

MALE FERTILITY

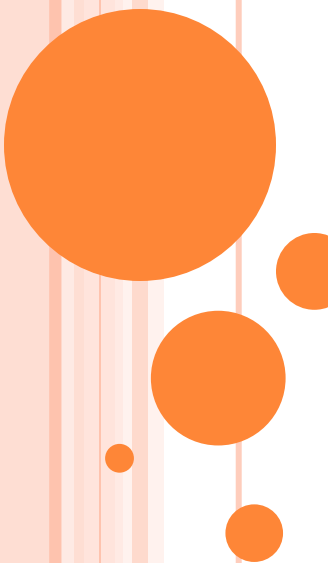
EVALUATION OF SEMEN

2022-2023

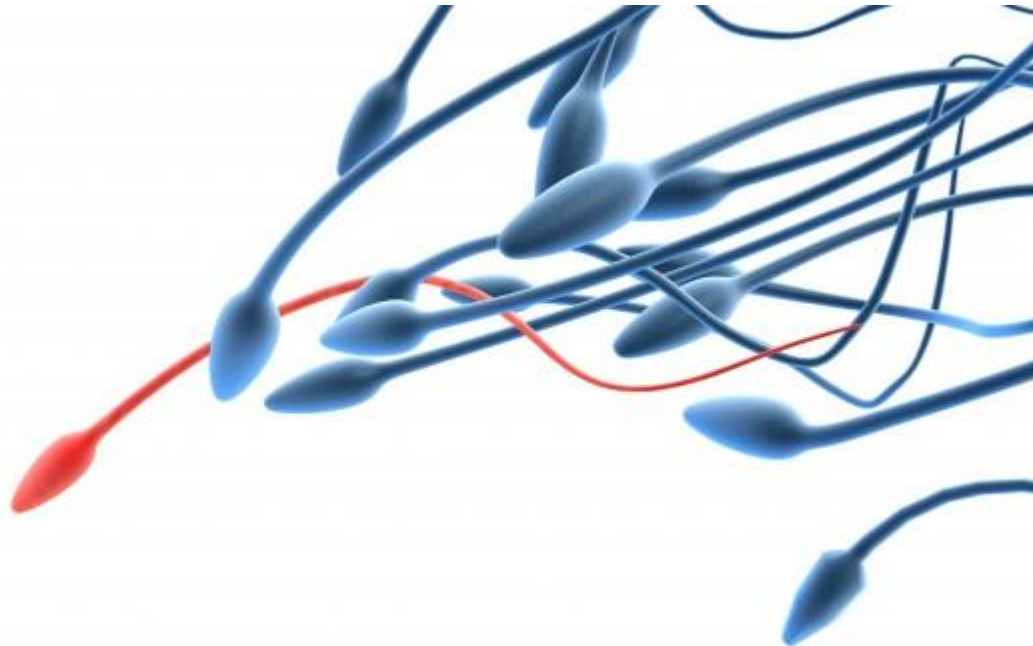
DR. YASEEN M.

12/8/2022

Poster Text



SEMEN IS THE LIQUID CELLULAR SUSPENSION CONTAINING SPERMATOMZOA (MALE GAMETES),AND SECRETION OF ACCESSORY GLANDS (SEMINAL PLASMA) OF MALE REPRODUCTIVE TRACT.



Semen Evaluation consists of:

1-Macroscopical Evaluation

A-Color of semen :-normal color is **milky to creamy**, may be light Yellow due to riboflavin ;Secreted from seminal vesicles in individual bull and buck. Clots in semen is due to the presence of pus ,**red** and **brown** color ,this indicate an infection ,in male reproductive tract .**Light green color** (presence of faces).**Yellow color** (presence of urine)

All this colors are abnormal ,so semen should be discharge.

B-Volume of semen:-by using graduated tube and this is differential according to sir Breeding & age .

2-Microscopical Evaluation: this is the physiological characters of sperm

A -Motility :-

1-Mass m.: normal semen exhibit wave like motion when examined under Microscope(X10).

