Delivering Quality Artificial Insemination (AI) Services

Objective

- To produce progeny with improved production
  - to increase returns to farmers
- To improve Conception Rate
  - to reduce economic losses

Factors Affecting Quality of AI Service

- Source of Semen
- Skills of AI Technician
- Maintenance of Cold Chain
- LN procurement and delivery
- Quality of AI equipment and accessories
- Adherence to Standard Operating Procedures (SOPs)
- Information System – Data Capturing
- Efficient Monitoring and Supervisory System
- A good Breeding Policy and a mechanism for its implementation

Source of Semen

Only from “A” or “B” graded semen stations

- **Ensures semen from a completely bio-secure production facility**
- **Semen from genetically superior bulls with production parameters well above minimum prescribed**
- **Ensures semen from disease free bulls**
- **Semen which has passed all the mandatory quality tests to assure best conception rates**

Skills of AI Technician

- **Play important role in getting high Conception Rates**
- **Should be trained at an accredited Training Centre**
- **Should have undergone a refresher training**

Maintenance of cold Chain

- **Timely replenishment of LN**
- **Timely replacement of damaged containers**
- **Proper transfer of semen in the field**

LN procurement and delivery

- **Estimating demand of LN for each cluster of centres**
- **Placement of storage silos at strategic locations**
- **Arranging timely delivery of LN either through supplier or through own arrangement**

Quality of AI Equipment and accessories

Specially AI gun, Sheath, Tags and gloves

Adherence to Standard Operating Procedures (SOPs)

- Doorstep AI delivery
- Identification of animal
- Thawing procedures
- Follow up for repeat AI, PD and calving
- Getting repeat breeders treated
- Record keeping

Information System – Data Capturing

Requirement of the programme

- Bull performance
- Performance of AIT
- Performance each level
- Performance of a geographical area
- Performance of a breed or species – service period, calving interval, CR etc
- Sale rate, abortion rate, Sex ratios
- AI coverage
- Feed back to farmers

Existing system and its deficiencies

Efficient monitoring and Supervisory System

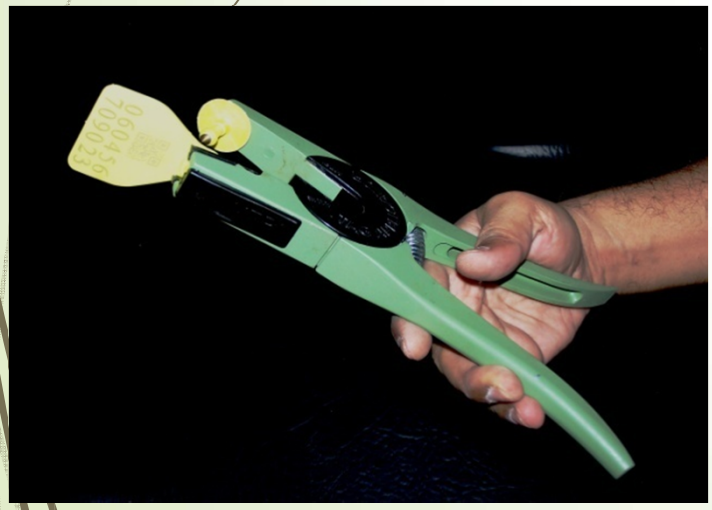
- **Accurate and reliable information**
- **Regular Supervision and Review – mobility**
- **Require adequate and trained manpower**

