



# The Early Development Instrument Report

2018-2019

Winnipeg RHA
Seven Oaks



#### The EDI Measures:

#### **Physical Health and Well-being**

Children are healthy, independent and rested each day

#### **Social Competence**

Children play and get along with others, share and show self-confidence

#### **Emotional Maturity**

Children are able to concentrate on tasks, help others, show patience and are not often aggressive or angry

#### **Language and Thinking Skills**

Children are interested in reading and writing, can count and recognize numbers and shapes

#### Communication Skills and General Knowledge

Children can tell a story, communicate with adults and other children





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The Offord Centre for Child Studies owns the Early Development Instrument (EDI), licenses its use, and maintains a repository of results to monitor national and international norms.

For more information on the Offord Centre for Child Studies and the EDI, visit:

https://edi.offordcentre.com/

EDI and the Early Years video:

https://edi.offordcentre.com/resources/edi-and-the-early-years-video/

The Science of Early Child Development (SECD), created by Red River College, is a knowledge translation and mobilization initiative designed to make current research accessible to anyone interested in learning more about the impact of early experience on lifelong health and well-being. For more information, visit: https://www.scienceofecd.com/

# A snapshot of children's developmental health at school entry

Research is increasingly discovering that what happens in early childhood plays a big role in lifelong health, well-being, and learning. By the time a child enters kindergarten, more brain connections will have been made than between kindergarten and adulthood. Positive experiences during this time can help the brain develop in healthy ways. Negative experiences are harmful to brain development and can have lasting impacts. As early childhood lays the foundation for the future, it is very important that we do everything we can to support healthy development.

A teacher-completed survey, called the Early Development Instrument (EDI), was developed at the Offord Centre for Child Studies at McMaster University. Its purpose was to measure children's ability to meet age-appropriate developmental expectations at school entry (kindergarten). By using the EDI to collect information on children's needs and strengths (at a group level), we can understand where children need the most help. Research using the EDI has found that children identified as being vulnerable in kindergarten are more likely to demonstrate poor school performance in later years. We cannot assume children with difficulties early on will simply grow out of their problems. There is a real risk their difficulties early on in school will predict difficulties later in life, both in school and beyond.

Thankfully, many common problems faced by children are preventable, or can at least be improved, with the help of early recognition and management. Providing help early on is likely to be more effective and less costly than providing help later in life. That is because the brain is developing rapidly at this early age, which provides a unique opportunity to make the biggest positive impact. By identifying and addressing areas of need during the early years, we can increase the chances of children reaching their greatest potential.

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# What the EDI Measures

The EDI measures children's ability to meet age-appropriate developmental expectations across five domains. The *Vulnerable, At Risk* and *On Track* results focus on the five domains. The five domains are further divided into 16 subdomains. The subdomain results show the percentage of children who have met few or none of the developmental expectations in each of the 16 subdomains, as described in the table below.

