

Preliminary results of seasonal variation of ^{226}Ra , ^{228}Ra and ^{210}Pb concentrations in mineral waters from Caxambu, Brazil

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The aim of this work was to determine the activity concentrations of ^{226}Ra , ^{228}Ra and ^{210}Pb as well as verify the seasonal variation of these radionuclides concentrations in 15 mineral waters springs collected in Caxambu.

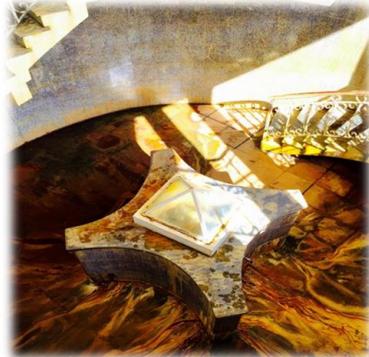
METHODOLOGY

The radionuclides were determined using a sequential radiochemical procedure and for the measurement a low background gas flow proportional detector, Berthold model LB 770, was used.

RESULTS AND CONCLUSION



Geiser



D. Ernestina



Beleza



Venâncio

The preliminary results presented in this work indicated a seasonal variation of the radionuclides concentrations in mineral waters from Caxambu.

Lastly, the similarity of the ^{226}Ra and ^{228}Ra concentrations and the values obtained by Negrão results, in the same season, can be an evidence of the geological stability of Caxambu nowadays.