

Adequate oxygen supply is vitally important for human beings and the program SatCur is developed to understand the role of blood therein. The introduction screen and its continuation are shown in Fig.1.

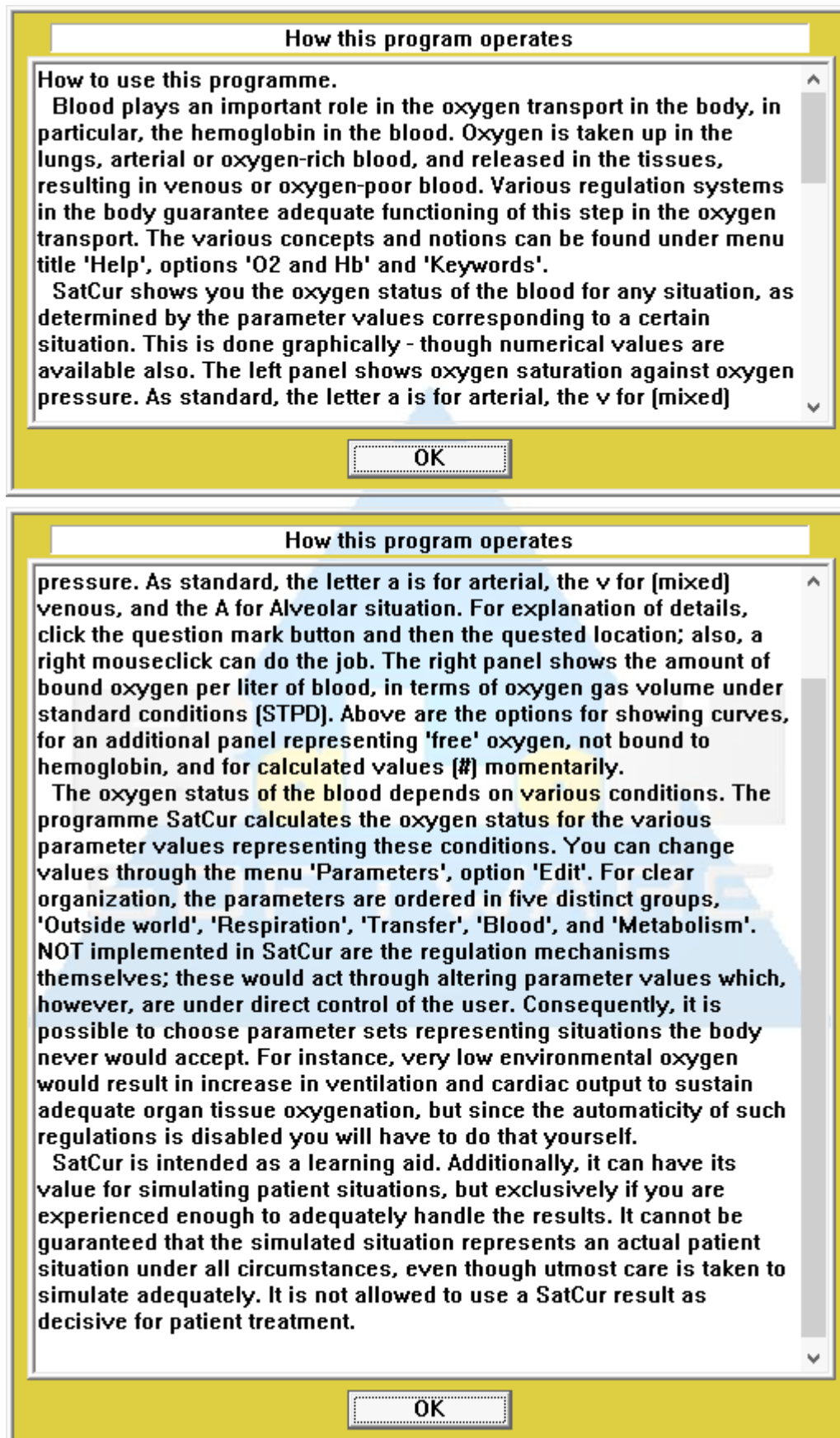


Fig.1: Introduction screen of SatCur.

The program does not show the Introduction screen at startup but directly switches to a graphical representation of the oxygen status of blood of the type as shown in Fig.2.

