

## QUALITY ASSESSMENT OF THE FLUOXETINE DRUG MANIPULATED IN THE CITY OF BELO HORIZONTE, BRAZIL

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In this work, the *Fluoxetine*, a drug largely used in the treatment of depression and other psychiatric illnesses commercialized by the pharmacies of manipulation in Belo Horizonte, Brazil, was analysed by neutron activation analysis, (NAA), by the Institutes CDTN, using the  $k_0$ -INAA method, and by the IPEN, using the comparative method. These analyses aimed to obtain complementary data about the quality of the manipulated *Fluoxetine* to a survey carried out by the State Health Surveillance Agency of Minas Gerais, Brazil (VISA/MG)<sup>1</sup> and to determine the presence of impurities in order to perform a preliminary study of the heterogeneity of the samples from each pharmacy. Due to operational reasons, the institutes analysed different set of samples. The results pointed out the presence of: Al, As, Au, Br, Ce, Cl, Co, Cr, Hf, La, Sb, Sc, Sm, Th and Zn. These elements may be originated from the raw material, imported from other countries. Elements such as Cl, Fe, K, Mg and Na could be expected in this kind of samples because they are normally present in the substances used as excipients in the preparation of the medicines.

## REFERENCES

- 1) A. S Leal, F. P Sepe, T. C. B. Gomes, A. S. Santana, L. H. Cunha, M. Saiki, Rev. VISA em Debate 2 (2014) 1.