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**Association of the triglycerides/high-density lipoprotein cholesterol ratio and chronic kidney disease in the INEFAC Colombian cohort: A cross sectional analysis****Carolina Becerra Arias and Lina M Vera Cala**  
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The INEFAC cohort was initiated in 2000 in Bucaramanga, Colombia to estimate the incidence of cardiovascular diseases (CVD) and their risk factors. Follow-up evaluations were conducted in 2007 and 2013. Currently, we are completing the second follow up. Chronic kidney disease (CKD) is a risk factor for cardiac events and involves high mortality rates as a consequence of progression to kidney failure. Recent studies have found that the triglycerides/high-density lipoprotein cholesterol (TG/HDL-c) ratio is an independent risk factor for CKD. The objective of the present study was to evaluate the association between the TG/HDL-c ratio and CKD in the 2007 evaluation of the cohort. The methodology included questionnaires and anthropometric measures in every assessment. CKD was defined as having a glomerular filtration rate <60 ml/min/1.73 m<sup>2</sup> with the use of CKD-EPI equation. A stepwise forward logistic regression was done to assess the association adjusted by other covariates. The prevalence of CKD in the population was 2.46% among which only 0.55% knew their condition at the time of the evaluation. The results demonstrated that the odds for having CKD increases 10% for every unit augmentation of the ratio ( $p=0.002$ ) when adjusted for independent variables as diabetes, hypertension and age. Additionally, the ROC curve of the fitted model revealed an AUC=91.6%. The model showed an excellent adjustment evidenced through the diagnostic test. In conclusion, the TG/HDL-c ratio was an independent factor associated with the prevalence of CKD in the INEFAC cohort.

**Biography**

Carolina Becerra Arias is currently a student in the Master of Epidemiology at the Universidad Industrial de Santander. She additionally completed her Global Health and Infectious Disease Post-graduate Diploma at the University of Edinburgh in 2011. Actually she is part of the INEFAC and CARDIECOL workgroup and is In-charge of supporting the recruitment, measurement and interviewing processes of the participants in the 2016 follow up. According to the aforementioned, her dissertation is related to the INEFAC database and thus the master student formation process is enhanced with every role she has had in the investigation.

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