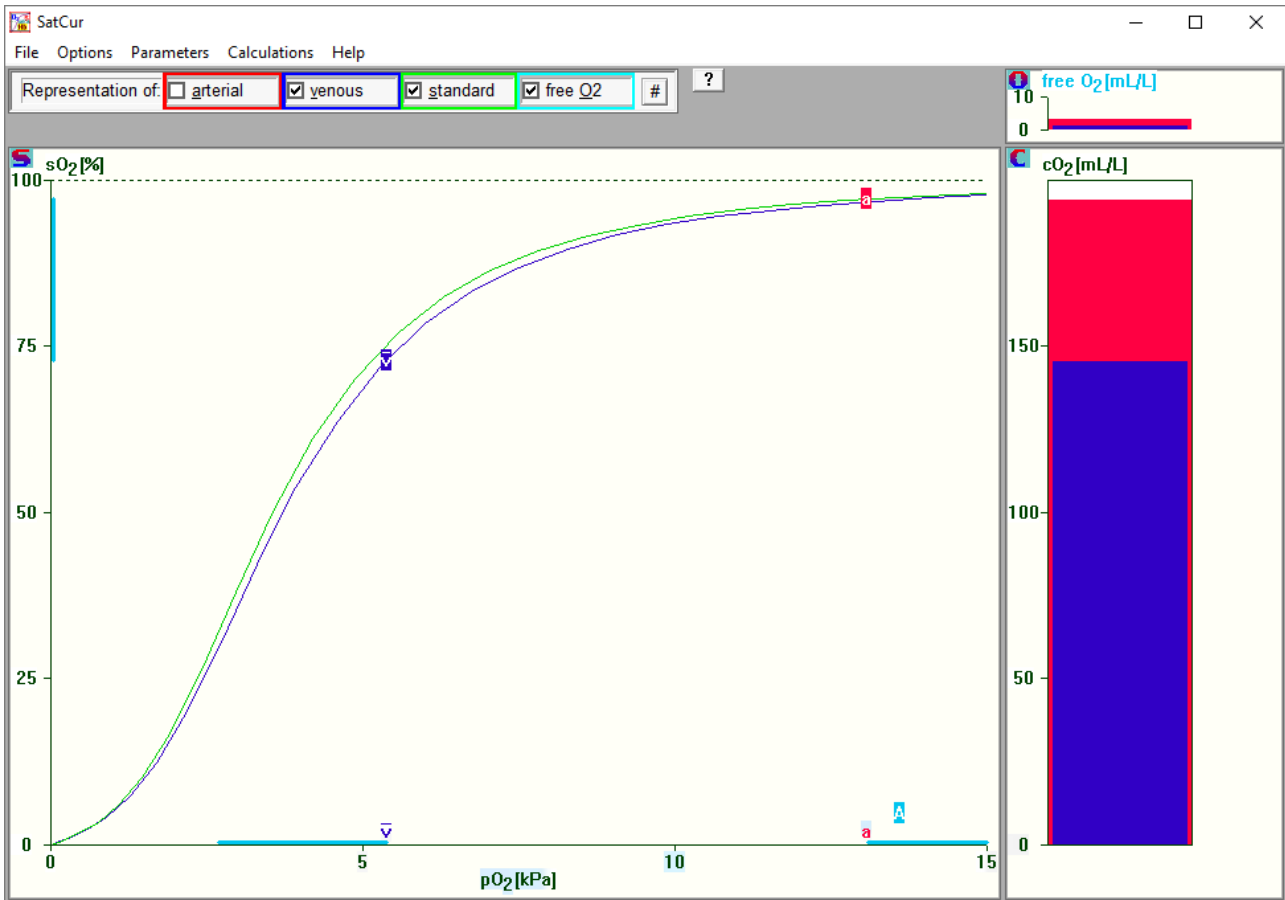


Fig.2: Graphical representation of blood oxygen status.

The graphical representation consists of two or three parts: the oxygen Saturation curve part **S**, the oxygen Content part **C**, and, optionally, the free Oxygen part **F**. Since the red cell's hemoglobin plays a significant role, a separate introduction can be called through the menu entry 'O2 and Hb'; all menu entries are shown in Fig.3, the complete hemoglobin introduction is shown in Fig.4.

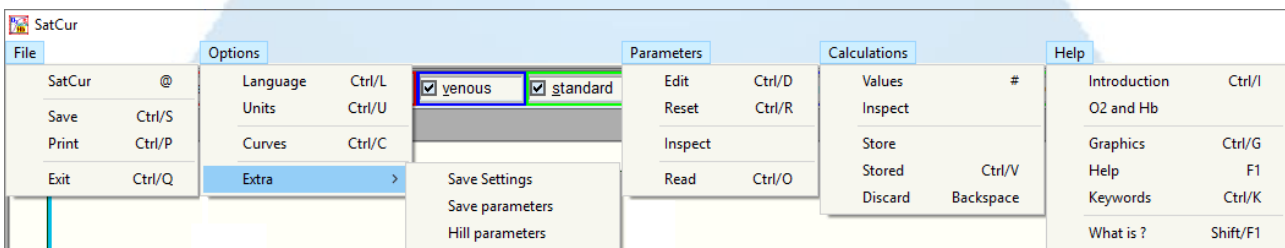


Fig.3: Menu options of SatCur.

