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2	Screening the Reproductive Tract of Dairy Cattle for Pathogenic Micros	2019
3	Human Chorionic Gonadotropin (hCG) from Urine of Pregnant Women to Manipulate in vivo Ovulation and Pregnancy of Madura Cows	2019
4	Anti Early Embryonic Protein (EEP) for Pregnancy Test by Microtiter Strip in Dairy Cows	2019
5	The Effect of Feeding High Level of Protein on Reproductive Performance of Bali Starling.	2019
6	Antisperm Antibody in Repeat Breeder Friesian Holstein Cows at KPSP Setia Kawan Nongkojajar, Tutur District, Pasuruan, Indonesia.	2019
7	Diagnosis of Single and Twin Pregnancy, and Early Embryo Mortality Through Progesterone Level Test on Local Does.	2019
8	Improvement of Pregnancy Rate in Bali Cows with the Combination of Equine Chorionic Gonadotropine (eCG) from Local Pregnant Mare with PGF2α.	2019
9	Progesterone Profile of Dairy Cows which Experienced the Failure of Pregnancy to Artifical Insemination (AI).	2019
10	Effect of Heat Shock Protein (HSP) in Post Thaw Baluran Bull Semen	2018
11	Potency of Mycotoxin Binders on MDA Level, Expressions of Caspase 9 and Caspase 3 in The Uterus of Mice Exposed to Zearalenone	2017



















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12	Polymorphism of Growth Hormone Gene in The Artificial Insemination Result of Madura Cattle with Limousin Semen as a Reference for Genetic Selection	2018
13	Implementation of fotogrametry techniques as body mass estimation of indo-pacific bottle nose dolphin (Tursiops aduncus) in bali dolphin lodge	2020
14	Uji Sensitivitas Kebuntingan Sapi Perah Menggunakan Pregnancy Specific Protein B (PSPB) Microtiter Strip dan Progesteron sebagai Gold Standard	2007
15	Estimation of Equine Chorionic Gonadotropin (eCG) concentrate in the Blood Sera of Pregnant Mare	2014
16	Efek Pemberian L-Arginin Terhadap Gambaran Histologi Jumlah Spermatosit Primer pada Mencit (Mus musculus) Setelah Terpapar Suhu Panas	2019
17	Anti Prolactine Overcomes Heat Stress on Laying Hen.	2008
18	Unnatural Forced Moulting in The Laying Hen as Cause of Zoonosis from Salmonella Enteritidis	2009
19	Case Study: Dystocia on Beef Cattle in Kunir Regency of Lumajang District, East Java, Indonesia in 2015 and 2016	2017
20	Teratogenic Effect of Congenital Toxoplasmosis in Chicken Embryo	2017

Adapun penelitian tersebut layak dilakukan, meskipun belum ada *Ethical Clearence* karena menggunakan hewan coba yang minimal dan menghasilkan output yang sangat baik.

Demikian surat keterangan ini kami buat untuk dapat dipergunakan sebagai persyaratan pengususlan Jabatan Fungsional <u>Guru Besar</u>

Surabaya, 3 April 2023

Wakil Dekan III,

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Vol. 96 November 2019 No. 11

CONTENTS	
GENERAL ARTICLES:	
Seasonal Variations on the Frequency of Normal Motile and Static Ejaculates and their Discard Rate in Murrah Buffalo Bulls Kanchan	 09
Performance of Bali Cattle (<i>Bos Sondaicus</i>) Breeding Stock in Maliku District, Pulang Pisau Regency, Central Kalimantan Maria Haryulin Astuti	 12
Enriching Cow Milk with Selenium through the Use of Selenoorganic Preparations Yuriy Nikolayevich Prytkov and Anna Aleksandrovna Kistina	 15
Immunological and Morphological Indicators of Nonspecific Resistance in Laying Hens that Received the Vilomix Feed Additive Arman Sabyrzhanov, Orazali Mullakaev, Ildar Zalyalov, Evgeny Kirillov,	
Kaissar Kushaliyev and Abzal Kereyev Identification and Morphological Characteristic of Ornamental Fish in Wongsorejo Beach, Banyuwangi, East Java, Indonesia Mohammad Faizal Ulkhaq, Annur Ahadi Abdillah, Daruti Dinda Nindarwi, Hapsari Kenconojati,	 19
Darmawan Setia Budi, Suciyono and Muhammad Browijoyo Santanumurti Antibiotic Resistance to Staphylococcus aureus and Methicillin Resistant Staphylococcus	 24
aureus (MRSA) Isolated from Dairy Farms in Surabaya, Indonesia Wiwiek Tyasningsih, Mustofa Helmi Effendi, Budiarto Budiarto and Indra Raja Syahputra	 27
Detection of Salmonella on Chicken Meat Using Immunomagnetic Separation and Conventional Methods from Traditional Market in Surabaya, East Java, Indonesia Dhandy Koesoemo Wardhana, Muhammad Thohawi Elziyad Purnama,	
Ooi Hong Kean and Wiwiek Tyasningsih Reconstruction of Circular Skin Defect with Single Pedicle Advancement Flap in a Dog	 31
M. Madeena Begum and V. Bhuvaneshwari Efficiency of W Chromosome- Based Gender Determination in Japanese Quails	 33
Tamadhur H. Hussein, Mohammed Baqur S. Al-Shuhaib and Tahreer M. Al-Thuwaini Carcass Quality of Broiler Supplemented with Spirulina, Kelor Leaves	 36
(Moringa oliefera), and Probiotic Herinda Pertiwi, Romziah Sidik, Emy Koestanty Sabdoningrum and Tri Bhawono Dadi	 39
Diagnosis of Single and Twin Pregnancy, and Early Embryo Mortality Through Progesterone Level Test on Local Does Wurlina, Imam Mustofa, Mas'ud Hariadi, Erma Safitri and Dewa Ketut Meles	 42

