THE LONG TERM EFFECTS OF NON-PARENTAL CARE ON CHILDREN

April 2010
This report was prepared by Healthy Child Manitoba, South Eastman Health and Division scolaire franco-manitobaine (DSFM). It is an abridged version of the technical report: A Look at the Long Term Effect of Non-parental Care on Developmental Outcomes of Children: Results from the 1997 Manitoba Birth Cohort Study. A copy of the technical report can be requested by email: healthychild@gov.mb.ca or by calling (204) 945-2266.

The Manitoba Birth Cohort Study was funded and authored by Human Resources and Skills Development Canada and Healthy Child Manitoba.
**Executive Summary**

**Introduction:**
Understanding the influences of non-parental care on early childhood development is an important public policy concern across the country. It is especially important because of Canada’s growing population of children who spend significant amounts of time in non-parental care. Shonkoff & Philips (2000) suggests a growing acceptance of non-parental care as supplementing parental care rather than competing with it. However, concerns about the effects of non-parental care on child development still exist.

Depending on the duration and quality, non-parental care can improve cognitive outcomes, protect children from disadvantaged homes or pose risks to children (McCartney, 2004)*. The 1997 Manitoba Birth Cohort Study was done by South Eastman Regional Health Authority, the Division scolaire franco-manitobaine (DSFM), the Fédération provinciale des comités de parents (FPCP), Healthy Child Manitoba (HCM) and Human Resources and Skills Development Canada (HRSDC) to gain a greater understanding of non-parental care in Manitoba. The study focused specifically on non-parental care arrangements change over time and the relationship between non-parental care, child and family factors and children’s development.

**Method:** Non-parental care in this study is defined as “care of a child by an adult other than a parent for half a day or more per week on a regular basis.” It included centre-based child care, nursery schools, licensed and unlicensed family based child care and care provided in the child’s home. Data was collected on 478 children and their parents from the South Eastman Health region and the francophone community when the children were in preschool, Kindergarten and Grade Three. The study included two samples collected by distinct groups for whom the study was given two different names:

- The Tots Study was headed by South Eastman Health/Santé Sud-Est
- L’Étude Parlons Petite Enfance was headed by FPCP and DSFM and represented Manitoba’s francophone community.

(*See reference section for details on all sources used in this report.)

The results found in this study are descriptive and analytical. An important feature of our analytical method is that in examining the association between non-parental care and child development, we took into account other child and family factors that may also influence child development.

**Results:**
- Approximately half the children (48.3 %) in the study were in non-parental care during their preschool years with this percentage decreasing over time. By Grade 3, 30 % of children were in non-parental care.
- Patterns of non-parental care differed between South Eastman families (36 %) and francophone families (71%) living in South Eastman and elsewhere in Manitoba.
- Almost 65 % of the children had non-parental care in at least one phase of the study (between ages three and eight). There were 13.7 % in non-parental care in all three phases.
- The most important indication of whether a family used non-parental care was if mothers were employed. Other indicators were single parents, families with preschool children (rather than school-age), higher maternal education, higher household income, speaking English or French (rather than another language) and being in the francophone sample.
- In preschool, family based child care was the most common type of care used by families (23.5 %), followed by centre based care (17.0%) and care in the child’s home (4.4%). In Grade 3, the most common type was care in the child’s home, followed by family based child care and then centre based.
- In preschool, 21% of children spent 30 hours or more per week in non-parental care.
- Factors associated with more hours in non-parental care include: being in preschool (compared to Kindergarten or Grade 3), mothers being employed, being a single parent, and living in South Eastman (compared to francophone families outside South Eastman ).
- Differences in literacy skills of children were found between the different types of non-parental care arrangements.
  - higher for family based child care than parental care (for middle and high income families only)
higher for centre based child care than parental care (for Grade 3 only)
higher for parental care than care by others in the child’s home

- Other factors associated with higher literacy skills in children were higher maternal education, being a girl and living in an urban area (Winnipeg or Steinbach).

- Academic skills were higher for children, living in urban areas, in centre based care (compared to parental care), whose parents engaged them in activities, from families with an annual income higher than $30,000 and who spend fewer hours per week in non-parental care.

- More health challenges in children were found among boys, two-parent families, centre based child care (compared to parental care)¹ and families where mothers had lower education (less than Grade 12).

- Lower aggressive behaviour scores were found among girls, Grade 3 (compared to preschool or Kindergarten), among children who were never in non-parental care and among families where mothers had more education (Grade 12 or more).

- Higher prosocial behaviour scores were found among girls, Grade 3 (compared to preschool or Kindergarten) and in families where parents do activities with their children.

Conclusions

The number of working mothers is rising in Canada and families are requiring non-parental care for their children. This study essentially found that centre based and family based child care are associated with better literacy and academic skills. It also showed that children who were in non-parental care at any point had higher scores of aggressive behaviour than those in parental care. It is widely recognized that child care quality plays an important role in determining whether non-parental care is associated with positive or negative child outcomes. Parents, caregivers and all levels of government should support the highest quality child care to ensure the best possible outcomes for children.