5 Domains	16 Sub-Domains	The description of children who have met few or none of the developmental expectations
	Physical readiness for school	These children have at least sometimes experienced being unprepared for the school day (e.g., being dressed inappropriately for the weather; or coming to school late, hungry, and/or tired).
Physical Health and Well-being (13 survey questions)	Physical Independence	These children range from those who have not developed one of the following three skills: independence, handedness and coordination, and/or they suck their thumb, to those who have not developed any of the skills and suck their thumb.
	Gross and fine motor skills	These children have difficulty performing skills requiring gross and fine motor competence, and have poor overall energy levels and physical skills.
	Overall social competence	These children have average to poor overall social skills and low self-confidence, and they are rarely able to play with various children and interact cooperatively.
Social Competence	Responsibility and respect	These children only sometimes or never accept responsibility for actions, show respect for others and for property, demonstrate self-control, and they are rarely able to follow rules and take care of materials.
(26 survey questions)	Approaches to learning	These children only sometimes or never work neatly or independently. In addition, they are rarely able to solve problems or follow class routines, and they do not easily adjust to changes in routines.
	Readiness to explore new things	These children only sometimes or never show curiosity about the world, and are rarely eager to explore new books, toys and games.
	Prosocial and helping behaviour	These children never or almost never show most of the helping behaviours; they do not help someone hurt, sick or upset; and they do not invite bystanders to join in.
Emotional Maturity	Anxious and fearful behaviour	These children often show most of the anxious behaviours; they could be worried, unhappy, nervous, sad or excessively shy, or indecisive; and they can be upset when dropped off at school.
(30 survey questions)	Aggressive behaviour	These children <i>often show</i> most of the aggressive behaviours; they get into physical fights, kick or bite others, take other people's things, are disobedient or have temper tantrums.
	Hyperactive and inattentive behaviour	These children often show most of the hyperactive behaviours; they could be restless, distractible, impulsive; they fidget and have difficulty settling to activities.
	Basic literacy	These children do not have most of the basic literacy skills; they have problems with identifying letters or attaching sounds to them, or rhyming; they may not know writing direction (left to right), and how to write their own name.
Language and Thinking Skills	Interest in literacy or numeracy, and uses memory	These children may not show interest in books and reading, or math and number games, or both; and they may have difficulty remembering things.
(26 survey questions)	Advanced literacy	These children have only up to one of the advanced literacy skills; they cannot read or write simple words or sentences, and they rarely write voluntarily.
	Basic numeracy	These children have marked difficulty with numbers, and cannot count, compare or recognize numbers; they may not be able to name all of the shapes; and they may have difficulty with time concepts.
Communication Skills and General Knowledge (8 survey questions)	Communication skills and general knowledge	These children have difficulty speaking and understanding the language of instruction; participating in imaginative play; communicating their own needs in understandable ways; and have difficulty in answering questions about the world.

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# **Interpreting Results**

The EDI measures children's ability to meet ageappropriate developmental expectations across five domains. The EDI questionnaire is completed by teachers for each one of their kindergarten children. Using the teacher's responses, each child is given a score for each of the five domains. These individual scores are then aggregated so children can be assessed as groups only. These grouped scores are then divided into three different percentile categories\*:

- Vulnerable is the percentage of children who score below the 10<sup>th</sup> percentile of the Canadian baseline sample. Vulnerable represents a group of children who are struggling, including those whose struggles may not be apparent. This group represents children for whom cost effective, universal preventive programs are likely to make a difference.
- At Risk is the percentage of children with scores between the 10<sup>th</sup> and 25<sup>th</sup> percentiles of the Canadian baseline sample. At Risk represents a group of children who are not in the *vulnerable* range at the time of the EDI assessment, but whose scores are still lower than expected for children that age.
- On Track is the percentage of children with scores above the 25<sup>th</sup> percentile of the Canadian baseline sample. On Track represents a group of children whose scores signify that they are meeting age appropriate developmental expectations.

For each of the five domains, the Canadian baseline sample acts like a point on a ruler or benchmark that Manitoba's results are measured against. Results that are similar to the Canadian baseline sample are interpreted as expected news: Vulnerable (10 per cent), At Risk (15 per cent), and On Track (75 per cent). Results that are different from the Canadian baseline sample can reveal domains of strength or need. For example, any domain that has more than 10 per cent of children who are Vulnerable (higher than the

Canadian baseline sample) may be interpreted as a domain of need. Similarly, the higher the percentage of children who are *At Risk*, the more concern. Alternatively, the higher the percentage of children who are *On Track*, the better. Note: Interpretation tips are provided throughout the report.

The five domains are further divided into 16 subdomains, representing more specific skills and behaviours. In contrast to the domain results, the subdomain results are distribution-free (i.e., they are not based on the distribution of scores found in the Canadian baseline sample). Rather, each subdomain has been assigned a cut-off score by the creators of the EDI. This assigned cut-off score is different for each subdomain. Each assigned cut-off score determines the percentage of children who are considered to have met few or none of the developmental expectations in that particular subdomain.

