



*Day Care  
Attendance  
Prevents Early  
Chronic Physical  
Aggression*

**Sylvana Côté**  
*University of Montréal, GRIP,  
CHU Sainte-Justine*

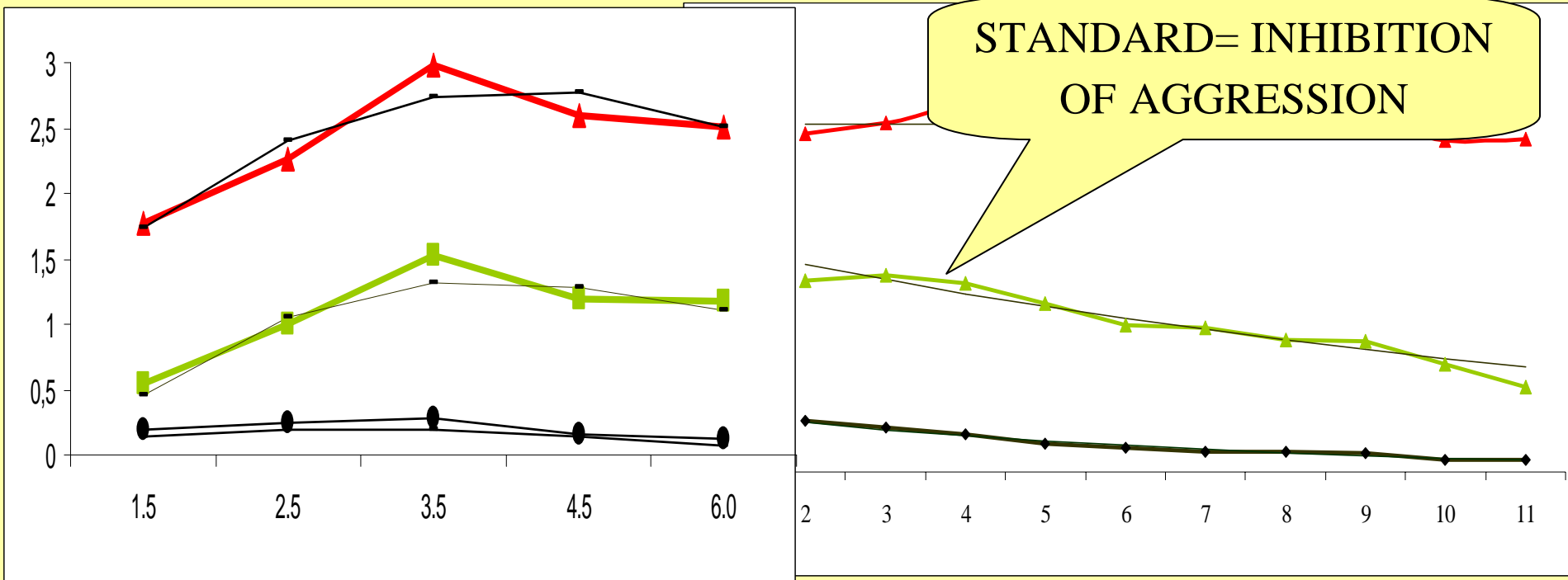
# Overview

1. The development of aggression
2. The protective role of non-maternal care
3. The enhancing role of non-maternal care

# DEVELOPMENT OF PHYSICAL AGGRESSION 1.5 TO 17 YEARS

N=2 223  
ELDEQ

N=10 658  
ELNEJ



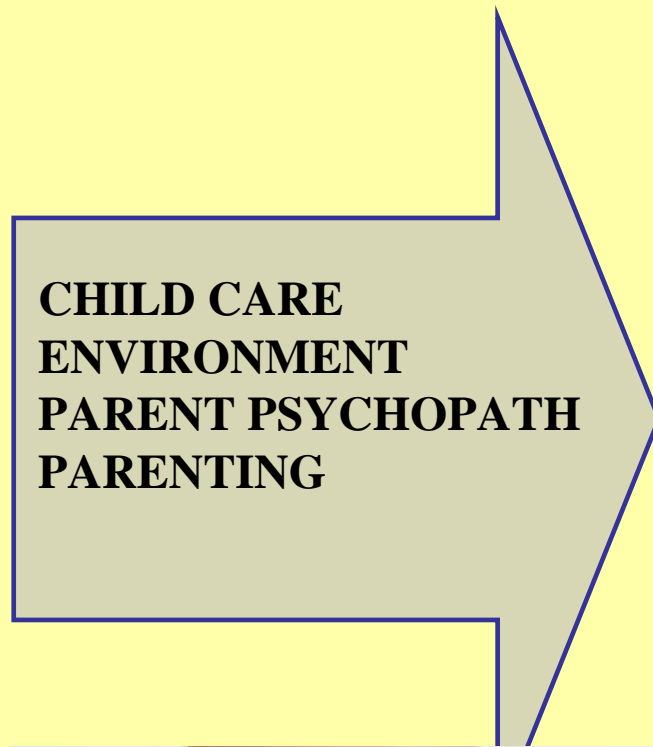
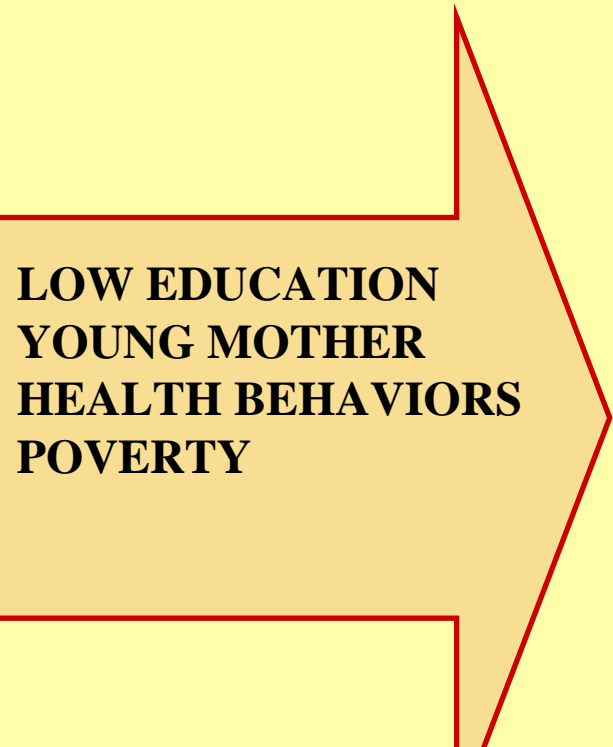
# Most children learn self-control under normal environmental conditions

