Shoppers Drug Mart, Canadian Tire and Sun Life Financial.
The Year of Sport

On October 16, 2014, His Excellency, the Right Honourable David Johnston, Governor General of Canada proclaimed 2015 as the Year of Sport in Canada. The overarching theme is Canada: A Leading Sport Nation. The Year of Sport is a proactive pan-Canadian initiative to celebrate the role that sport plays in our country and encourage Canadians to participate in and seek the benefits of sport. It focuses on making the most of existing sport events and other celebratory activities to highlight the advantages of sport to Canadians.

In 2015, Canada is the host of several high-profile national and international sport events including the 25th edition of the Canada Games, the FIFA Women’s World Cup, and the 2015 Pan American and Parapan American Games. In addition, approximately 60 international single-sport events and 55 national single-sport championships for all age levels are hosted annually by national sport organizations.

There has been an enthusiastic response to the Year of Sport. Initiatives during the first two months of 2015 include the following:

» On January 24, 2015, the Governor General welcomed the public to the Rideau Hall Winter Celebration with activities including skating, dog sledding, and kick sledding excursions.

» In celebration of Black History Month in February 2015, Citizenship and Immigration Canada developed a poster, internet content and social media messages recognizing great Black Canadian Athletes. Black Canadians have a rich history of breaking down barriers through sport.

» The Canadian Science and Technology Museum initiated a 2015 social media campaign highlighting the relationship between science/technology and sport.

» The Agriculture Museum of Canada has begun using the hashtag #YearofSport to highlight connections between the agricultural industry and athletes.

» Library and Archives Canada has begun using the hashtag #YearofSport to share photos and historical information about athletes.

» The Governments of Manitoba and British Columbia declared 2015 as the Year of Sport.

WHO COMMITTEE TO ELIMINATE CHILDHOOD OBESITY

During her opening address at the 67th session of the World Health Assembly, World Health Organization (WHO) Director General Dr. Margaret Chan, voiced concern over the growing problem of childhood obesity. The WHO estimates that 42 million children worldwide are obese, and that this number could rise to 70 million by 2025 if current trends continue. In order to gather the best scientific evidence to combat this issue, the WHO has established a Commission on Ending Childhood Obesity. Ultimately, the Commission will produce a consensus report outlining which specific approaches and interventions aimed at preventing childhood obesity will be most effective in a variety of contexts around the world. They hope to report these recommendations in May 2015 at the 68th annual World Health Assembly. For more information, visit www.who.int/end-childhood-obesity/en/.
Non-Government

This year’s grade remains an A- because available data around leadership and commitment, allocation of funds, and policy work neither signal an upgrade nor downgrade of the indicator.

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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-</td>
<td>B+</td>
<td>A-</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 0-20%</td>
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» 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.
Key Findings

» Active Canada 20/20, a national physical activity strategy and change agenda for Canada, underwent changes this year related to the leadership and coordination of its implementation. Despite losing some momentum, a leadership group is currently being established to oversee its continued advancement. Four Action Groups (Active Transportation, Accessibility and Diversity, Schools and Active Play) remain in place and are at varying stages of progress.

» Stakeholders from physical activity, sport, recreation, education and public health have proposed a common definition for physical literacy, with the intent of providing a frame of reference for future programming and resource development related to physical literacy.

» Through the RBC Learn to Play program, over $1,600,000 in grants was awarded to community-based organizations to help improve and deliver high quality programs across the country. This project is part of the RBC Believe in Kids pledge, a 5-year, $100 million commitment to improve the well-being of one million children and youth in Canada.

» The Institute for Canadian Citizenship released a new report, Playing Together – New Citizens, Sports and Belonging. The findings conclude that sport and physical activity provide important opportunities for new Canadians to build connections, community and a sense of feeling welcome in Canada.

» The Heart and Stroke Foundation and the Canadian Partnership Against Cancer (individually) are working to advance the Active Transportation agenda through policy development and knowledge translation activities.

» Canadian Tire launched ACTIVE AT SCHOOL, a national campaign that aims to inject one hour of daily physical activity in Canada’s schools with support from a group of, today, over 80 influential, credible organizations from across Canada who have expertise in health and wellness, sport and recreation, industry and education. Canadian Tire has secured partnerships with three provinces – Prince Edward Island, New Brunswick and Ontario – to establish these policies in schools throughout these provinces.

Recommendations

» Non-government organizations, the private sector, philanthropic groups and foundations should maintain or increase funding and promoting active living as a way to invest in the health of children and youth, families, the community and country.

» Non-government organizations in physical activity, sport and recreation need to work together to align the actions and priorities outlined in Active Canada 20/20, A Framework for Recreation in Canada 2015 and the Canadian Sport Policy 2012.

» Community organizations from all sectors need to work together to develop policies that identify community assets for physical activities, and maximize the use of those assets through shared use plans and agreements.