Parents must pay attention to how their children are adjusting to non-parental care and understand that their sensitive parenting and supportive family environment have a strong, positive influence on the development of their children, beyond the influence of the non-parental care they may be choosing. Involvement in this study stimulated interest and discussion among the partners and their respective communities about early child development (ECD). The provincial government has recently launched its five year plan to increase child care spaces and to devote more resources to ensuring high quality child care. The research has increased public awareness about the importance of ECD, early childhood education and care (ECEC) and the needs of families in the community.

¹ Centre-based care in Manitoba has staff and equipment to care for children with special needs.
Introduction:

Child care can be defined as a program to encourage healthy child development and to support families. The best child care combines care, nurturance and early education (Shonkoff & Philips, 2000). Understanding the influences of non-parental care on early childhood development is an important public policy concern across the country. It is especially important because of Canada’s growing population of children who spend significant amounts of time in non-parental care.

Canadian research indicates that the number of working women has increased dramatically over time (Roy, 2006) as have the number of single parent families (Bushnik, 2006). A growing public acceptance of non-parental care as supplementing rather than competing with parental care is observed (Shonkoff & Phillips, 2000). However, concerns about the effects of non-parental care on child development continue. Studies done in the United States have shown mixed effects of non-parental care on child development. Weaknesses in available child care research limit the definitive conclusions that can be made about the effects of child care on developing children (Belsky, 2003). Few child care studies have simultaneously taken into account the many factors that influence child development. Depending on the quality of care and its duration, non-parental care may improve cognitive outcomes, protect children from disadvantaged homes or may pose a risk to children (McCartney, 2004).

In November 2000, Human Resources and Development Canada (HRDC) and Healthy Child Manitoba (HCM) wanted to learn more about the impact of non-parental care on children’s readiness to learn at school entry. This can be measured only through a longitudinal research initiative. This specialized research was to build on HRDC’s national Understanding the Early Years (UEY) initiative. UEY focused on the readiness to learn of young children in specific communities across Canada. Manitoba was chosen for this research because of its knowledge infrastructure and the expertise and involvement of HCM. Other strengths were the willingness, interest and capacity of the South Eastman Regional Health Authority and the francophone community across Manitoba. It was believed that this research would inform policy decision on the best combination of family, child care and community factors to support healthy early childhood developments.

FIGURE 1 – TIMELINE OF STUDY

<table>
<thead>
<tr>
<th>Year</th>
<th>Phase I</th>
<th>Phase II</th>
<th>Phase III</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997</td>
<td>Preschool 3-4 years old</td>
<td>Kindergarten 5-6 years old</td>
<td>Grade 3 7-8 years old</td>
</tr>
</tbody>
</table>

The 1997 Manitoba Birth Cohort Study was carried out by South Eastman Health/Santé Sud-Est, the Division scolaire franco-manitobaine (DSFM), the Fédération provinciale des comités de parents (FPCP), Healthy Child Manitoba (HCM) and Human Resources and Skills Development Canada (HRSDC) to gain a greater understanding of non-parental care in Manitoba. It was done to see how non-parental care changes over time and to examine the relationship between non-parental care, child and family factors and children’s development. Children and their parents living in South Eastman and in the province-wide francophone community were surveyed when the children were in preschool, Kindergarten and in Grade 3.

“Children are the rock on which our future will be built – the leaders of our country for good or ill: which is why the rich potential in each child must be developed into the skills and knowledge that our society needs to enable it to prosper.”

Nelson Mandela at the dedication of Qunu and Nkalane Schools on June 3, 1995
METHODS

Sample Description

The 1997 Manitoba Birth Cohort Study provided data on non-parental care and related factors including child and family demographics, community factors and child development outcomes. Data was collected on 478 children from the parents (usually the mother). It was also collected by assessing children directly with standard instruments. Table 1 describes these instruments. Figure 1 illustrates that children were assessed at three years (2001, Phase 1), five years (2003, Phase 2) and seven years (2005, Phase 3). The study included two samples collected by distinct groups for whom the study was given two different names. As the map shows (Figure 2), The Tots Study was headed by South Eastman Health/Santé Sud-Est. L’Étude Parlons Petite Enfance was headed by FPCP and DSFM representing Manitoba’s francophone community.

Children attending DSFM schools represent approximately half the francophone population whose parents have chosen the français program. As illustrated in Figure 3, the two samples overlap with some of the children in the francophone school division also living in south eastern Manitoba.

Response Rate

It is important to be aware of the study’s response rate to determine how representative this study is of the South Eastman Health region and of the francophone community. In preschool, 635 of 1,024 families (62%) of the available group of families were recruited. Some did not participate because: they were not aware of the study, declined participation or could not be reached. Most participants in preschool (2001) were interviewed again in Kindergarten (2003) and Grade 3 (2005). However, many of them did not, for a variety of reasons. The result was that 478 families (47%) participated at all three phases. It was not possible to know whether the other families who were not part of this study would have responded in a similar manner.

Measures

The definition of non-parental care for this study was “care of a child by an adult other than a parent for half a day or more per week on a regular or scheduled basis. This is care where the parent does not stay with the child and could include centre based care, care by a relative or other caregiver, babysitting or nursery school. It includes paid and unpaid care.”

Non-parental care may be provided by centre based care, licensed or unlicensed family based child care (by relatives or non-relatives of the child) and in the child’s home (by relatives or non-relatives). Table 2 shows the different types of non-parental care for children living in the South Eastman and the francophone communities.