45
47
50
52
55
58
62
65
66
68
70
72
'-
74
74
74 75

Characterization and Identification of ...

cida subsp. salmonicida based on physiological characteristics, cell morphology and biochemistry. Identification result showed that the five isolates were identified as A. salmonicida subsp. salmonicida with 86% to 96% of character fulfillment, based on ASGLM, ASGLG, ASGLJ, ASGLT, and ASGLS. This research also found phenotype character diversity of isolate A. salmonicida subsp. salmonicida with 75% to 96% of similarities.

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Indian Vet. J., November 2019, 96 (11): 52 - 55

Improvement of Pregnancy Rate in Bali Cows with the Combination of Equine Chorionic Gonadotropine (eCG) from Local Pregnant Mare with PGF2α

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Abstract

The aim of study was to improve of pregnancy rate in Bali cows through use of a combination of eCG from local pregnant mare with PGF2 α . 45 Bali cows were injected with 25 mg PGF2 α twice 11 days apart and devided into 3 groups: without eCG (Control); patented eCG 400 IU from Folligon (Intervet-Holland) (T1) and eCG from local pregnant mare sera (T2). After the estrus achievement AI was done and 60 days later the pregnancy was evaluated using two dimensional ultrasound. The results indicated non significant differences (p>0.05) between the T1 and T2 at the pregnancy rate, but both were

significantly better (p<0.05) than control.

Key words: Bali cow, eCG, PGF2α, Time of estrus, Pregnancy rate.

Bali cattle are native Indonesian of breed importance regarding its direct ancestry from Banteng (Purwantara et~al., 2011). However, their fertility and pregnancy rate is very low (Lindell, 2013). There is a need for the improvement of fertility and pregnancy rate through the use of a combination of eCG and PGF2 α . The eCG can support the growth of follicle in ovary, such as FSH (Baruselli et~al.,2003) and combination of eCG and PGF2 α is useful for successful pregnancy rate (Dias et~al., 2009).

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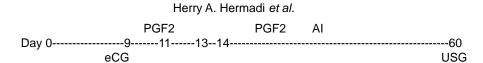


Fig 1. Time schedule of treatment and observation

Materials and Methods

The eCG was obtained from local pregnant mare at 50-90 days of gestation with charcoal (30 mg/100 mL) by chromatography Sephadex G100 column eluted with 0.05M NH4 HCO3. The eCG was evaluated for protein profiles (molecular weight) and optical density absorbancy with SDS-PAGE (Sodium Sulphate Deodecyl polyacrilamid gel electrophoresis) 12% and sandwich ELISA (with monoclonal antibody eCG and conjugated with horse radish peroxidase, Bioscience, San Diego, USA) (Hermadi et al., 2018). 45 Bali cows were injected with 25 mg PGF2a twice 11 days apart and devided into 3 groups: without eCG (Control); patented eCG 400 IU from Folligon (Intervet-Holland) (T1) and eCG from local pregnant mare sera (T2), time schedule of injection can be seen in Fig I. At the time of estrus AI was done and 60th day on the pregnancy rate was evaluated using two dimensional ultrasound (Samik and Safitri, 2019).

300ml Blood was taken from the jugular vein on the 50, 70 and 90th day of pregnancy. The plasma was separated and the phenol solution was been added and stored in the refrigerator until eCG extraction. The eCG purification techniques of sera include pH fractionation precipitation with metaphosphatic acid and absolute ethanol and dialysis by fixed chromatography.

Results and Discussion

After isolation and purification with chromatography Sephadex G100, the identification of protein profiles of the local pregnant mare sera, by the protein bands of molecular weight, that appeared on SDS-PAGE 12% were 63, 43 and 28 kDa (Fig 2).

After injected with 25 mg PGF2a twice on 11 days intervals and eCG treatment with second PGF2a, the results of the time of estrus and pregnancy verification after 60 days are presented in Table I and II.

The extract of eCG obtained from local pregnant mare sera was given to Bali cows at the same doses given to Bos indicus cows to improve the pregnancy rate Noqueira *et al.*, 2014 used hormonal treatments to improve reproductive performance of anestrous beef cattle in tropical climates.