» Investigate multisectoral opportunities to collaborate with the insurance industry to reduce real and perceived barriers to physical activity associated with liability issues.

» Organizations need to address the social determinants of health, inclusion and accessibility, culture and gender when developing all programs and policies.

Research Gaps

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

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

» A coordinated research and evaluation strategy is needed to assess the effectiveness of each of the three national physical activity, recreation and sport initiatives (Active Canada 20/20, the Framework for Recreation in Canada 2015 and the Canadian Sport Policy).
Active Canada 20/20

In the absence of a national physical activity strategy for Canada, non-government stakeholders initiated a process in 2010 to develop Active Canada 20/20, a Physical Activity Strategy and Change Agenda for Canada. With input from approximately 1,700 cross-sectoral stakeholders from every province and territory, Active Canada 20/20 provides a number of priority actions that address four key areas of focus (Policy Development, Change and Implementation; Targeted Information and Public Education; High Quality, Accessible Programs and Services; Community Design) and three Foundations (Evidence and Knowledge Exchange; Strategic Investments; and Mobilization). One milestone since its creation was a National Gathering in Fredericton, NB in 2013. Delegates from every province and territory attended as well as representatives from 20 national organizations. The result was a commitment from all provinces and territories to develop a physical activity strategy or align their current efforts with Active Canada 20/20. Further, four Action Groups were established based on the delegates’ priorities for increasing physical activity: Active Transportation, Accessibility and Diversity, Schools, Active Play. One Action Group – the Active Play Action Group – has contributed to the development of a Position Statement on Active Outdoor Play, set for release in June 2015.

RBC Learn to Play

The RBC Learn to Play Project provides grants to local organizations and communities across Canada in support of building the physical literacy of children and youth in Canada. In 2014, RBC, in partnership with ParticipACTION and PHAC, provided over 1,600,000 in grants to organizations across multiple sectors ranging from $1,000 to $25,000. RBC Learn to Play Community Grants ($1,000 to $10,000) were awarded to local organizations that teach new skills or sports to kids, and/or expose them to a multiple sports or multiple skills such as swimming or skating lessons. RBC Learn to Play Leadership Grants ($10,001 to $25,000) were awarded to community groups that are developing or implementing action plans to transform the way sport and physical activities are planned and delivered, such as programs that makes sports available for new immigrant youth.

The Framework for Recreation in Canada 2015

The Framework for Recreation in Canada, which was developed by CPRA and ISRC, presents a renewed definition of recreation and explores the challenges and benefits of recreation today. It provides the rationale for investing in an evolved recreation strategy, and describes the need for collaboration with other initiatives in a variety of sectors. The Framework also provides a new vision, and suggests some common ways of thinking about the renewal of recreation, based on clear goals and underlying values and principles. The Framework describes five goals and priorities for action under each goal: Active Living, Inclusion and Access, Connecting People and Nature, Supportive Environments, and Recreation Capacity. On February 13, 2015, Provincial and Territorial Ministers endorsed and the Government of Canada supported the Framework for Recreation in Canada 2015. The announcement took place at the 2015 Conference of Federal/Provincial/Territorial Ministers responsible for Sport, Physical Activity and Recreation.
Abbreviations