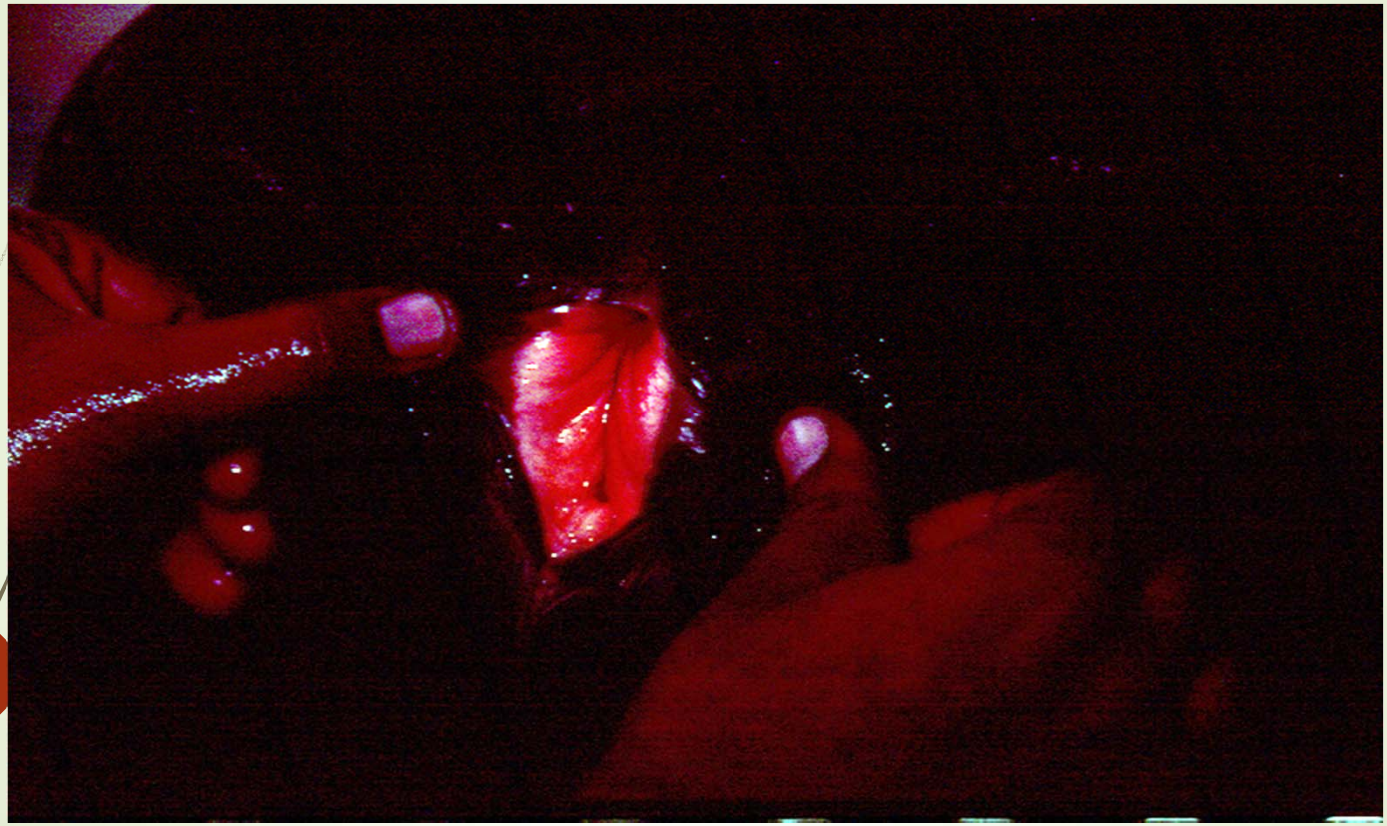
A good Breeding Policy and a mechanism for its implementation

- **A Mechanism to enforce policy**
- **Regulatory Mechanism for all breeding activities**

