

# Clinical Validation

**Veterinarian Christoph Peterbauer,**  
assistant at the Faculty of Veterinary Medicine,  
University of Bern



*Figure 1: ECG Recording directly on the chest wall*



*Figure 2: ECG Recording using clip electrodes*



*Figure 3: ECG Recording using electrode belt*

During my work as assistant surgeon at the Faculty of Veterinary Medicine, University of Berne, I had the opportunity of using the cardioscope Pulsovet 3000-DS on horses. In my opinion, this device is simple to operate, handy, and can be used without problem in the stable or the pasture, with minimal preparation of the contact area such as wetting the animal's coat with water or alcohol.

Placing the device directly against the side of the chest wall behind the elbow was very well tolerated by all the horses and had no disadvantages in comparison with using patient cables and clips.

As long as the horse stood quietly, it was possible for me to assess the P waves, QRS complexes and T waves without difficulty.

To diagnose arrhythmias, I printed out the ECG, using the software supplied for data transfer to a PC or laptop, and evaluated the results. Any abnormalities in the electrocardiogram could be seen clearly.

In summary, the cardioscope Pulsovet 3000-DS is a handy, simple-to-use device that the practitioner can employ anywhere for quick and easy measurement of the electrical activity of the heart.

In equine veterinary practice in particular, it is a useful tool in the field that allows the recognition of arrhythmias from ECGs that can be recorded and stored without a great deal of time and effort or any special technical skills.