

SCHOOL READINESS TO LEARN COHORT RESULTS

Based on the Early Development Instrument Data Collection for Francophone Senior Kindergarten Students in Sites across Canada Spring 2003

This report is composed of **Senior Kindergarten (SK)-Level Cohort Results** for Francophone students in the 2002-2003 school year.

JK-level students are those who enter school the year in which they turn 4 years of age, and **SK-level** students are those who enter school the year in which they turn 5 years of age, according to individual school board specifications. There were no **JK-level** students in the Francophone group.

Results for SK-level student populations are presented for a **Full** and **Selected** cohort.

The **Full** cohort consists of all children for whom the EDI was completed in the early spring of 2003.

The **Selected** cohort is a subset of the **Full Cohort** restricted, among the SK-level students, to children aged 4.7 to 6.7 years with no special needs and no missing data.

Up to 25% of missing questions were allowed per EDI scale; up to one missing scale was allowed per EDI questionnaire. The questionnaires with **more missing data** than specified above were discarded from the analysis.

The two parts of this report are further subdivided into three sets of tables: **Frequencies, Means & Domain Percentiles**, and **Group Comparisons**.

The first set of tables, **Frequencies** (pages 2-6 for the SK cohort) reports on the frequencies of the demographic and community variables as reported on pages 1 and 8 of the EDI, including age, gender, type of class, etc.

The **Frequencies** are reported for both types of cohorts: **Full** and **Selected**.

The second set of tables, **Means & Domain Percentiles** (and page 7 for the SK cohort), are reported for the **Selected** cohorts only.

The third set of tables, **Group Comparisons** (and pages 8-11 for the SK cohort), includes means and statistical comparisons between groups as identified by the demographic and community variables.

The **Group Comparisons** are performed with the **Selected** cohorts only.

Please keep in mind the following: (1) while the comparisons are controlled for the effects of age and gender, no other variables are controlled for, and (2) these are statistical comparisons for the whole of the selected cohorts, and may not reflect differences occurring within individual sites. Therefore, any interpretation of these comparisons has to be executed with **extreme caution**.

Every caution was used to ensure that data in this report are accurate. For comments or questions please contact: Dr. Magdalena Janus, (905) 521-2100 ext. 74377, edisrl@mcmaster.ca

SENIOR KINDERGARTEN-LEVEL COHORT RESULTS**FREQUENCIES*****Participants in the EDI implementation***

<i>Province</i>	<i>FULL SK COHORT N</i>	<i>SELECTED SK COHORT N</i>
Manitoba	353	331
Ontario	52	46
Saskatchewan	71	63
New Brunswick	250	213
Quebec	1497	1342
PEI	48	48
Total SK population	2271	2043

Descriptive characteristics of the population

	FULL SK COHORT N= 2271		SELECTED SK COHORT N=2043	
	Number	%	Number	%
Gender				
Girl	1147	50.5	1048	51.3
Boy	1124	49.5	995	48.7
Missing	0	0.0	0	0.0
English/French as a Second Language (E/FSL)				
E/FSL	665	29.3	588	28.8
Neither E/FSL	1583	69.7	1446	70.8
Missing	23	1.0	9	0.4
Type of class				
SK	2204	97.0	1985	97.2
JK/SK	1	0.0	1	0.0
SK/1	47	2.1	45	2.2
Missing	19	0.8	12	0.6
First language				
English	225	9.9	206	10.1
French	1278	56.3	1158	56.7
Other Only	357	15.7	332	16.3
English & French	135	5.9	118	5.8
English & Other	26	1.1	23	1.1
French & Other	166	7.3	144	7.0
Two Other	12	0.5	9	0.4
Missing	72	3.2	53	2.6
Other Immersion				
Other Immersion	85	3.7	70	3.4
Regular Class	2095	92.3	1967	96.3
Missing	91	4.0	6	0.3
Special Needs (SN)				
SN	87	3.8	0	0.0
Not SN	2065	90.9	0	0.0
Missing	119	5.2	0	0.0

Aboriginal				
Aboriginal	28	1.2	25	1.2
Not Aboriginal	2147	94.5	2009	98.3
Missing	96	4.2	9	0.4

Age composition

For the table below the age (at the time of testing) was divided into 3-month intervals. The age categories are expressed as year-months of age: for example, 5-11 means age 5 years and 11 months. Months were rounded down for ages less than 15 days, and up for more than 15 days. That means that children aged less than 6 years 1.5 months belong to the 5-11 to 6-1 category, and children aged from 5 years 1.5 months to 5 years 4.5 months belong to the 5-2 to 5-4 category.

