

Troubles in Tuva: Raids and bloody rituals among ancient steppe nomads

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1700 years old skeletons of southsiberian steppe nomads site of Tunnug1. Credit: Tunnug 1 Research Project

Ancient historiographers described steppe nomads as violent people dedicated to warfare and plundering. However, little archeological and

anthropological data are available regarding violence in these communities during the early centuries CE. In a new study in the *American Journal of Physical Anthropology*, an international team led by researchers from the University of Bern and the Russian Academy of Sciences presents new discoveries about the types of violence lived by nomads from Siberia between the 2nd-4th centuries CE. The study, "Troubles in Tuva: patterns of perimortem trauma in a nomadic community from Southern Siberia (2nd-4th c. CE)," was conducted by Dr. Marco Milella from the Department of Physical Anthropology, Institute of Forensic Medicine (IRM), University of Bern and colleagues.

A late antique cemetery in the heart of Siberia

The Republic of Tuva in southern Siberia features a rich archeological record documenting its human occupation since the Paleolithic. Of particular importance are Scythians from the Bronze-Iron Age and Late Antique funerary structures. The site of Tunnug1 is one of the earliest "royal" tombs of Scythian material culture in Siberia known to date, and it has been excavated from 2017 by an archeological mission co-led by Dr. Gino Caspari from the University of Bern as well as Timur Sadykov and Jegor Blochin from the Russian Academy of Sciences. Recent excavations at Tunnug1 have exposed a peripheral cemetery dating to the 2nd-4th centuries CE including the skeletal remains of 87 individuals. Of these, several presented exceptional traces of [violence](#), not exclusively related to warfare, but possibly also due to rituals.

A research team performed a detailed analysis of the traumas found on the skeletal remains. The researchers were interested in reconstructing the possible scenarios leading to the observed anthropological evidence. In conjunction with this study, the Institute of Forensic Medicine is completing the work on stable isotope ratios and ancient DNA of the bones. This will allow in the next future to reconstruct the diet, mobility, genetic affiliation of these people.

Violence, warfare, and rituals

The study demonstrates that 25% of the individuals died as a consequence of interpersonal violence, mostly related to hand-to-hand combat, often represented by traces of decapitation. Even though violence affected mostly men, also women and children were found among the victims. Some of the individuals from Tunnug1 show traces of throat-slitting and scalping. According to Marco Milella, first author of the study "this suggests that violence was not only related to raids and battles, but probably also due to specific, still mysterious, rituals involving the killing of humans and the collection of war trophies."

Political instability and violence in the past

Marco Milella states: "Our data show that the individuals buried at Tunnug1 experienced high levels of violence. During the early centuries CE the whole area of Southern Siberia went through a period of political instability. Our study demonstrates how political changes affected, in the past like nowadays, the life and death of people."

More information: Marco Milella et al, Troubles in Tuva: Patterns of perimortem trauma in a nomadic community from Southern Siberia (second to fourth c. CE), *American Journal of Physical Anthropology* (2020). [DOI: 10.1002/ajpa.24142](https://doi.org/10.1002/ajpa.24142)

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