Parental perception of psychophysical health, nutritional status and oral health in relation to sociodemographic characteristics in children in Bariloche, Argentina: an epidemiological study

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ABSTRACT

Introduction. There is evidence of an association between social determinants and child health. *Objective.* To identify sociodemographic characteristics related to child health inequalities and to analize the cumulative effect on health of risk factors based on these characteristics.

Population and Methods. We evaluated 4-13 year-old children in Bariloche between June 2008 and May 2009. The following sociodemographic characteristics were taken into account: socioeconomic level, maternal education, adolescent pregnancy, medical coverage, unsafeness, and family habits. We assessed parental perception of physical, and social and emotional health, nutritional status and oral health in relation to these characteristics and the accumulation of risk factors. We used survey, anthropometry and oral examination.

Results. One hundred and eighty students participated. The level of maternal education was associated with the child's physical, social and emotional, and oral health. The percentage of children with missing teeth or cavities reached 77% among those whose mothers had, at most, completed primary school, compared to 13% among those whose mothers had completed tertiary school or university.

The possibility of perceiving a non-optimal physical, and social and emotional health increased 1.8 and 1.4 times with each risk factor, respectively, and the possibility of having missing teeth or cavities was twice as much with each additional risk factor.

Overweight and obesity was observed in 27.3% and 8.7% of students, respectively, and no relationship was found with sociodemographic characteristics.

Conclusions. A low family socioeconomic level and a low maternal education level were associated with a higher prevalence of unfavorable health outcomes. Multiple risk factors have an cumulative effect on parental perception of physical, social and emotional, and oral health.

Key words: health inequalities, epidemiology, child health, Argentina.

INTRODUCTION

Child health has remarkably improved in the 20th century, among other things, because of the reduction in the incidence of infectious diseases and overall mortality.¹ However, such improvements were not the same in all countries nor in all regions within each country.²

Several investigations found disparities in different health aspects among the Argentine pediatric population. The relationship between a higher socioeconomic status and a better performance in developmental milestones has been well-established, even in studies conducted in Argentina.3-5 Like many other developing countries, Argentina is experiencing a significant increase in the prevalence of childhood overweight and obesity. Results in terms of the relationship between the lowest socioeconomic status and overweight and obesity have been inconsistent.

Although a few decades ago obesity was considered a problem of high-income social sectors, at present, it affects children from different social levels to a similar extent.⁶⁻¹⁰ In different regions of Argentina, it was determined that children whose families had a lower income had a high level of oral diseases.^{11,12} Child mortality rates vary depending on the population's socioeconomic status; being higher among groups with a high prevalence of unmet basic needs.^{13,14}

Epidemiological studies on child health indicators associated with living conditions allow to establish

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Received: 10-16-2014 Accepted: 4-13-2015 the extent and distribution of inequalities. Such knowledge is necessary to design health policies targeted at reducing such inequalities. At present, health is not only defined as the absence of disease, but as the condition of psychophysical and social well-being that allows individuals to develop and attain their full potential, meet their needs and develop skills to successfully interact with their environment.^{15,16} From this perspective, the assessment of child health requires considering a broad range of indicators.

The objective of this study is to identify sociodemographic characteristics associated with inequalities in parental perception of their children's physical and social and emotional health, nutritional status and oral health, and assess the cumulative effect of risk factors related to these health characteristics of the school-age population in the city of Bariloche.

POPULATION AND METHODS

This study was conducted based on an anonymous survey administered to the father or mother of 4-13 year-old children in Bariloche, together with children's anthropometric status and oral health examination (Annex 1). Surveys were administered at the 2 de Abril Health Center (one of the neighbourhoods with the lowest socioeconomic status in town), at outpatient offices of the health insurance provided by the Restaurant Workers Union and Trade Workers Union, and at a private pediatric clinic. It is assumed that families seen at these facilities are representative of the different social sectors in Bariloche. Children with chronic diseases that may affect their psychophysical development were excluded.