The fully operational version of SatCur offers a vast variety of blood status values to be inspected and evaluated – not only of oxygen but also other parameters like acid-base status. In the DEMO version, these results are partly disabled as well as some other features of the program. However, both versions support the menu option 'Extra' – 'Hill parameters' where curves of type different from the standard Adult hemoglobin can be set. Preset are 'Human Foetal' and 'Rat'.

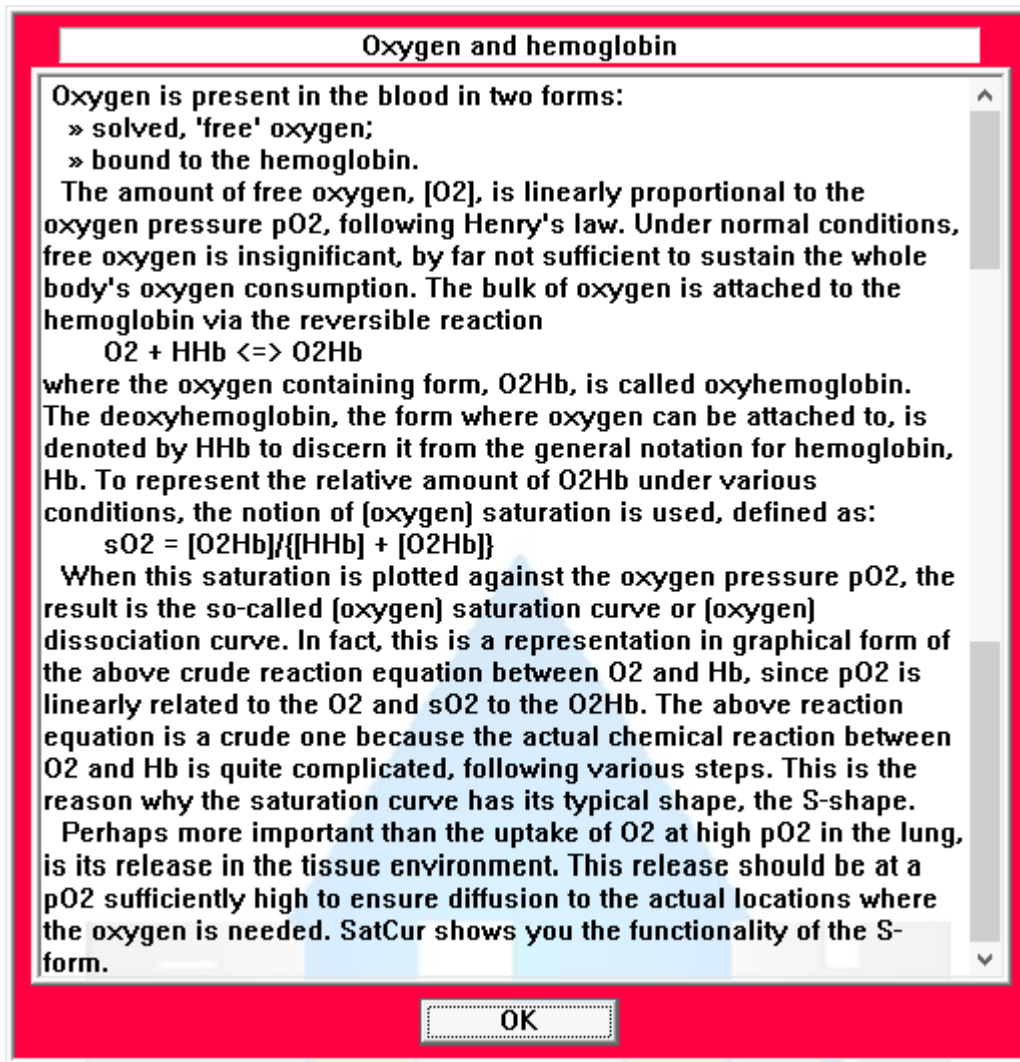


Fig.4: Introduction into the role of hemoglobin

The most important menu option is 'Parameters' - 'Edit'. Up to 18 determinants of blood oxygen status can be manipulated here, divided in 5 groups, as shown in Fig.5 where the first group is selected and from this the parameter 'Barometric Pressure'.

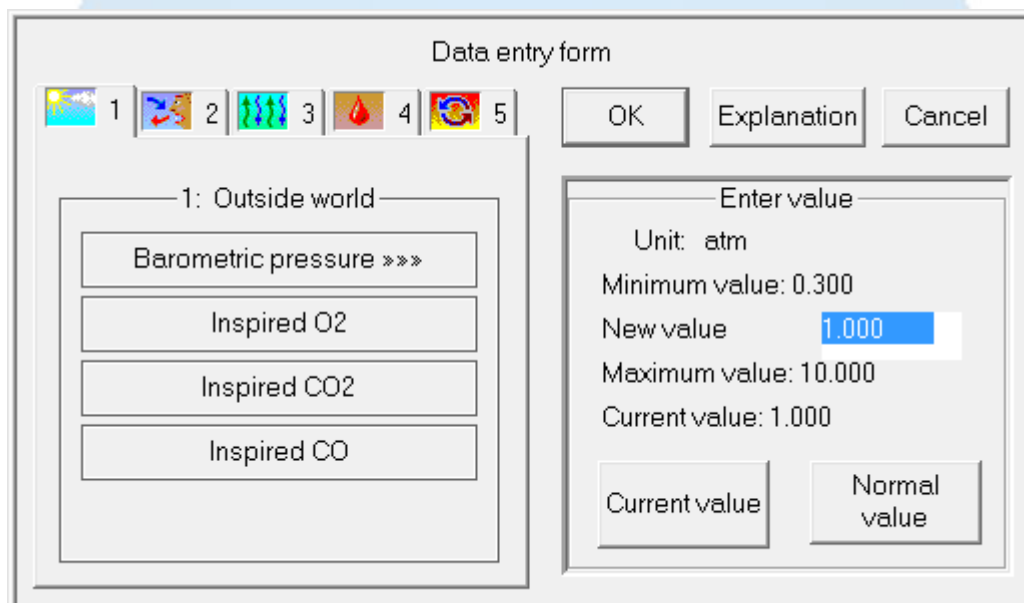


Fig.5: Form to set environmental determinants of blood oxygen status.

A lot of explanation is available in the Help of SatCur, also about mechanisms, but unfortunately only can be reached if the computer's operating system supports reading of old-type Microsoft .hlp files – usually, this is by a correctly installed tool winhelp32.exe. An example is the 'Parameter Help' screen shown in Fig.6.

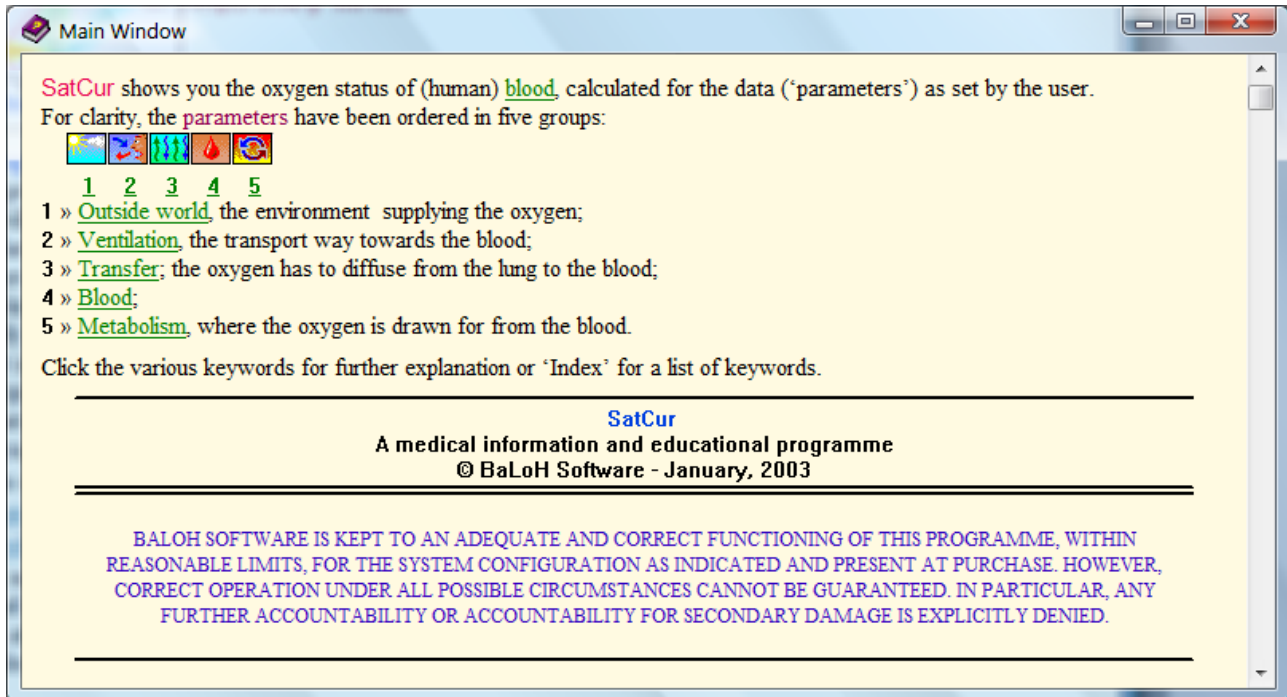


Fig.6: Help screen about the parameter choices.

To ameliorate problems with this type of help, the fully operational version of SatCur comes with a separate file to access help outside the program.

