

# Design, Population Coverage and Results of the Regional Health and Nutrition Survey on Preschool Children from Oil States of Southeastern Mexico

**Ulín-Montejo F, Torres-López J, Cruz-Sánchez M, Salinas-Hernández R**  
Universidad Juárez Autónoma de Tabasco, MÉXICO.

## **Abstract**

**Objective.** To describe the design, population and results of coverage of the Regional Health and Nutrition Survey (RHNS) on preschool children from oil states of southeastern Mexico. To describe the frequency and severity of anemia and the nutritional variables associated to hemoglobin levels.

**Materials and methods.** The design of the RHNS is reported, as a probabilistic population based survey with a multi-stage and stratified sampling, as well as the sample inferential properties, the logistical procedures, and the obtained coverage. Information of preschool children and their families was analyzed, it studied children measuring body mass index and hemoglobin levels.

**Results.** Household response rate for the RHNS was 91%, completing data from 735 households, where 988 individual interviews selected by age, around two oil estates (Tabasco and Campeche) of southern Mexico.

**Conclusion.** The probabilistic design of the RHNS as well as its coverage allowed to generate inferences about health and nutrition conditions, health programs coverage, and access to health services. Because of their complex designs, all estimations from the RHNS must use the survey design: weights, primary sampling units, and stratus variables.

**Key words:** Population surveys; health status; nutritional status; southeastern Mexico

**Acknowledgements:** Save The Children – México, Petroleos Mexicanos (PEMEX), Universidad Juárez Autónoma de Tabasco (UJAT).