Since there were no previous local data on the distribution of health outcomes of interest, the sample size was estimated to be 200 children, accounting for approximately 1% of the 5-14 yearold population in Bariloche (2001 Census, INDEC). At the union health insurance outpatient offices and the private clinic, participants were randomly selected among patients with an appointment to see the pediatricians who were also authors of this article: one patient per day per pediatrician. At the Health Center, surveys were administered by one of the pediatricians on different days and times. Interviews were conducted between June 2008 and May 2009. Mothers and fathers were invited to participate, received information on the project, and were asked for their oral consent. The research protocol was approved by the Teaching and Research Committee of the *Bariloche Regional Hospital*.

The survey was developed based on the United States' 2003 National Survey of Children's Health.^{17,18} It was used as a reference given the varied health aspects covered and because it asks about parental perception on their children's health.

Child health outcomes

Health outcomes were parental perception of their children's physical and social and emotional health, nutritional status, and oral health.

- Physical health. As per parental perception, children's health status was classified by the surveyed parent as excellent, very good, good, fair or poor. For analysis purposes, health status was classified into optimal (very good/excellent) or non-optimal (poor/fair/ good).
- Social and emotional health. Fathers/ mothers were asked whether they were concerned about their child's behavior, academic performance, ability to understand instructions, relationship with other children and adults (teachers, parents, etc.), depression or anxiety, ability to solve conflictive situations, and manner of speech. The total number of topics that concerned the surveyed parents was estimated. Answers were divided into quartiles; children in the upper quartile were considered to have a non-optimal social and emotional health. Parental concern has a high predictive value on social and emotional health.^{19,20}
- Nutritional status. Children's weight was recorded using a CAM standing scale; an altimeter was used to measure heights over 110 cm and an infantometer for heights below 110 cm. Based on their body mass index (BMI), children were categorized as eutrophic (normal weight), overweight, obese or thin according to the international reference from the Obesity Task Force.^{21,22} For analysis purposes, children were grouped as overweight or obese (yes/no).
- **Oral health.** A physician verified the presence of cavities or missing teeth resulting from an intentional tooth extraction by a dentist due to oral disease (yes/no).

Sociodemographic characteristics

Sociodemographic characteristics included family affluence scale (FAS), maximum education

level attained by the mother, adolescent pregnancy, type of medical coverage, unsafe neighborhood or school, single-parent household, reading habit, and time spent in front of the TV and/or computer.

- Family affluence scale. A model similar to the one proposed by Currie, et al.²³ was used; it consists of considering a set of items reflecting the level of family expenditure. The number of affirmative answers to the following items was recorded: the family has a car, a computer, does not receive social benefits, the child went out on vacations at least once in the past year, and the child shares the bedroom with less than three persons. High values were associated with a higher family affluence scale. Categories: low (0 or 1), middle (2, 3 or 4), or high (5).
- Maximum education level attained by the mother. The following categories were considered: no education/primary, secondary, tertiary/university.
- Adolescent pregnancy. It refers to pregnancy in a woman younger than 19 years old.
- **Type of medical coverage.** The following categories were considered: no coverage, group health plan funded by a labor union, HMO plan.
- Unsafe neighborhood or school. Parental perception regarding how safe the child is in the neighborhood or school. As per the survey, this was classified into never, sometimes, always or usually. For analysis purposes, this was divided into never/sometimes versus always/usually.
- **Single-parent household.** A household made up of only one of the child's parents.
- **Reading habit.** A child who read or had a family member read to him/her a short story or part of a novel at least once during the past week was considered as having a reading habit.
- **Time spent in front of the TV.** Children were classified as exposed to TV or computer for three or more hours a day o less than three hours a day.

The following risk **factors were considered**: low FAS, no education/primary school as the maximum education level attained by the mother, adolescent pregnancy, lack of medical coverage, dangerous neighborhood or school, single-parent household, not having a reading habit, and spending three or more hours per day in front of the TV or computer.

Statistical analysis

Mean age and standard deviation of studied children and the percent distribution of health outcomes and sociodemographic characteristics were established.

For each health outcome, the relationship of sociodemographic characteristics was studied separately, and the possibility of such outcome having an unfavorable result was considered using Pearson's chi-square test.