Exploring subdomains is an important step in determining the areas of development that are influencing the vulnerability rates (i.e., the percentage of vulnerable children) in various domains. Subdomains in which a large percentage of children are doing poorly can be used to inform the action needed to address children's weakness.



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<sup>\*</sup>Prior to 2018/19, EDI reports grouped scores into the following percentile categories: 1) "Not Ready": the percentage of children who score in the bottom 10<sup>th</sup> percentile of the Canadian baseline sample; 2) "Mid-range": the percentage of children with scores in the 11<sup>th</sup>-69<sup>th</sup> percentile; and; 3) "Very Ready": the percentage of children with scores in the top 30<sup>th</sup> percentile.

# **Questionnaire Information**

This table shows the number of questionnaires completed, the number of invalid questionnaires, the number of students with special needs, and the number of questionnaires that are used in the analyses throughout the rest of this report.

Questionnaire information Count / (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Completed Questionnaires	689	783	846	813	865	14,297
Invalid Questionnaires*	39	37	54	31	16	567
	(6%)	(5%)	(6%)	(4%)	(2%)	(4%)
Students with Special Needs**	27	28	29	28	41	709
	(4%)	(4%)	(3%)	(3%)	(5%)	(5%)
Questionnaires Used in the	626	720	765	754	808	13,047
Analyses***	(91%)	(92%)	(90%)	(93%)	(93%)	(91%)

<sup>\*</sup>Invalid Questionnaires: Questionnaires with missing data in key categories. This includes children who have been in school less than one month, missing special needs and incomplete questionnaires.

### **Student Information**

This table provides student information on the EDI collection. It is based on the number of *questionnaires used in the analyses*.

Student information Count / (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Students who are female	315	354	373	374	394	6,450
	(50%)	(49%)	(49%)	(50%)	(49%)	(49%)
Students who are male	311	366	392	380	414	6,596
	(50%)	(51%)	(51%)	(50%)	(51%)	(51%)
Average age of students	5.7	5.7	5.7	5.7	5.7	5.7
	years	years	years	years	years	years
Students with EAL* (English as an additional language)	108	136	138	133	129	1,800
	(17%)	(19%)	(18%)	(18%)	(16%)	(14%)
Students with FAL** (French as an additional language)	1	1	1	3	2	250
	(50%)	(50%)	(50%)	(100%)	(50%)	(46%)
Students who are New Canadians (immigrated within the last two years)	58	77	88	72	92	730
	(9%)	(11%)	(12%)	(10%)	(11%)	(6%)
Students who are identified as Indigenous (by their teacher)	60	69	104	92	129	2,446
	(10%)	(10%)	(14%)	(12%)	(16%)	(19%)
Students (without special needs) in the assessment process***	62	75	79	88	71	1,512
	(10%)	(10%)	(10%)	(12%)	(9%)	(12%)

<sup>\*(</sup>EAL): English as an additional language is applicable only to children in English or Immersion schools.

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<sup>\*\*</sup>Students with Special Needs: The EDI is designed to measure the developmental trajectories of typically developing children in the early years. For comparability reasons, children with special needs are excluded from analysis.

<sup>\*\*\*</sup>Questionnaires used in the analyses: This count omits Invalid Questionnaires and Students with Special Needs.

<sup>\*\*(</sup>FAL) French as an additional language is applicable only to children in French schools.

<sup>\*\*\*</sup>Students in the assessment process include: 1) students currently receiving assessment; 2) students needing further assessment; 3) students on the waiting list to receive assessment

Vulnerable	At Risk
0-10 <sup>th</sup> percentile	10 <sup>th</sup> -25 <sup>th</sup> percentile

On Track 25<sup>th</sup>-100<sup>th</sup> percentile

# 5 Domain Results - Vulnerable

#### **Vulnerable By Domain:**

This table shows the percentage of children *Vulnerable* in each domain. *Vulnerable* is the percentage of children who score below the 10<sup>th</sup> percentile of the Canadian baseline sample.