- But some risk factors interfere with learning

# PRE-NATAL

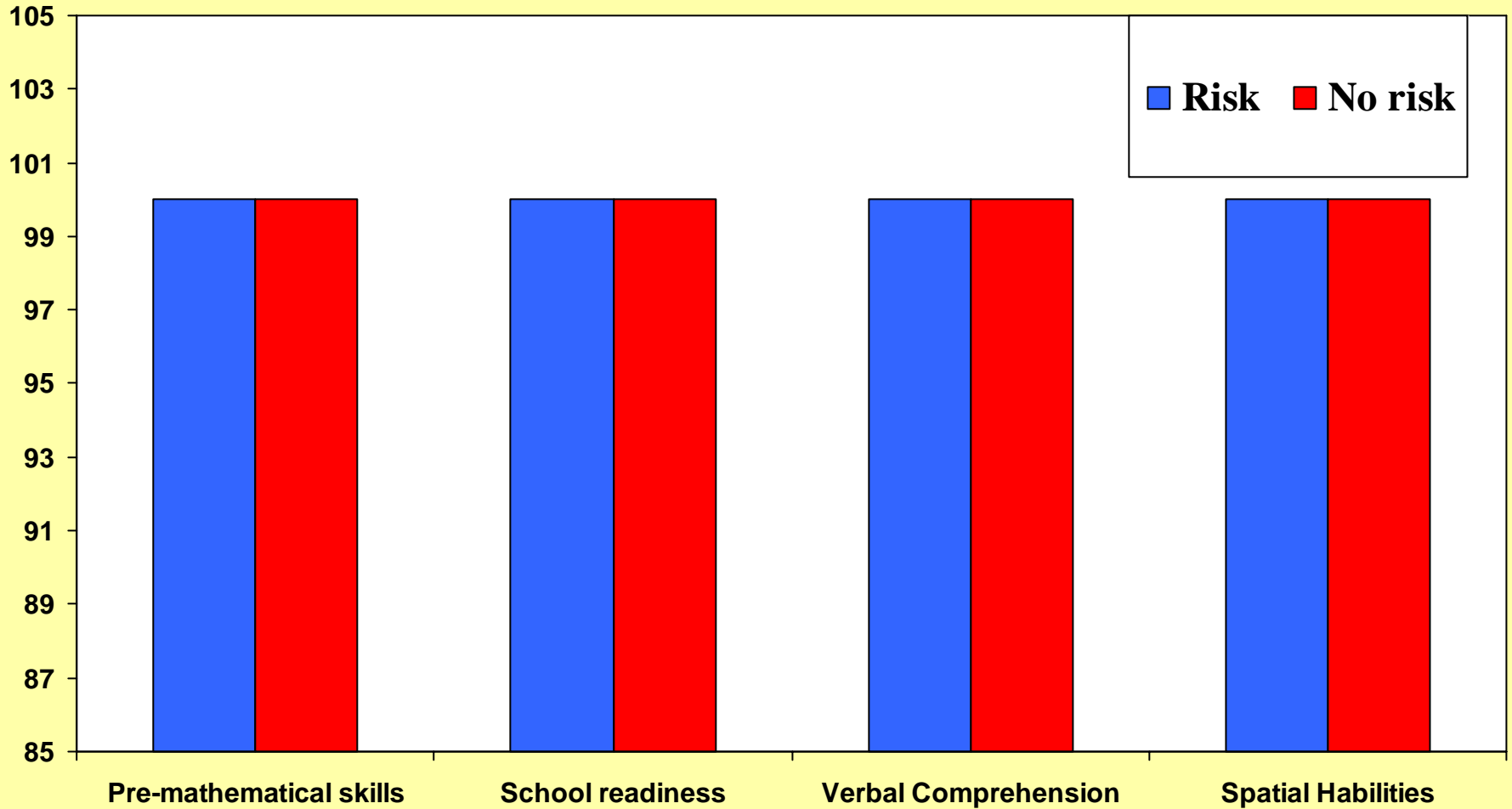
# INFANCY

# CHILDHOOD

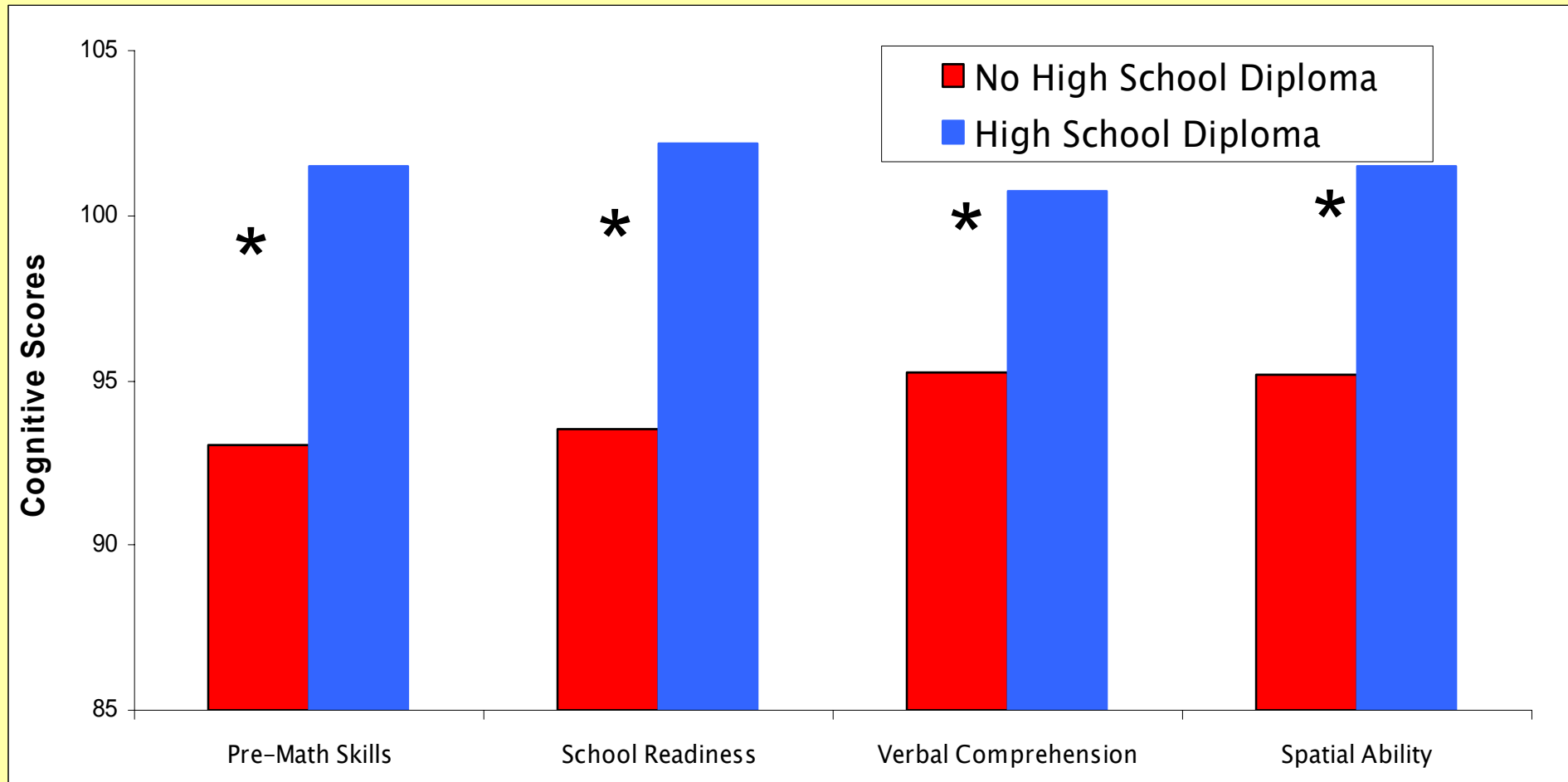


# Ideal:

## NO COGNITIVE DISPARITIES



# REALITY: COGNITIVES DISPARITIES AT 6

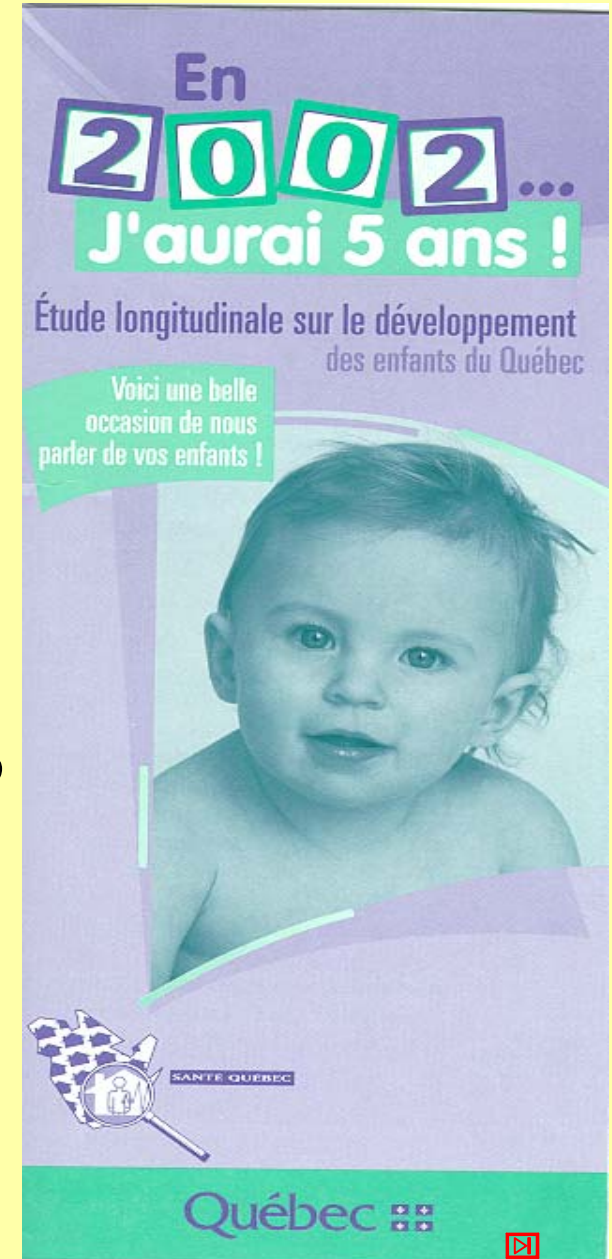


