



THE INFLUENCE OF AGE TO THE VOLUME AND MOTILITY OF LANDRACE BOAR'S SPERM AT BATURITI ARTIFICIAL INSEMINATION CENTER

Research Group on Pig Livestock
Animal Husbandry, Udayana University

Komang Budaarsa
Ni Luh Gde Sumardani
Tjok Istri Putri
Antonius Wayan Puger



International Conference on Science , Technology and Humanities
(ICoSTH 2018)
Bali, October 22-23, 2018

INTRODUCTION



- ◉ Sperm quality have been a associated with age for many years.
- ◉ In Bali, boar sperm was produced in UPT.BIBD at Baturiti.
- ◉ Based on 2016/2017 data: The quality of boar sperm has decreased.
- ◉ *This study aims to determine the influence of age to the volume and motility of Landrace boar sperm's*

RESEARCH METHODE



- Total of 5 boars were used in this study, with 2 different boar of block ages
- Block A: 2-4 year; Block B: 6-8 year
- Ejaculate form each boar was examined until 5 month





- ◉ 3-4 glass slides were prepared for each boar sample; a drop of semen was placed on each glass slides
- ◉ This sample was examined with 5 spaces in dashboard of glass slide
- ◉ Variable: volume & motility of boar's sperm
- ◉ Analysis: *Two Independence Sample T-test*



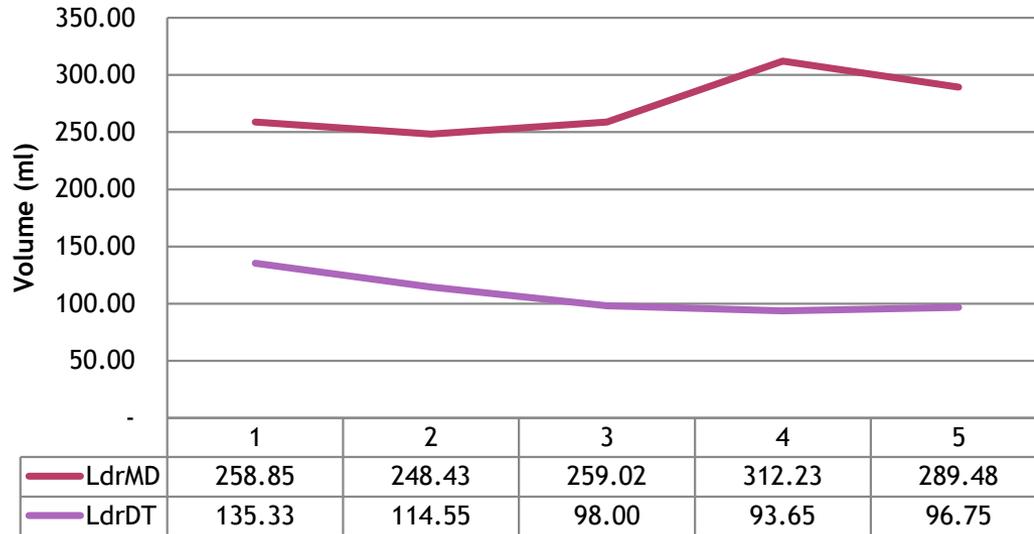
RESULTS & DISCUSSION

Table 1. Volume and Motility of Landrace boar sperm's in UPT. BIBD

Variable	strain	A	B
		2-4 year	6-8 year
Sperm volume (ml)	Landrace	273,60 ^a	107,66 ^b
Sperm motility (%)	Landrace	73,86 ^a	62,92 ^b
Number of products (tube)	Landrace	134,07 ^a	30,10 ^b

- The research was conducted at Ldr. boars in block A have semen volume average 273.60 ml and sperm motility 73.86 %
- While in block B have semen volume average 107.66 ml and sperm motility 62.92%
- The quality of boar sperm's in the UPT BIBD is affected by the age of boar.
- Boar's are getting older, their sperm production will decrease.
- These conditions are influenced by: food nutrition, feed, frequency of sperm collection, diluent, temperature, and environment

Sperm volume of Landrace boar



Sperm motility of Landrace boar



CONCLUSION

- It can be concluded that Landrace boars in block A (2-4 year) had higher volume and sperm motility (60.65% and 14.81%) compared to Landrace boars in block B (6-8 year).
- The quality of boar sperm's in the UPT BIBD is affected by the age of boar.
- Boar's are getting older, their sperm production will decrease.



TERIMAKASIH ~ THANK YOU