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The Effects Of Tualang Honey On Sperm Profile In High Cholesterol Diet Induction Animal Model

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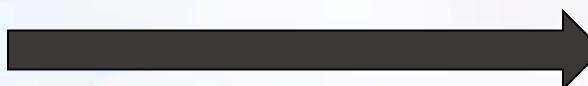
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OUTLINE

- BACKGROUND
- OBJECTIVE
- METHODS
- RESULTS
- CONCLUSION
- REFERENCES
- ACKNOWLEDGMENTS

BACKGROUND

HYPERCHOLESTEROLAEMIA



MALE INFERTILITY

Whitfield et al., 2015

MAIN RISK FACTOR:
-HIGH CHOLESTEROL DIET



TUALANG HONEY
SUPPLEMENT

Contains more flavonoids
& phenolic acids:
anti-oxidative &
anti-inflammatory

(Ismail et al., 2014)

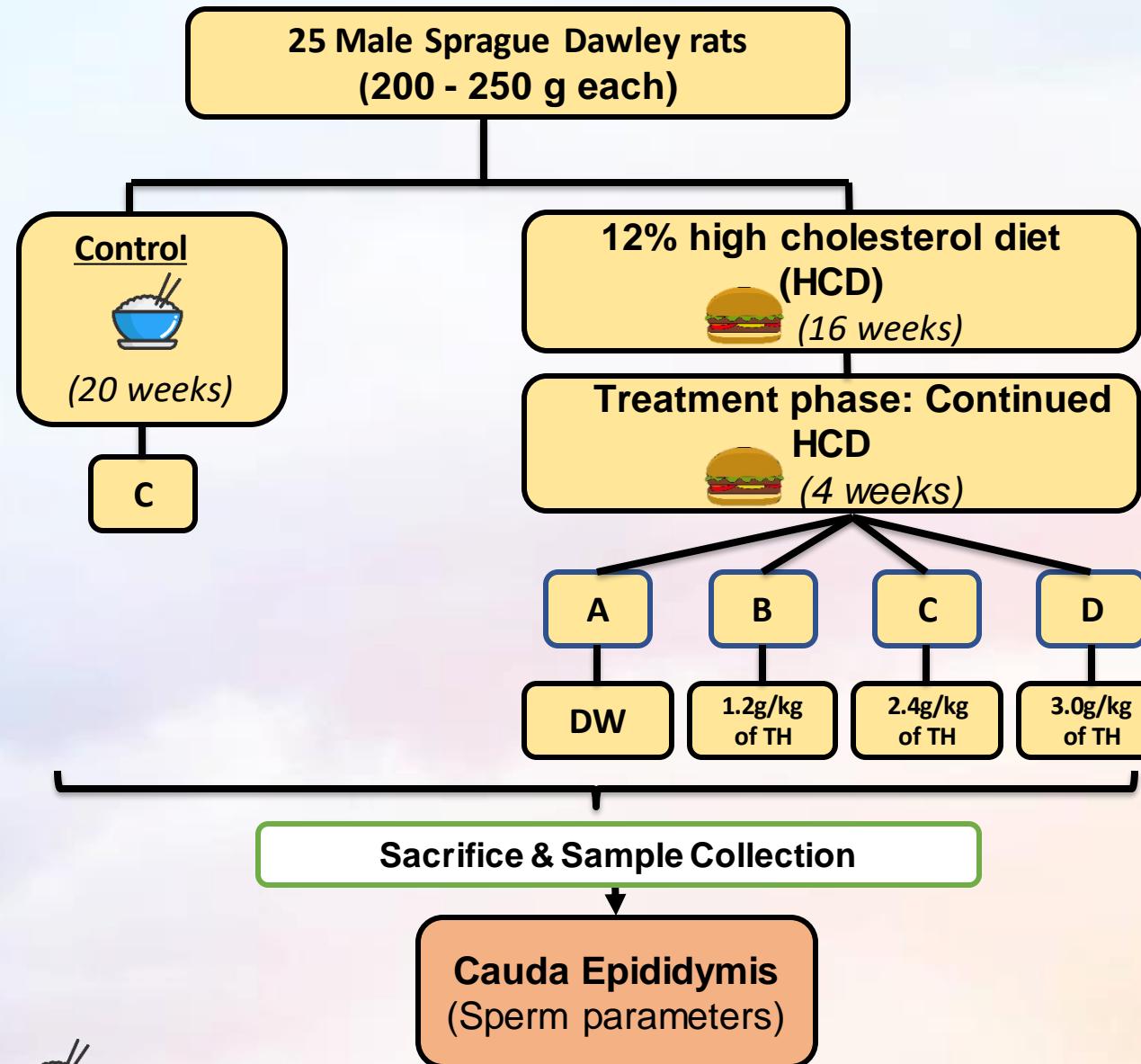
SPERM PARAMETERS:

- SPERM CONCENTRATION
- SPERM VIABILITY
- SPERM MOTILITY
- SPERM PROGRESSIVE MOTILITY

OBJECTIVE

- ❖ This study aimed to determine the effects of TH on the sperm parameters of high cholesterol diet administered rats.
- ❖ Promote the use of alternative medicine in the management of male infertility.

METHODS



Normal diet: standard rat pellet



12% high cholesterol diet (powdered)

DW: Distilled water

TH: Tualang Honey

RESULTS

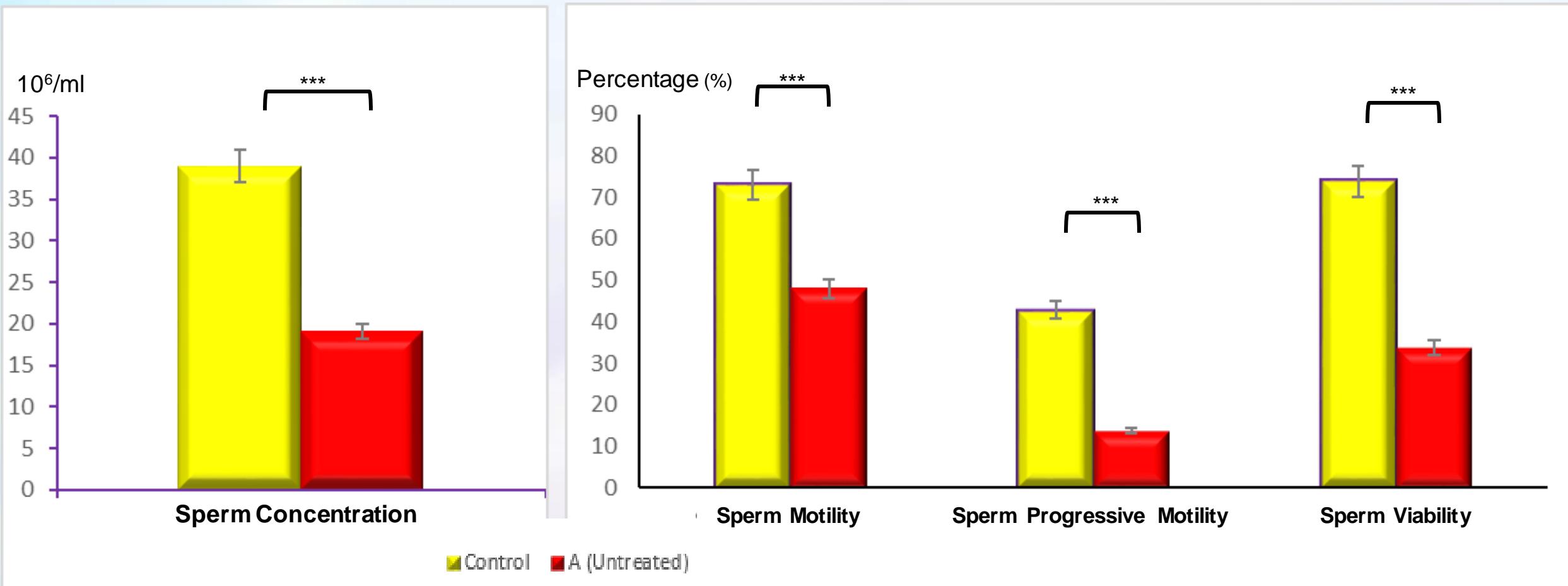


Figure 1: Mean (SD) sperm parameters of Control and Group A (untreated).