Geoffroy, et al. 2008

## 2. The protective role of non-maternal care

# Quebec Longitudinal Study of Child Development

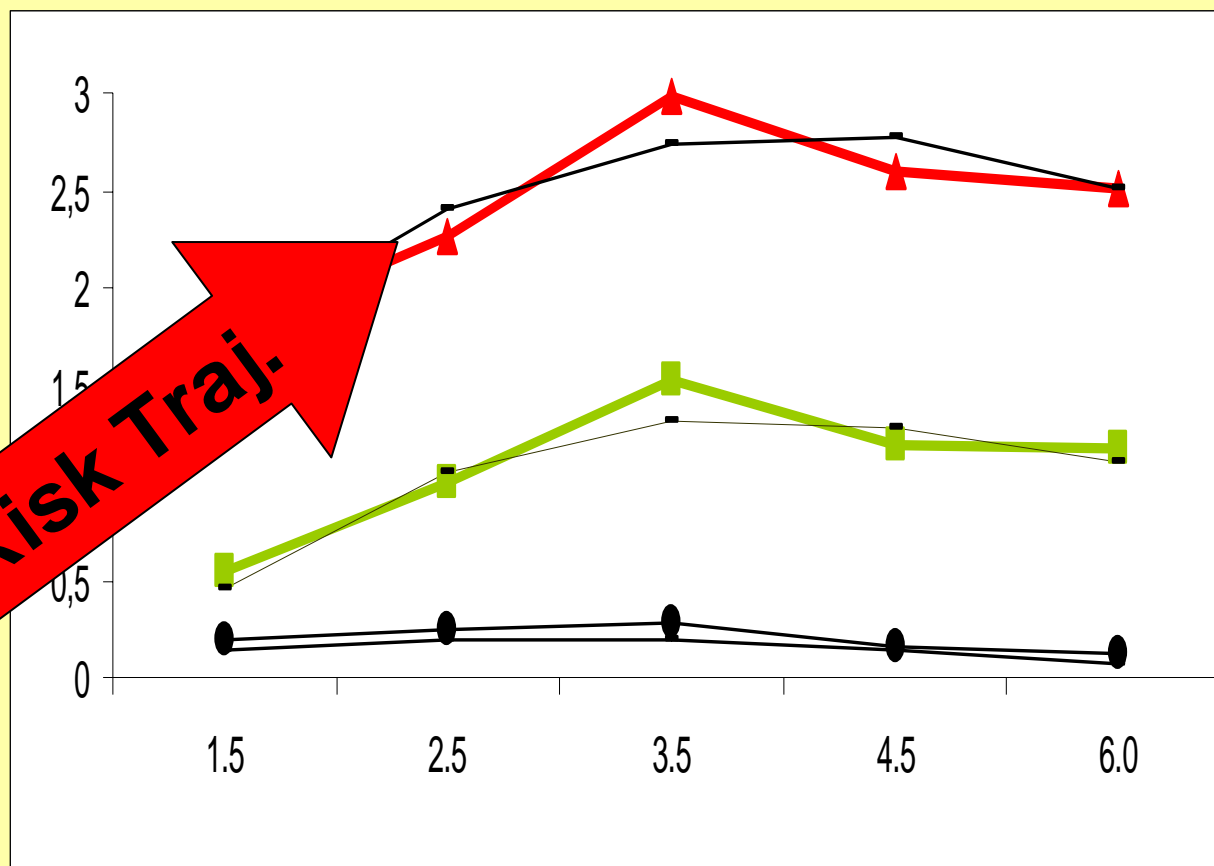
- **Children born in 1997-1998**
- **Representative of Québec**
- **n=2100**
- **9 assessments**