Children’s outcomes examined in this study were collected through direct assessments with the child and by interviewing the parents and teachers. Table 3 shows how the outcomes were defined.
### Table 1. Child Assessment Tools

<table>
<thead>
<tr>
<th>Assessment Tools</th>
<th>Description</th>
</tr>
</thead>
</table>
| Ages & Stages Questionnaire (ASQ)                     | Administered by parents (2001)  
Assesses five areas of child development (communication, gross motor, fine motor movement, problem solving and personal-social)                                                                         |
Measures a young child’s underlying skills associated with subsequent learning and achievement at school                                                                                   |
| Early Development Instrument (EDI)                   | Completed by Kindergarten teachers in 2003  
Measures five domains of child development on a population level  
The five domains include: physical, social, emotional, literacy and language development                                                                                                      |
| Grade 3 Assessment (Reading & Math)                  | Assessed by teacher at the beginning of Grade 3 (2005)  
Summarizes reading and math skills acquired in Grade 2  
Reading has three components: reflection, oral reading and reading comprehension  
Math has nine components; shapes and sizes, subtraction, addition, graphs, represents and compares numbers, place values, patterns, solve problems, estimates and measures |

### Table 2 - Types of Non-Parental Care Arrangements

<table>
<thead>
<tr>
<th>Type of Child Care</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parental Care</td>
<td>Children are cared for by their parents.</td>
</tr>
<tr>
<td>Non-Parental Care</td>
<td></td>
</tr>
</tbody>
</table>
| Centre based Child Care | It includes child care centres, preschool programs, nursery schools and after-school child care.  
Most centres are licensed, meaning that they follow The Community Child Care Standards Act and its regulations, which protect the health, safety and well-being of children.  
Regulations require a proportion of staff to have approved training in early childhood education. |
| Family based Child Care | It is delivered in the provider’s home.  
It can be licensed or unlicensed. Unlicensed care for up to four children (or less than two infants under two years of age) is not monitored by the province and not subject to the regulations.  
Unlicensed care can be by a relative, friend or neighbour and may not necessarily conform to formal provincial standards. |
| Care in Child’s Home   | It is delivered in the child’s home.  
It is not licensed or monitored by the provincial government.  
Providers may or may not have early childhood education (ECE) training. |
The Long Term Effects of Non-Parental Care on Children

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**TABLE 3. CHILDREN OUTCOME VARIABLES**

<table>
<thead>
<tr>
<th>OUTCOMES</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Literacy Skills</strong></td>
<td>Measured by different instruments</td>
</tr>
<tr>
<td>2001: Ages and Stages Questionnaire</td>
<td>2003: Early Development Instrument</td>
</tr>
<tr>
<td>2005: Grade 3 Assessments (Reading Skills)</td>
<td></td>
</tr>
<tr>
<td><strong>Academic Skills</strong></td>
<td>Measured by different instruments</td>
</tr>
<tr>
<td><strong>Health Challenges</strong></td>
<td>Disabilities or limitations that affect daily activities</td>
</tr>
<tr>
<td></td>
<td>Challenges developed at birth, or those developing gradually over time.</td>
</tr>
<tr>
<td><strong>Aggressive Behaviour</strong></td>
<td>Parents were asked the following questions about their children:</td>
</tr>
<tr>
<td></td>
<td>- bullies or is mean to others</td>
</tr>
<tr>
<td></td>
<td>- kicks, bites, hits other children</td>
</tr>
<tr>
<td></td>
<td>- gets into physical fights</td>
</tr>
<tr>
<td><strong>Pro-social Behaviours</strong></td>
<td>Parents were asked the following questions about their children:</td>
</tr>
<tr>
<td></td>
<td>- plays co-operatively with other children</td>
</tr>
<tr>
<td></td>
<td>- tries to help someone who has been hurt</td>
</tr>
<tr>
<td></td>
<td>- comforts another child who is crying or upset</td>
</tr>
</tbody>
</table>

**Statistical Analysis**

The results found in this study are descriptive and analytical: The descriptive data shows the percentages or scores reported by parents or measured by the developmental instruments. These are shown by graphs and give information about the frequency of the factors of interest.

The analytical findings are a result of statistical testing to examine if the relationship between factors were because of a true association, or chance. The type of statistical test used is called Time Varying Fixed Effect Longitudinal Regression Modelling.

These regression methods are complex and powerful – a detailed explanation is in the technical report called “The Long Term Effect of Non-parental Care on Developmental Outcomes of Children: Results from the 1997 Manitoba Birth Cohort Study” and is available upon request at healthychild@gov.mb.ca.

The strength of these models is that they allow observations of differences in average outcomes of children across the three phases and the changing or constant influences of non-parental care variables on these outcomes over time. Factors that are statistically significant will be reported – there was only a small (5%) chance that the association may have been reported by chance. Results of borderline significance are sometimes reported, meaning that there was a chance (10%) that the association may have been reported by chance.

Child and family factors that influence child development, as well characteristics of non-parental care, were taken into account. The factors were: child gender, maternal education, household income, parental engagement, languages other than English or French and where a child lives. These analyses could not account for child care quality (not measured), but could account for types of non-parental care whether it was used in all three phases, the number of changes in non-parental care and hours per week in non-parental care.