***: $p < 0.001$

RESULTS

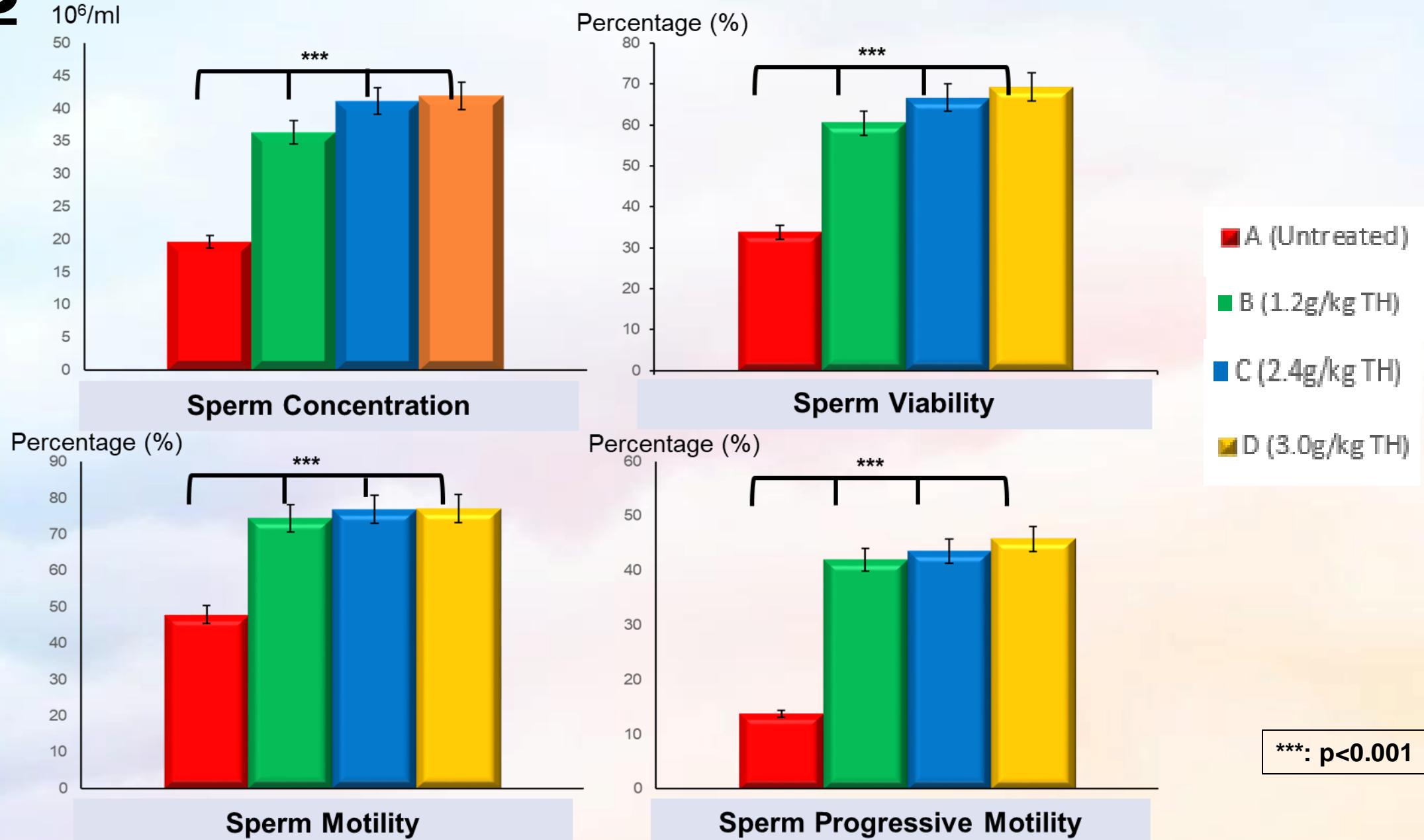
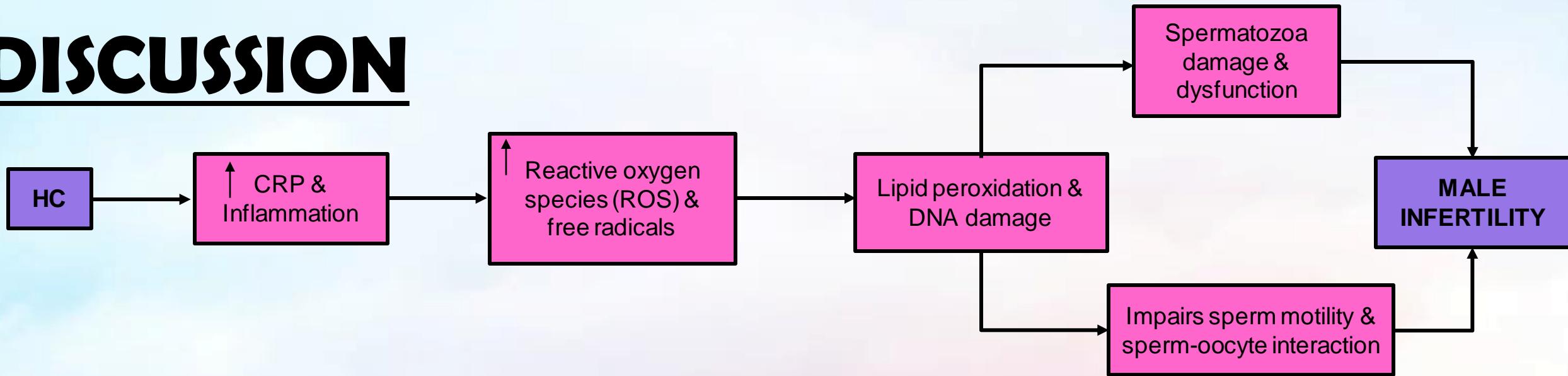
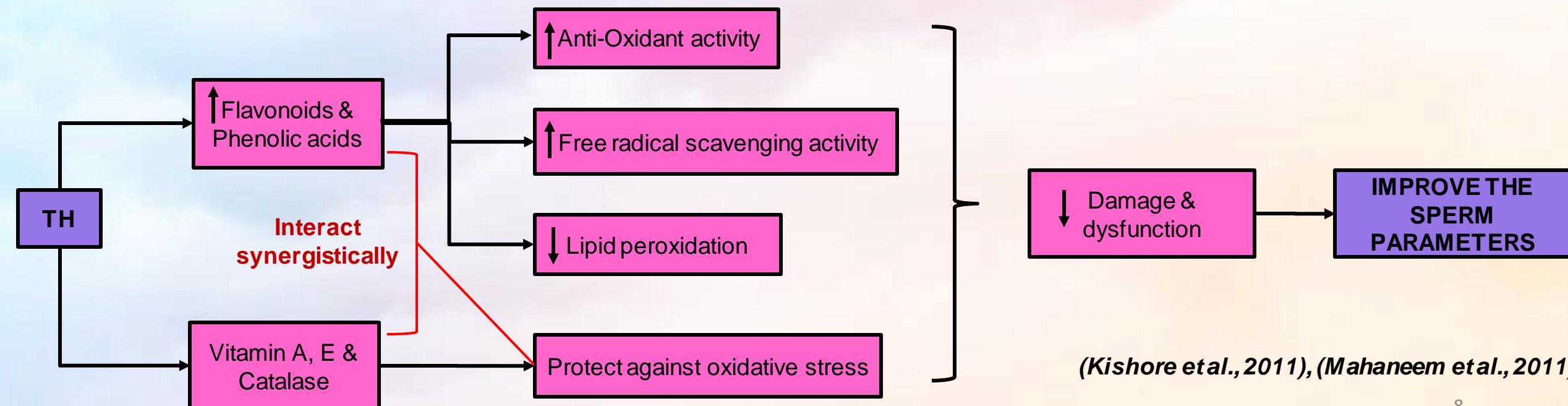


Figure 2: Mean (SD) sperm parameters of Group A, B, C and D.

DISCUSSION



(Sedes et al., 2018)



(Kishore et al., 2011), (Mahaneem et al., 2011)

CONCLUSION

- ✿ TH supplementation of high cholesterol diet administered rats →✿ Improved the sperm parameters
- ✿ The higher the dosage →✿ The higher the improvement of sperm parameters
- ✿ Further explore the potential of TH in improving male infertility

LIMITATIONS

- ✿ Further study should be done on the effects of TH to:
- ✿ Sperm morphology, testicular histological changes and hormone such as **testosterone, Follicular Stimulating Hormone (FSH) and Luteinizing Hormone (LH)**.

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THANK YOU