

## The effect of training on hind limbs lifting in horse free jumping

### S u m m a r y

The aim of the study was to analyze the effect of training on hind limbs lifting over the oxer obstacle in free jumping. The investigations were carried on in four training centres for horses. Free jumping of trained horses were filmed. Selected frames of the film were analysed using video image analysis. On the basis of the study it could be concluded that the short term training caused lower lifting of hind limbs over the first element of the oxer and higher lifting over the second element of the oxer. This effect is not visible after longer period of training. During the observations it was found that the highest lifting of hind limbs had occurred at the first or second jump. The correlations show that the horses carried their limbs on similar level, It seems that longer training affects positively the changes in the parabola of the jump. This is documented by the high correlations between the level of lifting the limbs (leading and non-leading) over the first and second element of the oxer obstacle.