Thank you

Identification of animals



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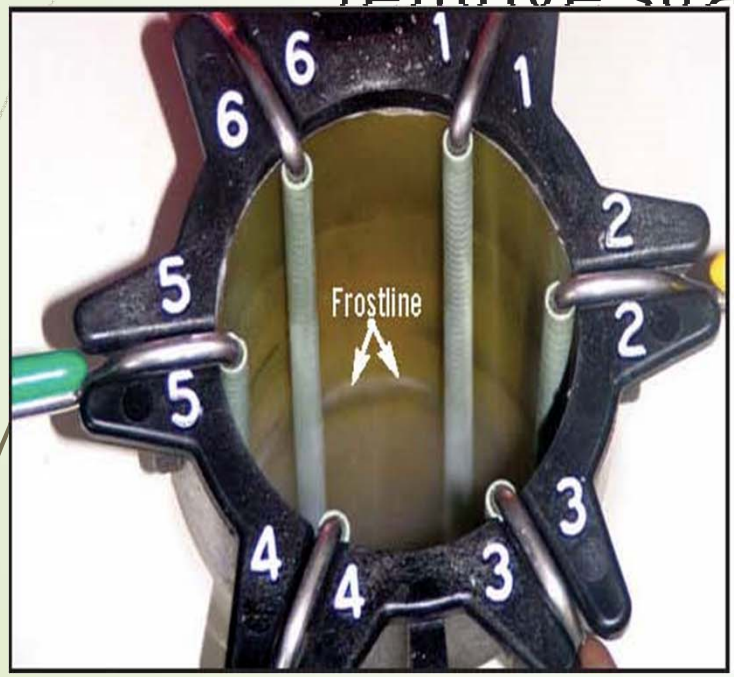
