The handle http://hdl.handle.net/1887/26094 holds various files of this Leiden University dissertation.

Author: Cárcamo Leiva, Rodrigo Alejandro
Title: Childcare in Chile. The role of ethnicity and socioeconomic inequalities
Issue Date: 2014-06-17
Introduction.
A historical review of childcare in Chile

Previously published as:

ABSTRACT
This article discusses significant changes in childcare policy and practice in Chile. We distinguish four specific periods of childcare history: child abandonment and the creation of foundling homes in the 19th century; efforts to reduce infant mortality and the creation of the health care system in the first half of the 20th century; an increasing focus on inequality and poverty and the consequences for child development in the second half of the 20th century; and, finally, the current focus on children’s social and emotional development. It is concluded that, although Chile has achieved infant mortality and malnutrition rates comparable to those of developed countries, the country bears the mark of a history of inequality and is still unable to fully guarantee the health of children from the poorest sectors of society. Recent initiatives seek to improve this situation and put a strong emphasis on the psychosocial condition of children and their families.

Keywords: Childcare, Child Welfare.

INTRODUCTION
Chile has achieved an infant mortality rate similar to that of developed countries. This favorable situation reflects the culmination of several changes made to childcare policy and practice based on the findings of scientific studies. The focus of childcare has shifted from prevention of infant mortality and morbidity toward the promotion of children’s psychoemotional development. This review presents a concise, yet comprehensive account of childcare history in Chile that serves as a point of reference for specialists in social medicine, psychologists, and policy makers in Chile and other countries. Unlike previous studies (Rojas, 2010; Milanich, 2009) it covers a period of two hundred years and specifically concerns relevant scientific research. We discuss four critical periods of childcare history against the background of more general changes in health care focusing...
on the following main aspects: key policies; changes in childcare practice; and scientific research. The first period begins with the establishment of the Republic of Chile when child abandonment was very common and foundling homes first emerged. Later, in the first half of the twentieth century, the country began to implement health care policies aimed at reducing child mortality. During the third period, between the 1960s and 1990s, the first scientific publications on childcare began to emerge, inequality and poverty were identified as factors that cause malnutrition and stunted growth in children and the government laid the foundations of a more universal childcare system. The last period corresponds to the last decade, when childcare began to focus on improving children’s social and emotional well-being. This period is characterized by a sharp increase in the number of research studies related to childcare.

**Method**

A search of articles resulting from relevant research studies conducted in Chile in the thematic areas of medicine, pediatrics, psychology, education, and health care was carried out using the Web of Science citation index. Abstracts, titles and keywords were searched using the tags “or” operators and the terms “child*”, “infan*”, “baby*”, “babie*”, “toddle*” and “Chile”. The search yielded a sample of 1,849 papers which was reduced to 61 after applying the following exclusion criteria: (a) the focus of the study was not childcare; (b) the investigated variable was a specific disease; (c) the sample only included children aged over five years. Six of the excluded papers were considered particularly relevant and were added to the sample using the snowball method.

**Childcare in the nineteenth century: foundling homes**

Although reliable data on the early history of childcare in Chile is scarce, it is widely accepted that extreme poverty, social customs and cultural beliefs and practices, inadequate contraception, and religious traditions led to a number of unwanted children (Meza, 1991; Milanich, 2004). Previous to the emergence of foundling homes in the eighteenth century, unwanted infants were smothered, exposed to the elements, or left on the doorsteps of rich people’s homes (Cunningham, 1995; Stearns, 2011). The first foundling home, called La Casa de Huérfanos (the Orphans’ House), was founded in Santiago de Chile in 1758 (Meza, 1991; Milanich, 2004). Its name hid the harsh fact that most of its inhabitants had been abandoned by their parents. In 1853, the French-Canadian congregation of the Sisters of Providence began to run “La Casa” (Meza, 1991; Milanich, 2004). The doctrine of the Catholic Church at the time strongly prohibited the use of contraception, abortion, and childbirth out of wedlock. Unmarried pregnant women were stigmatized and women who gave birth to an illegitimate child were pressured to abandon the infant. This and other factors, such as extreme poverty, led many unmarried mothers to leave their baby in the orphanage and 80% of the infants that passed through La Casa were illegitimate (Meza, 1991). By 1912, Chile already had some 25 orphanages and La Casa was considered the largest and most important institution for abandoned children in the country (Milanich, 2004). Meza (1991) estimated that more than 100,000 children were left in Chilean orphanages between 1770 and 1929. Milanich (2004), using historical letters and files, reconstructed children’s arrival and “passage” through La Casa and found that a remarkably high proportion were abandoned. The same author (Milanich, 2004) hypothesized that parents became more attached to their children after they had survived their first year of life. One possible reason for this is that very young children were seen as a greater economic burden to the family, compared to five or six-year-olds for example who could do simple manual tasks.