Interpretation Tips: Low percentages are preferable. The higher the percentage of children who are *Vulnerable*, the more concern. Any domain that has more than 10 percent of children (higher than the Canadian baseline sample) may be interpreted as a domain of need. If you identify a domain of need, then look more closely at the associated subdomain results on page 11 to help provide more detail. You can also compare your results to Manitoba. Ideally, you would like to see your percentages similar to the rest of Manitoba, or lower.

Vulnerable by Domain (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Physical Health and Well-being	10%	9%	9%	11%	10%	13%
Social Competence	10%	8%	9%	14%	10%	9%
Emotional Maturity	12%	9%	11%	14%	10%	12%
Language and Thinking Skills	12%	10%	13%	13%	12%	12%
Communication Skills and General Knowledge	14%	16%	17%	14%	13%	14%

Low percentages are preferable. The higher the percentage of children who are *Vulnerable*, the more concern.

Any domain above 10% may be interpreted as a domain of need.

# **Vulnerable across Multiple Domains**

This table shows the percentage of children *Vulnerable* on at least one and at least two domains. These results are used as a measure of overall vulnerability.

Interpretation Tips: Low percentages are preferable: The higher the percentage of children who are *Vulnerable*, the more concern. The 10 per cent marker is no longer applicable, because we are looking at more than one domain at a time. You can also compare your results to Manitoba. Ideally, you would like to see your percentages similar to the rest of Manitoba, or lower.

Vulnerable across Multiple Domains (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Vulnerable on at least ONE domain	30%	29%	33%	34%	29%	30%
Vulnerable on at least TWO domains	15%	13%	15%	18%	14%	16%

Low percentages are preferable. The 10% marker is no longer applicable.

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# **5 Domain Results - Vulnerable**

#### **Vulnerable Group Comparisons\*:**

The tables below show the vulnerability rates for 1) Female and Male, 2) Children who are Older and Younger than the mean age, and 3) Children who are Indigenous and Non-Indigenous (as identified by their teacher).

Interpretation Tips: Low percentages are preferable. When interpreting group comparisons, it is important to take the sample size (count) of each group into consideration. In smaller communities, large differences in vulnerability rates between groups may only represent a few children.

Although understanding overall vulnerability is important, it does not tell the whole story.
Comparing children based on certain demographics, such as sex, age, and language status, is an effective way of understanding how contextual factors may be influencing EDI vulnerability rates.

When comparing children based on certain demographics, it is important to remember that the development of children is influenced by many factors. These factors include the ongoing impact of historical experiences and exposure to toxic stressors such as poverty, unemployment, inadequate housing and family/ community violence.

Vulnerable Group Comparison	Your Site	2018/19	Manitoba 2018/19		
Sex (%)	Female	Male	Female	Male	
Physical Health and Well-being	6%	14%	9%	16%	
Social Competence	8%	13%	6%	13%	
<b>Emotional Maturity</b>	6%	14%	7%	17%	
Language and Thinking Skills	9%	14%	10%	15%	
Communication Skills and General Knowledge	10%	15%	11%	18%	
Count	394	414	6,450	6,596	

Vulnerable Group Comparison	Your Site	2018/19	Manitoba 2018/19		
Age (%)	Older	Younger	Older	Younger	
Physical Health and Well-being	8%	12%	11%	15%	
Social Competence	6%	14%	8%	11%	
<b>Emotional Maturity</b>	8%	13%	10%	14%	
Language and Thinking Skills	7%	17%	9%	16%	
Communication Skills and General Knowledge	9%	16%	12%	17%	
Count	400	407	6,478	6,566	

Mala analyla Casana Casana airana	Your Site	2018/19	Manitoba 2018/19		
Vulnerable Group Comparison Indigenous Status (%)	Indigenous	Non- Indigenous	Indigenous	Non- Indigenous	
Physical Health and Well-being	19%	8%	27%	9%	
Social Competence	20%	8%	19%	7%	
<b>Emotional Maturity</b>	16%	9%	21%	10%	
Language and Thinking Skills	32%	8%	28%	8%	
Communication Skills and General Knowledge	22%	11%	25%	12%	
Count	129	675	2,446	10,246	

<sup>\*</sup>Prior to 2018/19, EDI reports used average scores to show group comparison results, rather than vulnerability rates.