# Protection by Child Care for High-Risk Children: Physical Aggression (N=1691)

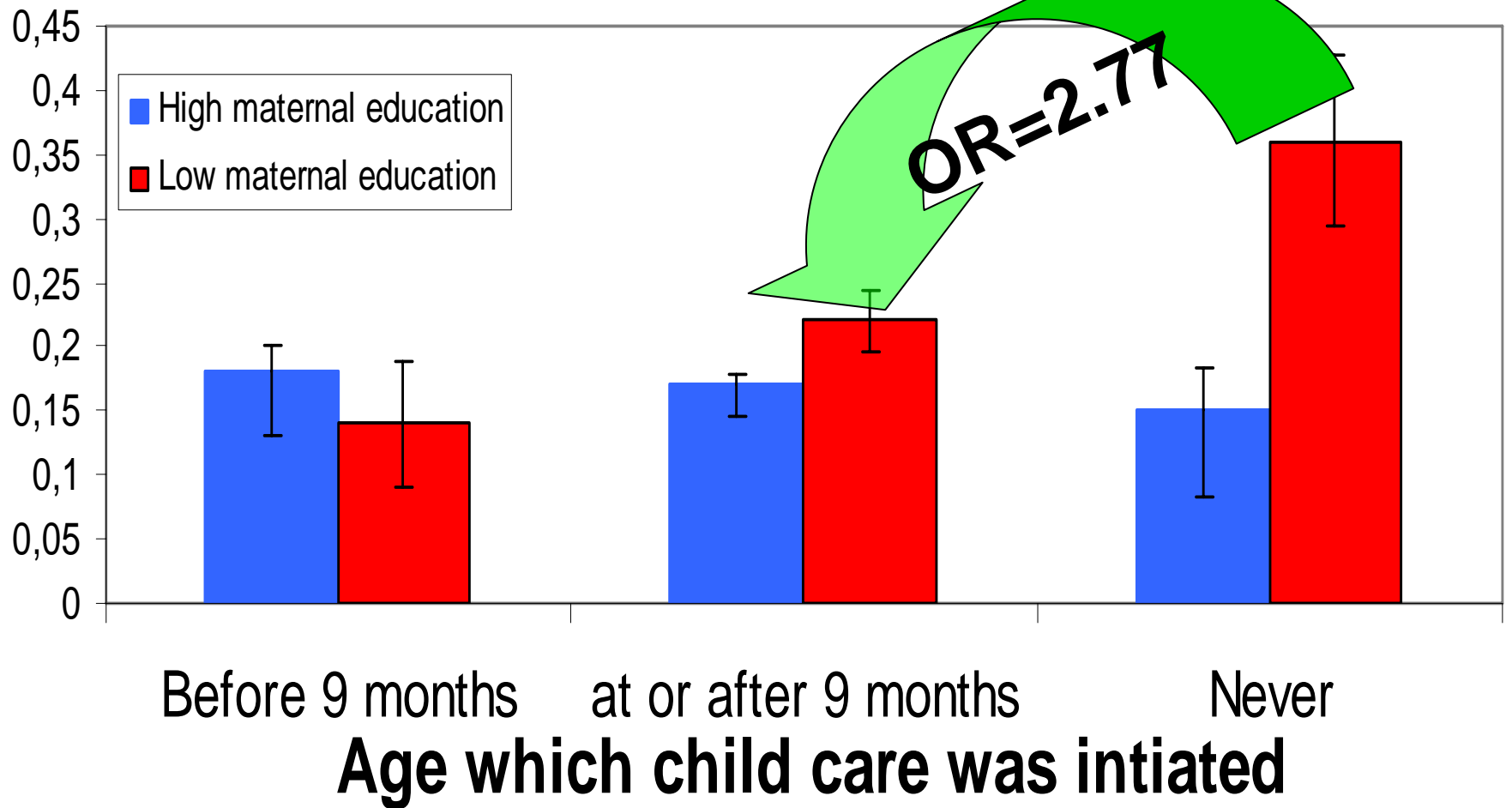
QLSCD: N=1691





# Protection by Child Care for High-Risk Children: Physical Aggression (N=1691)

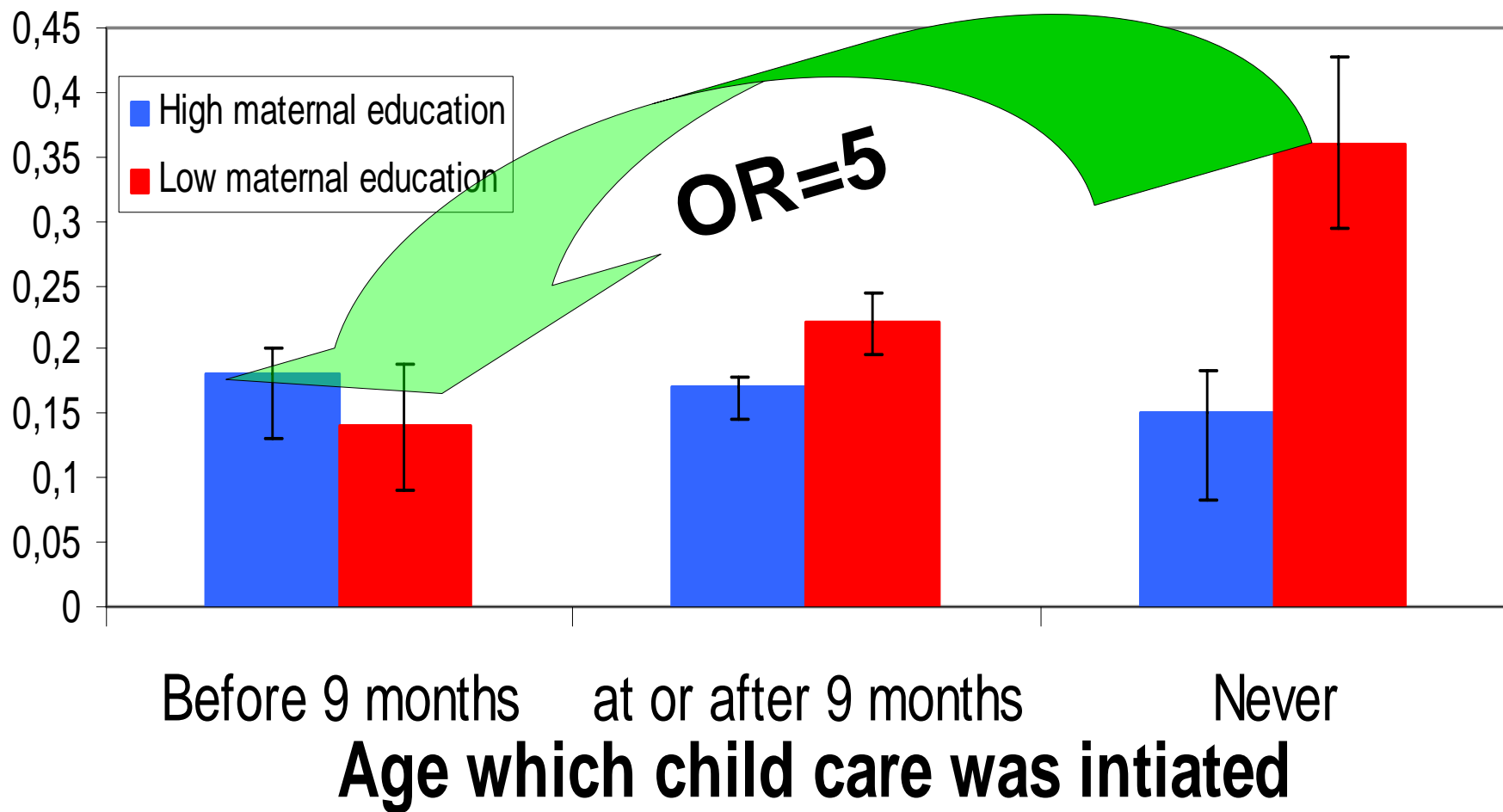
QLSCD: N=1691