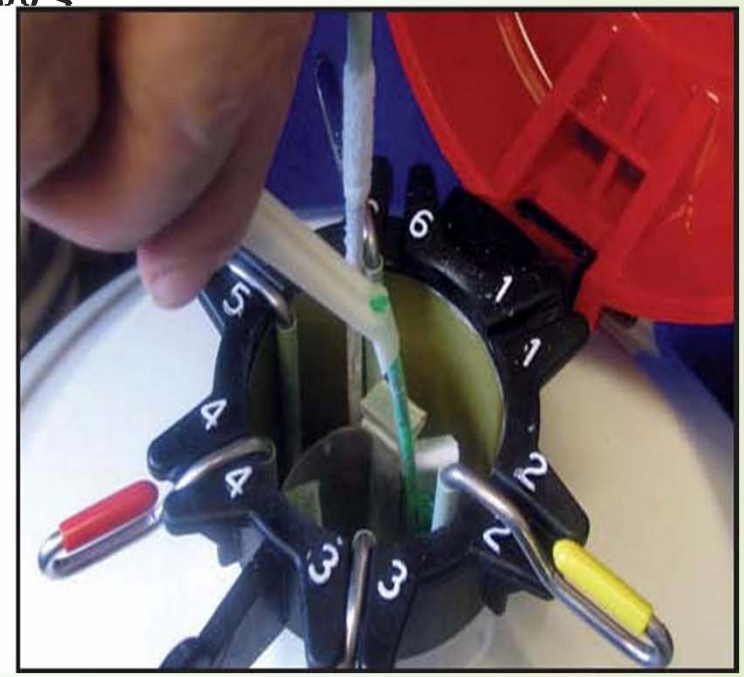
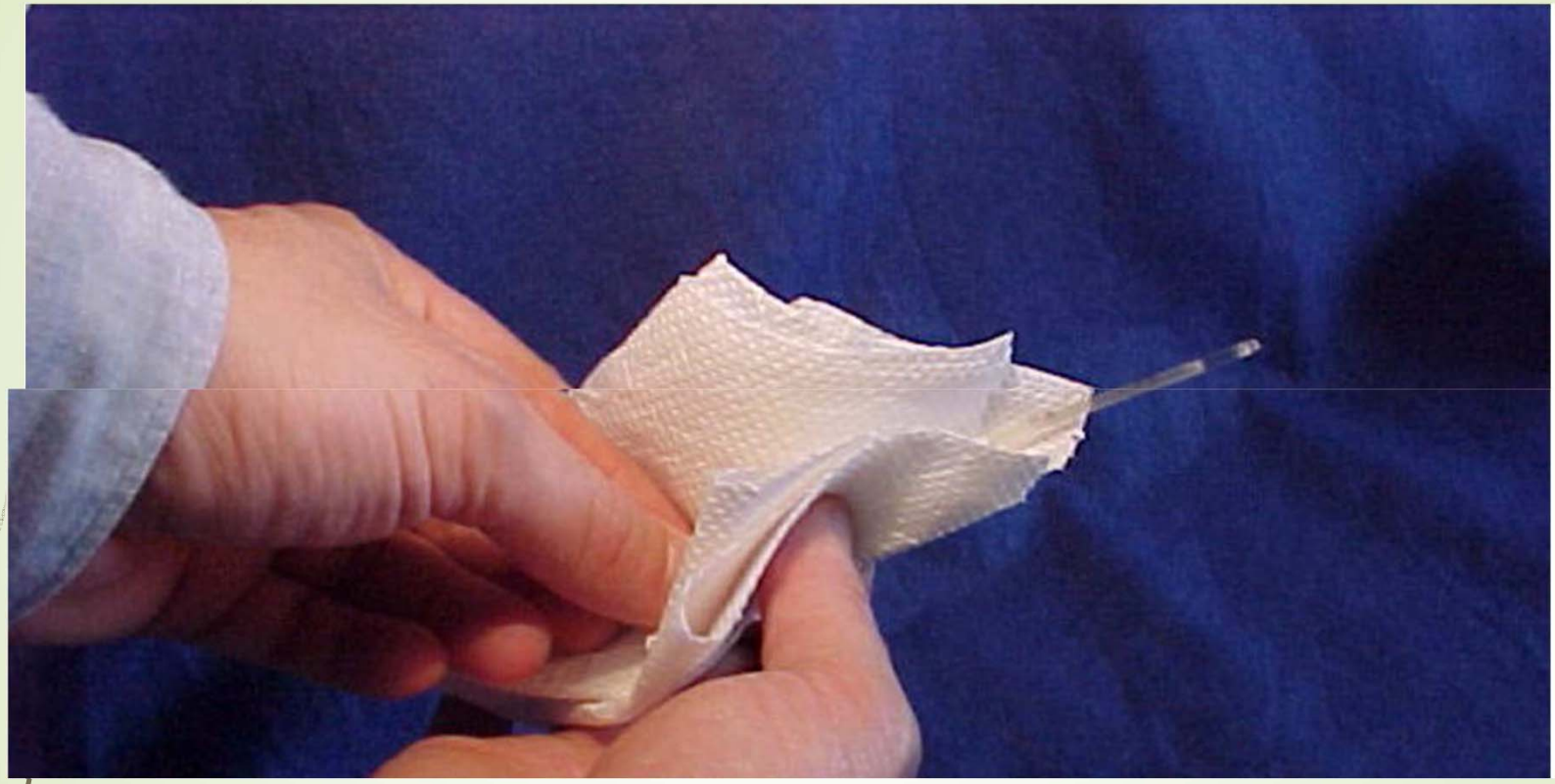
Avoid raising straws above the frost line. Use forceps to remove straws