2-Individual m.: motile of individual sperm (X40).

A-Normal m.; progressively forward motile.

B-Abnormal m.;-Progressively backward motile (defects in tail)

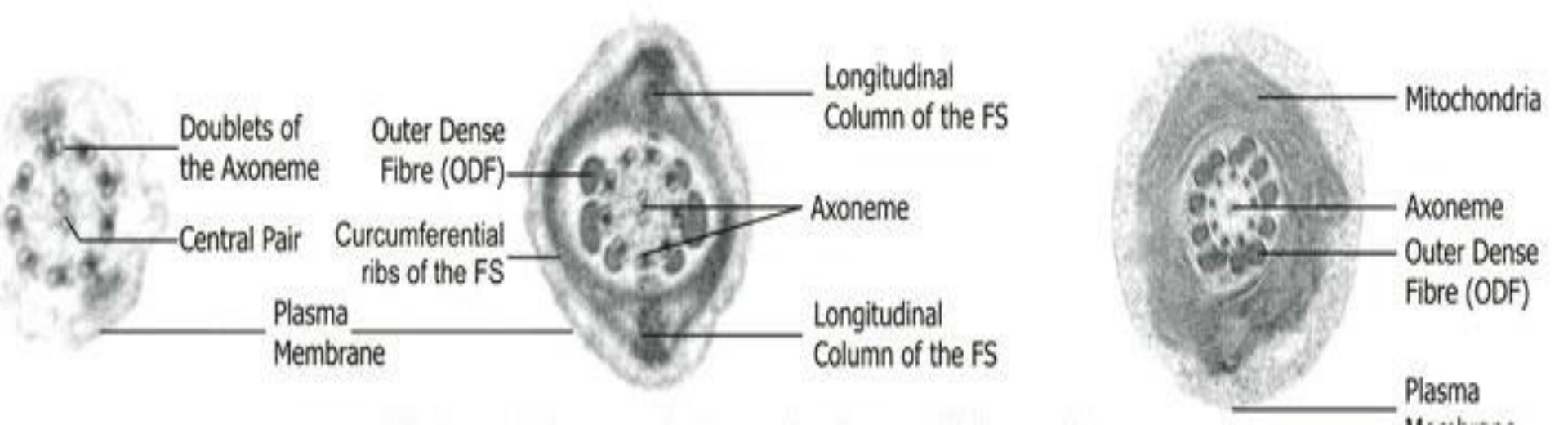
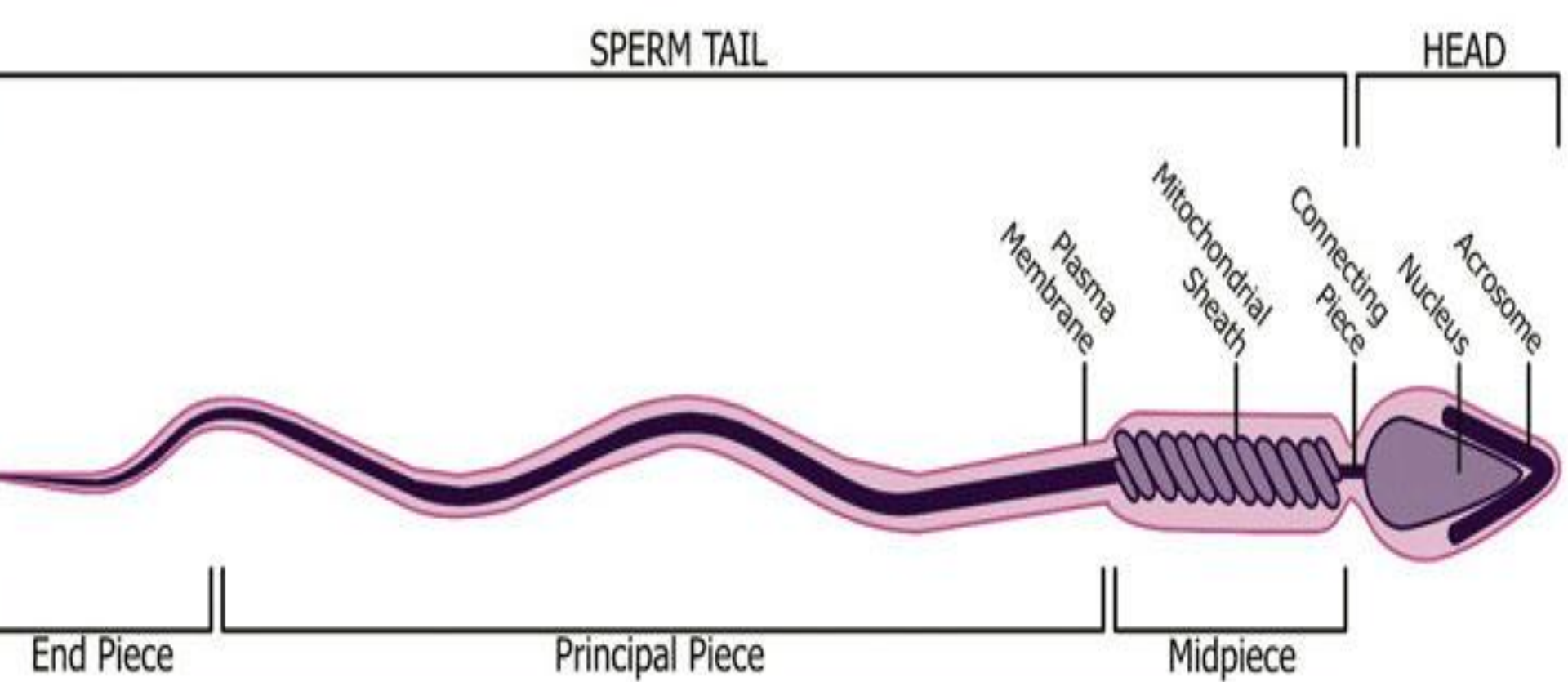
-circular motile(defects in tail)