<i>Age Category</i>	<i>FULL SK COHORT N= 2271</i>		<i>SELECTED SK COHORT N=2043</i>	
	<i>Number</i>	<i>%</i>	<i>Number</i>	<i>%</i>
4-11 to 5-1	12	0.5	11	0.5
5-2 to 5-4	153	6.7	136	6.7
5-5 to 5-7	482	21.2	434	21.2
5-8 to 5-10	609	26.8	556	27.2
5-11 to 6-1	561	24.7	517	25.3
6-2 to 6-4	357	15.7	319	15.6
6-5 to 6-7	77	3.4	67	3.3
6-8 to 6-10	3	0.1	1	0.0
6-11 and up	10	0.4	0	0.0
Missing	7	0.3	2	0.1

Frequencies of answers to questions in Section D and E

	FULL SK COHORT N= 2271		SELECTED SK COHORT N=2043	
	Number	%	Number	%
D10: Teacher feels that child needs further assessment				
Yes	274	12.1	199	9.7
No	1864	82.1	1760	86.1
Missing	133	5.9	84	4.1
E1: Child attended an early intervention program				
Yes	154	6.8	120	5.9
No	1585	69.8	1454	71.2
Missing	532	23.4	469	23.0
E3: Child attended any other language or religion classes				
Yes	85	3.7	76	3.7
No	1297	57.1	1173	57.4
Missing	889	39.1	794	38.9
E4: Child attended an organized part-time pre-school/nursery school				
Yes	226	10.0	212	10.4
No	1142	50.3	1047	51.2
Missing	903	39.8	784	38.4
E5: Child attended Junior Kindergarten				
Yes	973	42.8	890	43.6
No	779	34.3	701	34.3
Missing	519	22.9	452	22.1

Frequencies of answers to questions in Section E2

	FULL SK COHORT N= 2271		SELECTED SK COHORT N=2043	
	Number	%	Number	%
E2: Child attended a non-parental care arrangement				
Yes	898	39.5	818	40.0
No	593	26.1	530	25.9
Missing	780	34.8	695	34.0
E2a: Centre-based, licensed, non-profit arrangement				
Yes	305	13.4	288	14.1
E2b: Centre-based, licensed, for profit arrangement				
Yes	305	13.4	257	12.6
E2c: Other home-based, licensed arrangement				
Yes	59	2.6	58	2.8
E2d: Other home-based, unlicensed, non-relative arrangement				
Yes	96	4.2	91	4.5
E2e: Other home-based, unlicensed, relative arrangement				
Yes	79	3.5	71	3.5
E2f: Child's home, non-relative arrangement				
Yes	57	2.5	51	2.5
E2g: Child's home, relative arrangement				
Yes	152	6.7	133	6.5
E2i: Type of arrangement				
Full-time	624	27.5	565	27.7
Part-time	187	8.2	170	8.3
Missing	1460	64.3	1308	64.0

MEANS & DOMAIN PERCENTILES**Means, standard deviations, & domain percentiles for selected SK-level Francophone cohort: N=2043**

The table below includes the means, standard deviations, and percentile boundaries for the selected SK-level cohort of Francophone children. This includes all students for whom we collected data in the 2002/03 school year, except for those outside of the set age range, those with special needs, and those with missing data (as explained on page 1).

* Standard Deviation (\pm SD) indicates the range in which approximately two thirds of the scores fall. For example, two-thirds of the scores on "physical health and well-being" fall between 8.80 - 1.02 (7.78) and 8.80 + 1.02 (9.82).