# Protection by Child Care for High-Risk Children: Physical Aggression (N=1691)

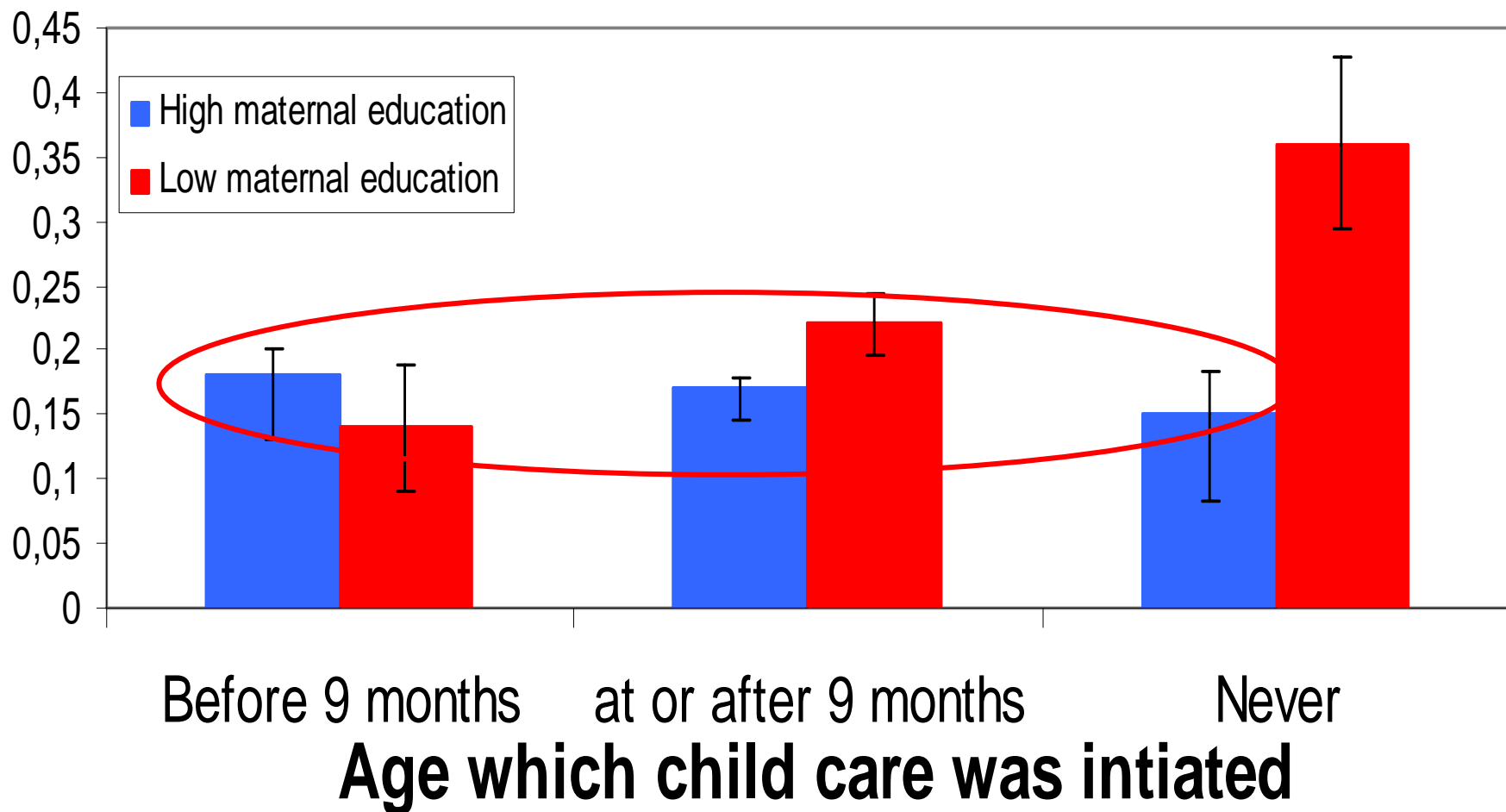
QLSCD: N=1691





# Protection by Child Care for High-Risk Children: Physical Aggression (N=1691)

QLSCD: N=1691



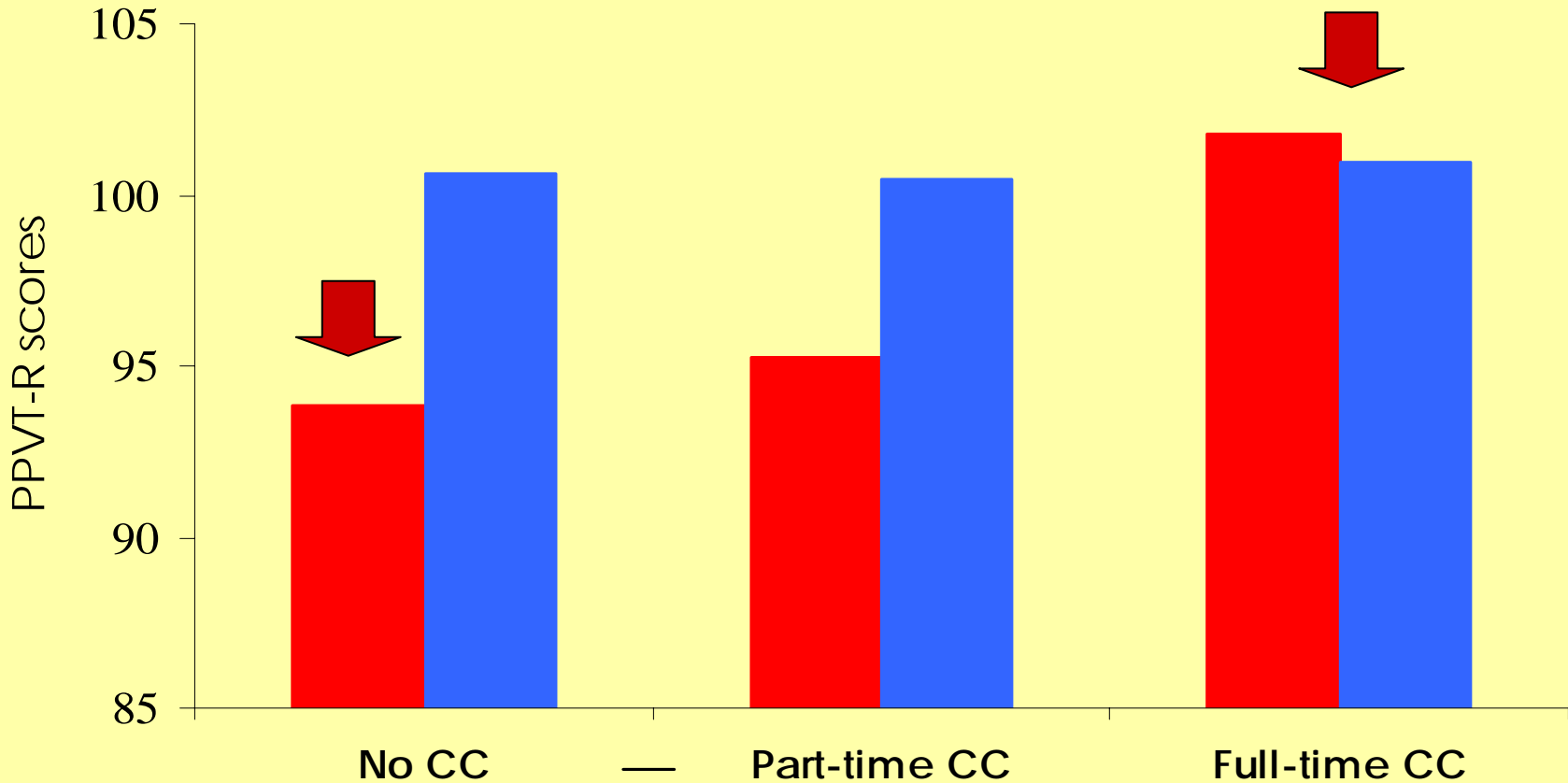
# Why this protection?

