

Using Virtual Radiology – Spine Sim

Equipment Needed:

- Workstation (computer, monitor, mouse, keyboard)
- Spaceball

Demo

Click on 'spine Jan07' icon on desktop
Press Esc when prompted for Login

Choose Exercise

Interaction training

X-ray machine:

Goal: align x-ray beam with the white line displayed

Use spaceball to adjust the x-ray head

Exercises

You can select the projection view using the radio buttons (LAO, RAO, Lateral, or AP)

Exercise 1:

Goal: Produce ideal image in fluoroscopic mode

After clicking on 'Exercise 1', wait for Film view to appear

Use spaceball to adjust x-ray machine

Press 7 (on spaceball) when done, the correct image is shown for comparison

Exercise 3:

Goal: Replicate a poorly positioned spinal image

Observe the current x-ray position generates the image in Film View

Press 7, observe the new image in Film View 2, use the Spaceball to move the x-ray head to create the image

Press 7 when done

If the angle error is too high then the correct orientation appears (white line), continue to adjust machine until correct

Troubleshooting:

Starting up the computer (quito):

Windows login: administrator

Password:

Using the spaceball:

7 - proceed to next step (or redo exercise)

8 - return to menu of exercises

Other Notes:

The application is designed for 2 monitors with the 3D environment on one screen and the x-ray films on the other.