

Post-coital cervicovaginal injury in a thorough bred broodmare

DINESH DADARWAL¹, G.P. DUGGAL², A.K. GUPTA³ AND G.N. PUROHIT⁴

Department of Veterinary Obstetrics & Gynaecology, College of Veterinary & Animal Science, Rajasthan Agricultural University, Bikaner (Raj.) INDIA

Received : September 28, 2000

Accepted : February 12, 2002

ABSTRACT

A thoroughbred broodmare suffered from lacerations in the cranial vagina during covering with a stallion and subsequently developed vaginitis. It was treated with parenteral antibiotics for 3 days and dressing of the vaginal wound with Betadine solution for 14 days with an unevenful recovery.

Key words : Post coital cervico vaginal injury, mare

Coital injuries are common in maiden mares with imperforate hymen due to narrow vaginal orifice. In such mares attention should be paid during breeding. The covering should be done with a stallion that is not too strong physically. In older mares scarring and strictures of the vagina secondary to inflammatory condition, poor development of the caudal segment of the vagina, closed pyometra with vaginal lesions all lead to vaginal constriction (Dietz and Ekkehard, 1984). Forceful intromission of the stallion's penis in mares with such conditions can result in perforation of the vaginal wall. In the present case laceration of the vaginal wall subsequent to coitus is reported.

Case Report : A maiden throughbred broodmare of 2 years age was brought to the clinics of veterinary gynaecology with a history of coitus with stallion and subsequent vaginal discharge. Vaginoscopy was done using vaginal speculum and a source of light. Lacerated wounds on the dorsal wall of cranial vagina and lateral wall of caudal vagina were seen. The wound on the wall of cranial vagina was deep and a flap of mucosa was hanging from it. There was pus in the wounds following flaring up of infection. The temperature, respiration and heart rates of the mare were 101°F, 41 beats/minute and 14 breaths per minute, respectively.

Corresponding author - ¹Research Associate, AICRP on Blood Protista, CCC, HAU, Hisar - 125 004, Haryana, ²Veterinary Officer, Government Polyclinic, Bhatinda, Punjab, ³Associate Professor (Retd.) and ⁴Sr. Assist. Professor.

Initially, Inj. Lemox (IBC) 2.5 g, 8 hrly for 3 days and Diclovet (Alembic) 10 ml. IM for 3 days were administered and the wound was dressed with Betadine solution (5%) 50 ml using wulsellum forceps and from 4th day onward dressing was done on alternate days. Animal was discharged on the 14th day with full healing of the wounds.

Laceration or rupture of the vagina during breeding of small maiden mares is not uncommon. Neely *et al.* (1983) reported that the stallion has long penile shaft and thrusts rapidly into the mare prior to "belling" of glans penis (expansion of glans penis). The lack of belling causes the distal end of penis to be more lancet in shape and is associated with causing injury to cranial vaginal wall, though the vagina has the property of distension to quite a good extent due to muscular layers, presence of fibroelastic tissues and longitudinal mucosal folds. Vagina is frequently bacteriologically sterile but Hinrich *et al.* (1988) reported that approximately 30% of mares have vaginal contamination with non pathogenic bacteria. Roberts (1971) stated that vagina appears to be more resistant, compared to cervix and uterus, to irritation and permanent damage caused by infections.

It is therefore concluded that all mares should be examined prior to covering with a stallion for the presence of vaginal lesions specially constriction to avoid coital injuries.

REFERENCES

- Dietz, O. and Ekkehard, W. (1984). Diseases of the horse Krager Press Switzerland pp. 349.
- Hinrichs, K., Cummings, M.R., Sertich, P.L. (1988). Clinical significance of aerobic bacterial flora of uterus, vagina, vestibule and clitoral fossa of clinically normal mare. *J. Amer. Vet. Med. Assoc.*, 193: 72.
- Neely, D.P., Liu, K.M., Hillman, Robert, B. (1983). Evaluation and therapy of Genital Disease in Mare, in *Equine Reproduction*. Veterinary Learning System Co., Inc., p. 54.
- Roberts, Stephen, J. (1971). Infertility in the mare. In *Veterinary Obstetrics and Genital Diseases* (2nd Edn.) CBS Publishers and Distributors, New Delhi, p. 535.

ANNOUNCEMENT

Eighteenth Annual Convention & National Symposium

on

Reproductive Technologies for Augmentation of
Fertility in Livestock

[November 14 - 16, 2002]

Venue : Animal Reproduction Division

Indian Veterinary Research Institute

Izatnagar - 243 122, Bareilly, U.P., India

Scientific sessions will be held in the following areas :

- Reproductive Biotechnology.
- Infertility Control, Fertility Management and their Economic Aspects.
- Andrology and Seminology.
- Obstetrical Complications and Therapeutic Approaches.
- Reproduction in Laboratory Animals, Wildlife and Zoo Animals.
- Young Scientists Oration for S.N. Luktuke and R.D. Sharma Awards.

The abstract of research papers in duplicate should be sent to **Dr. S.K. Agarwal, Organizing Secretary**, XVIII Annual Convention of ISSAR, Division of Animal Reproduction, IVRI, Izatnagar - 243 122, Bareilly (UP), so as to reach on or before **15th Sept., 2002**. The abstracts should be limited to 250 words, neatly typed in double space on A-4 size paper.

Registration

Fee for the registration will be as follows:

Category	upto 15 th Sept., 2002	After 15 th Sept., 2002
1. ISSAR Life Member	Rs.1000/-	Rs.1200/-
2. Non members	Rs.1100/-	Rs.1200/-
3. P.G. students (with documentary proof)*	Rs.500/-	Rs.600/-
4. Retired life members of ISSAR	Nil	Nil
5. Accompanying person (above 10 years)	Rs.500/-	Rs.600/-
6. Foreign delegates	\$200/-	\$250/-

Demand draft prepared in favour of "18th Annual Convention of ISSAR" payable at State Bank of India, CARI branch (Code-7027), Bareilly should reach the Organizing Secretary on or before 15th Sept., 2002.

Address for Correspondence :

Dr. S.K. Agarwal, Organizing Secretary, Division of Animal Reproduction, IVRI, Izatnagar - 243 122, UP, India

Tel : 0091-581-440697 (O), 538317 (R); Fax : 0091-581-447284; E.mail : skagarwal@ivri.up.nic.in