As in other countries, orphanages were not so much institutions where children grew up, but, more importantly, administrative bodies that played an important role in the redistribution of children (Fuchs, 1984; Ransel, 1988; Sherwood, 1988). Orphanages provided the children with a semiofficial certificate stating that the child had been abandoned and allowing for their legal adoption. Many children stayed in La Casa only as long as it was necessary to arrange a legal adoption, which in some cases could be just a few days, or even hours (Milanich, 2004). Adoptive parents often requested a child when they needed a servant, maid or apprentice, or when they wished to have a child of their own as an heir or to care for them in their old age. The redistribution of infants and older children as unpaid servants in rich Catholic families was sanctioned and organized by the Catholic Church and was viewed as an act of charity and thus highly respected.

Adoptive parents often requested a child when they needed a servant, maid or apprentice, or when they wished to have a child of their own as an heir or to care for them in their old age. The redistribution of infants and older children as unpaid servants in rich Catholic families was sanctioned and organized by the Catholic Church and was viewed as an act of charity and thus highly respected. The redistribution of children was not without risk however. Infant mortality was very high in Chilean society as a whole and even higher in orphanages. The vulnerability of infants and costs of bringing up a child led many poor families to leave children at an orphanage with the hope that the child would survive, but also to avoid possible future funeral and burial costs (Meza, 1991). Orphanages tried to contract wet nurses to keep the infants alive but, based on La Casa files, it is estimated that some 80% of abandoned infants did not survive (Milanich, 2004). Other studies found similar alarming death rates in orphanages in other countries during the same period (Ariès, 1996; Fuchs, 1984; Hrdy, 1999; Ransel, 1988; Sherwood, 1988, Wickes, 1953). Against this social backdrop, the first quarter of the twentieth century saw a number of changes in Chilean society that led to an eventual reduction in the role of orphanages (Milanich, 2004).

**Childcare in the first half of the twentieth century: well-baby clinics**

In the beginning of the 20th century, Chile’s government initiated social healthcare reforms to obtain what is called stage A in healthcare in an attempt to reduce infant mortality and increase life expectancy (Kaempffer & Medina, 1982). A number of programs aimed at reducing malnutrition and mortality were introduced, such as the Gotas de Leche (drops of milk) program, which was implemented in 1901. This program was inspired by the Goutte de Lait program introduced by the Frenchman Budin in the consultation de nourrissons (well-baby clinic) that he founded in Paris in 1892. Well-baby clinics provided mothers with free sterilized cow milk, childcare advice and child health checks. Chile was one of the first countries in the world to replicate Budin’s program (Dyhouse, 1978; Rosselot, 1982; Wickes, 1953, Schonhaut, 2010). At the same time, the government of the
then president Barros Luco (1910-1915), believing that existing programs were not enough to overcome the alarming infant mortality rates, organized the First National Conference on Child Protection, from which the idea to promote other measures such as maternity homes emerged (Schonhaut, 2010).