<i>EDI Domains</i>	<i>Mean</i>	<i>* ± SD</i>	<i>SK PERCENTILES</i>			
			<i>75%</i>	<i>50%</i>	<i>25%</i>	<i>10%</i>
Physical health and well-being	8.98	1.03	9.81	9.23	8.46	7.69
Social competence	8.11	1.78	9.62	8.65	7.04	5.38
Emotional maturity	7.78	1.57	9.00	8.00	6.83	5.50
Language and cognitive development	7.96	1.80	9.23	8.46	7.31	5.39
Communication skills and general knowledge	7.92	2.07	9.72	8.33	6.67	5.00

GROUP COMPARISONS

**For all tables below, higher scores indicate better levels of readiness-to-learn at school
P-values <0.050 are statistically significant**

1. Girls versus boys

EDI Domains	SK MEANS		P
	Girls N=1042	Boys N=989	
Physical health and well-being	9.08	8.89	<0.001
Social competence	8.45	7.76	<0.001
Emotional maturity	8.16	7.38	<0.001
Language and Cognitive development	8.18	7.73	<0.001
Communication skills and general knowledge	8.15	7.69	<0.001

2. Age of child (mean age is 5.83 years)

EDI Domains	SK MEANS		P
	Above the mean age N=1005	Below the mean age N=1026	
Physical health and well-being	9.06	8.92	0.001
Social competence	8.26	7.98	<0.001
Emotional maturity	7.85	7.70	0.014
Language and Cognitive development	8.25	7.68	<0.001
Communication skills and general knowledge	8.14	7.73	<0.001

3. Early Intervention versus No Early Intervention

EDI Domains	SK MEANS		P
	Early Intervention N=120	No Early Intervention N=1449	
Physical health and well-being	8.78	9.04	0.010
Social competence	7.67	8.20	0.003
Emotional maturity	7.20	7.86	<0.001
Language and Cognitive development	7.77	8.01	0.116
Communication skills and general knowledge	7.24	7.96	<0.001

4. Children who attended any other Language or Religion Class

<i>EDI Domains</i>	SK MEANS		<i>P</i>
	<i>Lang/Rel Class N=76</i>	<i>No Lang/Rel Class N=1167</i>	
Physical health and well-being	8.95	9.00	0.773
Social competence	8.14	8.10	0.683
Emotional maturity	7.64	7.78	0.630
Language and Cognitive development	8.14	7.96	0.360
Communication skills and general knowledge	7.82	8.01	0.489

5. Children who attended an Organized Part-time Preschool

<i>EDI Domains</i>	SK MEANS		<i>P</i>
	<i>Preschool N=211</i>	<i>No Preschool N=1045</i>	
Physical health and well-being	9.15	8.91	0.003
Social competence	8.38	7.99	0.004
Emotional maturity	7.95	7.66	0.017
Language and Cognitive development	8.00	7.92	0.474
Communication skills and general knowledge	7.94	7.88	0.664

6. Children who attended JK

<i>EDI Domains</i>	SK MEANS		<i>P</i>
	<i>JK N=889</i>	<i>No JK N=698</i>	
Physical health And well-being	8.96	8.93	0.738
Social competence	8.15	7.97	0.109
Emotional maturity	7.77	7.67	0.451
Language and cognitive development	8.01	7.85	0.218
Communication skills and general knowledge	7.94	7.87	0.783

7. Type of Care

<i>EDI Domains</i>	SK MEANS		<i>P</i>
	<i>Full-time N=563</i>	<i>Part-time N=170</i>	
Physical health And well-being	9.05	8.96	0.436
Social competence	8.12	8.25	0.237
Emotional maturity	7.70	7.77	0.322
Language and Cognitive development	8.17	8.08	0.770
Communication skills and general knowledge	8.28	8.03	0.190

8. Children with FSL status

<i>EDI Domains</i>	SK MEANS		<i>P</i>
	<i>FSL N=585</i>	<i>Non-FSL N=1437</i>	
Physical health and well-being	8.94	9.01	0.277
Social competence	8.07	8.13	0.829
Emotional maturity	7.79	7.77	0.500
Language and cognitive development	7.67	8.08	<0.001
Communication skills and general knowledge	7.93	8.41	<0.001

9. Children with French as a first language

<i>EDI Domains</i>	SK MEANS		<i>P</i>
	<i>French N=1413</i>	<i>Other N=565</i>	
Physical health and well-being	9.03	8.91	0.039
Social competence	8.15	8.06	0.594
Emotional maturity	7.79	7.75	0.920
Language and cognitive development	8.05	7.75	0.008
Communication skills and general knowledge	8.41	6.81	<0.001