

# STUDY OF THE RELATIONSHIP BETWEEN THE AGE OF BOAR AND ITS POST-THAW SPERM QUALITY

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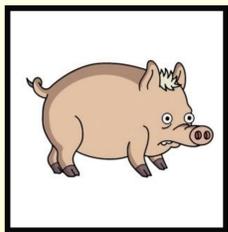
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## Introduction and Aims

The age of the boar influences the sperm quality of ejaculates, but it is unclear whether it can also affect the post-thaw sperm quality. The aim of this study was to determine the influence of the age of the boars in the post-thaw sperm quality.

## Material and Methods

24 boars were used



**Group A**

(n=9): up to 24 months



**Group B**

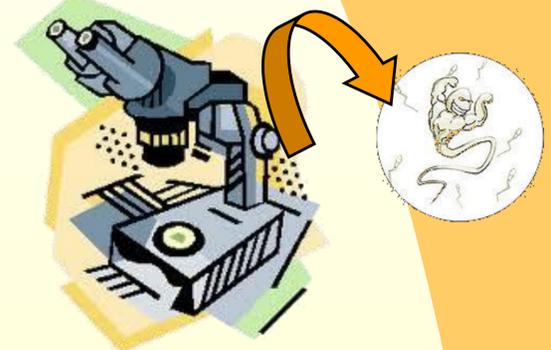
(n=15): 24 to 48 months

Sperm rich fraction centrifuged 2400g/3min and resuspended in lactose-egg yolk-glycerol ( $1 \times 10^9$  cells/mL)



Freezing at 0.5 mL straws in a programmable freezer and thawing at 37°C for 20s

### Sperm Assessment



#### Sperm motility (ISAS® Proiser)

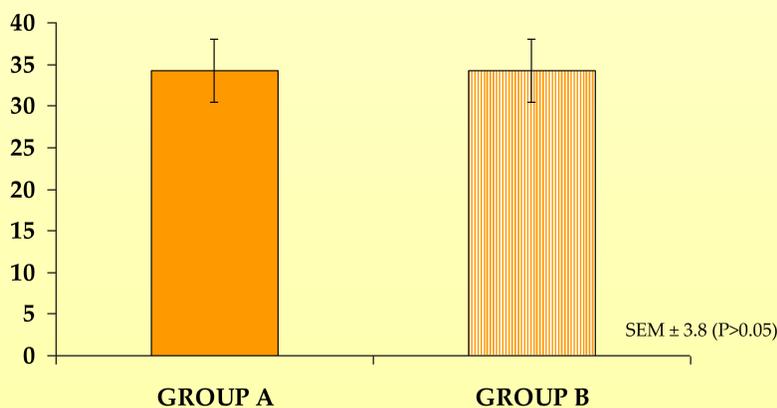
- % Total motile sperm
- % Progressively motile sperm

#### % Sperm with intact plasma membrane (SYBR14/PI)

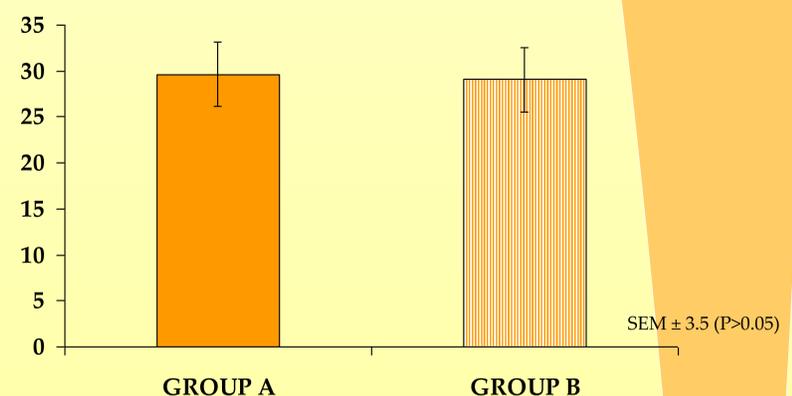
#### % Sperm with DNA fragmentation (acridine orange)

## Results

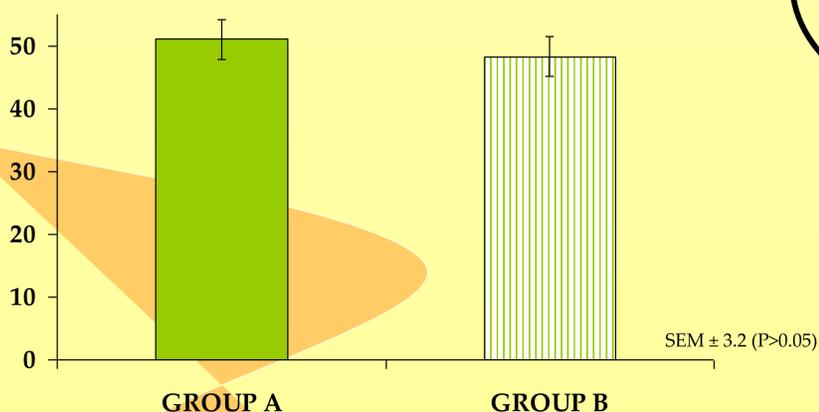
### % Total motile sperm



### % Progressively motile sperm

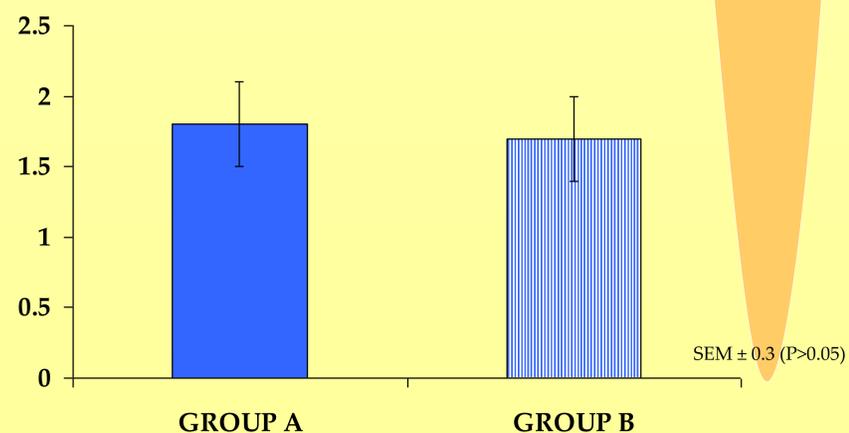


### % Sperm with intact plasma membrane



There were not significant differences between group A and B in any parameter of quality. (P>0.05)

### % Sperm with DNA fragmentation



## Conclusion

Our data suggest that the age of the boar in the range evaluated has no influence on the post-thaw sperm quality