During this period, improvements were made to the general health system, such as the introduction of social insurance for workers in 1918. Although the majority of insurance funds offered only limited coverage for the treatment of specific diseases, exceptional cases, such as the Compulsory Workers Insurance Fund (Fondo de Seguro Obligatorio para Trabajadores), provided both curative and preventive healthcare specifically for mothers and infants (Hall & Diaz, 1971). Despite these improvements, the health system was severely criticized for its discriminatory nature by the then young Member of Parliament Salvador Allende. In 1938, the Preventive Medicine Act was passed which provided annual medical examinations for the early detection of several diseases in adults. During this period, the participation of local welfare boards (Juntas de Beneficiencia), supported by private contributions and the Church, also contributed to the development of the health system (Hall & Diaz, 1971). Different initiatives during the next decades contributed toward the development of a unified health system whose advantages were seen during the earthquake of 1938. However, it was not until 1952 that a new health system was created. The National Health System (Sistema Nacional de Salud, SNS) adopted the model of the British National Health Service founded in 1948, merging the functions of various public and private health systems. This system considerably broadened health coverage across society and succeeded in providing preventive and curative care to workers’ spouses and their children, including those over the age of two years who were previously excluded from coverage (Hall & Diaz, 1971).

The goal of the SNS was to provide free health care, including maternity care and delivery, to all citizens. However, in practice, a private health system, primarily for white collar workers and other groups, such as the military, remained in existence, thus creating a hybrid system with compulsory health insurance and free care for manual workers and private care for privileged groups. From its inception, the SNS struggled with financial problems, as funding proved insufficient to meet increasing demand. Over the years, many attempts have been made to create a universal system fully funded by the state that includes all sectors of society, but to no avail (see below).

During this period, the reduction of the infant mortality rate (IMR) remained a priority goal. Numerous studies have analyzed the factors contributing to the decline in Chile’s IMR, which is currently the lowest in South America (Figure 1). Contrary to claims (Kaempffer, 1977; Szot, 2002; Viel, 1967), the introduction of the SNS did not immediately result in a spectacular reduction of IMR. In 1960, eight years after the implementation of the SNS, the national IMR remained around 132 deaths per 1,000 live births, compared to 136 deaths per 1,000 live births in 1950 (Jimenez & Romero, 2007; Kaempffer, 1977; Rosselot, 1982). In fact, IMR had already shown a slow but steady decline before the introduction of the SNS. According to data provided by the World Health Organization (WHO), Chile’s IMR reached a low of 7,7 deaths per 1,000 live births in 2011, while the under-five mortality rate was 8,7 deaths per 1,000 live births (WHO, 2011). Several authors have claimed that this steady decline cannot be explained by steady economic growth because Chile has experienced several financial crises since the 1950s (Monckeberg, Valiente, & Mardones, 1987). Important factors contributing to the decline of IMR were the provision of sewerage and fresh water supplies in cities and, more recently, rural areas (Monckeberg et al., 1987).


Childcare in the late twentieth century: the struggle for universal health care
This period was characterized by initiatives to provide more universal health care and greater equity in the health system. However, these initiatives suffered setbacks during the military regime due to attempts to commercialize the health system. At the same time, scientific research became more systematic (e.g., Riley, 1956) and oriented toward health outcomes, such as malnutrition and stunted growth.

The system was marked by unequal access since its inception in the early 1930s and Salvador Allende continued to oppose the system leading up to his rise to power. Allende was not alone in his opposition and efforts to create a more universal health system continued during the 1960s and 1970s. In 1968, for example, healthcare reforms proposed by Eduardo Frei Montalva’s Christian Democratic government were met with strong resistance from medical doctors who feared a loss of income with the disappearance of the private healthcare system. Later, in the beginning of Allende’s administration (1970 to 1973),
Chapter 1

The consequences of socioeconomic inequality for childcare and child health were the subject of a number of studies (Alvarado et al., 1999; Alvarez, Wugatt, & Salazar, 1988; Amigo, Bustos, & Kaufman, 2010; Araya et al., 1996; P. Bustos, Amigo, Muñoz, & Martorell, 2001; P. Bustos, Muñoz, Vargas, & Amigo, 2009; Buvinic, Valenzuela, Molina, & González, 1992; Castillo, Cortes, & De Andraca, 1993; Colombo, de la Parra, & López, 1992; De Andraca, Castillo, & Cortes, 1996; Donoso, 2004; González et al., 2009; Hertel-Fernández et al., 2007; Ivanovic et al., 2004a, 2004b, 2008, 2009; McCormick et al., 1979; Prieto & Scott, 1986; Rodríguez, Lira, & Montenegro, 1975; Sanhueza, 2006; Valenzuela, 1997). McCormick et al. (1979) showed that factors related to urbanization and literacy were associated with the decline in IMR. Herthel-Fernández et al. (2007) highlighted a strong association between child mortality and low levels of maternal education and paternal occupation. Donoso (2004) observed an association between child mortality and family income, showing that IMR in wealthier parts of Santiago de Chile was similar to that of developed countries (5.6 per 1,000 live births), while rates in poorer neighborhoods were comparable to national levels between 1984 and 1990. In a study of adolescent mothers, Buvinic et al. (1992) found that marital status and professional occupation of mothers were strong predictors of financial income and capacity to care for children. The study showed that adolescent mothers that did not receive support from the father of their child were at greater risk and, as a consequence, often had to enter the labor market under unfavorable conditions, thus leading to what Buvinic et al. (1992) call the “reproduction of poverty”.

