

**MORPHOMETRY VARIATION OF MALE AND FEMALE *Ascaris suum*
AT PEGIRIAN SLAUGHTERHOUSE SURABAYA**

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ABSTRACT

Ascaris suum is a parasite nematode that causes infection in swines with high prevalence rates in host populations and usually associated with liver damages called “milk spots” caused by larvae migration, resulting in organ condemnation. The study of morphology has had an important emphasis by developing statistical shape analysis. This study aimed to determine the variation of female and male *Ascaris suum* morphometry in Pegirian Slaughterhouse Surabaya. This study used three region which is the main supplier of swine at Pegirian Slaughterhouse Surabaya. This study used 12 *swine* in each region and took all of *Ascaris suum* that had been found in small intestine. The observations of *Ascaris suum* morphometry were done after measured each of worm in ; Wet Weight (WW), diameter (D), and Total Length (TL). Based on the data analysis, morphometry measurement between male and female *Ascaris suum* in each region have significant different. The variation of morphometry affected by sex, not region. It can be seen from the size of WW, D, and TL that had significant difference ($p < 0.05$) for each sex. Region does not given an affected on morphometry variation of male and female *Ascaris suum*.

Key word: morphometry, nematode, *Ascaris suum*, slaughterhouse, pigs