The association between the number of risk factors and health outcomes was assessed using a logistic regression model.

Data were processed and analyzed using the R 3.1.1 statistical package.²⁴

RESULTS

One hundred and eighty children participated: 53 from 2 de Abril Health Center, 61 from the outpatient offices of the health insurance provided by the Restaurant Workers Union and Trade Workers Union, and 66 from a private pediatric clinic. No family refused to be interviewed. Children's mean age was 8.1 years old (standard deviation: 2.8 years old), and 51% were of male sex. Mothers were interviewed in 80% of cases. Descriptive statistics of health outcomes, sociodemographic characteristics and number of risk factors are shown in Table 1. Thirty-six percent of parents perceive their children have a non-optimal physical health, while 23% perceive that they have a non-optimal social and emotional health. Among children, 36% are overweight or obese, and almost 50% have cavities or missing teeth. Most children (83%) had one risk factor; approximately 50% had two or more, and 28% had four or more risk factors.

Table 2 shows there is a gradient in the likelihood of children having a non-optimal physical health in relation to the FAS, which is 9% with a high FAS and 79% with a low FAS. A similar pattern is observed in relation to social and emotional health and oral health, but not in terms of overweight or obesity (p= 0.134). Tertiary/ university maternal education is associated with fewer possibilities of having a non-optimal physical health, both when compared to children whose mothers completed secondary school and to those whose mothers received no education or only completed primary school. Pediatric oral health inversely worsens with maternal education, and goes from 77% in children whose mothers completed at most primary school to 13% in those whose mothers completed tertiary school

or university. No significant differences were found in the prevalence of overweight or obesity in relation to the studied factors.

Figure 1 shows the effect of risk factor accumulation on child health. The percentage of children with non-optimal physical health among those without risk factors was approximately 10% and gradually increased to 90% among those with six or more risk attributes. The logistic regression model was adjusted considering non-optimal physical health as a dependent variable (yes= 1; no= 0) and the number of risk factors as an independent variable. The odds ratio was estimated to be 1.8 (p < 0.001). The possibility of parental perception of non-optimal physical health increased 1.8 times with each additional risk factor. In the group of children without risk attributes, less than 5% of children had a non-

optimal social and emotional health, compared to 50% among those with five or six risk factors. Parental perception of non-optimal social and emotional health increased 1.4 times (p < 0.001) with each additional risk factor.

The odds ratio of the logistic regression model with the overweight or obesity variable was not significant.

The number of risk factors also accounts for oral health. Each additional risk factor doubled (p < 0.001) the possibility of having cavities or missing teeth.

DISCUSSION

Health inequalities are a global problem.² The World Health Organization defines health inequality as "unnecessary, avoidable and unjust health disparities."²⁵ Thus, in operational terms,

TABLE 1. Health outcomes, sociodemographic characteristics and number of risk factors among students in Bariloche (n= 180)

Characteristic	Categories	n (%)	
Health outcomes			
Physical health*	Excellent	46 (25.3)	
,	Very good	69 (38.2)	
	Good	61 (33.7)	
	Fair	4 (2.2)	
	Poor	1 (0.6)	
Social and emotional health*	Non-optimal	41 (22.8)	
Nutritional status	Normal	109 (60.5)	
	Thin	6 (3.5)	
	Overweight	49 (27.3)	
	Obesity	16 (8.7)	
Cavities or missing teeth	Yes	89 (49.4)	
Sociodemographic characteristics			
Family affluence scale	Low	28 (15.7)	
5	Medium	91 (50.6)	
	High	61 (33.7)	
Maximum education level attained by the mother	No education or primary school	79 (44.1)	
,	Secondary school	53 (29.6)	
	Tertiary school or university	47 (26.3)	
Adolescent pregnancy	Yes	47 (26.2)	
Type of medical coverage	None	46 (25.8)	
Gr	oup health plan funded by a labor union	91 (50.6)	
	HMO plan	42 (23.6)	
Unsafe neighborhood or school	Yes	76 (42.2)	
Single-parent household	Yes	55 (30.7)	
Reading habit	No	88 (48.9)	
Time spent in front of the TV	3 or more hours	28 (15.7)	
Number of risk factors	0	30 (16.7)	
	1	52 (28.9)	
	2	27 (15.0)	
	3	20 (11.1)	
	4	20 (11.1)	
	5	12 (6.7)	
	6	12 (6.7)	
	7 or 8	7 (3.9)	