**RESULTS**

**Non-Parental Care Use Over Time**

Other than the National Longitudinal Study of Children and Youth (NLSCY), there were few Canadian studies that showed the extent of the use of non-parental care. The Child Care Resource and Research Unit (2007) reports that there were substantial increases in Manitoba in regulated child care spaces between 1992 and 2004 (18,977 to 25,634). A large percentage of non-parental care used in Canada is not regulated and difficult to identify and describe. To better understand the child care situation in Manitoba, the first research questions asked were: “What are the types of non-parental care arrangements that children experience? Are there changes in the distribution of different types of arrangements over time?”
The Long Term Effects of Non-Parental Care on Children

Study Findings

Graph 1 shows that approximately half the children in the sample were in non-parental care during their preschool years and that this percentage decreased over time. By Grade 3, 30% of children were in non-parental care.

Graph 2 shows the percentage of children who were reported to never have been in non-parental care or to have been in non-parental care in one, two or three phases. Almost 65% of the children were in non-parental care during at least one phase of the study (between the ages of three and eight). The study found that 13.7% of the children were in non-parental care in all three phases.

Discussion of Findings

Data from the NLSCY revealed that 68% of Canadian parents, who were either working or studying, enrolled their preschool children in non-parental care (Cleveland et al., 2008). This percentage would be lower if it had included parents who were not working or studying. It would have been higher if it had surveyed families at more than one time point. Non-parental care use is increasing in Canada so that the percentages found in the present study are likely lower than what would be found today (Bushnik, 2006).

These analyses highlight the importance of examining non-parental care rates over more than one time point. At any given time, the rate of non-parental care use was lower than the cumulative rate and may not have captured the true experience of children. Most child care studies will look at rates of use during one point in time and that underestimates the non-parental care experienced by children.

Non-parental care use was greater in preschool and decreased as children became older. Non-parental care is used more extensively during the preschool years, likely because no formal schooling is offered to provide supervision, or educational and recreational activities. Once school begins, some parents may find it possible to rearrange work schedules around school hours.
Study Findings

GRAPH 3 – DISTRIBUTION OF CHILDREN BY VARIOUS NON-PARENTAL CARE

<table>
<thead>
<tr>
<th></th>
<th>PHASE I (Age 3 to 4)</th>
<th>PHASE II (Age 5 to 6)</th>
<th>PHASE III (Age 7 to 8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parental Care</td>
<td>4.4%</td>
<td>8.5%</td>
<td>6.7%</td>
</tr>
<tr>
<td>Centre Based Care</td>
<td>17.0%</td>
<td>23.5%</td>
<td>21.4%</td>
</tr>
<tr>
<td>Family Based Care</td>
<td>51.7%</td>
<td>63.2%</td>
<td>70.3%</td>
</tr>
<tr>
<td>Care in Child’s Home</td>
<td>3.3%</td>
<td>11.0%</td>
<td>5.0%</td>
</tr>
</tbody>
</table>

Graph 3 shows that the percentage of children who were cared for in their homes increases over time, but children in family based care and centre based care steadily decrease over time. In preschool (Phase I, 2001), family based child care is the most common type of care used by families (23.5%), followed by centre-based care (17.0%) and by care in the child’s home (4.4%). In Grade 3 (Phase 3, 2005), the most common type of care was care in the child’s home, followed by family based care and then centre based care.

Discussion of Findings

Anecdotal evidence suggests that low attendance in child care centres is at least partly due to lack of availability of spaces for preschool and school aged children. It is important to note that school age children require and use non-parental care. Canadian reports suggest that there are too few child care centres for the number of families where both parents are employed (Childcare Resource and Research Unit, 2007). The concern with family based child care is that a large percentage of this care is unlicensed and of unknown quality. A recent Manitoba study reported that children in centre based care and nursery schools were in more activities that encouraged child development compared to other types of non-parental care (Healthy Child Manitoba, 2006). Child care of higher quality is associated with better developmental outcomes for children (NICHD, 2005; Shonkoff & Phillips, 2000).

Non-Parental Care in the South Eastman Health and Francophone Communities

Study Findings

GRAPH 4 – NON-PARENTAL CARE IN SOUTH EASTMAN HEALTH REGION (SEH)
Graph 4 and Graph 5 suggest that patterns of non-parental care use differed considerably between families in South Eastman and families in the francophone community. In the preschool years and in Grade 3, francophone families were more likely to use non-parental care than non-francophone families living in South Eastman. In 2001 (preschool), families in South Eastman (36%) were using non-parental care less than other families in Canada (68%). In the same period, francophone families (71%) were more comparable to other Canadian families (68%). Both groups relied heavily on family based child care.

**Discussion of Findings**

Children in South Eastman seldom used centre based child care in Grade 3, compared to the francophone community. A possible explanation may be that school based child care centres are more readily available in the francophone community than in South Eastman. Also, families in the francophone sample were more likely to be educated, employed and consequently have higher household incomes – all factors highly prevalent in families that used non-parental care. There may also be cultural factors influencing these patterns of use (larger populations of new Canadians, religious beliefs, or attitudes towards non-parental care and the role of women). Results show that in Kindergarten, the use of non-parental care was similar for both groups. It should be noted that in 2003, almost all francophone schools offered full-time Kindergarten which would reduce the need for non-parental care.