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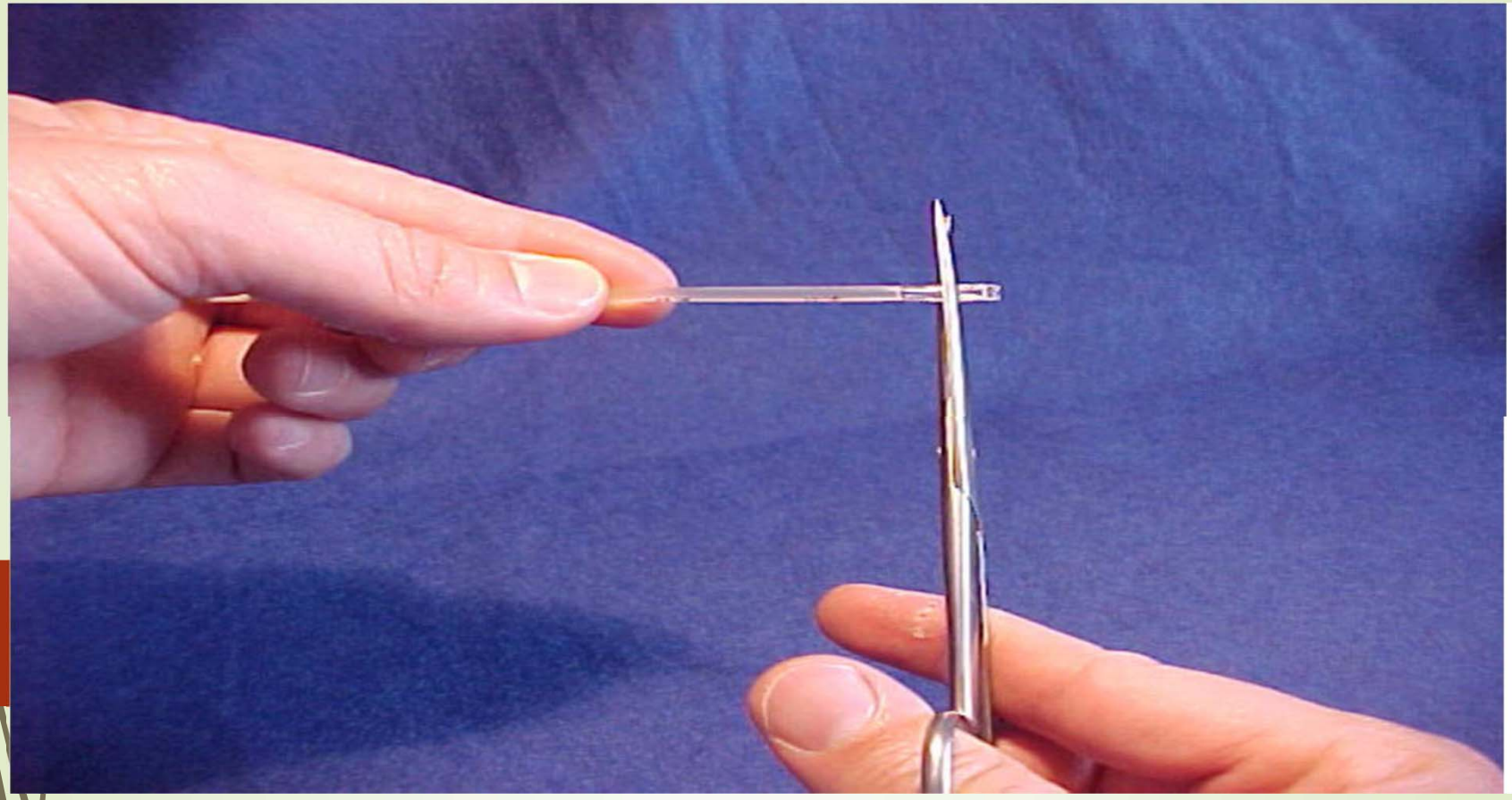