Following healthcare developments, such as the sharp decrease in IMR, new investigations emerged in the 1990s focusing on child nutrition and stunted growth, particularly among the poor (Amigo, Bustos, Leon, & Radigrán, 2001; Castillo et al., 1993; Colombo et al., 1992; De Andraca et al., 1996; Ivanovic et al., 2000; Valenzuela, 1990, 1997). It was shown that malnutrition during the first year of life had a negative impact on cognitive level, IQ scores, and school results (Castillo et al., 1993; De Andraca et al., 1996; Ivanovic et al., 2000, 2008). In addition, Valenzuela (1990, 1997) found a significant association between malnutrition and low maternal sensitivity and a high risk of developing an anxious mother-child attachment in low-income families. Other results indicated that recovery from the cognitive and physical effects of malnutrition was better in children who grew up with their biological parents than in institutionalized children (Ivanovic et al., 2009; Colombo et al., 1992). In a study conducted to reveal the variables associated with stunted growth in school children, Amigo et al. (2001) showed that environmental factors, such as paternal alcoholism, lack of good health care, poor hygiene, malnutrition, and a short breastfeeding period, were factors contributing to stunted growth. This led to the introduction of programs to promote breastfeeding (Alvarado et al., 1999; Campos, Márquez, & Wilson, 2010; Uauy & De Andraca, 1995), which seem to have had positive effects, particularly in rural areas (Valdés et al., 1993). Adolescent mothers were found to be most likely to discontinue breastfeeding early (Barria, Santander, & Victorián, 2008).

Another important aspect of the sociocultural development of children is ethnic background. For example, several studies have analyzed physical growth and mental development in Mapuche children, the largest ethnic group in Chile that represents 4.6% of the total population. Bustos et al. (2001, 2009) and Amigo et al. (2010) reported that stunted growth and low weight in Mapuche children were not so much the result of hereditary differences but of conditions of poverty, and under ideal circumstances there should be no difference between anthropometric measures of indigenous and non-indigenous children, which is consistent with the results of studies reported in the WHO Child Growth Standards (WHO, 2006).
Childcare in the last decade: quality of living conditions and social and emotional wellbeing

Child care policies in the last decade have been aimed at improving children’s living conditions. Research has focused on evaluating the influence of the family and school environment on children’s emotional development and attachment.

One of the most important developments was the introduction of the program Chile Grows with You (Chile Crece Contigo) in 2007. This program formed one of the key pillars of social protection policies introduced by the Bachelet administration (Saracostti, 2010). The program was inspired by similar programs in the United States and United Kingdom, such as Head Start, and aimed to cover the period from gestation to preschool. Presently, the program is mainly geared to the most vulnerable groups of society, in which primary caregivers are subject to a high risk of mental health problems (Bedregal et al., 2010).

The program focuses not only on nutrition and physical health but also involves other initiatives such as early stimulation programs, improvements in children’s physical environment, parent education, guidelines for providing biopsychosocial support from pregnancy onwards (Saracostti, 2010). The aim is to improve both children’s physical and psychoemotional wellbeing to ensure greater equality of opportunity to improve development (Saracostti, 2010). In their recent evaluation report on Chile Crece Contigo, Bedregal et al. (2010) highlight the family and social aspects of children’s environment, such as the health of the principal caregivers (mainly mothers), and observed a high prevalence of risk factors such as low levels of social participation, stress and family violence.

