



Brief communication

Skeletal evidence of a post-mortem examination from the 18th/19th century Radom, central Poland

Urszula Bugaj^a, Mario Novak^{b,*}, Maciej Trzeciecki^a^a Institute of Archaeology and Ethnology, Polish Academy of Sciences, Aleja Solidarności 105, 00-140 Warszawa, Poland^b Anthropological Centre, Croatian Academy of Sciences and Arts, Ulica Ante Kovačića 5, 10 000 Zagreb, Croatia

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ABSTRACT

The paper presents a post-mortem examination performed on an adult male from the town of Radom in central Poland. The calotte of this individual had been surgically opened after death with a saw. Based on the archaeological context, this was most probably a Radom resident. The stratigraphy, archaeological artefacts and written historic sources indicate that the post-mortem examination was most probably conducted by the Austrian military physicians between 1795 and 1809. This post-mortem examination is the first published example from the territory of Poland and most probably in the whole of Eastern Europe for the period from the late 18th and the early 19th century.

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1. Introduction

Although the skeletal evidence for post-mortem examinations¹ of a human body is not uncommon in palaeopathological studies, this aspect of research is often neglected in comparison with the studies dealing with ante-mortem pathological changes. Nevertheless, during the last three decades numerous cases of post-mortem examinations from archaeological contexts have been reported. The vast majority of these originate in Great Britain (e.g. Waldron and Rogers, 1987; Chapman, 1997; Anderson, 2002; Chamberlain, 2012; Fowler and Powers, 2012), France (e.g. Valentin and d'Errico, 1995; Signoli et al., 1997) and the United States (e.g. Angel et al., 1987; Owsley, 1995; Davidson, 2007; Nystrom, 2011). In contrast to Western Europe and North America, archaeological finds suggesting post-mortem examination from the region of Central and Eastern Europe have rarely been published (e.g. Likovský and Stloukal, 2006).

This paper presents skeletal evidence of a post-mortem examination from the city of Radom in central Poland, which probably represents the first case to be reported from Eastern Europe with both a well established context and chronology.

2. Materials and methods

Radom is a medium-sized city located in central Poland (Fig. 1). Archaeological site 1 in Radom is situated at the bottom of the river Mleczna valley in the centre of the contemporary town. The site was an early mediaeval stronghold that functioned between the 11th and 14th centuries. In 1791 the first “modern” municipal cemetery was founded at the site, but due to the lack of space a new cemetery was established in 1811 at another location, while the municipal cemetery at the stronghold has been abandoned and forgotten.

During archaeological excavations at site 1, begun in 2010, a total of 250 burials have been uncovered. The cemetery covered the entire former stronghold, with a clear concentration of graves in the central part of the site. Archaeological artefacts were scarce, consisting mostly of clothing remnants, along with religious and personal items (Auch et al., 2012). The skeletal material examined in this report came from a grave situated in the central part of the cemetery (Fig. 2). The stratigraphy and written sources date the use of the cemetery, including this grave, to between 1791 and 1811. The grave contained skeletal remains of two individuals laid together in a wooden coffin: “individual A” was placed on its back with the head facing west (Fig. 3), while “individual B” was placed on the right leg of the “individual A”. The only artefact found in the grave was a copper button.

Anthropological analysis of the skeletal remains was conducted in the Institute of Archaeology and Ethnology of the Polish Academy of Sciences in Warsaw. Sex and the age at death were estimated using methods described in Buikstra and Ubelaker (1994). All skeletal elements were examined under strong illumination with the use

* Corresponding author. Tel.: +385 1 4698 238; fax: +385 1 4856 211.

E-mail address: mnovak@hazu.hr (M. Novak).

¹ Post-mortem examination is used as a general term that encompasses any medically based post-mortem investigation; dissection is reserved for post-mortem examination of the body for anatomical study, while autopsy specifically refers to a post-mortem examination in order to determine cause of death where anatomical study would not be the primary focus (Nystrom, 2011).

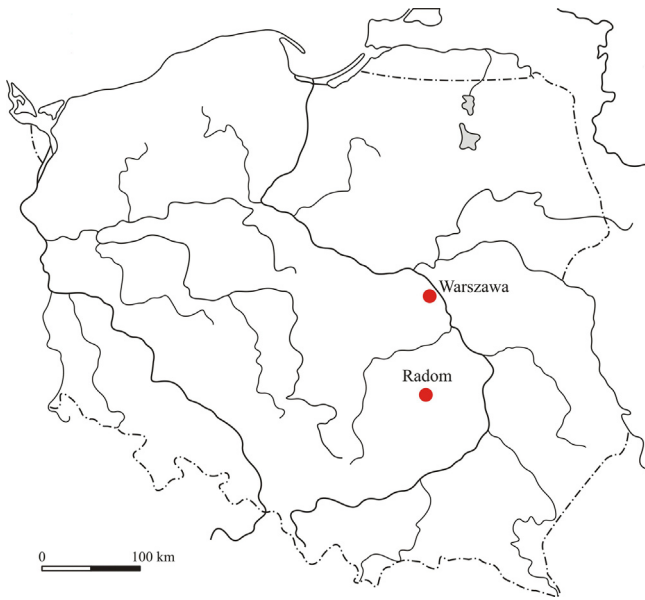


Fig. 1. The geographical location of Radom.

of magnifying glass, while the dimensions of observed cuts were recorded with the use of sliding calliper.