**Length of Time in Non-Parental Care**

The length of time that children spend in care is an important factor in studying the influence of non-parental care. The NICHD Early Child Care Research Network (2003) found that more time in care predicted higher levels of aggression among Kindergarten children. These effects were modest and were not clinical levels, but were evident, even after controlling for child care quality, type and instability as well as mothers’ sensitivity to their children and other family background factors. The NICHD Early Childcare Research Network recommended that length of time in care should be considered in future analyses.

The second research questions asked were: “How much time do children spend in these non-parental care arrangements? Do the average hours spent in non-parental care arrangements change over time as children age? What factors are associated with the length of time that children spend in non-parental care?”

**Study Findings**

**GRAPH 6 – CHILDREN IN FULL TIME CARE**

The majority of parents reported that their children spend less than 30 hours a week in non-parental care. For example, 21% of children spent 30 hours or more in the non-parental care in 2001. As expected, there was a declining trend for non-parental care use over time.
A greater number of hours per week were spent in non-parental care when parents were employed full time (Table 4). An interesting finding is that the children whose parents were not gainfully employed were in non-parental care, but used it less frequently than employed parents. The non-parental care used by not gainfully employed parents may have been nursery or preschool programs. No striking differences were apparent between families in the urban and rural areas.

Analyses were done on which factors were associated with children spending more hours per week in non-parental care. Multiple regression analyses were used to account for child and family factors. The results in Box 1 showed that four factors were associated with more frequent use of non-parental care.

### Table 4 – Hours per Week Spent in Non-Parental Care

<table>
<thead>
<tr>
<th>Factors Associated with Time Spent in Non-Parental Care</th>
<th>Average Hours per Week by Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2001</td>
</tr>
<tr>
<td>Mothers Employed on Full-time Basis</td>
<td>21.8</td>
</tr>
<tr>
<td>Mothers Employed on part-time Basis</td>
<td>10.9</td>
</tr>
<tr>
<td>Mothers Not Gainfully Employed</td>
<td>9.3</td>
</tr>
<tr>
<td>Urban Families (Winnipeg or Steinbach)</td>
<td>15.9</td>
</tr>
<tr>
<td>Rural Families</td>
<td>15.6</td>
</tr>
<tr>
<td>Non-Parental Care (Total Sample)</td>
<td>15.7</td>
</tr>
</tbody>
</table>

### Discussion of Findings

The factors associated with spending more hours in non-parental care included: children in preschool (compared to older children), gainfully employed mothers, single parents or those living in South Eastman. Previous research suggests that long hours in non-parental care are associated with poorer child outcomes. However, given the relatively short length of time children in this study are in non-parental care, it is not likely to be detrimental to child development.

While the study showed that children in South Eastman were less likely to be in non-parental care than francophone children (Graph 4 and Graph 5), those who were, spent longer periods of time in care (Box 1). The travel required for parents in rural regions, (ex: South Eastman) to get from their work places to non-parental care may partly explain these findings. This underscores the need to have child care close to the communities where families live and work.

Some other factors were not included in this study and are relevant in determining use of non-parental care. These include: availability of non-parental care, personal preferences and cultural beliefs. Previous research demonstrates that the number of families, in which both parents are working, is increasing (Roy, 2006) and therefore child care is a necessity for parents. Earlier analyses with the Manitoba Birth Cohort data (Human Resources and Social Development Canada and Healthy Child Manitoba, 2005) revealed that families will pay for child care even if they apparently cannot afford it and that this may be contributing to financial stress in some families. Canadian families are reported to spend an average of 20% of the mother’s salary on child care (Cleveland and colleagues, 2008). Canadian families appear to be spending only what they can afford on
child care and consequently many children may not be receiving quality child care. To address this issue, Manitoba maintains the lowest child care fees in the country (after Quebec) and provides targeted subsidies to make child care more affordable for lower income families (Government of Manitoba, 2008).

**Family friendly policies, including improved access to affordable and quality child care, access to parental leave, greater flexibility in work arrangements and training opportunities can provide the key to better employment opportunities for families with young children, especially lone parents.**

Organisation for Economic Co-operation and Development (OECD) Employment, Labour and Social Affairs Committee

**Characteristics of Families Who Use Non-Parental Care**

Understanding the characteristics of families using non-parental care is valuable in planning child care services. The question was asked “What factors (ex: parental employment, parental education, income, family structure, residential status) are associated with each type of non-parental care arrangement?” In Graphs 7 to 10, use of non-parental care is related to maternal employment, maternal education, family structure and household income. These analyses provide insight into which families are most likely to use non-parental care and why they might be choosing it.

**Study Findings**

**GRAPH 7 – MATERNAL EMPLOYMENT AND NON-PARENTAL CARE**

The left side of Graph 7 shows that where mothers were gainfully employed, 65% of families were using non-parental care in preschool (2001), while only 33% of these children were in parental care. Family based child care was used extensively by families where the mothers were gainfully employed, particularly in 2001. The graph on the right side shows that, in families where mothers were not gainfully employed, the majority of children were with their parents and those in non-parental care were more likely to be in centre based child care.
Graph 8 indicates that children in single-parent families were more likely to be in non-parental care than children from two-parent families.