-Oscillatory motile (defect in head).

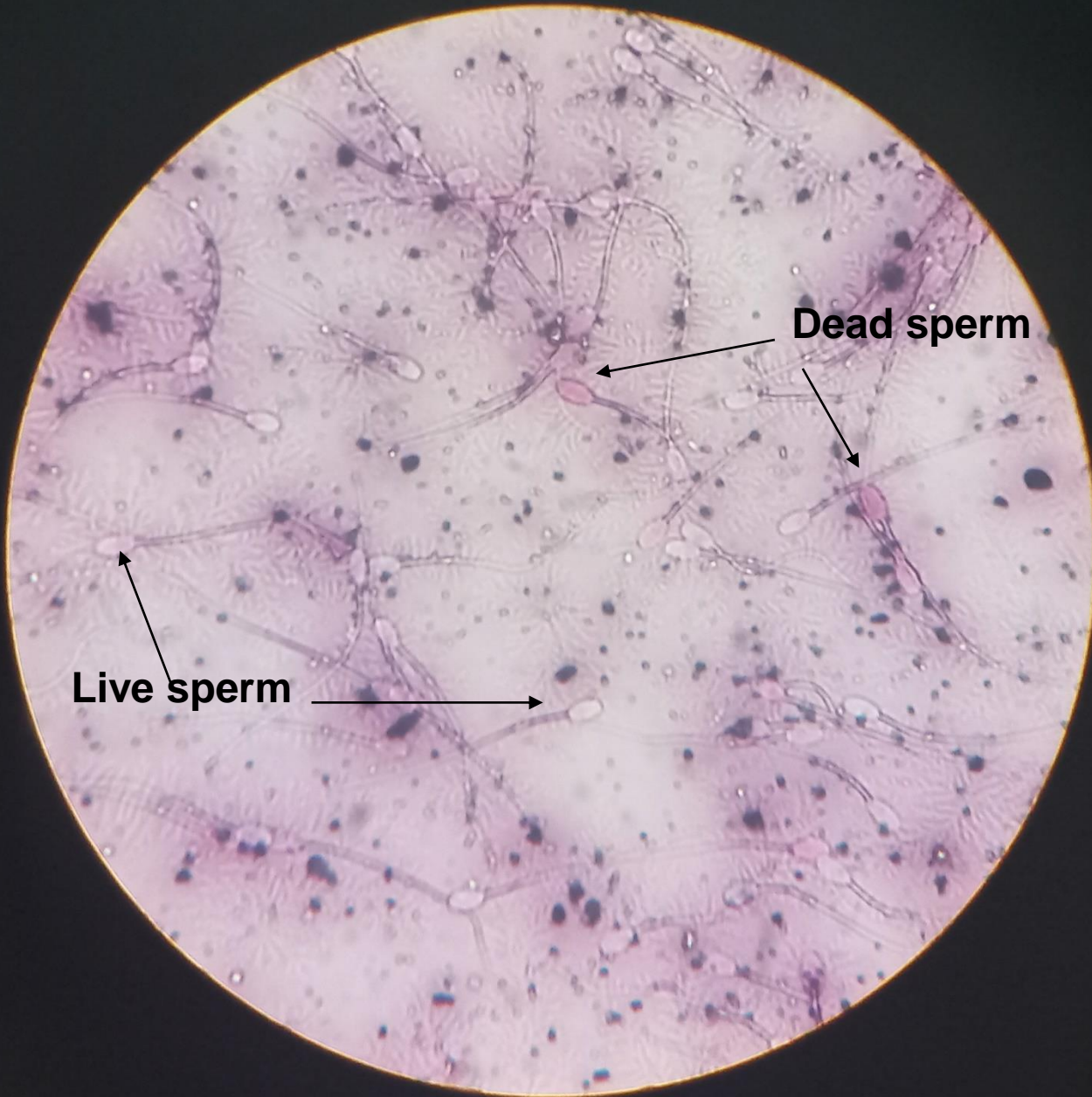
B -Dead &live sperm: using vital stains such as Eosin-nigrosin stain.