3. Results

Both skeletons were generally well preserved, except for fragile and/or small bones such as the ribs. Slight post-mortem damage (erosion) was recorded on some of the skeletal elements belonging to both individuals.

“Individual A” was an adult male aged between 36 and 45 years at the time of death. The cranium exhibits a defect that

reflects a post-mortem examination. The calotte had been completely detached from the rest of the skull by a sharp tool (Fig. 4). The incision started on the frontal bone approximately 28 mm superior to the supraorbital margins. It affected the superior edge of the left temporal bone 16 mm inferior to the left squamosal suture. Then it continues in a straight line through the left parietal bone approximately 28 mm superior to the left asterion. The cut affects the central part of the occipital bone approximately 40 mm inferior to lambda, after which it continues in a straight line through the right parietal bone approximately 21 mm superior to the right asterion. Then the incision extends across the superior edge of the right temporal bone about 12 mm inferior to the right squamosal suture (Fig. 5A). Horizontal straight shallow cuts about 10 mm long and less than 1 mm wide, located approximately 2 mm inferior to the defect and parallel to it, are present on the left side of the frontal bone; similar shallow cuts, 9 mm in length, located 2 mm inferior to the main defect are present on the right temporal bone (Fig. 5B and C). The cut around the whole cranium is smooth, with regularly shaped striations (kerf patterns) visible on the part located on the right parietal and the occipital bones (Fig. 6). No pathological changes are visible on the endocranial surface of the skull.

This skeleton also exhibits a healed fracture of the mid-shaft of the right tibia that resulted in bone callus and antero-lateral angulation. In total, 21 teeth (eight maxillary and thirteen mandibular) are still present in the alveoli while eight teeth were lost ant-mortem (five maxillary and three mandibular); two carious lesions are present in the maxillary teeth.

“Individual B” was a subadult aged between 12 and 18 months. The only recorded pathological change on this skeleton was slight, active periostosis present on the mid-shafts of both tibiae.

4. Discussion and conclusion

The case of post-mortem examination from Radom is one of the first published examples from the region of Central and Eastern

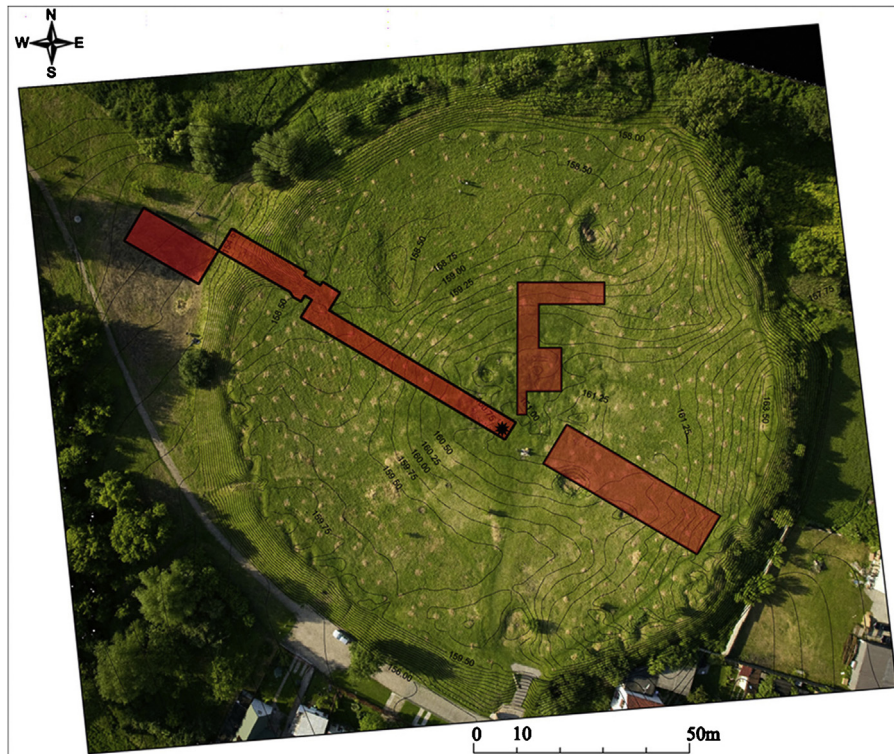


Fig. 2. Orthophotomap of site 1 with trenches excavated between 2010 and 2012. Position of the studied grave is marked by the asterisk.

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