* Parental perception of nutritional status.

health equality consists of minimizing avoidable disparities together with their determinants among people with different levels of privilege or advantages.²⁶ The first step to address this problem is to identify disparities and their determining factors. This study identified important health gaps in the child population in Bariloche in relation to studied health aspects, except for the nutritional status.

Maternal education level showed a significant association with physical, social and emotional, and oral health, and increased the prevalence of unfavorable health outcomes through a reverse relationship with the level of education. The level of maternal education is connected to childrearing: feeding, ability to create an environment where learning and knowledge are encouraged, and commitment with preventive measures in relation to dental care, among other things. In addition, it is an indicator of health literacy, which is relevant because low literacy in health interferes with the communication between health care providers and patients, makes treatment understanding difficult, and has an impact on treatment dropout.²⁷ In this sense, it is important to have policies that promote continuous education among youth and adults, and health programs such as the ProSanE, a school health program that proposes medical and oral examinations for all students from first to sixth grade.²⁸

Cavities are one of the most common chronic diseases during childhood. Several studies have found a relationship between maternal education and oral health.^{11,12,29}

Among children whose mothers had completed at most primary school, 77% had cavities or missing teeth, compared to 40% among those whose mothers had finished secondary school, and 13% among those whose mothers had completed tertiary school or university. These results evidence an urgent need to implement

Sociodemographic characteristics	Physical health:* non-optimal	Social and emotional health:* non-optimal	Overweight or obesity	Cavities ormissing teeth
Family affluence scale	p < 0.001 78.6	p < 0.001	p= 0.134 30.4	p < 0.001 82 1
Medium	42.7	23.3	43.7	60.0
High	8.5	6.7	28.3	18.3
Maximum education level				
attained by the mother	p < 0.001	p < 0.001	p= 0.053	p < 0.001
No education or primary scho	ol 59.0	38.0	46.6	77.2
Secondary school	30.2	17.0	28.8	39.6
Tertiary school or university	4.3	4.3	28.3	12.8
Adolescent pregnancy	p=0.003	p=0.167	p= 0.450	p= 0.004
Yes	59.3	35.7	42.3	75.0
No	25.3	20.3	31.6	40.5
Type of medical coverage	p < 0.001	p= 0.001	p= 0.179	p < 0.001
None	60.0	41.3	39.0	78.3
Group health plan funded				
by a labor union	37.1	18.9	40.9	51.1
HMO plan	7.1	9.5	24.4	11.9
Unsafe neighborhood or school	p < 0.001	p= 0.010	p= 0.114	p < 0.001
Yes	56.0	32.9	43.7	72.4
No	22.3	15.4	30.7	32.7
Single-parent household	p < 0.001	p= 0.263	p= 0.805	p= 0.04
Yes	58.2	29.1	34.0	61.8
No	27.0	20.2	37.3	44.4
Reading habit	p= 0.246	p= 1	p= 0.350	p= 0.007
No	41.4	22.7	40.2	60.2
Yes	31.9	22.8	32.2	39.1
Time spent in front of the TV	p= 0.041	p= 0.551	p= 0.182	p < 0.001
More than 3 hours	55.6	28.6	50.0	25
Less than 3 hours	32.9	21.3	34.0	42.7

TABLE 2. Percent distribution of unfavorable health status among students in Bariloche in relation to sociodemographic and family characteristics (n= 180). Comparison using a Chi-square test

* Parental perception of nutritional status.

