

11<sup>th</sup> world congress on

## VIROLOGY AND INFECTIOUS DISEASES

May 17-18, 2018 Tokyo, Japan

Serologic survey of selected viral pathogens in free-ranging brown bears (*Ursus arctos*) from SlovakiaEva Bartova<sup>1</sup>, Eliska Vitaskova<sup>1,2</sup>, Lenka Cernikova<sup>1,2</sup>, Ladislav Molnar<sup>3</sup>, Ivan Holko<sup>4,5</sup>, Peter Supuka<sup>4</sup> and Kamil Sedlak<sup>2</sup><sup>1</sup>University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic<sup>2</sup>State Veterinary Institute Prague, Czech Republic<sup>3</sup>University of Veterinary Medicine and Pharmacy, Slovakia<sup>4</sup>VETSERVIS S R O, Slovakia<sup>5</sup>Slovak University of Agriculture, Slovakia

The aim of study was to test sera of bears from Slovakia for antibodies to 10 viral pathogens. Similar study, in free-ranging European brown bears (*Ursus arctos*), has been performed only in Croatia and Italy. The sera were collected from 24 free-ranging brown bears killed for public safety reasons in six various regions of Slovakia between years 2011 and 2015. We tested sera by indirect fluorescence antibody test for antibodies to canine distemper virus (CDV), canine coronavirus (CCV), canine parvovirus type 2 (CPV-2), canine adenovirus (CAV), canine para-influenza virus type 2 (CPIV-2) and canine herpesvirus type 1 (CHV-1). We used enzyme-linked immunosorbent assay for detection of antibodies to hepatitis E virus (HEV), bluetongue virus (BTV), west-Nile virus (WNV) and Aujeszky's disease virus (ADV). We detected antibodies to CDV in seven animals (29 %), antibodies to CHV in three animals (13%), antibodies to CPV-2 and CPIV-2 in two animals (8%), while antibodies to CCV, WNV and ADV in one animal (4%). To our knowledge, this is the first report of CCV and ADV exposure in free-ranging brown bears.

## Biography

Eva Bartova has completed her PhD in 2003 and Habilitation in 2010 both from University of Veterinary and Pharmaceutical Sciences Brno. She is an Associate Professor at Department of Biology and Wildlife Diseases, FVHE, University of Veterinary and Pharmaceutical Sciences Brno. She has published 125 papers; 40 of them in journals with IF with 296 citations, her H-index is 10. She had contributions at 68 conferences and she had wrote 75 oponent reviews.

bartovae@vfu.cz

## Notes: