

MODULE HANDBOOK

Field of Co-Assistance : Clinical Co-Assistance of Reproduction
Academic Year : 2017/2018

A. Course Identity

Module name	Clinical Co-Assistance of Reproduction
Module level	Co-Assistance Program
Abbreviation, if applicable	KHP-605
Sub-Heading, if applicable	-
Courses included in the module, if applicable	-
Semester/ Term	-
Coordinator	Erif Maha Nugraha Setyawan, DVM, MS, PhD
Lecturer(s)	Surya Agus Prihatno, DVM, MS, PhD Sri Gustari, DVM, MS Asmarani Kusumawati, DVM, MS, PhD Agung Budiyanto, DVM, MS, PhD Erif Maha Nugraha Setyawan, DVM, MS, PhD
Language	Bahasa Indonesia
Classifications within the curriculum	Compulsatory Course
Teaching Format/ class hours per weeks during the semester	1 st – 3 rd weeks: Focus group discussion (FGD), lecture, practice on rectal exploration, practice on ultrasound, practice on bull management, semen collection, sperm processing and evaluation 4 rd -6 th weeks: Field work, practice in Prof Soeparwi Animal Hospital 7 th weeks: Group seminar, individual seminar/examination 8 th week: Transition to the next rotation
Workload	1. Conducting pregnancy diagnosis via rectal exploration (66 hours) 2. Performing an examination of Female Reproductive System (54 hours) 3. Performing Clinical Andrology Examination and Treatment (12 hours) 4. Conducting Artificial Insemination (16 hours) 5. Observing and handling births up to neonatal care (26 hours) 6. Conducting Inspection and Handling of Reproductive Cases (52 hours) 7. Conducting Quality Inspection of semen (16 hours) 8. Treating infertility (22 hours) 9. Performing reproductive examinations using ultrasound (36 hours)

	10. Synchronizing oestrus and MOET (12 hours) 11. Conducting surveillance and prevention of reproductive disease (25 hours) Total 337 hours/ semester Equal with 13.48 ECTS			
Credit points	6 credits			
Requirements	-			
Learning goals/ competencies	CO1 able to explain the individual and population reproductive problems including pregnancy, reproductive disease, reproductive disorder and assisted reproductive technology. CO2 able to conduct the clinical and laboratory diagnosis; pathological and epidemiological diseases of animals; preparation of nutrition for health and medical disorders; pregnancy examination; reproductive disorder treatment; and application of reproductive technology. CO3 able to identify; overcome; and control the individual/population reproductive problems.			
Content	1. Introduction 2. Pregnancy diagnosis 3. Examination of Female Reproduction System 4. Clinical Andrology Examination and Treatment 5. Artificial insemination 6. Observation and birth control to neonatal care 7. Inspection and Handling of Reproductive Cases 8. Quality Inspection of Cement 9. Problem solving of Infertility and sterility 10. Reproductive examination using ultrasound 11. Estrus synchronization and embryo transfer 12. Surveillance and prevention of reproductive diseases			
Study/ exam achievement	Final Examination			
	Assessment aspect	Assessment element	Percentage	Course outcome (CO)
	Kognitive	Pre-test; Post-test; Supervisor exam.	30%	CO1, CO2, CO3
	Psychomotor	Rectal exploration Field practice	40%	CO2
	Affective	Individual seminar Group seminar	30%	CO1, CO3
A student's competency is determined by index of final				

	<p>grade as follow:</p> <ul style="list-style-type: none"> • A equal to 4.0 (four point zero) • A- equal to 3.75 (three point seven five) • A/B equal to 3.5 (three point five) • B+ equal to 3.25 (three point two and five) • B equal to 3.0 (three point zero) • B- equal to 2.75 (two point seven five) • B/C equal to 2.5 (two point five) • C+ equal to 2.25 (two point two and five) • C equal to 2.0 (two point zero) • C- equal to 1.75 (one point seven five) • C/D equal to 1.5 (one point five) • D+ equal to 1.25 (one point two five) • D equal to 1.0 (one point zero) • E equal to 0 (zero)
Forms of Media	Text (whiteboard), picture, photo, diagram, poster, slide projector, video, LCD projector
Literature	<ol style="list-style-type: none"> 1. Banks, W.J. 1993. Applied Veterinary Histology. 3rd. Mosby-Year Book, Inc. Missouri, USA. 2. Bacha Jr., W.J. dan Bacha, L.M. 2000. Color Atlas of Veterinary Histology. 2nd. Lippincott Williams & Wilkins, Pennsylvania, USA 3. Leeson, C.R..1996. Buku Teks Histologi. Edisi kelima, penerjemah: Yan Tabayong, dkk. 4. Judull asli: <i>Textbook of Histologi</i>. Penerbit Buku Kedokteran ECG, Jakarta. 5. Ross, M.H. dan Romrell, L.J. 1989. Histology: A Text and Atlas. 2nd. Williams & Wilkins, Maryland, USA 6. Samuelson, D. A. 2007. Textbook of Veterinary Histology. Saunders. St. Louis, Missouri 7. Young, B., Lowe, J. S., Stevens A. dan Heath J. W. 2006. WHEATER'S Functional Histology 8. A Text and Colour Atlas. 5th. Churchill Livingstone, Elsevier, Philadelphia, USA 9. Balinsky. 1975. An Introduction to Embryology. 4th ed.W.B. Saunders Company, Philadelphia, USA. 10. Huettner A.F. 1956. Fundamentals of Comparative Embryology of The Vertebrates. 7th ed. The Macmillan Company, New York, USA. 11. McGeady, T.A., Quinn, P.J., FITZPatrick, E.S dan Ryan, M.T. 2006. Veterinary Embryology. T.J. International Ltd., Cornwall. Great Britain. 12. Shumway, W., dan Adamstone, F.B. 1964. Introduction to Vertebrate Embryology. 5th ed. John Wiley & Sons, Inc. New York, USA.

	<p>13. Sandhu, G.S., Srivastava, S. dan Arora, C.K.1994. A Textbook of Embryology. Anmol Publications Pvt Ltd. New Delhi. India.</p> <p>14. Ulrich, D. 1996. Atlas Bewarna & Teks Embriologi. Edisi pertama, penerjemah: Hendra</p> <p>15. Laksmana. Judul asli: <i>Taschenatlas der Embryologie</i>. Hipokrates, Jakarta. Indonesia</p> <p>16. Yatim, W. 1994. Reproduksi & Embryologi. Edisi ketiga. Tarsito, Bandung, Indonesia.</p>
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B. PLO Mapping to CO

	PLO	CO 1	CO 2	CO3
PLO 2	Having insight in the field of national animal health system and veterinary legislation	√		
PLO 3	Having skills in practicing lege-artis medical treatment		√	
PLO 4	Having skills in handling some diseases in large animals, small animals, poultry, exotic animals, wildlife, aquatic animals and laboratory animals			√
PLO 5	Having skills in doing: (a) clinical, laboratory, pathologic, and epidemiologic diagnosis of animal diseases; (b) Creating nutrition for medical health and disorder; (c) ante mortem and postmortem examination; (d) pregnancy examination, handling of reproduction disorder and application of reproduction technology; (f) supervision and control of animal medicine quality and biological ingredients, including the usage and distribution; (g) assessment and supervision of animal welfare		√	√
PLO 6	Having skills in professional communication/ dialogue	√	√	
PLO 7	Having skills in control and prevention management of strategic and zoonotic diseases, biosecurity-biosafety, also environment control			√
PLO 8	Having skills in "therapeutic transaction", doing anamnese, medical record, informed consent of medical treatment, prescription writing, doctor's certificate, and client	√	√	√

	education			
PLO 9	Having basic knowledge of risk analysis, veterinary economic analysis and entrepreneurships		√	
PLO 10	Able to decide therapy appropriately, mastering traditional medicines, mastering animal medicine quality, mastering therapy side effects		√	
PLO 13	Able to make research proposal, able to compile seminar materials, delivering in form of presentation and poster, writing according to rules of scientific journals	√		
PLO 15	Able to do research, handling biological safety of animal diseases, and environment control		√	
PLO 17	Having insight in actualizing food self-sufficiency	√		√
PLO 18	Having skills in handling some diseases of wildlife, exotic animals and management at the zoo			√