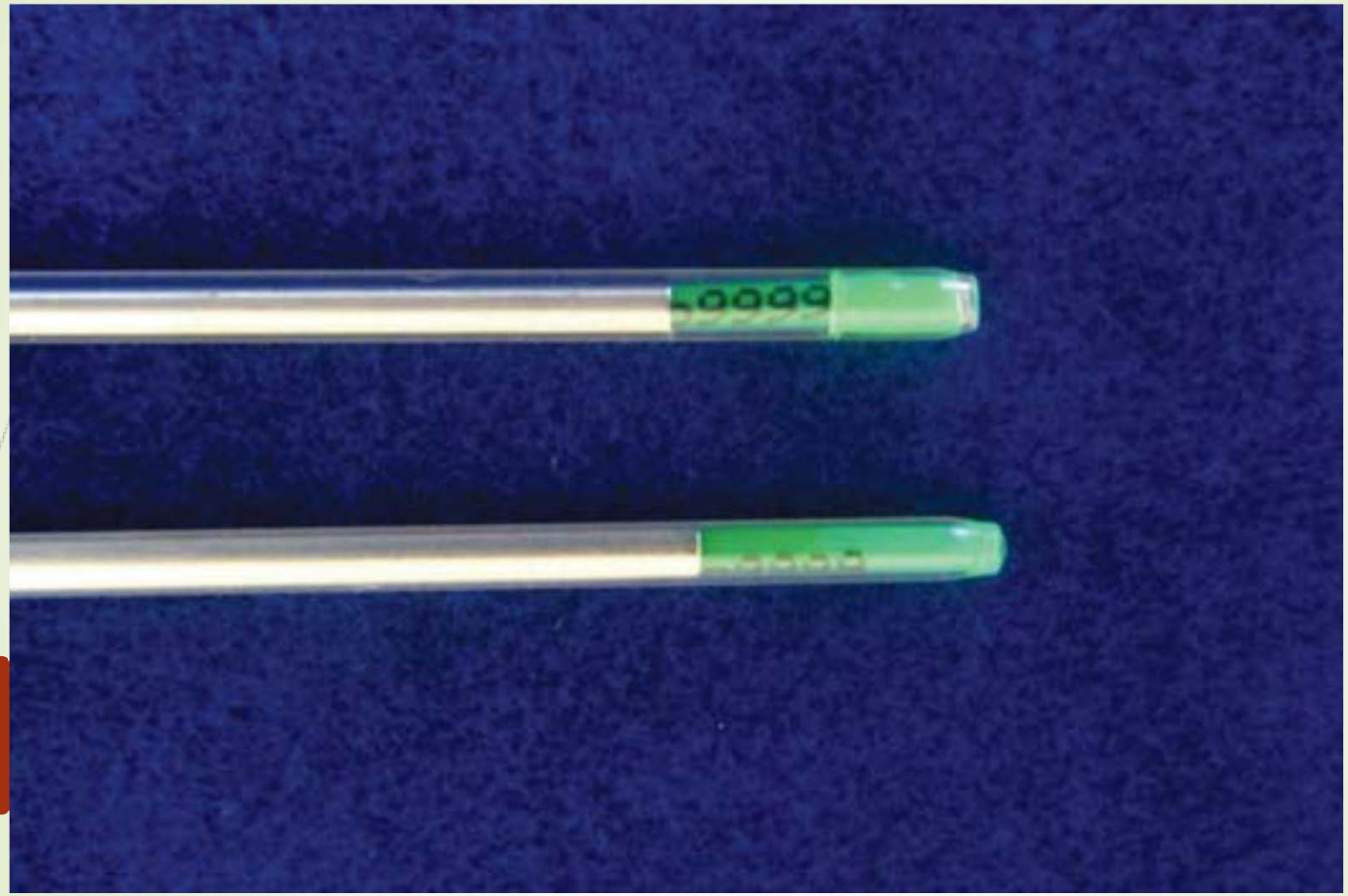


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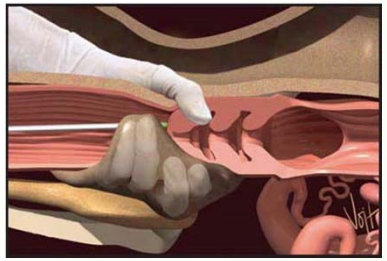
CR100
DELUXE
CRYOCAN


YOCAN


4XT

Grasp the external opening to the cervix with the thumb on top and the forefingers underneath to close the fornix

and guide the gun tip into the cervix.



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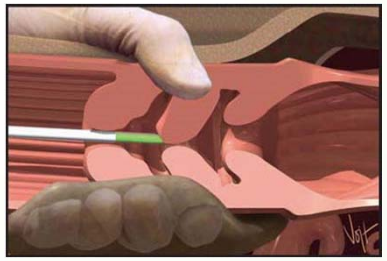
Using the flexibility of your wrist, twist and bend the cervix until you feel the second ring slide over the gun tip.



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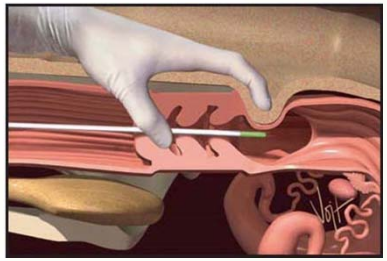
Feel the gun tip at the internal os with index finger



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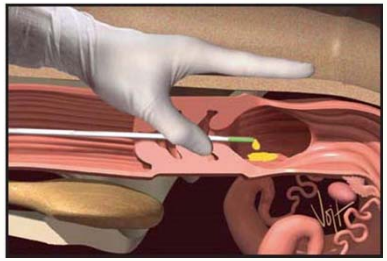
Push the plunger slowly so that drops of semen fall directly into the uterine body.



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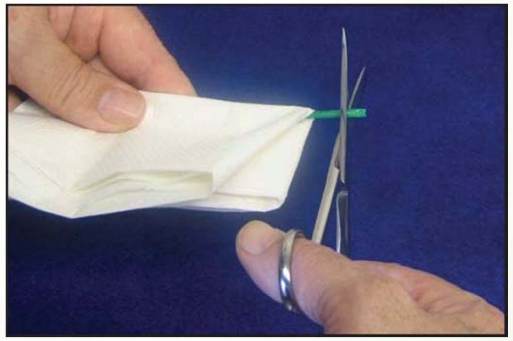
Cut straws ¼" below lab seal at 90º angle



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