

ASSISTED REPRODUCTION: *DATURA*  
*STRAMONIUM* EXTRACT AS  
APHRODISIAC IN GOAT BUCK

BY

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# INTRODUCTION

- Penile erection and sustained erection are necessity for successful sexual in male animal
- Attempts to improve the reproductive efficiency of animals have been tried with many drugs/plant extracts (Daals *et al.*,2000)
- *Datura stramonium* is known to increase the sexual appetite and power (Brandes,1821)

# OBJECTIVE

- To explore the aphrodisiac potential of *Datura stramonium* as it may affect semen output and seminal characteristics in the goat buck.

# MATERIALS AND METHODS

- 25 WAD bucks were involved in a CRD experiment of 5 bucks per treatment
- The treatment consist of 0.05 saline solution and ml of extract 0.02 ,0.04,0.06 and 0.08
- The bucks received dosages of the extract for 10 consecutive days (Brozos *et al.*,1998)
- A week after administration, semen was collected, evaluated for mass motility, activity, color, sperm cell count.

# STATISTICS

- All data were analyzed by SAS and means tested in COSTAT programme.

# RESULTS AND DISCUSSION

## Mean spermogrammic characteristics of WAD Bucks as influenced by Datura plant extract

Parameters			Treatments	(ml/kgBW)		
	0.05 saline	0.02	0.04	0.06	0.08	SE
Semen vol., ml	0.56	0.12	0.11	0.11	0.10	0.061
Mass activity	1.08	2.08	2.42	2.58	2.58	0.083
Mass motility, %	64.17	71.67	77.78	80.00	78.33	2.841
Ejaculate color	White	Milky/cream	Milky/cream	Milky/cream	creamy	-
Sperm Conc. X10 <sup>9</sup> /ml	1.02	1.32	1.55	1.61	1.51	0.051
Semen pH	7.4	7.3	7.4	7.5	7.5	0.105

- Semen volume from bucks on Datura doses was significantly reduced ( $P < 0.05$ )
- Semen color of bucks on Datura was creamy, white for control, the creamy color compares well with report on WAD buck (Bitto & Egbunike, 2012)
- Datura extract evoke increased semen mass activity, motility, and concentration, peaked at 0.06 dosage and compared well with estimate for pubertal and adult WAD buck (Bitto & Egbunike 2012)
- Datura extract does not affect PH of the semen fluid medium

# CONCLUSION

- Datura extract positively influenced the quality of the semen in the goat
- At dosage 0.06ml/kgBW, Datura extract could be useful in enhancing the sexual/breeding capabilities of genetically proven goat in old age and/or weak erectile function.

**THANKS FOR LISTENING**