CANPLAY
Canadian Physical Activity Levels Among Youth Survey

CAPL
Canadian Assessment of Physical Literacy

CBC
Canadian Broadcasting Corporation

CFLRI
Canadian Fitness and Lifestyle Research Institute

CHMS
Canadian Health Measures Survey

CPRA
Canadian Parks and Recreation Association

F/P/T
Federal, provincial, territorial

HALO
Healthy Active Living and Obesity Research Group

ISRC
Interprovincial Sport and Recreation Council

LPA
Light-intensity physical activity

MVPA
Moderate- to vigorous-intensity physical activity

OPASS
Opportunities for Physical Activity at School Survey

PAM
Physical Activity Monitor

PE
Physical Education

PHAC
Public Health Agency of Canada

RBC
Royal Bank of Canada

WHO
World Health Organization
## Summary of Indicators

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>#</th>
<th>INDICATOR NAME</th>
<th>BENCHMARK(S)</th>
<th>2015 REPORT CARD GRADES</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&lt;21%</td>
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<td>F</td>
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<tr>
<td></td>
<td>1</td>
<td>Overall Physical Activity</td>
<td>% 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 every day).</td>
<td></td>
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<tr>
<td></td>
<td>2</td>
<td>Organized Sport &amp; Physical Activity Participation</td>
<td>% of children and youth who participate in organized sport and/or physical activity programs.</td>
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<tr>
<td></td>
<td>3</td>
<td>Active Play</td>
<td>% of children and youth who engage in unstructured/unorganized active play for several hours a day.</td>
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<tr>
<td></td>
<td>4</td>
<td>Active Transportation</td>
<td>% of children and youth who report being outdoors for several hours a day.</td>
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<tr>
<td></td>
<td>5</td>
<td>Physical Literacy</td>
<td>% of children and youth who meet the recommended levels of physical competence, knowledge, motivation and daily behaviours needed for a physically active lifestyle.</td>
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<tr>
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<td>6</td>
<td>Sedentary Behaviours</td>
<td>% of children and youth who meet the Canadian Sedentary Behaviour Guidelines (3- to 4-year-olds: less than 1 hour of screen time per day; 5- to 17-year-olds: no more than 2 hours of screen time per day). Note: the Guidelines currently provide a time limit recommendation for screen-related pursuits, but not for non-screen-related pursuits.</td>
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<td>7</td>
<td>Family &amp; Peers</td>
<td>% of parents who facilitate physical activity and sport opportunities for their children (e.g., volunteering, coaching, driving, paying for membership fees and equipment).</td>
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<td>8</td>
<td>School</td>
<td>% 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).</td>
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<td>9</td>
<td>Community &amp; Environment</td>
<td>% of children or parents who perceive their community/municipality is doing a good job at promoting physical activity (e.g., variety, location, cost, quality).</td>
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<td>10</td>
<td>Government</td>
<td>Evidence of leadership and commitment in providing physical activity opportunities for all children and youth.</td>
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<tr>
<td></td>
<td>11</td>
<td>Non-Government</td>
<td>Evidence of leadership and commitment in providing physical activity opportunities for all children and youth.</td>
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Methodology & Data Sources

Unlike other report card publications, which often rely on a single data source, the ParticipACTION Report Card synthesizes data from multiple data sources and the research literature. The development of indicators and the assignment of grades involve an interdisciplinary Report Card Research Committee, including researchers from across Canada. An annual summary of research data and literature is prepared by staff at the Children’s Hospital of Eastern Ontario Research Institute to facilitate the review of the information. Grade assignments are determined based on examination of the current data and literature for each indicator against a benchmark or optimal scenario, assessing the indicator to be poor, adequate, good or excellent:

A - We are succeeding with a large majority of children and youth.
B - We are succeeding with well over half of children and youth.
C - We are succeeding with about half of children and youth.
D - We are succeeding with less than half, but some, children and youth.
F - We are succeeding with very few children and youth.

Key considerations include trends over time and the presence of disparities. Analysis of trends over time and international comparisons are conducted where possible, as this information is not always available for all indicators. National data takes precedence over sub-national and regional data, and objectively measured data takes precedence over subjectively measured data. Disparities are primarily based on disabilities, race/ethnicity, immigration status, geography (provincial/territorial comparisons), socioeconomic status, urban/rural setting, gender and age (e.g., adolescence). When evidence of disparities exists, grades are lowered to reflect that we are not reaching all children and youth who may benefit most from physical activity opportunities.

Some indicators are stand-alone, while others are comprised of several components. During the grade assignment meeting, each component of an indicator is assessed. Over the evolution of the Report Card, there has been an attempt to move toward indicators that are broad enough to contain various components in their assessment so that indicators can become more consistent from year to year.

The following are major data sources used in the 2015 Report Card:

Canadian Health Measures Survey (CHMS; http://www23.statcan.gc.ca/imdb/psSVplTFFunction/getSurveySDDD=5071): 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 environment 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.cfli.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 Intergovernmental Sport and Recreation Council.

Canadian Student Tobacco, Alcohol and Drugs Survey (CSTADS; uwaterloo.ca/canadian-student-tobacco-alcohol-drugs-survey): Formerly known as the Youth Smoking Survey, CSTADS 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 CSTADS 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 CSTADS nationally, and provincial partners implement the CSTADS in each province. The CSTADS 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, 2010-11 and most recently in 2012-13.

Health Behaviour in School-Aged Children Survey (HBSC; www.hbsc.org): Results are based on the Canadian data from the World Health Organization’s 2009-10 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 students reflected 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 5 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 413 of the 436 participating schools); and 3) geographic information systems (GIS) measures of built and social features in the school neighbourhoods.

Opportunities for Physical Activity at School Survey (OPASS; www.cfli.ca): The content of the 2011 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.cfli.ca): The PAM is a 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.
84 Stone et al. The freedom to explore: examining the influence of independent mobility on weekday, weekend and after-school physical activity behaviour in children living in urban and inner-suburban neighbourhoods of varying socioeconomic status. *Int J Behav Nutr Phys Act.* 2014;11.

122 Active Healthy Kids Canada. Don’t let this be the most physical activity our kids get after school. The 2011 Active Healthy Kids Canada Report Card on Physical Activity for Children and Youth. Toronto: Active Healthy Kids Canada, 2011. URL: dvqdasjy7y6.cloudfront.net/reportcard2011/AHKCreportcard20110429final.pdf


135 Solutions Research Group Consultants Inc. Massive competition in pursuit of the $5.7 billion Canadian youth sports market. URL: www.srgnet.com/2014/06/10/massive-competition-in-pursuit-of-the-5-7-billion-canadian-youth-sports-market


