



Psychosocial Adaptation of Caregivers to Children with Congenital Zika Virus Syndrome

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INTRODUCTION

2016: World Health Organization declared an **international public health emergency** in response to the proliferation of the Zika virus

Brazil has been **most affected** by Zika, where widespread transmission of this disease has been recognized since 2014

While most people infected by the Zika virus are asymptomatic or experience only mild symptoms, **intrauterine infection** can have devastating consequences for fetal development.

Zika infection during particular periods of pregnancy is associated with the occurrence of Congenital Zika Virus Syndrome (CZVS), a pattern of **congenital anomalies** that includes microcephaly and other serious brain abnormalities and sensory impairments.

Early monitoring and identification of developmental delays is critical to ensure that children receive **appropriate subspecialty care**

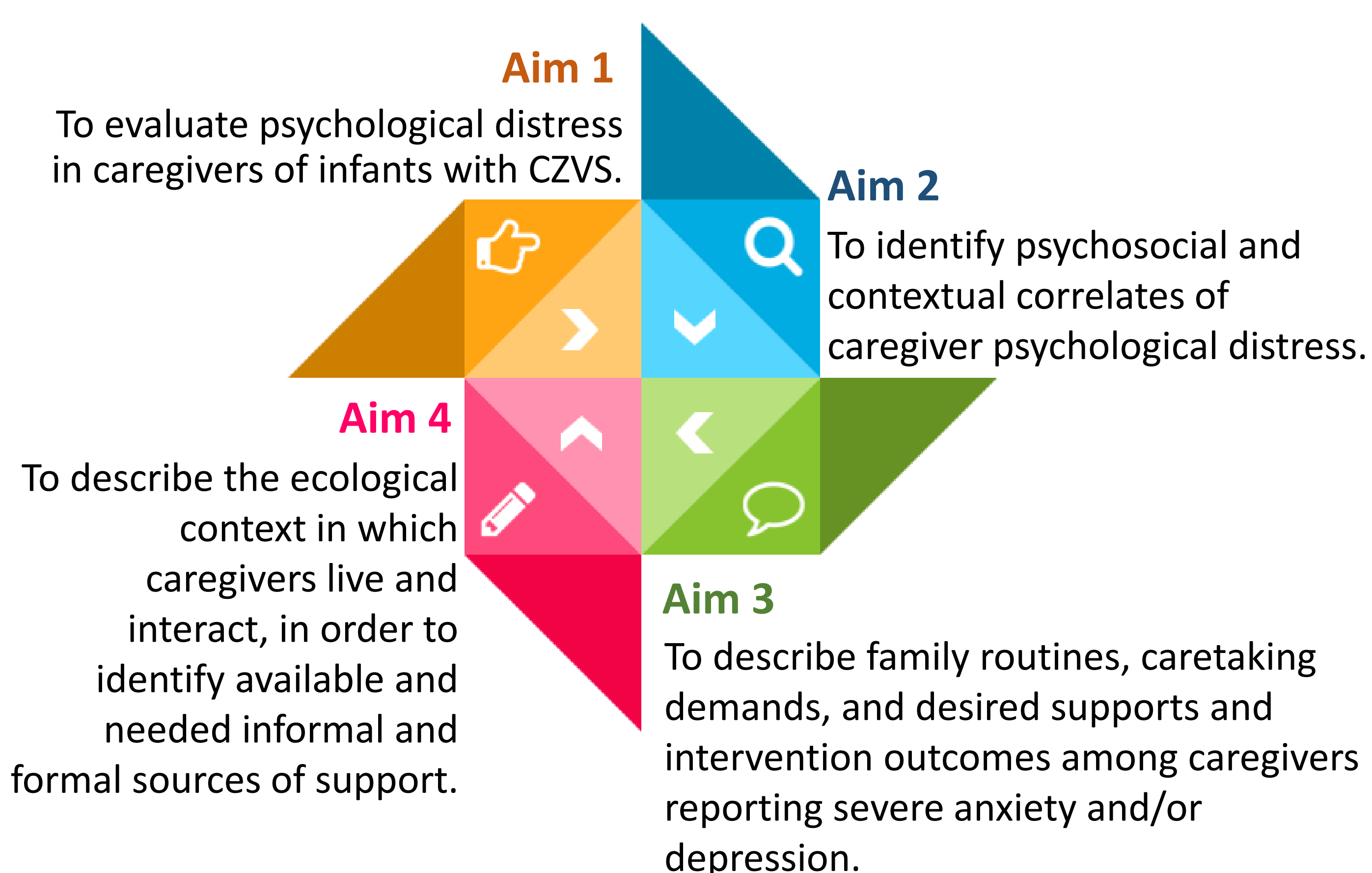
Parents and other primary caregivers should take an **active role** in the care and developmental monitoring of children with CZVS.

