A SOFTWARE FOR AUTOMATIC CALCULATION OF 99m Tc-MAA DOSAGE

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Introduction: In the day-to-day practice of a radiopharmacy it is necessary to calculate the number of particles and the activity in a dose of ^{99m}Tc-MAA, because the concentration of particles is constant in time but the radioactive concentration decrease. The calculation of these parameters is not too complex, but it is annoying and time-consuming.

Objective: The goal of this project is to develop a software to calculate the number of particles in a dose of ^{99m}Tc-MAA and other parameters in the labelling of MAA.

Materials and methods: For developing a software incorporating these calculations we have used Visual Basic 6.0 and Visual Studio Installer.

Results: We have developed a form for automatic calculation of the number of particles, volume and activity of doses, labelling volume and labelling activity in ^{99m}Tc-MAA preparations.

This form is included in a software called Nucleolab, which is available at http://www.radiofarmacia.org/nucleolab-english

The following examples illustrate the use of this software:













Conclusion: This new software has an easy-to-use interface that makes the calculation complexity of ^{99m}Tc-MAA preparations completely hidden for the user, saving you the time that you previously spent on these laborious calculations and reducing the risk of error.

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