- Opportunities for socialization
- Reduction of exposition to family risks

## 2. The enhancing role of non-maternal care

# DEVELOPEMENT OF LANGUAGE

NLSCY, N = 2 297

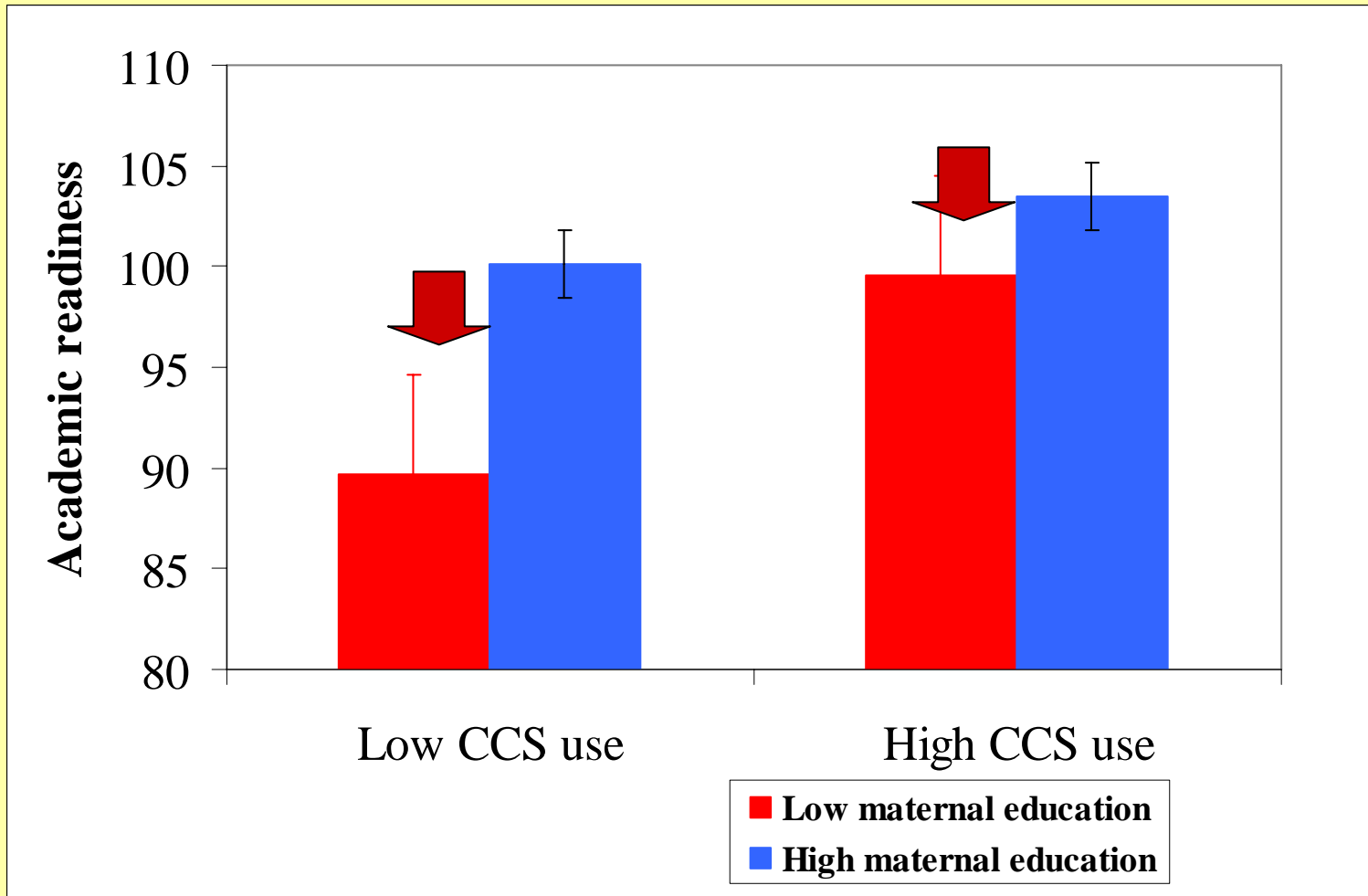


**CC= FIRST YEAR**

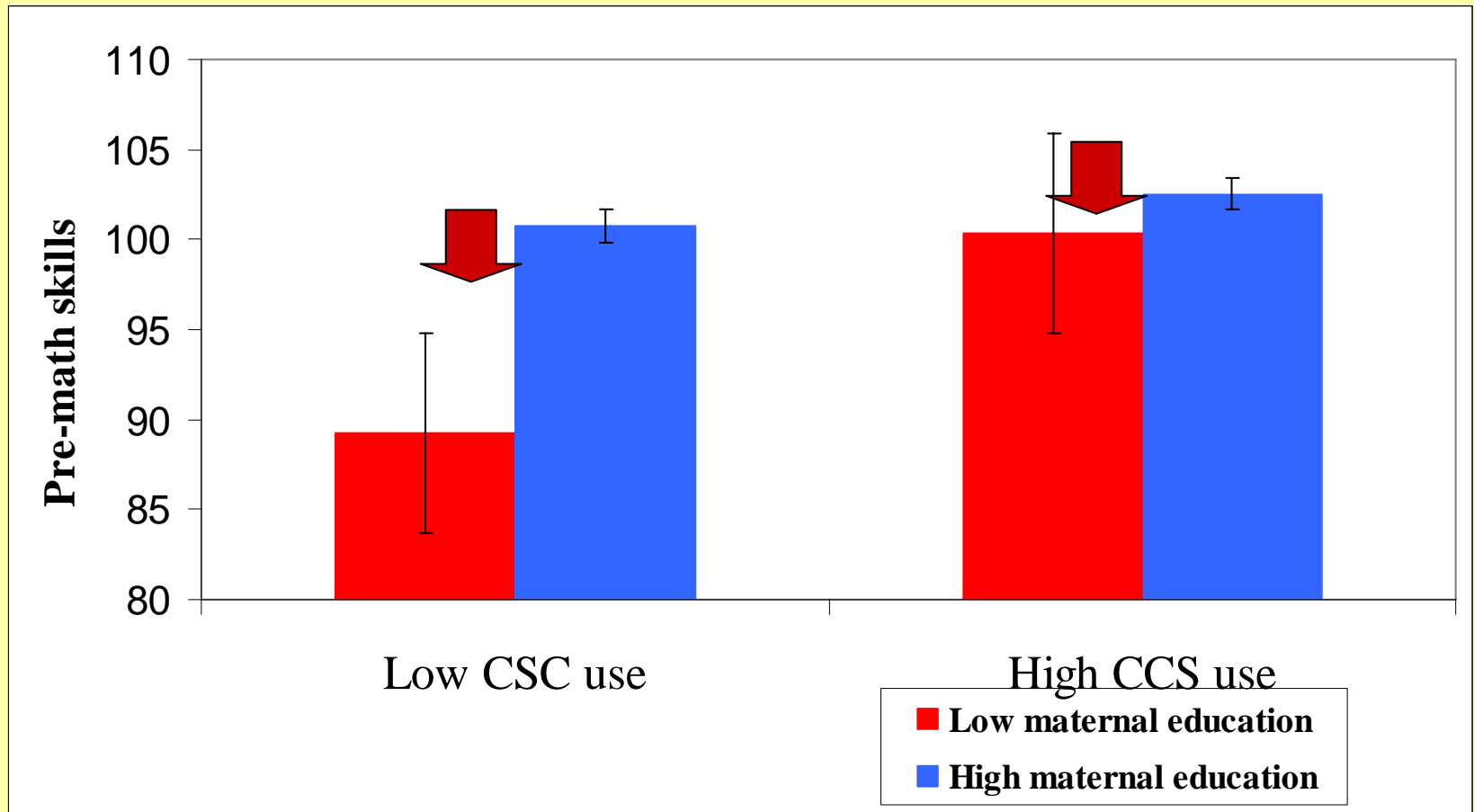