Psychological distress, particularly symptoms of anxiety and depression, has been shown to compromise parents' coping resources, **diminish parent-child relationship quality**, and adversely affect parents' ability to problem-solve to meet their child's needs.

Gap: empirical data describing the psychological functioning of caregivers is currently insufficient and family interventions are lacking.

AIMS

The purpose of this project is to obtain critical information needed to develop an ecologically valid and responsive intervention to enhance the ability of caregivers to promote optimal development for their young children with CZVS. A mixed methods approach is used to understand the psychological adjustment, caregiving experiences, and available supports among Brazilian caregivers.



METHODS

PARTICIPANTS

This project includes caregivers of young children with CZVS who are receiving treatment at a public hospital in Recife, Brazil. Participants are the primary caregivers to children between the ages of birth to two years who have been diagnosed with CZVS and are receiving weekly rehabilitation services at the hospital.



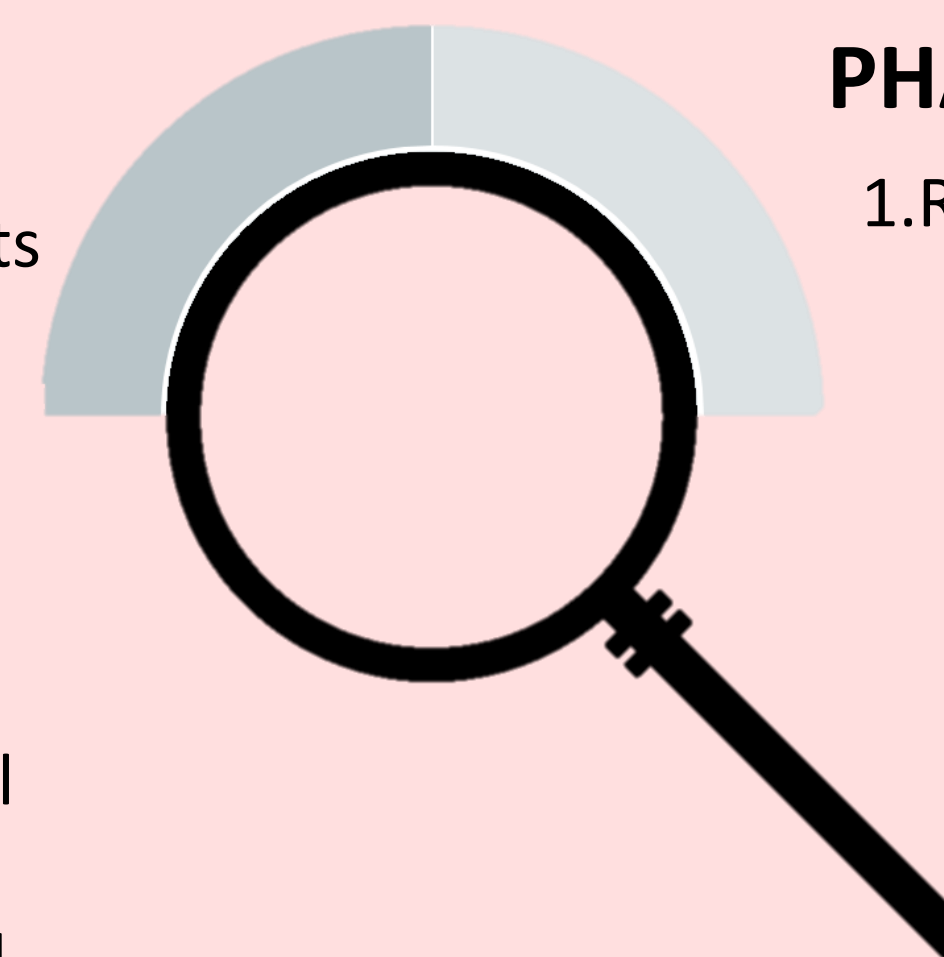
MEASURES

PHASE 1: QUANTITATIVE

1. Child Diagnoses and Treatments
2. Child and Family Background Information Questionnaire
3. Beck Depression Inventory-II
4. Beck Anxiety Inventory
5. Parenting Stress Index
6. Family Crisis Oriented Personal Scales
7. Family Resource Scale-Revised
8. Parenting Experiences Scale

