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**ABSTRACT BOOK**

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## WILD BOARS MEAT SAFETY: IMPORTANCE OF TRICHINELLA CONTROL

Jelena Petrovic<sup>1\*</sup>, Jovan Mirceta<sup>2</sup>, Zivoslav Grgic<sup>1</sup>, Ivan Pusic<sup>1</sup>, Jelena Babic<sup>1</sup>,  
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Trichinellosis is a zoonosis caused by parasitic larvae of genus *Trichinella*, it is an endemic disease in Serbia as in most of European countries. The big trichinella outbreak in Serbia occurred in 2016 year, outbreak was associated with eating of traditional meat products made of wild boar meat. Consumers in Serbia now lost convenience in wild boar meat safety and they have reasonable concerns about their health protection. The aim of paper is to show the prevalence of trichinella in wild boar population of Southern Bačka and Srem and to compare this data with data about the source of the outbreaks in this region. Totally of 903 samples (meat products from domestic pigs 121, diaphragm of wild pigs 782) were examined during five years period from January 2011 until May 2016. All samples were examined by artificial digestion and PCR, one species was determined - *T. spiralis*. Samples of domestic animals in our study were taken from trichinella outbreaks as suspect samples, so the prevalence is high, 18.00% (22 samples). Prevalence in wild pigs was 1.53% (12 samples) and it is higher than prevalence in domestic pigs in endemic regions 0.57% (Živojinović et al., 2009). The spread of trichinellosis is influenced by poor socioeconomic conditions, insufficient education of hunters and farmers, insufficient veterinary control and improper disposal of dead animals. Prevalence of trichinellosis of domestic and wild pigs is high in Serbia and it is a significant risk for human health. These data suggest that in measures for reduction of trichinellosis in domestic animals is necessary to involve measures for reduction of spread of trichinellosis to sylvatic animals.

**Keywords:** *Trichinella*, domestic and wild pigs