

Measurement of the volume of cutaneous leishmaniasis lesions

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Cutaneous Leishmaniasis is a disease caused by protozoans of Leishmaniasis genre of different species that produces erosive ulcers causing defacement. This disease affects Andean and Amazon populations from the pre-Hispanic age and it constitutes a serious problem for public health. From 1994 to 1996, the impact rate was of 32.45 per 100 000 inhabitants.

This study achieved to implement a system capable of measuring volume in cutaneous Leishmaniasis lesions with an accuracy error of less than 1% and a precision error of less than 4%. This research is also aimed at estimating other metrics such as depth, perimeter and area with a variability error of less than 4%.