**Semen collection**

1- **Direct Method**

Take semen immediately from vagina after coitus.

**Advantage:** easy methods, no facilities.

**Disadvantage:** not take the true volume, contaminated of semen.

1- **Siphoning**--Follows normal copulation; pipette inserted into vagina after ejaculation to syphon out semen.

**Advantage:** Can be used to artificially inseminate (AI) if needed; semen satisfactory for evaluation

**Disadvantage:**--Semen is contaminated with fluids from female tract

**Semen Collection: Siphon**
2. **Spooning**—Follows normal copulation; long-handled sterile spoon used to dip semen from floor of anterior vagina

**Advantage**—Semen satisfactory for evaluation

**Disadvantage**—Semen contaminated with fluids from female tract

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**Semen Collection: Spoon**

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3. **Sponge**—Sponge placed in vagina before copulation

**Advantage**—Semen satisfactory for evaluation
2- **Massaging**

Massage (bull)--Insert hand into rectum to massage the area of the ampullae, vesicular glands and prostate. Causes sperm to pass through the urethra by gravity to drip from the prepuce

**Advantage**--Bull easy to handle, not excited

**Disadvantage**--Poor quality semen; higher incidence of bacteria
3- **Urethral fistula**

Tube placed under anus connected to male urethra allowing passage of urine through urethra proper or sperm collection under anus at time of copulation

**Advantage**--Experimentation; pure sample

**Disadvantage**--Requires exacting surgery
4- **Electroejaculation**

Electrode inserted into rectum to stimulate ejaculation. Not widely used with boars or stallions.

**Advantage**—Collect semen without sexual response from the male; collect from males unable to copulate; female in estrus not needed

**Disadvantage**—Equipment cost, possibility of misuse
5. **Condom or Breeder’s bag**

Condom placed over glans penis of stallion before he mounts the mare

Used in stallion fitted on it during sexual excitement, after he has been washed. The stallion is then allowed to breed the mare, and as he dismounts, the condom is removed and taken into the laboratory

For filtering and evaluating the semen

**Advantage**--Entire volume may be collected

**Disadvantage**--Exacting technique required
VAGINAL INSERT--Tapered insert with a flange on the end inserted in vagina before copulation

Advantage--Collection is free of contamination

Disadvantage--Difficult to insert; some males don't like the way it feels; penis could bypass flange; penis may be damaged because of the flange rigidity
Semen Collection: Vaginal Insert

6- **Artificial vagina**

Made to simulate animal's vagina, consists of outer support with inner jacket containing temperature-controlled water and pressure, and collecting funnel and container. As male mounts the female, the sheath is grasped and the penis is directed into the artificial vagina for ejaculation.

**Advantage**--Closest to natural conditions

**Disadvantage**--Must simulate normal or best temperature, pressure, lubrication and position for optimum male response; animals must be treated as individuals since they differ.
Colorado Model  AV collection kit

Missouri Model  AV with a bladder
Roanoke Model

A photograph showing the use of the Roanoke Model for semen collection in horses.