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Prevalence of immunity against infection of hepatitis A and hepatitis B in children Cochabamba, Bolivia

Maria Del Rosario Dávalos Gamboa, Cristina Masuet Aumatell, Josep Maria Ramon, Casanova-Rituerto Aurora, Banqué-Navarro Marta and Sandra Rodríguez Montaña
University of San Simón, Bolivia

Background: Knowing the immune status against hepatitis A and hepatitis B in children Cochabamba, Bolivia and seroepidemiological association.

Study method: A seroepidemiological study (n = 424) and HBV (n = 436) of HAV in children living in Cochabamba, Bolivia, 2010. A questionnaire was completed by parents for demographics, socioeconomic was performed and housing and blood samples were collected, An ELISA was used to measure antibodies to *hepatitis A* and B.

Results: As regards Hepatitis A, the overall prevalence 95.4 (95% CI -93.5 to 97.4) were immune. The immunity was higher in children of 5-10 years (97%) and tweens 10-13 years (97.9%), the prevalence of immunity was also higher in subjects whose parents had a low level of education (99, 4 to 99.5%) living in rural areas (98.7%) lived in municipalities with an urban development under (99.1 to 100%), had water delivered home by an oil sisterna (99.4 %) and spoke Quechua at home (99.5%). As to Hepatitis B virus, immunity that presented to the IgG anti-HBs IgG antibodies in the cohort of pre-universal vaccine was 5.8% (95% CI: 3.3 to 8.3%); was higher in men (9.1%), and those living in the suburbs (9.7%). The anti-HBs IgG prevalence among cohort universal post-vaccine was 37.9% (95% CI: 28.5 to 48.1%), and was higher in children who speak Quechua at home (51.0%), those living in the suburbs (53.9%), and those born in 2005 (72.7%). Neither cohort showed differences concerning education of parents. The prevalence of IgG anti-HBc was 1.1% among post-universal vaccine cohort and 1.2% among pre-universal vaccine cohorts (p> 0.05)

Conclusions: The susceptibility to infection by the hepatitis A child reaches 4.5%. There is a high susceptibility of contracting hepatitis B infection by low immunity was identified.

Biography

Maria Del Rosario Dávalos Gamboa acquired Pharmaceutical Biochemistry degree from the University of San Simón. She started working at the University of San Simón in the Faculty of Medicine in the laboratory of nuclear medicine as a laboratory, and later from August 1992 to continued working as a teaching assistant research until 1998, the years 2009 and 2010 was Director of the Research Institute of the Faculty of Dentistry UMSS, in 1997 won a competency exam at the Faculty of Dentistry UMSS in the subject of Biochemistry since she keep up as a professor in that subject. In the private party from 2005 to 2011, She was Regent and owns the Galenic Pharmacy Madel in the city of Cochabamba, Bolivia. She is currently a legal representative and owner partner (in a greater proportion than 51% of shares) of the International Associated Factory oils and coals SRL ACECAB, in the city of Santa Cruz, Bolivia, whose principal activity is to generate cosmetic oils and charcoal.

rosariodavalos@hotmail.com

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