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# **5 Domain Results - Vulnerable**

#### **Vulnerable Group Comparisons\*:**

The tables below show the vulnerability rates for 1) Children with and without EAL Status, 2) Children with and without FAL Status, and 3) Children who are new and not new Canadians (immigrated to Canada within the last two years).

Interpretation Tips: Low percentages are preferable. When interpreting group comparisons, it is important to take the sample size (count) of each group into consideration. In smaller communities, large differences in vulnerability rates between groups may only represent a few children.

EAL: English as an Additional Language. A child for whom English is not their first language and who needs additional instruction in English. EAL is applicable only to children in English or Immersion schools.

FAL: French as an Additional Language. A child for whom French is not their first language and who needs additional instruction in French.
FAL is applicable only to children in Francophone schools.

Some of the group comparisons may be labeled as Not Applicable (N/A) or are missing from the analyses because the groups were too small (under seven students) to retain confidentiality.

Vulnerable Group Comparison	Your Site	2018/19	Manitoba 2018/19		
EAL Language Status (%)	EAL	Not EAL	EAL	Not EAL	
Physical Health and Well-being	11%	10%	12%	13%	
Social Competence	12%	10%	14%	9%	
<b>Emotional Maturity</b>	5%	11%	14%	12%	
Language and Thinking Skills	14%	11%	17%	12%	
Communication Skills and General Knowledge	30%	10%	35%	11%	
Count	129	675	1,800	10,708	

Vulnerable Group Comparison	Your Site	2018/19	Manitoba 2018/19		
FAL Language Status (%)	FAL	Not FAL	FAL	Not FAL	
Physical Health and Well-being	N/A	N/A	9%	4%	
Social Competence	N/A	N/A	7%	2%	
<b>Emotional Maturity</b>	N/A	N/A	10%	4%	
Language and Thinking Skills	N/A	N/A	8%	3%	
Communication Skills and General Knowledge	N/A	N/A	20%	6%	
Count	N/A	N/A	250	289	

Valarankla Carana Carana siran	Your Site	2018/19	Manitoba 2018/19		
Vulnerable Group Comparison New Canadian Status (%)	New Canadian	Not New Canadian	New Canadian	Not New Canadian	
Physical Health and Well-being	3%	11%	11%	13%	
Social Competence	9%	11%	13%	9%	
<b>Emotional Maturity</b>	7%	11%	13%	12%	
Language and Thinking Skills	11%	12%	17%	12%	
Communication Skills and General Knowledge	20%	12%	35%	13%	
Count	92	710	730	12,112	

<sup>\*</sup>Prior to 2018/19, EDI reports used average scores to show group comparison results, rather than vulnerability rates.

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# 5 Domain Results - At Risk

#### At Risk by Domain:

This table shows the percentage of children *At Risk* in each domain. *At Risk* is the percentage of children with scores between the 10<sup>th</sup> and 25<sup>th</sup> percentiles of the Canadian baseline sample.

Interpretation Tips: Low percentages are preferable. The higher the percentage of children who are *At Risk*, the more concern. You can also compare your results to Manitoba. Ideally, you would like to see your percentages similar to the rest of Manitoba, or lower.

At Risk by Domain (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Physical Health and Well-being	12%	9%	9%	10%	8%	10%
Social Competence	14%	15%	14%	17%	14%	14%
Emotional Maturity	12%	12%	13%	15%	13%	15%
Language and Thinking Skills	19%	18%	20%	22%	18%	15%
Communication Skills and General Knowledge	12%	14%	12%	20%	14%	17%

Low percentages are preferable. The higher the percentage of children who are At Risk, the more concern.