C -Morphology of sperm :

Normal sperm consist from :
head and tail (Mid piece, Main piece and End piece) .

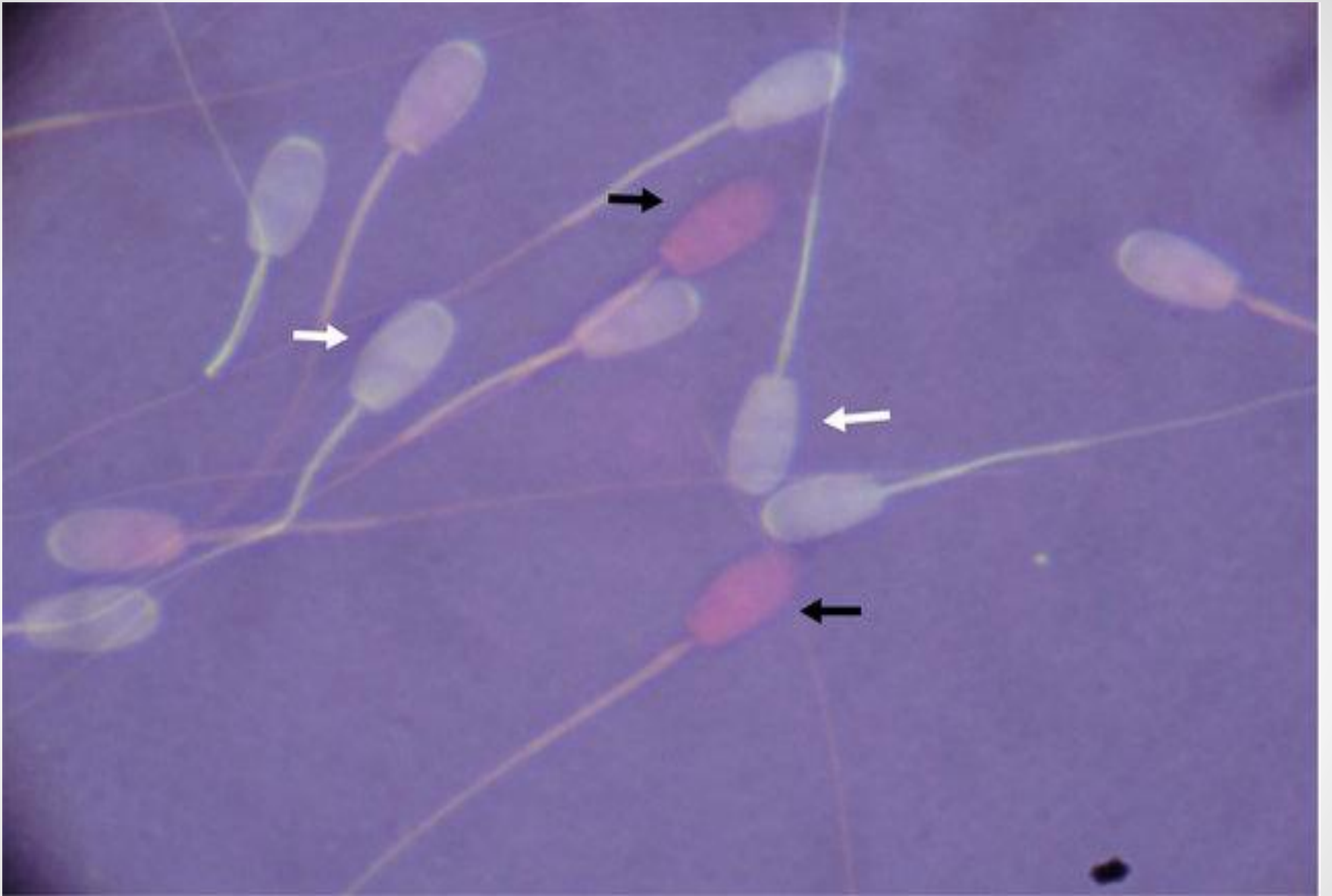


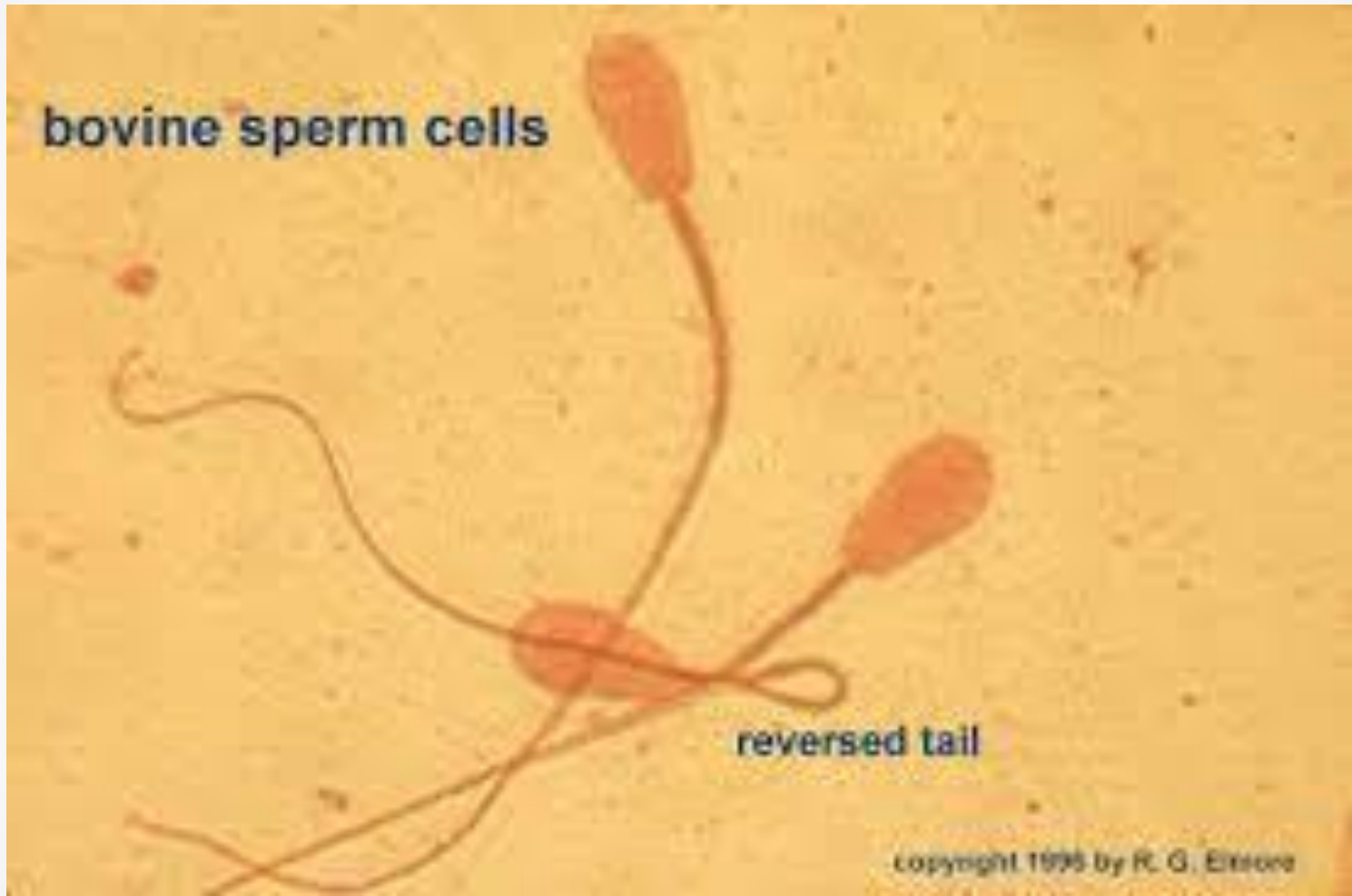


