

Record Keeping in Nuclear Medicine Laboratory

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Clinical test using radioisotopes have many extraordinary features which other tests do not have. First, radioisotopes decay automatically. Naturally the amount of radioisotopes stored changes continuously and the volume to be injected to patients also changes hour after hour. From the practical standpoint this is one of the difficulties which personnel in the laboratory have to always face with.

Secondly the record of use of radioisotopes must be very accurate. There are mainly two reasons for this, namely to control the exposure dose of radiation to patients and to avoid the interference of two radioisotope tests. The record of intake and discard of radioisotopes also have to be kept. These features mentioned

above always produce some difficulties in nuclear medicine laboratory.

A TSS computer terminal placed in nuclear medicine laboratory may easily handle this problem by the following process. Each bottle of radiodisotope in stock room is stored in the memory of the computer. When radioisotopes are used, a physician types the name of radio-nuclide he wants. The computer automatically tells from which bottle and how much volume he should take. After he has drawn the solution, the computer automatically subtracts the amount from its memory and at the same time keep the same record under the name of the patients.