**PPVT= 4 YEARS**

Geoffroy, M.C. Côté, S.M., Séguin et al. (2007). *JCPP*.

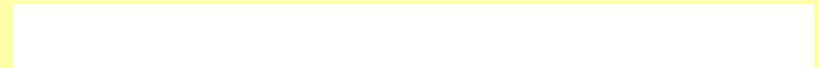
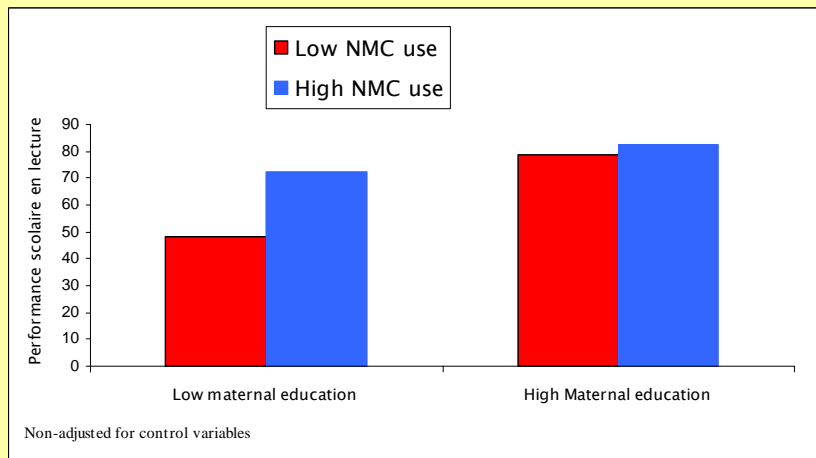
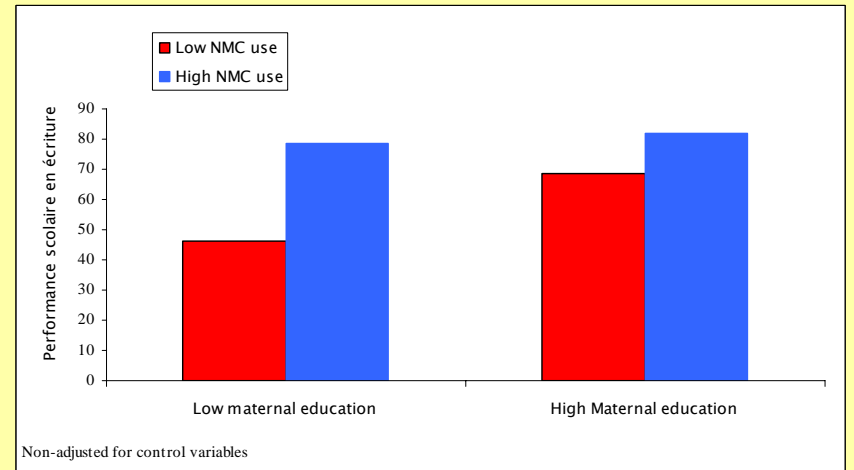
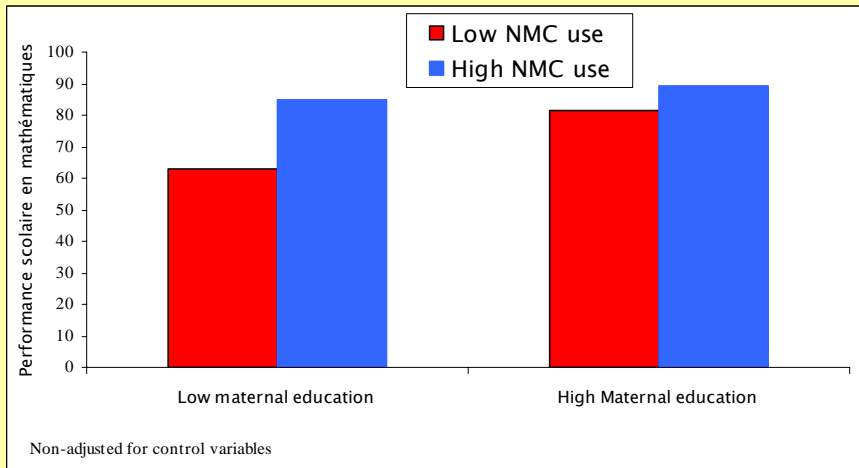
# Positive effects on School-Readiness at 6



