Abstract:

Changes in the external surfaces on the lower limb bones can be caused by various taphonomic factors. It is important for our work how these changes will affects. The aim of the work was to process and subsequently evaluate the changes in the external surfaces on the lower limb bones. For analyses we chose set of adults from 2nd church burial ground Pohansko near Břeclav, we chose specifically braid of the lower limbs (*cingulum membri inferioris*) and free lower limb (*pars libera membri inferioris*). We wrote down taphonomic changes into prepared protocols, changes were typologically about damages and color changes. We used programs InkScape and AdobePhotoshop to transform paper protocols into digital form. *Heat maps* are outputs from this programms through them we are able to see incidence rate of individual changes. We most often detected the occurrence of an orange color on the bones of the lower limbs, so we focused on its cause. We found an increased content of silicon and aluminum in its chemical composition, so we assume that it could be an aluminosilicate weathering product.

Key words: Pohansko, taphonomy, taphonomic factors, bone surface, lower limb