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Vulnerable	At Risk	On Track	
0-10 <sup>th</sup> percentile	10 <sup>th</sup> -25 <sup>th</sup> percentile	25 <sup>th</sup> -100 <sup>th</sup> percentile	
			_

# **5 Domain Results - On Track**

# On Track by Domain:

This table shows the percentage of children *On Track* in each domain. *On Track* is the percentage of children with scores above the 25<sup>th</sup> percentile of the Canadian baseline sample.

Interpretation Tips: High percentages are preferable. The higher the percentage of children who are *On Track*, the better. You can also compare your site to Manitoba. Ideally, you would like to see your percentages similar to the rest of Manitoba, or higher.

On Track by Domain (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Physical Health and Well-being	78%	82%	82%	79%	82%	77%
Social Competence	76%	77%	76%	69%	76%	76%
Emotional Maturity	75%	79%	77%	71%	77%	73%
Language and Thinking Skills	69%	72%	67%	65%	70%	73%
Communication Skills and General Knowledge	74%	70%	71%	66%	73%	69%

High percentages are preferable. The higher the percentage of children who are *On Track*, the better.



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# 16 Subdomain Results

The EDI measures children's ability to meet age-appropriate developmental expectations across five domains, which are further divided into 16 subdomains. Subdomain results identify the percentage of children who have met few or none of these developmental expectations.

Interpretation Tips: Low percentages are preferable. The higher the percentage of children who have met few or none of the developmental expectations, the more concern. The 10 per cent marker used in the *Vulnerable* results is *not* applicable here. In contrast to the domain results, which are based on the distribution of scores found in the Canadian baseline sample, the subdomain results are distribution-free. Please refer to the subdomain descriptions on page 3.

Subdomain F	Results (%)	2010/11	2012/13	2014/15	2016/17	2018/19	Manitoba 2018/19
Physical Health and Well-being	Physical readiness for school	2%	3%	2%	3%	2%	5%
	Physical independence	10%	8%	9%	9%	10%	12%
	Gross and fine motor skills	24%	21%	22%	25%	20%	27%
	Overall social competence	10%	11%	11%	11%	9%	10%
Social	Responsibility and respect	5%	5%	7%	5%	5%	5%
Competence	Approaches to learning	8%	7%	7%	9%	9%	9%
	Readiness to explore new things	4%	3%	4%	2%	2%	2%
	Prosocial and helping behaviour	37%	35%	30%	32%	28%	36%
Emotional Maturity	Anxious and fearful behaviour	2%	2%	3%	2%	4%	3%
Macurey	Aggressive behaviour	8%	7%	8%	11%	8%	7%
	Hyperactive and inattentive behaviour	9%	8%	10%	14%	11%	13%
	Basic literacy	14%	13%	18%	18%	20%	16%
Language and Thinking Skills	Interest in literacy or numeracy, and uses memory	16%	14%	13%	11%	9%	13%
	Advanced literacy	25%	25%	31%	36%	23%	22%
	Basic numeracy	18%	15%	17%	17%	18%	19%
Communication Skills and General Knowledge	Communication skills and general knowledge	26%	30%	29%	34%	27%	31%
Low percentages are preferable. The higher the percentage of children who have met few or none of the developmental expectations, the more concern.							
Multiple Challenge Index (MCI) The percentage of children who have met few or none of the developmental expectations on nine or more subdomains.  4% 5% 5% 5% 5%					5%		

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Healthy Child Manitoba Office produces four different levels of Early Development Instrument reports: school, school division, community and provincial. These reports (with the exception of school-level reports, which are the discretion of each school division to share), as well as other information on the EDI, are available on the Healthy Child Manitoba website:

www.manitoba.ca/healthychild/edi/index.html

We wish to extend our greatest appreciation to all of our partners for their hard work and commitment to the Early Development Instrument (EDI). In addition, our gratitude to the community-level EDI coordinators and their support staff for everything they do to make the instrument a successful and useful tool throughout Manitoba's local communities. Lastly, we extend a very special thanks to all of the incredible teachers who have committed their time and energy to filling out EDI questionnaires over the years. Without you, none of this would have been possible.