

Normal Blood Values

For the HP49G+

Version 1.1

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This program serves as a summary of the most important normal blood value ranges referred to in medical practice. It may also be of use for those not medically trained. The biological functions of the different constituents of blood and blood serum and the possible significance of values falling outside the normal range for medical diagnosis and treatment are briefly discussed.

The values are arranged in a number of categories:

Blood cell counts, electrolytes, hepatic function, renal function, proteins, lipids, thyroid function, cardiac-, pancreas-, and prostate-related, vitamins, metals and intoxications.

Version 1.1 makes use of the library Headman written by Wolfgang Rautenberg, to get an improved display of the blood values and explanatory text. Because Headman only works on the HP49G+, this version should not be used with an HP49G.

Contents of the package

BLOOD2.hp - the compiled program
BLOOD2.txt - the source file
Values.txt - the database
Blood2.pdf - this user guide
Headman9 - Wolfgang Rautenberg's library

Installing

Download the three files, Blood.hp, Headman9 (both in binary mode) and Values.txt (in text mode) to your Home directory.

Store the library Headman9 in port 2 (Flash) and attach it by doing a warmstart (pressing [ON] and [F4] simultaneously).

The data file (Values.txt) is rather large (15 KB) and should also be transferred to port 2 (flash memory) to save valuable space in user RAM. The program will find the data file there. After the transfer you can delete the data file and the library in Home.

Use of the program

Just run BLOOD and select the particular category you want to examine in the CHOOSE box and press OK. Program output is using a scrollable GROB, the document reader of Headman. The first screen is the category header, press OK to start reading.

You may manoeuvre through the text with the [+] and [-] keys (next and previous page) and the left and right arrow keys. Press ON (Cancel) to leave the graphics window. You will be returned to the CHOOSE box until you press the Cancel soft key.

The program saves your flag settings by using PUSH and POP (several flags are set or cleared by the program).

Credits

The author is grateful to professor Wolfgang Rautenberg for his permission to use and distribute his library Headman with the program.