Graph 9 shows that maternal education is associated with use of non-parental care. Children of mothers with more education (at least Grade 12) were more likely to be in non-parental care than those of mothers with less education. Family based child care was the most common type of non-parental care, particularly among families where the mother has more education.
Graph 10 shows that children from higher to middle income families (over $30,000) are more likely to be in non-parental care than those from lower income families. Centre based child care is more common among low income families.

Analyses were done on factors associated with use of non-parental care, after other child and family factors were taken into account. The results in Box 2 show that seven factors were associated with being in non-parental care.

### Box 2 - Study Findings*

Factors that influenced child care use:

- mothers’ employment
- single parents
- preschool years (compared to school-age years)
- high maternal education
- middle or high family income (over $30,000)
- English or French speaking (compared to other languages)
- francophone children (including francophone children in South Eastman) more likely than all other South Eastman children.

*Findings are statistically significant meaning that we are confident (19 times out of 20) that they are correct.

### Discussion of Finding

Many characteristics can predict whether or not families will use child care services. The most important indicators for use of non-parental care were: maternal employment, followed by single parent families, having preschool children, higher maternal education, higher household income, speaking an official language and being in the francophone sample. As noted earlier, maternal employment is rising in Canada and families are requiring non-parental care for their children (Roy, 2006). The US and Canada, in contrast with European countries, have no national policies supporting early childhood education and care (ECEC) because of continued ambivalence about where the responsibility for child rearing should lie (Kamerman, 2000). From 1999 to 2007, the Manitoba government increased investments in early learning and child care and has prepared a five-year plan to improve aspects of child care. The plan includes quality and affordability (Manitoba Child Care, 2008). The provincial government offers subsidies to low-income families using centre based child care, which partially explains higher use among these families.
Child Development and Non-Parental Care Use

Parents and policy makers are interested in child care and early childhood education to ensure that children develop physically, socially, cognitively and emotionally. Previous research has shown that non-parental care can influence children’s developmental outcomes (McCarthy, 2004; Shonkoff and Phillips, 2000; NICHD ECCRN, 2005). Research questions included: “How do the various types of non-parental care arrangements and hours spent in these arrangements affect children’s developmental outcomes over time? How does the stability in a non-parental care arrangement affect these outcomes?”

The association between non-parental care and children’s literacy skills, academic skills, health limitations, aggressive behaviour and prosocial behaviour was examined and tested by accounting statistically for other child and family influences. The raw unadjusted scores are shown in the graphs and the results of the statistical analyses are summarized in the boxes. The description of the child development outcomes were described earlier in Table 3.

Study Findings: Literacy Skills

Graph 11 shows the standard scores of children’s literacy skills for each type of non-parental care. (Please note that the scale is from score 44 to 56.) The instruments used to measure literacy skills over time are described in Table 3. These unadjusted scores are generally lower for care in children’s homes than the three other types of care. At school entry and Grade 3, children in family based care or centre based care appear to have slightly higher scores than parental care or care in children’s homes.

The results in Box 3 shows the complex association between literacy skills and non-parental care after child and family factors are accounted for. Children in centre based before and after-school care in Grade 3 only (2005) have higher literacy scores than children in parental care. No differences were found in literacy skills in preschool (2001) and Kindergarten (2003) between centre based care and parental care. Among middle or high income families only, children cared for in family based child care had higher literacy scores than children in parental care. No differences were found between family based child care and parental care in lower income families. Children in parental care have higher literacy scores than children cared for by others in the children’s homes. Other factors associated with literacy skills were higher maternal education, being a girl and living in an urban area.

Box 3 - Study Findings*

Literacy skills were higher for:
- children in family based care for families with household incomes higher than $30,000 only (compared to parental care)
- children in centre based care (compared to parental care in Phase 3 only)
- children in parental care (compared to care provide by others in child’s home)
- higher maternal education (at least Grade 12)
- girls
- urban areas (Winnipeg or Steinbach)

* Findings are statistically significant meaning that we are confident (19 times out of 20) that they are correct.
Study Findings: Academic Skills

**Graph 12 – Academic Skills by Non-Parental Care Over Three Phases**

Graph 12 shows that the unadjusted academic skills appear to be generally lower for care in children’s homes than the three other types of care. (See Table 3 for instruments used to measure academic skills.) In preschool (2001), children in centre based care had the highest scores. In Kindergarten (2003) and Grade 3 (2005), those in family based child care had the highest scores. The results in Box 4 show the association between academic skills and non-parental care, after accounting for child and family factors. Factors associated with higher academic skills include: living in an urban area (compared to a rural area), being in centre-based child care (compared to parental care), parents reporting doing activities with children, middle or high household income (> $30,000) and spending fewer hours per week in non-parental care.

**Box 4 - Study Findings**

Academic Skills were higher for:

- urban areas (Winnipeg or Steinbach)
- children in centre based care (compared to parental care with strongest effect in preschool)
- parental engagement (doing activities with children)
- household income higher than $30,000
- fewer hours per week in child care†

*Findings are statistically significant meaning that we are confident (19 times out of 20) that they are correct.
†For this finding, our confidence is slightly less (18 times out of 20)

**Discussion of Findings**

As shown in Box 3 and Box 4, some positive associations were found between non-parental care and cognitive outcomes (literacy and academic skills). This is consistent with previous research (Barnett, 2004; McCarthy, 2004; NICHD, 2005). Generally, centre based care is associated with higher quality because it is regulated by provincial governments. Caregivers in centre based child care have educational backgrounds in child development and are more likely to be sensitive to children’s cognitive and social-emotional development. Children in these centres are more likely to be engaged in activities that support their development.

