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**The Effectiveness of Resting Time Before Slaughtering in terms of Malondialdehyde (MDA) and Cortisol Levels in Landrace Pig blood serum**

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**Abstract:**

**Background/Objective:** It is known that livestock transportation is one of the causes of stress in livestock that can affect livestock health, animal welfare, and carcass quality. Indicators of stress before slaughter include free radical activity that causes oxidative stress. The biomarkers of oxidative stress can be seen from the amount of Malondialdehyde (MDA) and cortisol levels in blood serum.

**Methods:** A total of 18 pigs were divided into two groups, those are pigs with a rest time of 6-8 hours and a rest time of 12-24 hours, MDA levels were tested using the TBARS method and cortisol using Elisa which was then analyzed statistically.

**Results:** The results of the statistical analysis of the study showed a significant difference (p<0.05) between the group resting 6-8 hours with rest periods of 12-24 hours. The 6-8 hour rest group had levels of Malondialdehyde (MDA) (16.49±11.82) and cortisol (14.68±6.98) while the 12-24 hour rest group had levels of Malondialdehyde (MDA) (5,56±4.49) and cortisol (5.28±4.13).

**Conclusion:** The results showed that there was a decrease in stress levels as marked by a decrease in levels of Malondialdehyde (MDA) and cortisol in pigs that were rested for 12-24 hours before slaughter.

**Keywords: Rest Time, Pig, *Malondialdehyde* (MDA), Cortisol**