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oral health promotion and prevention programs. This disease is as common as it is preventable through daily teeth brushing and controlled candy consumption.³⁰

Overweight and obesity prevalences were high: 27.3% and 8.7%, respectively. However, such prevalences are similar to those observed in other assessments on child nutrition conducted in different Argentine regions, where percentages ranged from 10.9% to 25.6% for overweight, and from 3.8% to 13.8% for obesity.^{78,31}

Although no comparative studies have been conducted, this problem tends to be worse in the Patagonian region.⁸

Like other studies conducted in Argentina, no relationship between nutritional status and studied sociodemographic characteristics was observed.^{68,10} This may be related to the consumption of high-calorie foods and the lack of physical activity. Considering its high prevalence, obesity should become a priority for public health.

Overweight children tend to become obese adults; therefore, preventing child obesity entails preventing adult obesity. Adult obesity is a risk factor for chronic diseases, for example, hypertension, heart problems and diabetes, which are major determinants for early morbidity and mortality during adulthood. School programs that promote changes in children and family eating habits are essential to establish long-lasting healthy eating patterns and lifestyles.^{32,33}

The type of health insurance shows a significant association with social and emotional health: 40% of children with no medical coverage have a non-optimal social and emotional health.

FIGURE 1. Percentage of school-aged children in Bariloche with an unfavorable health outcome in relation to the number of risk factors



At present, the Bariloche regional hospital offers no pediatric psychology services. This suggests that children who need such care have problems receiving it.

The scope of this study is restricted due to sample representativity limitations. In addition, only one pediatrician administered the surveys at the 2 de Abril Health Center and, even though the interview had been carefully planned among healthcare providers, this may be indicative of a source of research bias. However, this study makes an important contribution to knowledge regarding local health inequalities, which have not been addressed in previous studies. These results reveal the need to pay attention to child health in the city of Bariloche, especially oral health, in order to avoid further deterioration of disadvantaged sectors.

We found that each sociodemographic characteristic is independently associated with some of the studied health outcomes. In addition, we detected that the possibility of having unfavorable health outcomes increases gradually with the number of risk factors. These results are consistent with those observed in other studies on the importance of the total number of risk factors on child health.^{18,34} In this regard, social and health programs that address the concurrence of multiple factors are expected to strongly influence child health.

Health problems have an impact on children's academic performance and are also associated with a higher possibility of adolescent pregnancy, criminal activities, unemployment, and adult depression.³⁵ Epidemiological knowledge gained will allow to guide program planning in the field of health and social welfare aimed at reducing health inequalities in Bariloche and other similar locations. Besides, such knowledge will be the basis for developing research projects in relation to child health inequalities.

CONCLUSIONS

Major gaps in child health were observed in the studied sample of students in Bariloche.

Multiple risk factors have a cumulative effect on general, social and emotional, and oral health. The possibility of having a non-optimal health status increases 1.8 times with each risk factor. The risk of social and emotional problems is 1.4 times higher with each risk factor, while the possibility of having cavities or missing teeth is twice as high.

Overweight and obesity prevalences

reached worrying proportions: 27.3% and 8.7%, respectively. ■

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Annex 1

Child psychophysical health status in relation to the socioeconomic status: interdisciplinary exchange, Centro Regional Universitario Bariloche – Bariloche Health Centers

Date:	Survey taker:			
Site:				
Reason for consultation	n: Follow-up	Medical certificate		
	Others (specify):			
Date of previous consu	iltation (as per medical record	l):		
_	_			
Identifying information	on			
1. Age: years old				
2. Date of birth:	Does not know			
3. Birth weight:				
Less than 2.5 kg	More than 2.5 kg	Does not know		
4. Preterm infant?				
Yes	No	Does not know		
5. Gender:	Female	Male		
6. Attending school:				
Public 🗌 I	Private 🗌 Not atte	ending school 🗌 Does not know 🗌		
7. School grade:	Does not know			
8. Number of siblings (from the same mother)?			
9. Person accompanyin	ig the child:			
Mother 🗌	Father	Others (specify):		
10. Mother's age:	years old Decease	ed Does not know		
11. Mother's age when	she had her first child:			
Younger than 15 years	ars old 🗌 16 to 18 year	rs old 19 to 25 years old		
26 to 35 years old	Older than 3	35 years old Does not know		
12. Maternal education (check the highest completed level):				
No education	Primary school	Secondary school 🗌 Tertiary school 🗌		
University	Does not know	Others:		
13. Paternal education (check the highest coleted level):				
No education	Primary school	Secondary school 🗌 Tertiary school 🗌		
University	Does not know	Others:		
14. Does the child live a	at home with his/her mother	and father?		
Yes	No 🗌	Does not know		
15. Any family member is of Mapuche descent?				
Yes	No 🗌	Does not know		