# Positive effects on Pre-Mathematical Skills in Kindergarten



# Positive effects on school success in first grade



# Utilisation des CPE au Québec

QLSCD, N = 1020

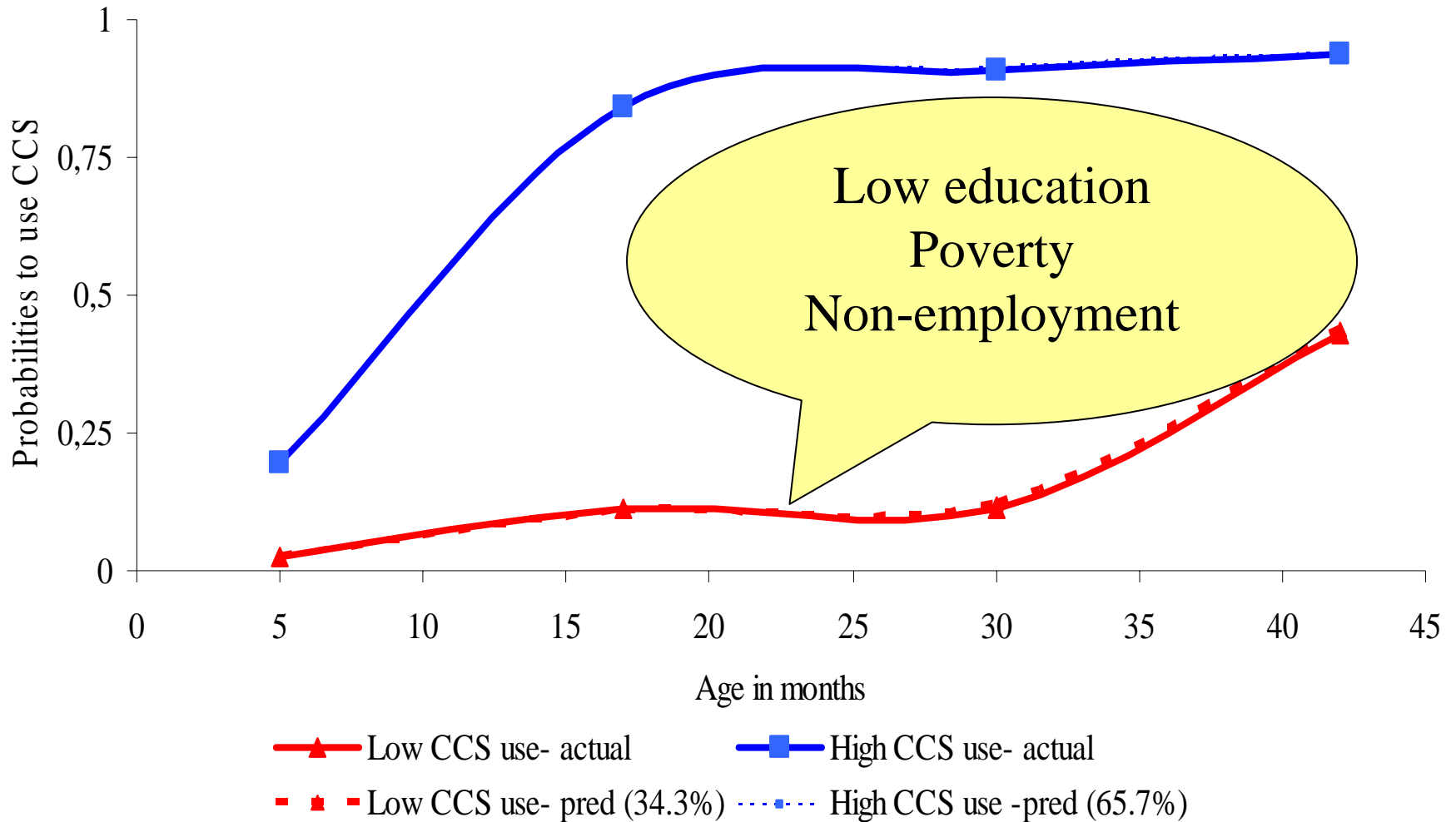
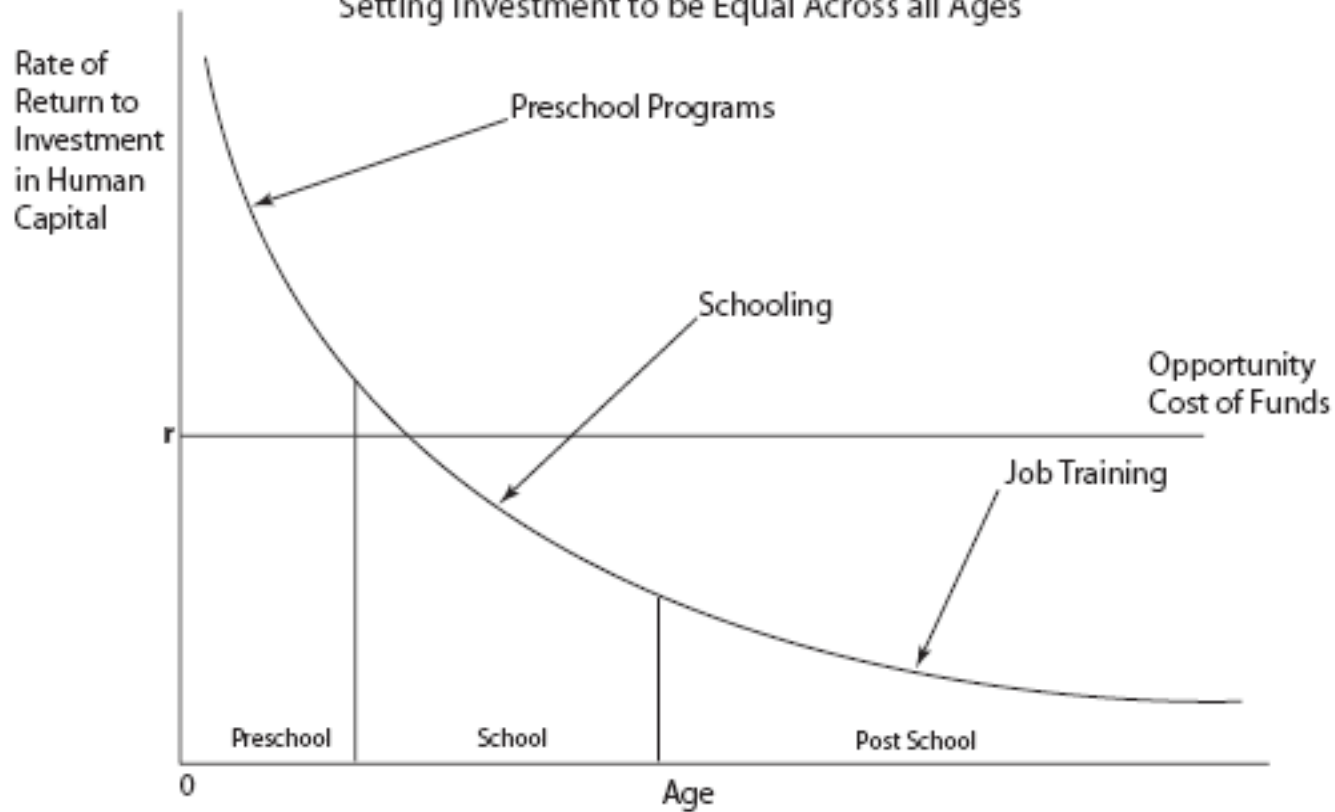


Figure 6-1  
Rates of Return to Human Capital Investment Initially  
Setting Investment to be Equal Across all Ages



Rates of Return to Human Capital Investment Initially Setting Investment to be Equal Across all Ages

# Conclusions

- Reduction of disparities by using child care services
- Disparities are significant between users and non-users of child care services



# **Merci, Merci, Merci !**

- **Parents et enfants participants**
- **Éducatrices, directrices,  
personnel des CPE**