

Management of reproduction of Red Deer under conditions of intensive farming.

R. Kasarda and J. Pokorádi

Slovak University of Agriculture, Nitra, Slovakia

XCELL Slovakia Breeding Services, Inc., Bratislava, Slovakia

Red Deer farming



- TOP industry in many countries of the World
 - Meat, Velvet antler, Bones, Furs, Glands
- Level of intensity is based by reproduction and reproduction cycle
- Farm vs. Game Park
- Marketing

The Aim



- Analysis of reproduction cycle
- Use of reproduction biotechnology
- Application of results

Material and Methods



- 60 Red Deer females; 3 males
 - Farm of Xcell Slovakia Breeding Services SK ISJ 001
- Age 2 5 years (after first calving)
- Individual identification
- Standard farm management protocol

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Results

- Hormonal preparation of females
 - Intravaginal progesterone tampon with application of PMSG
 - CIDR 14 days
 - Optimisation of level of gonadotropins FSH and LH to ensure efficiency of artificial insemination
 - Two groups (30): 100 IU vs. 200 IU PMSG intramuscularly



	Symbol				
Signs of ovulation	-	+	++	+++	
Ovaries reaction – presence of CL	no reaction, no CL	low follicular activity, small CL	identified CL		
Patency of cervix –	non-patent, closed	hardly patent cervix	patent cervix – open	easy patent –	
oppenness	cervix	natury patent cervix	cervix	open cervix	
Hyperaemia of vulva	no reaction, without hyperaemia	low hyperaemia	mean heperaemia	high hyperaemia	
Vulva effluence (viscosity/volume)	no reaction, not effluent	low efflux	mean efflux clear a medium viscosity	massive efflux and very viscose	

Results Group I.

Signs of ovulation	-	+	++	+++
Ovaries reaction – presence of CL	33	53	66	
Patency of cervix – oppenness	20	47	33	
Hyperaemia of vulva	47	33	20	
Vulva effluence (viscosity/volume)	60	33	6	

Results Group II.

Signs of ovulation	-	+	++	+++
Ovaries reaction – presence of CL		13	87	
Patency of cervix – oppenness	6	13	33	47
Hyperaemia of vulva	6	40	13	40
Vulva effluence (viscosity/volume)	13	13	33	41





Results

- Exact time of ovulation
 - After synchonisation 48 58 hours
 - Visually, palpation
 - Two groups according to PMSG









Conclusion

- Optimisation of management under intesive farming is important
- AI and individual mating plan is the way
 - Use of proven sires of known origin
 - Known breeding value
 - Prevention of inbreeding
 - Increase of daily gain and live weight
 - Profitability of production

Thank You for your attention!

Radovan Kasarda* radovan.kasarda@uniag.sk
Slovak University of Agriculture in Nitra
Dept. Animal Genetics and Breeding Biology
Tr. A. Hlinku 2
94976 Nitra
Slovakia

ITMS 26240220080 Traceability of quality and identity of bioproducts of Red Deer (Cervus Elaphus) with use of complex methods.



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