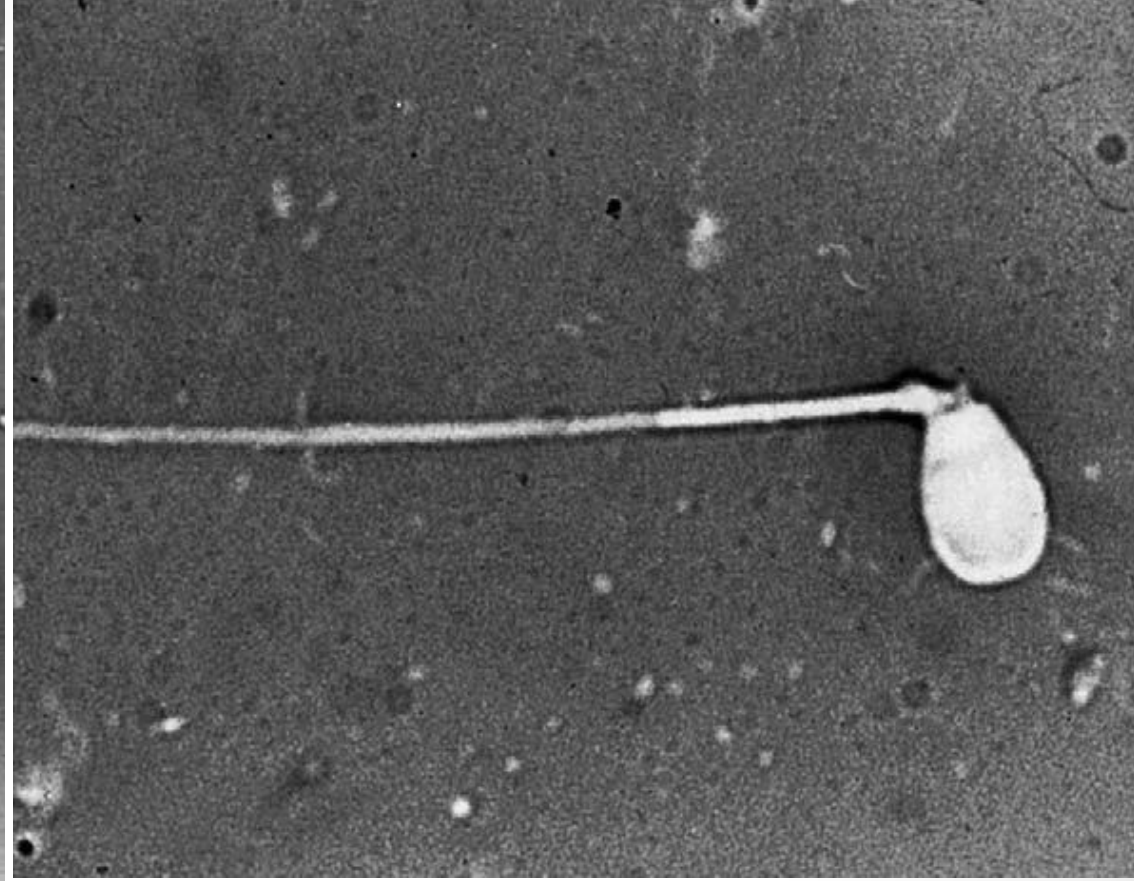
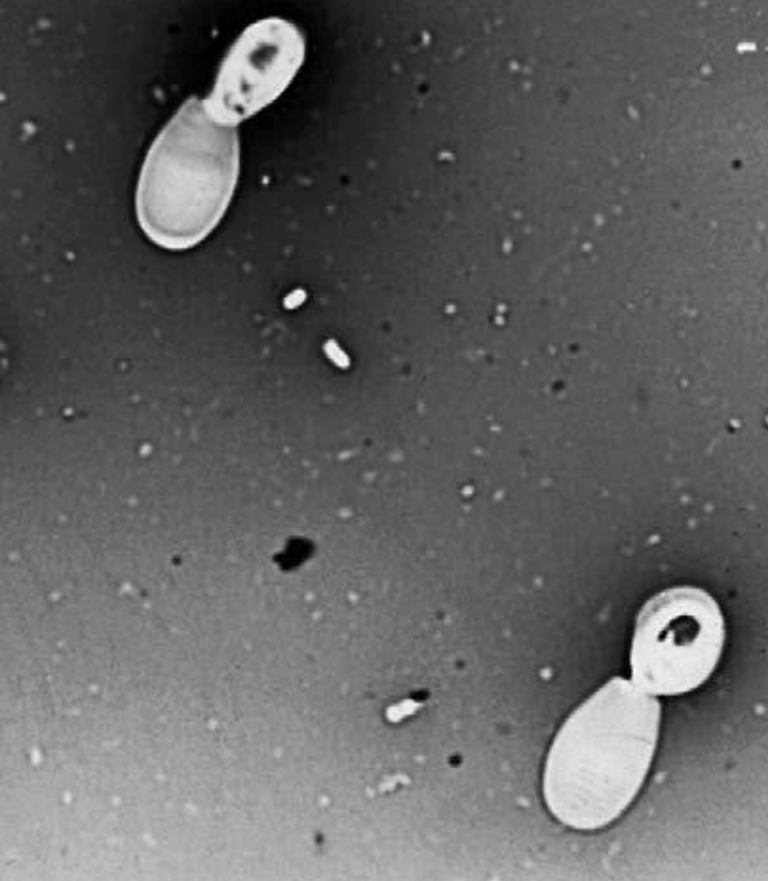


Live sperm

Dead sperm







Defects of the sperm (a) 'Coiled-tail' – a defect of formation of the midpiece, (b) fractured neck

Characteristics of Semen in male farm animals

Characteristics	Bull	Ram	Buck	Stallion
Ejaculate volume(ml)	2-10	0.5-2.0	0.5-1.5	60-250
Sperm Concentration(million/ml)	800-2000	1250-3000	2500-5000	150-600
Individual m.(%)	>75	>90	>90	>60
Morphologically normal sperm(%)	>75	>80	>90	>60

RBC pipette