The present focus of the early stimulation programs and health and child care policies in general clearly shows a shift from measures typical of developing countries on the road to overcoming poverty (the fight against high IMR, malnutrition and stunted growth) to those typical of developed countries, where investment in children’s wellbeing and equal educational opportunities take priority. There is no doubt that these efforts contributed enormously to the improvement of both health care and early education.

As mentioned above, research studies have focused more on the cognitive and social and emotional development of children. Various studies analyzed specific variables related to the family environment, such as the use of physical punishment. It was found, for example, that a rebellious attitude was the most frequent reason for physical punishment by parents of children attending private schools, while poor school results were the main reason for physical punishment by parents of children attending public schools (Chávez, Castillo, & Lozoff, 2008; Vargas et al., 1995). With respect to maternal depression and its relation to the mother-child relationship, several studies found that in poorer families child health risks are related more to the mother’s psychological characteristics than other factors, such as maternal malnutrition, education and lactation (Araya et al., 1996; Clark et al., 2006; Fritsch, Montt, Solís, Piłowski, & Rojas, 2007; Wolf, De Andracá, & Lozoff, 2002). In this respect, Fritsch et al. (2007) observed a high prevalence of depression in mothers of small children in Chile and Wolf et al. (2002) found that half of the children whose mothers suffered from depression had behavioral and emotional problems. Farkas & Valdés (2010) investigated the relationship between maternal stress and self-efficacy in a sample of high risk children under nine months of age attending day care centers and found that family characteristics such as the number of people living in the household, per capita income, and mother’s age were associated with maternal stress and perceived self-efficacy.

There are few publications about the quality of the family environment in the Chilean scientific literature. A study by Sanhueza (2006) demonstrated that the quality of stimulation in the family is a more relevant predictor for a child’s psychomotor development than economic conditions. Based on the results of the Home Observation for Measurement of the Environment (HOME; Cadwell & Bradey, 1984), he also noted that levels of stimulation were medium-high in 63% of families and high in 32% of families. These results are consistent with a previous study using HOME conducted by Bustos et al. (2001) which observed adequate levels of child stimulation in families and higher levels among children who attend private schools.

Different aspects of the quality of preschool education and factors contributing to educational achievement have also been the subject of recent studies (Herrera, Mathiesen, Merino, & Recart, 2005; Villalón, Suzuki, Herrera, & Mathiesen, 2002). Evaluations of the preschool learning environment using internationally tested instruments such as the Infant/Toddler Environment Rating Scale-Revised Edition (ITERS-R; Harms, Cryer, & Clifford, 2003), Early Childhood Environment Rating Scale (ECERS; Harms, Clifford, & Cryer, 1998), and School-Age Care Environment Rating Scale (SACERS; Harms, Jacobs, & White, 1996), were reported in only two studies, which explains why reliable information about the quality of day care centers is relatively scarce in Chile. The results of these studies showed that quality levels in the majority of day care centers (newborns to two-year-olds) and preschools (five to six–year-olds) were low or medium, with higher levels in private centers. With respect to four to five-year-olds, average levels in state day care centers belonging to the National Board of Preschools (Junta Nacional de Jardines Infantiles, JUNJI) were higher than in private day care centers. However, the highest levels of quality were found in private day care centers (Herrera et al., 2005; Villalón et al., 2002).

Research interest in children’s social and emotional development is recent. With the exception of two papers by Valenzuela (1990, 1997), all studies found were published in the last five years (Araneda, Santelices, & Farkas, 2010; De Aguiar, Santelices & Pérez, 2009; Lecannelier, Kimelman, González, Nuñez, & Hoffmann, 2008; Lecannelier et al., 2009; Pierrehumbert et al., 2009; Quezada & Santelices, 2010; Santelices, Olhaberry, Araneda, Tapia, & Perez-Salas, 2007; Santelices, Olhaberry, Perez-Salas, & Carvacho, 2010; Santelices et al., 2011). The investigations carried out by Valenzuela (1990, 1997) were the first in Chile to utilize the Strange Situation Procedure (SSP) to assess mother-child attachment. Furthermore, this author was the first to find an association between mother and child nutrition and the quality of infant-mother attachment in a high-risk sample and showed that severe malnutrition leads to a greater risk of developing anxious/resistant attachment and is related to low maternal sensitivity. Recent studies have shown that the distribution of attachment classifications in Chile’s...
population is comparable to international patterns. Roughly two-thirds of children experience secure attachment, and attachment security is greater in boys than in girls (Pierrehumbert et al., 2009) and in children born through vaginal delivery. It was also found that attending day care centers was positive for the development of children in terms of the quality of social interaction (Santelices et al., 2010).