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Physical and oral health	
1. Weight: kg	Date measured:
2. Height: cm	Date measured:
3. Cavities:	
Yes 🗌 No 🗌	Does not know
4. Missing teeth:	
Yes 🗍 No 🗍	Does not know
5. Complete vaccinations as per the Na	itional Immunization Schedule:
Yes No No	Does not know
6. Varicella vaccine:	
Yes 🗌 No 🗌	Does not know
7. Hepatitis A vaccine:	
Yes No No	Does not know
8. Overall, how would you describe th	e child's health?
Excellent Very good	Fair Poor Does not know
9. How would you describe the child's	dental condition?
Excellent Very good	Fair Poor Does not know
10. Child's eating habits:	
Excellent 🗌 Very good 🗌	Fair Poor Does not know
11. How long was the child breastfed?	
Never Less th	nan 1 month 1 to 3 months 3 to 9 months
More than 9 months Does r	not know
12. During the past week, how many d that made him/her sweat or breathe h	lays did the child do physical exercise for more than 20 minutes ard?
0 days 🗌 1-3 days 🗌 4-6	6 days 🗌 Everyday 🗌 Does not know 🗌
13. During the past year, about how m	any days did the child miss school because of illness or injury?
0 days 1-5 days 6-1	0 days More than 11 days Does not know
14. During the past 12 months, did the	child get hurt and required medical care?
Yes No	Does not know
15. During the past 12 months, has the	child been admitted to the hospital?
Yes No	Does not know
16. Reasons for hospitalization during	the past 12 months (check all that apply):
Respiratory disease	
Trauma or injury	
Surgical pathology	
Dental infection	
17. During the last 12 months, has the	child suffered any burn?
Yes 🗌 No 🗌	Does not know

Emotional and mental health

1. Please indicate whether you are concerned or not in relation to the following.

	Concerned	Not concerned
How the child behaves		
How the child does in school		
How the child relates with other children		
How other students treat the child		
How teachers and other adults treat the child		
The child's relationship with his/her mother		
The child's relationship with his/her father		
How the child understands instructions given to him/her		
Depression or anxiety in the child		
Violence in the house, school or neighborhood		
Drug abuse		
Alcohol abuse		
Eating disorders in the child		
How the child solves conflictive situations		
The child's manner of speech		
Health insurance		
1. What kind of medical coverage does the child have?		
HMO plan Group health plan funded by a labor unior	None D	Does not know
2. During the past 12 months, did the child lack medical covera	age for any given per	riod?
Yes No I	Does not know	
3. Does the child's medical coverage include visits to the dentis	st and dental work?	
Yes No I	Does not know 🗌	
4. In general, when you make a not urgent appointment to see	the child's doctor, it	takes place:
On the same or next day 3 to 5 days 1	ater]
6 to 15 days later	5 days later	
Preventive medicine and alternative medicine	la stan fan e skaslwer?	
1. During the past 12 months, have you taken the child to the c	loctor for a checkup:	
2 During the next 12 mention have read taken the shill to the	Does not know	
2. During the past 12 months, have you taken the child to the c		<u>{</u>
2 During the most 12 months have your taken the shild to the	Does not know	1.2
3. During the past 12 months, have you taken the child to the c		CK (
1 During the most 12 months have mean times did over tales the	Does not know	a surith and
4. During the past 12 months, now many times and you take th an appointment?	e child to see a docto	or without
$0 \qquad 1 \qquad 2 \text{ or more} \qquad 1$	Does not know	
5. Does the child have a doctor who knows him/her well and i	s aware of his/her n	edical history?
Yes No	Does not know \square	
6. During the past 12 months, have you attended an alternativ	e medicine practice f	or your child his/
her siblings or you or your partner?	Practice I	<i>j = =</i>
No Homeopath	Heale	r
Others (specify):		

