ABSTRACT

MEGASARI KUSUMA. Detection of Circulating Antigen Cysticercus cellulosae in Porcine Serum from Assologaima and Wamena Kota District of Jayawijaya Regency, Papua. Under direction of FADJAR SATRIJA and SRI MURTINI.

Cysticercosis is a zoonotic disease that caused by the infiltration of Taenia solium metacestodes. Cysticercosis is a serious public health problem especially in tropical countries like Indonesia. The aimed of this research was to determine cysticercosis by Cysticercus cellulosae antigen detection in porcine serum from Assologaima and Wamena Kota District. A total of 39 samples of porcine serum were taken purposively from pig raised in households in Assologaima and Wamena Kota District. The detection of Cysticercus cellulosae antigen was obtained with ELISA method. The result of this research showed that 20.5% (8/39) serum were positive cysticercosis and 88.6% (31/39) were negative cysticercosis. Serum that positive of cysticercosis from Assologaima District were 33.3% and 5.9% from Wamena Kota. Relative risk of sow that suffering cysticercosis were 1.7 times bigger than boar. It can be conclusion that prevalence of porcine cysticercosis in Assologaima and Wamena Kota District were 20.5% and the prevalence in sow has 1.7 times higher the boar.

Keywords: porcine, ELISA, cysticercosis, Assologaima, Wamena Kota.