

## Welcome as a user of the program SCODIAC!

*SCODIAC* is currently offered by scientific researchers **Pavel Cerny**, PhD, Eng., CPO from Czech Republic (website: [www.ortotika.cz](http://www.ortotika.cz), email: [pavelorto@gmail.com](mailto:pavelorto@gmail.com)) and **Lukasz Stolinski**, PhD, PT from Poland (website: [www.stolinscy.rehasport.com.pl](http://www.stolinscy.rehasport.com.pl), email: [stolinskilukasz@interia.pl](mailto:stolinskilukasz@interia.pl)) for free use and distribution. The concept and program with the gradual inclusion of basic and own procedures from 2008 to 2015 was created by doctor Pavel Cerny. From 2015, in cooperation with doctor Lukasz Stolinski, the most recent procedures used by physiotherapists and physicians were added.

As members of the SOSORT scientific community, they support the possibility of examining X-ray images and photographs, which is currently necessary for evidence-based research.

SCODIAC works simply and intuitively on the snapshot of the current screen with the view of your favourite photo, video, or 3D viewer.

After installation or portable start up, you should set the parameters in the menu item "setting".

Here you can set the desired method at any time in X-ray and photo subheadings. Anytime you can return to the default settings in this menu by selecting "**Refresh**".

The basic operation is done using two "**Run**" and "**Minimize**" menus. If something unexpected happens, please also use "**Minimize**".

For some methods, you can choose "**Grid over image**" in the settings.

In vertebral rotation measuring methods according to Cerny, Stokes and Raimondi or in Ferguson's scoliotic angle measurement and SPA, the points are gradually labelled with small crosses each time the left mouse button is clicked.

As a result the Cerny's method geometrically displays the desired angle without special math formula. The angle is calculated from a geometric view. In another, the Stokes's method uses the mathematical formula to calculate the angle.

The Raimondi's method gets the desired angle according to the author's table.

Furthermore the results all of these 'rotation' methods are displayed automatically after the sixth mouse click. With the seventh click, the program is minimized.

Evaluation of the Ferguson's method and SPA is finally done by clicking the right mouse button.

In the Perdriolle rotation method by dragging two predefined points and the pattern by pressing the left mouse button to the desired position of the vertebral body and pedicle.

You can choose to display and highlight the description in the frame view shown.

For other methods, a shape of lines with ending circles is always predefined. Pressing the left mouse button will grab these circles and move them according to the method and example shown. The values searched are counted automatically.

If the circles overlap, there may be conflicting situations that can be solved by reducing their size in "**Setting**". The rule is, the smaller the circles, the easier their tight placement, but the greater the need for punctual moving.

*We wish a nice work with the program.*