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7. Do you use medicin	nal herbs to trea	at the child?		
Yes	No		Does not know	
School and recreation	nal activities			
1. During the past 12	months, did the	e child participate in i	relatively organized	sports activities
or take lessons beyon	d what is requi	red at school?		
Yes	No		Does not know	
2. During the past 12	months, did the	e child participate in a	any other activity or	organized event?
Yes	No [Does not know	
3. On a school day, all for pleasure beyond s	oout how much school requirem	n time does the child nents?	read or has another	person read to him/her
0		ess than 15 minutes	15 to 30	minutes
30 to 60 minutes		lore than 1 hour	Does no	ot know
Health and family ac	tivities			
1. In general, how wo	uld you describ	oe the mother's health	ו?	
Excellent 🗌 Ve	ry good	Good 🗌 Fai	r 🗌 Poor 🗌	Does not know
2. Does the mother ta	lk to her childre	en?		
Every day	Sometim	les	Never	Does not know
3. Does the mother se	t limits to her c	hildren?		
Always	Sometim	les	Never	Does not know
4. Does any househol	d member smo	ke?		
Yes	No [Does not know	
5. Does any household	d member have	e problems with alcoh	nol?	
Yes	No		Does not know	
6. On a work day, abo	out how much t	time does the mother	spend with her child	1?
Less than 2 hours More than 8 hours	;	2 to 4 hours Does not know	4 to 8	3 hours
7. Does any household	d member have	e a car?		
Yes	No [Does not know	
8. How many people	share the bedro	oom with the child?		
None 🗌	1	2	3 or more	Does not know
9. During the past 12 than 3 days?	months, how n	nany times was the cl	hild on vacations ou	tside Bariloche for more
None 🗌	1	2	3 or more	Does not know
10. How many compu	aters are there i	n the house?		
None 🗌	1	2 or more	Do	bes not know
11. the past 12 months unemployment benefi PESA [Social Emerger	s, has any house it, Habitar en Fa ncy Food Progr	ehold member receive amilia [a housing allov ram]).	d any type of benefit wance], Comer en far	or food allocation? (E.g., milia (a meal allowance),
Yes	No [Does not know	
12. During the past we	eek, have you o	or has a family membe	er taken the child out	(park, friends' or family
member's house, hill,	lake, restauran	nt, etc.)?		
No 🔄 1-3 ti	mes	4-6 times 🔄	7 or more times	Does not know

13. Last week how to the child a short	y many days did the o t story or part of a no	child read on his/ho vel?	er own or you or other	family member read
None 1	-3 days	4-6 days	Every day	Does not know
14. In the past wee	ek, how many days d	id all family membe	ers eat a meal together	?
None 1	-3 days	4-6 days	Every day	Does not know
15. The last day th	e child attended scho	ool, did he/she eat l	preakfast before going	to school?
Yes	No 🗌		Does not know]
16. On a school da	y, how many hours o	loes the child spend	d watching TV, videos,	, or playing
computer games?				
None 🗌 🛛 Le	ess than 1 hour	1-3 hours	4 or more hours	Does not know
17. In the past week, was the child alone in the house, even for a short period?				
Yes	No		Does not know]
18. How many hours does the mother work outside the house?				
None L	ess than 4 hours 🗌	4-8 hours	8 or more hours	Does not know
19. During the past 12 months, has anyone in the family been asked to leave his/her job or make an important job change in order to look after the child?				
Yes	No		Does not know]
20. How often do you feel the child is safe in your neighborhood?				
Never	Sometimes	Usually	Always 🗌	Does not know
21. How often do you feel the child is safe in school?				
Never	Sometimes 🗌	Usually	Always 🗌	Does not know