In this study, family based care was associated with higher literacy skills than parental care – for middle or high income families only. No differences were found between parental care and family based care for lower income families. There may be less opportunity for lower-income families to find higher quality child care for their children than for middle or high income families. A Québec study found that low-income neighbourhoods tended to have lower quality child care than middle or high income neighbourhoods (Jaeger & Funk,
The quality of family based care is unknown in this study and may have ranged from high quality to poor quality. High quality child care in a family based setting is likely to be associated with higher cognitive skills.

Another observation from this study is that fewer hours in non-parental care were associated with higher academic skills. It should be noted that this finding is of borderline statistical significance meaning that this finding is less certain. An association with poorer cognitive skills and parental employment and use of non-parental care was recently found in a sample of families with a single child (Bernal, 2008). On the other hand, in another study using the NLSCY, no detrimental effects related to length of time in non-parental care were found (Gagné, 2003). These conflicting findings might be influenced by quality of non-parental care which was not taken into account. Another explanation might be that long hours in non-parental care tend to limit the amount of time that parents can spend with their children. Little energy and patience may be left to spend time with their young children after both parents have worked all day. These results may be pointing to improved working conditions for parents with young children such as flexible or part-time hours.

What transpires in the family appears to be more important in explaining children’s early social and emotional development than whether children are cared for by someone other than their mothers on a routine basis.”

NICHD Early Child Care Research Network (2005) p. 280

Study Findings: Health Challenges

What transpires in the family appears to be more important in explaining children’s early social and emotional development than whether children are cared for by someone other than their mothers on a routine basis.”

NICHD Early Child Care Research Network (2005) p. 280

Graph 13 indicates that percentages of children with health challenges were generally higher in child care centres or in care provided in children’s homes. The results in Box 5 show the association between health challenges and non-parental care after child and family factors are accounted for. Being in a two-parent family, being in centre based child care, lower maternal education or being a boy are all associated with having a health challenge.

Box 5 - Study Findings*

Health challenges are associated with:
- two-parent families
- centre based care†
- lower maternal education (less than Grade 12)
- boys

* Findings are statistically significant meaning that we are confident (19 times out of 20) that they are correct.

† Centre based care in Manitoba has staff and equipment to care for children with special needs.
Discussion of Findings

The results showed that child care centres were associated with higher numbers of children with health challenges. A possible explanation is that families with children with disabilities are offered centre based child care to help care for their children. The provincial government recognizes that families with children with disabilities require additional support in caring for their children (Participation and Activity Limitation Survey: Families of Children with Disabilities in Canada; Statistics Canada, 2008).

Study Findings: Aggressive Behavior

Study findings: aggressive Behavior

Graph 14 shows that in general the percentage of children displaying aggressive behaviour is decreasing over time. Aggressive behaviour appears to be higher among children in non-parental care compared to children cared for by their parents. The results in Box 6 indicate that children were more likely to show aggressive behaviour if they have been in non-parental care at one or more phases of the study than if they reported never being in non-parental care. The aggressive behaviour was not associated with one type of non-parental care or being in non-parental care at one particular point.

Box 6 - Study Findings*

Aggression is lower for:
- children in Grade 3 versus younger children
- if child care was not used at all (versus used one or more phases)
- higher maternal education (at least Grade 12)
- girls

* Findings are statistically significant meaning that we are confident (19 times out of 20) that they are correct.

Discussion of Findings

Consistent with other studies, the analyses showed that aggressive behaviour in children generally decreased as they grew older (Tremblay, Nagin, Seguin, Zoccolillo, Zelazo, Boivin, 2005). This study found that being in non-parental care at any point was associated with more aggressive behaviour in children. It should be noted that a wide range of non-parental care was examined in this study with varying degrees of quality.

Previous studies have found conflicting results for the relationship between child care and children’s behaviour (McCarthy, 2004). In certain high quality programs, children receiving more hours of child care had fewer behaviour problems (Love et al., 2003). Some children (boys and certain temperaments) may be particularly prone to negative effects from being in child care (Crockenberg, 2003; NICHD, 2005). It has been suggested that high quality child care could buffer the effects of child care on child behaviour (Love et al., 2003.) This suggests that parents and caregivers should provide the highest quality child care and must pay attention to how children are adjusting to non-parental care.
Early childhood investments of high quality have lasting effects… We cannot afford to postpone investing in children until they become adults, nor can we wait until they reach school age – a time when it may be too late to intervene. Learning is a dynamic process and is most effective when it begins at a young age and continues through adulthood. The role of the family is crucial to the formation of learning skills, and government interventions at an early age that mend the harm done by dysfunctional families have proven to be highly effective.

Nobel Prize-winning economist
James Heckman – University of Chicago

Study Findings: Prosocial Behavior

Graph 15 shows that low prosocial behaviour is decreasing over time as children develop. No differences in prosocial behaviour between children in non-parental care and those in parental care were noted in Box 7 or in the statistical testing. Older children, being a girl and having engaged parents were associated with better prosocial skills.