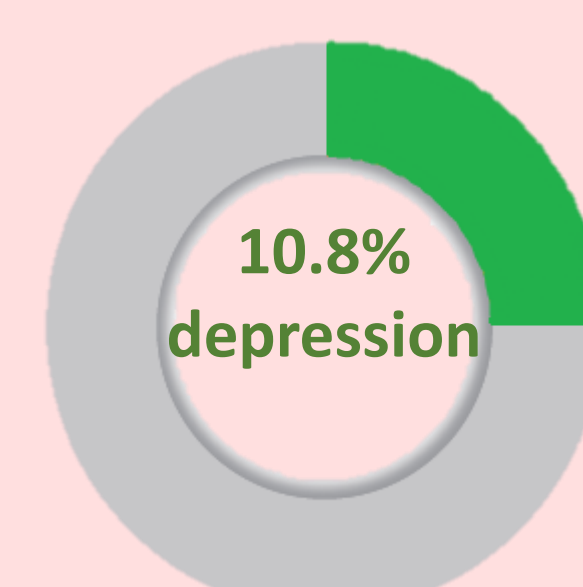
PHASE 2: QUALITATIVE

1. Routines-Based Interview
2. Family Eco-Map

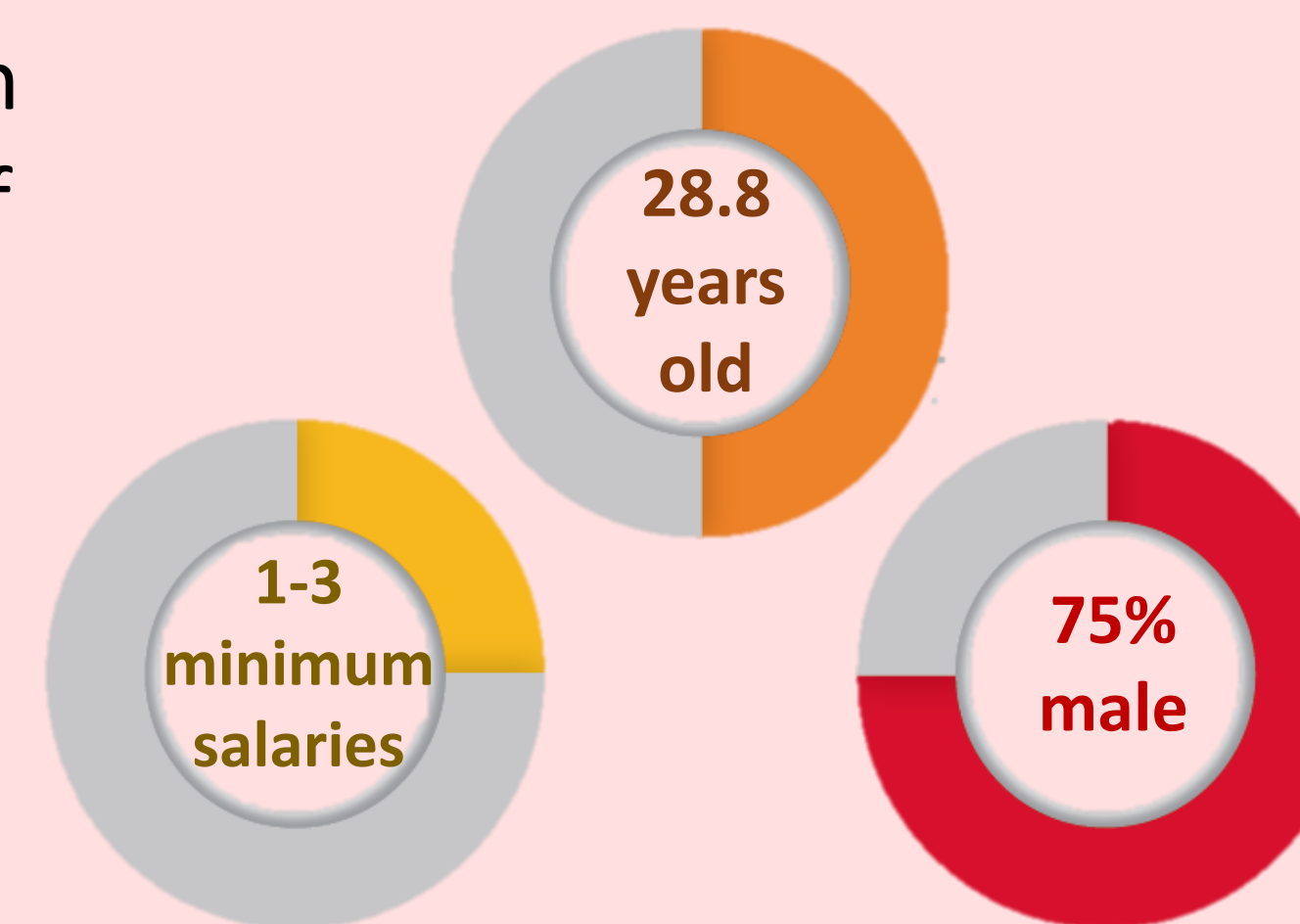


DATA COLLECTION AND PRELIMINARY ANALYSIS

Data collection for this study began in late January 2018. At the time of this submission, 33 mothers of toddlers with CZVS have participated. Descriptive statistics for the measures of psychological distress, coping strategies, and family resources were examined.



4.18% (SD = 4.55) of the participants in the sample reported severe anxiety symptoms (total BAI score ≥ 26), 10.8% (SD = 8.39) reported clinically significant symptoms of depression (total BDI score ≥ 29).



Bivariate correlations among the main study variables showed that:

