



**Control/Tracking Number:** 2011-S-246-EANM

**Activity:** Scientific Programme

**Current Date/Time:** 4/5/2011 6:01:41 AM

### **A software for automatic calculation of platelet survival**

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#### *Abstract:*

**Introduction:** Platelet survival studies are performed in large number in hospitals throughout the world. The object of platelet survival studies is to obtain estimates of the rates of platelet production and destruction. The calculation of the time taken for half the label to leave the circulation ( $T_{1/2}$ ), the percentage of platelet destroyed a day and the mean platelet life span (SP), are not very complex, but tedious and time-consuming.

**Objective:** The goal of this work is to develop a computing facility to automatically calculate the parameters of platelet survival studies.

**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 platelet survival studies. This form relies on a database to store, manage and retrieve the data of platelet survival studies. Moreover the form offers the possibility of printing a detailed report of each study.

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

**Conclusion:** The software we have developed has an easy-to-use interface, that makes the calculation complexity of platelet survival studies 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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**Topic (Complete):** 308 Miscellaneous

**Additional (Complete):**

I agree: Yes

I agree: Yes

**EANM Eckert & Ziegler Abstract Award (Complete):**

EANM Eckert & Ziegler Abstract Award : True

Date of birth (ddmmyyy) : 06/04/67

**Presentation Preference (Complete):** Poster Only

**Status:** Complete