
Contents

Spermatogenesis	3
Source of spermatozoa in spermatogenesis	3
Source of germ cells in spermatogenesis	3
Number of spermatozoa formed from one spermatogonium in spermatogenesis	3
List of phases of spermatogenesis	3
List of Activities in multiplication phase	3
Primary germ cells in spermatogenesis	3
Type of cell division exhibited by primary germ cells in multiplication phase in spermatogenesis	4
Type of spermatogonia developed by primary germ cells on the basis of chromosomes	4
Hormone influencing the activity of primary germ cells in spermatogenesis . .	4
List of activities in growth phase in spermatogenesis	4
Primary spermatocytes in spermatogenesis	4
List of activities in maturation phase in spermatogenesis	4
Term for first maturation division in spermatogenesis	4
Term for second maturation division in spermatogenesis	4
Source for first maturation division in spermatogenesis	5
Products in first maturation division in spermatogenesis	5
Number of secondary spermatocyte formed in first maturation division in spermatogenesis	5
Type of cell as secondary spermatocytes on the basis of chromosome	5
Source of second maturation division in spermatogenesis	5
Products in second maturation division in spermatogenesis	5
Number of spermatogenesis produced in second maturation division in spermatogenesis	5
Type of cell as exhibited by spermatid on the basis of chromosomes	5
Spermiogenesis in spermatogenesis	6
Term for conversion of spermatids into spermatozoa	6
Magnitude of range of length of spermatozoa	6
List of parts of spermatozoa	6

Contents in head in spermatozoa in spermatogenesis	6
Contents in Neck in spermatozoa in spermatogenesis	6
Contents in Middle piece in spermatozoa spermatogenesis	6
Contents in Tail in speramtozoa in spermatogenesis	7
Number of centrioles present in neck in spermatozoa in spermatogenesis	7
List of centrioles present in neck in spermatozoa in spermatogenesis	7
Function of proximal centriole in spermatozoa in spermatogenesis	7
Function of distal centriole in spermatozoa in spermatogenesis	7
Number of spermatozoa in healthy male as normal sperm count	7
Number of spermatozoa count in person having low sperm count	7

Spermatogenesis

- Process of formation of spermatozoa
- From germ cells of germinal epithelium

Source of spermatozoa in spermatogenesis

Germ cells

Source of germ cells in spermatogenesis

- Germinal epithelium in testis

Number of spermatozoa formed from one spermatogonium in spermatogenesis

4

List of phases of spermatogenesis

- Multiplication
- Growth
- Maturation

List of Activities in multiplication phase

- Repeated multiplication of primordial germ cells
- Formation of spermatogonia

Primary germ cells in spermatogenesis

- Primordial germ cells of germinal epithelium

Type of cell division exhibited by primary germ cells in multiplication phase in spermatogenesis

Mitosis

Type of spermatogonia developed by primary germ cells on the basis of chromosomes

Diploid

Hormone influencing the activity of primary germ cells in spermatogenesis

Follicle stimulating hormone

List of activities in growth phase in spermatogenesis

- Increase size of diploid spermatogonia

Primary spermatocytes in spermatogenesis

Mature spermatogonia

List of activities in maturation phase in spermatogenesis

- First maturation division
- Second maturation division

Term for first maturation division in spermatogenesis

Meiosis I

Term for second maturation division in spermatogenesis

Meiosis II

Source for first maturation division in spermatogenesis

Primary spermatocytes

Products in first maturation division in spermatogenesis

Secondary spermatocytes

Number of secondary spermatocyte formed in first maturation division in spermatogenesis

2

Type of cell as secondary spermatocytes on the basis of chromosome

Haploid

Source of second maturation division in spermatogenesis

Secondary spermatocytes

Products in second maturation division in spermatogenesis

Spermatids

Number of spermatogenesis produced in second maturation division in spermatogenesis

2

Type of cell as exhibited by spermatid on the basis of chromosomes

Haploid

Spermiogenesis in spermatogenesis

Conversion of spermatid into spermatozoa

Term for conversion of spermatids into spermatozoa

Spermiogenesis

Magnitude of range of length of spermatozoa

50 microns - 2.5 microns

List of parts of spermatozoa

- Head
- Neck
- Middle piece
- Tail

Contents in head in spermatozoa in spermatogenesis

- Nucleus
- Cytoplasm
- Acrosome

Contents in Neck in spermatozoa in spermatogenesis

- Centrioles

Contents in Middle piece in spermatozoa spermatogenesis

- Mitochondria

Contents in Tail in speramtozoa in spermatogenesis

- Flagella

Number of centrioles present in neck in spermatozoa in spermatogenesis

2

List of centrioles present in neck in spermatozoa in spermatogenesis

- Proximal centriole
- Distal centriole

Function of proximal centriole in spermatozoa in spermatogenesis

Cleavage in zygote

Function of distal centriole in spermatozoa in spermatogenesis

Attachement of flagella to neck

Number of spermatozoa in healthy male as normal sperm count

200 million

Number of spermatozoa count in person having low sperm count

50 million