Higher levels of anxiety

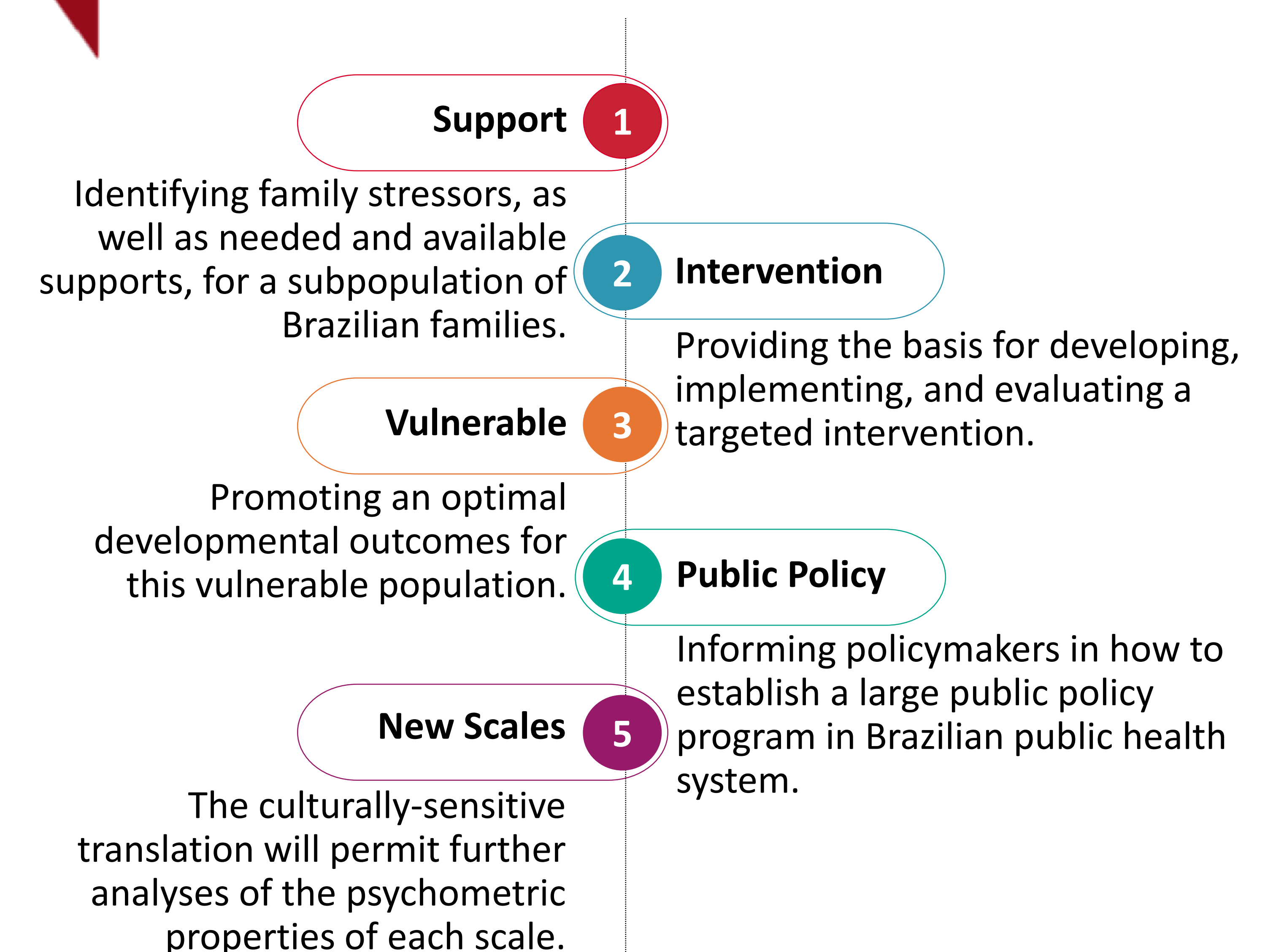
- lower physical necessities/shelter ($p < .10$)
- less family support ($p < .10$)
- less mobilizing the family to acquire help ($p < .05$)

Higher levels of depression

- higher parenting stress ($p < .01$)
- less family support ($p < .01$)
- more use of child care ($p < .01$)

Data collection for this study will continue through April/May 2018 (total N = 100). Prior to estimating multivariate regression models, we will examine the bivariate associations of all predictor variables to anxiety and depression. Variables significantly associated with anxiety and depression will be included in subsequent multivariate regression models predicting caregivers' total scores on the BDI-II and BAI, respectively.

IMPLICATIONS FOR PRACTICE IN EARLY CHILDHOOD



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