These results contribute to the current political debate about lengthening the duration of maternity leave and encouraging the use of day care at a time when female labor force participation is encouraged as a way to help reduce poverty. Currently, about 43% of women in Chile are in the labor market and the number of children aged over three months in day care centers increased fivefold between 2006 and 2009. Medrano showed that in 2009 approximately 37.4% of preschoolers were receiving nonmaternal care, most of which on a full-time basis (Medrano, 2009). This and other issues, such as the quality of day care and its effects on children’s cognitive development and mother-child attachment, is the subject of heated debate. Although research focusing on these issues in Chile in underway, the number of studies remains insufficient.

Conclusions

This study discussed childcare policy and practice, and scientific research in four distinct periods of Chile’s history. The first period was characterized by the creation of a system to deal with abandoned children. Efforts during this period focused on decreasing infant mortality rates and increasing life expectancy. In the following period efforts focused on improving children’s basic living conditions and the main objectives were the improvement of child nutrition, disease prevention, and the fight against stunted growth. The third period coincided with the creation of a number of medical schools and research in the field of social sciences began to focus on child well-being. Childcare issues became a topic of intense political debate. However, this debate was abruptly interrupted by the military regime, which introduced a market oriented health care system. Recently, since Chile’s return to democracy, the emphasis has shifted to promoting children’s social and emotional development, as in other countries (cf. Clerckx & Van IJzendoorn, 1992). This period is what Kaempffer & Medina (1982) call stage C in the historical development of health care in developing countries characterized by overcoming economic problems, delivering sanitation solutions and the introduction of free basic health care. The contemporary program Chile Crece Contigo, which focuses on the promotion of new healthy habits, secure attachment and the improvement of children’s living conditions, is an example of recent developments. The most recent period is also characterized by an important increase in empirical studies concerning these issues and associated developments in childcare policy and practice.

It is evident that a number of variables reviewed by this study, including infant mortality, malnutrition, maternal education, stunted growth, ethnicity, quality of the home environment, maternal stress and sensitivity, are closely related and cannot be easily isolated. The relationship between these variables partly reflects a social structure inherited from colonial times characterized by strong social division and economic inequality. This situation condemns a substantial percentage of Chile’s population to live in conditions that have an adverse effect on children’s well-being, similar to other Latin American countries such as Argentina, Brazil, Bolivia and Nicaragua. Research has shown that a number of distal, intermediate and proximate factors are predictors of child health indicators such as infant mortality, malnutrition and stunted growth. Living conditions are important factors, especially in rural areas without adequate sanitation and sewerage, and piped water. Income and education play a role since they are determinants of nutrition, awareness and understanding of hygiene measures, number of siblings, and access to medical care. Finally, the introduction of comprehensive primary health care services providing preventive and curative care has proved effective in a number of countries such as Brazil (Alves & Belluzo, 2004; Behrman & Skoufias, 2004; Macinko, Guanais, & Marinho de Souza, 2006; Victora & Barros, 2001; Wolfe & Behrman, 1982).

It is still unclear whether the new government policy of promoting full-time day care for infants aged over three months will alleviate these problems and thus break the circle of inherited poverty. Attending day care centers may promote social and intellectual skills, but the effects of full-time day care on attachment are a cause for concern. Early and full-time day care attendance may hinder the development of secure mother-child attachment, especially where quality of day care and maternal sensitivity are low (NICHD 1997, 1999). This is worrying because insecure mother-child attachment may negatively affect children’s future emotional and cognitive development. Recent research interest in Chile in issues relating to attachment is promising but a deeper understanding of the long-term consequences of the new childcare policy is necessary.