Box 7 - Study Findings*

Prosocial is higher for:
- Grade 3 children and to a lesser extent Kindergarten children (versus preschoolers)
- girls
- parental engagement (doing activities with children)

* Findings are statistically significant meaning that we are confident (19 times out of 20) that they are correct.
Discussion of Findings

The findings of older children and girls having better prosocial skills are consistent with previous research (Romano, Tremblay, Boulerice and Swisher, 2005). It is also important to note the crucial role of parental engagement in prosocial skills. Canadian research found that parenting styles do influence the development of prosocial skills (Romano et al., 2005). Non-parental care in this study has no significant effect on children’s prosocial skills.

Study Strengths and Limitations

As with all research, this study has strengths and limitations that should be considered in interpreting the results. An important strength is the longitudinal design of the study which permits observation of non-parental care, early childhood influences and child development over time. The sophisticated statistical method used to analyze the data could account for child outcomes and child and family characteristics over time. For example, a child’s development in preschool was accounted for in examining development in Kindergarten and Grade 3.

One of the challenges of following child development over time is that the instruments used in measuring development do change as children develop. For this reason, the measures used in this study were different at each time period. The scores were standardized to allow comparisons over time. The cognitive skills (academic and literacy) variables and the aggressive and prosocial behaviour variables were based on instruments and questions known to be valid and reliable.

Some of the results found in this study may not be applicable to other parts of Manitoba or Canada. The study provides a good description of non-parental care in two communities in Manitoba, but cannot describe patterns of non-parental care elsewhere. Significant differences were found in rates of non-parental care between South Eastman and the francophone community. However, associations between non-parental care and child development found in the present study, might be generally applied to other Manitoba and Canadian children. Earlier analyses of these two communities which examined the associations between non-parental care and child development found similar results in both communities and was consistent with previous research (HRSDC, 2005).

CONCLUSIONS

Non-parental care for this study was defined as “care of a child by an adult other than a parent for half a day or more per week on a regular basis” and included centre based child care, nursery schools, licensed and unlicensed family based child care and care provided in children’s homes. It indicated that 65% of children were in non-parental care at some point during the study period and that the most common type was family based. The concern with family based care is that a large percentage of this care is unlicensed and of unknown quality. Most of the children in this study attended non-parental care on a part-time basis.

There are increasingly more working mothers in Canada and therefore, families that require non-parental care. The most important indications of whether a family used non-parental care were: mothers being employed, followed by being a single parent, having preschool children (rather than school-age children), higher maternal education, higher household income, speaking English or French (rather than another language) and being in the francophone sample.

This study essentially found that centre based and family based child care are associated with better literacy and academic skills. It also found that children who were in non-parental care at any point had higher scores of aggressive behaviour than those in parental care. It is widely recognized that child care quality plays an important role in determining whether child care is associated with positive or negative child outcomes. Parents, caregivers and all levels of government should provide the highest quality child care to
ensure the best possible outcomes for children. Parents must pay attention to how their children are adjusting to non-parental care.

The analyses also showed that many factors, other than non parental care influenced children's health, literacy and academic skills, and aggressive and prosocial behavioural outcomes. There were strong associations between these outcomes and the activities parents engage in with their children, where children live, parent's education and income, and childrens’ age and gender. The effects of these child and family characteristics were strong and are consistent with previous research. It is important for parents to be aware that sensitive parenting and supportive family environments have a strong and positive influence on the development of their children beyond the influence of the non-parental care they may be choosing.

Through this study, Manitoba has learned a great deal about the non-parental care in South Eastman and the francophone community and about important issues related to child care. Valid and reliable measures of child care quality are currently being used to monitor quality in Manitoba's child care centres. From 1999 to 2007, Manitoba has doubled its commitment to early learning and child care.

The provincial government has recently released its new five-year plan outlining improvements to early learning and care by 2013 (Government of Manitoba, 2008). Funding will be allocated to 6,500 spaces, nursery school enrolment will be increased; capital funds will be invested to convert surplus school space into child care centres; services of high quality will be supported by using an internationally recognized approach; services will be more responsive to diverse cultures (Francophones, Aboriginals, new immigrants); and a 20% increase in funding for wages and benefits will be provided.

A unique feature of this study was the partnership between the francophone school division, South Eastman Health and the provincial and federal governments. Partners were involved in all aspects of the study from planning and implementing, to analyzing and reporting the results. The research findings were distributed regularly because the francophone school division and South Eastman Health are closely linked to their communities. All partners increased their understanding about the influences of non-parental care, by being directly involved with the research process and immersing themselves in the research relevant to child care. The partnership also went a long way in breaking down silos dividing health authorities, school divisions and government departments.

Families who participated in the study, also benefited by reflecting on early child development (ECD) and their parental roles. The research process and findings have increased public awareness about the importance of early childhood development, early childhood education and care and the needs of families in the community.

“[If] we’re serious – if we’re really serious – about making Canadians the healthiest people in the world, we have to be serious about investing in the early years education and child care.”

Roy Romanow, receiving The International Foundations Public Service Award, Ottawa, May 8, 2003
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