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**Tc-99m-HUMAN POLYCLONAL IMMUNOGLOBULINE: LABELLING AND PRELIMINARY RESULTS ON CLINICAL APPLICATION.** Hamada,ES; \*Sapienza,MT; da Silva, CPG. Instituto de Pesquisas Energéticas e Nucleares (IPEN/CNEN-S.P.) \*Centro de Medicina Nuclear.

The goal of the present study was to prepare Tc-99m labelled polyclonal immunoglobuline for clinical application in cases of inflammatory processes and in particular for diagnosis of osteomyelites.

For the preparation of technetium-99m labelled, non specific, polyclonal human immunoglobuline (Tc-99m-hlgG) we have applied the direct method using 2-mercaptoethanol (2-Me)reduction , and methylene diphosphonate (MDP) as an exchange ligand. The vials containing 1mg of reduced antibody , 80 µg of MDP , 5,50µg of Sn F<sub>2</sub> and 16µg of PABA were prepared as an instant lyophilized kit.

The radiopharmaceutical as monodose (1mg reduced hlgG) has been used in patients; satisfactory scintigraphies were carried out for bone, joint infection and inflammatory process detection.