The utilization of eCG improved pregnancy rates of Bradford (26.7 - 34.6%), Nellore (38.9 - 45.7%) and crossbred Nellore cows (46.8 - 59.1%) with doses 400 IU eCG Bergamaschi *et al.* (2006 also concurred that the estrus of cows has improved by eCG.

eCG is included in the aspartate proteinase group with more than 50% amino acid levels is identical to pepsin, cathepsin D and cathepsin E. The concentration of eCG from pregnant mare sera analyzed by ELISA had the Optical Dencity (OD) in the range of 0.957 - 1.069 in the samples at 400 IU/ml.

Based on the Table I, there is no statistically significant difference in the rate of estrus of Bali cows either between the administration of patented eCG or pregnant mare sera and PGF2a (Control). Estrus synchronization in cows, facilitate simultaneous insemination in all the cows. Based on the findings the 400 IU eCG is recommended for the onset of estrus. The variation in the onset of estrus is most likely a reflection of differences in ovarian follicular growth phase so that during luteolysis

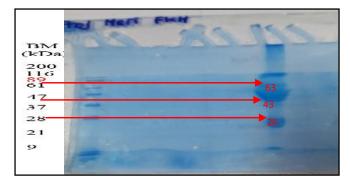


Fig 2. Molecular weight of eCG from local pregnant mare sera : 63, 43 and 28 kDa

Table I. Estrus interval (hours) after two Injections of PGF2 and eCG Treatment

Treatment Groups	N	Mean of Estrus Time ± SD (hours)
Twice injection of PGF2 11 days apart without eCG (C)	15	56.54° ± 08.57
Twice injection of PGF2 11 days apart + patented eCG 400 IU from Folligon (T1)	15	55.15° ± 1.28
Twice injection of PGF2 11 days apart + eCG 400 IU from local pregnant mare sera (T2)	15	55.60° ± 1.20

Note: The same superscript in the column indicates no significant difference (p > 0.05)

Table II. Pregnancy Rates After The Administration of Combination of Equine Chorionic Gonadotropine (eCG) from Local Pregnant Mare with PGF2 on the 60th days

Treatment	Pregnant	Not Pregnant
Twice injection of PGF2 without eCG (C)	8ª (53.33%)	7 ^b (46. 66%)
Twice injections of PGF2 + patented eCG 400 IU from Folligon (T1)	13 ^b (86.66 %)	2ª (13. 33%)
Twice injections of PGF2 + eCG 400 IU from local pregnant mare sera (T2)	13 ^b (86.66 %)	2ª (13. 33%)

Note: The different superscript in the same column indicate significant difference (p < 0.05)

after PGF2α injection resulting in ovulation at different times. Synchronization process using prostaglandin preparations (PGF2α) caused CL regression due to luteolysis.

Reproduction of cows is one of the major factors that affect the efficiency of the female productivity, which is determined by the level of fertility, pregnancy and calving (Martemucci and D'Alessandro, 2011). Factors that limit the expression of pregnancy rate is irregular estrus, which in turn results in low fertilization. The results of pregnancy examinations with ultrasound method on day 60 post-insemination presented in (Table II). The higher pregnancy rates in the T1 and T2 groups were due to the increased levels of progesterone. Low progesterone levels atributed to the early embryonic death. 5-10% of cattle in estrus could not ovulate, resulting in lower pregnancy rate at first estrus. Lower pregnancy rate is likely due to abnormal fertilization (Romano and Magee, 2001). Not every ovulation is always followed by fertilization and not all fertilization produces normal individuals.

Ultrasound pregnancy examination on the 60th day post-insemination showed

that control group (C) had a pregnancy rate of 53.33%; group (T1) = 86.66%; group (T2) = 86.66%. Significantly lower pregnancy rate in the control group may be due to the low progesterone levels in the luteal phase which was 0.49 ± 0.41 mg/ mL reacting to early embryonic death (Samik and Safitri, $loc\ cit$).

Summary

The sds-page examination of eCG obtained from local pregnant mare sera molecular weight = 63 kDa, 43 kDa and 28 kDa. The improvement of Bali cow pregnancy through the use of a combination of eCG from local pregnant mare and PGF2 α was not significantly different (p>0.05) with a combination of patent eCG and PGF2 confirming equal efficacy of pregnant mare sera and the patented eCG.

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Herry A. Hermadi et al.

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Indian Vet. J., November 2019, 96 (11): 55 - 57

Micro Anatomical Studies on the Moderator Band of Spotted Deer (Axis axis)

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Abstract

The moderator bands of the spotted deer consisted of an outer endocardial covering, ordinary myocardial fibres, Purkinje fibres, blood vessels and nerve fibres. The endocardium was thick dorsally and thin laterally and ventrally. The Purkinje fibres were large, round or polygonal cells present as a large group below the subendocardium or within the myocardium. The central core of the moderator band was formed

by myocardium.

Key words: Moderator band, Purkinje fibres, Endocardium, Myocardium.

The moderator band of right ventricle crosses the ventricular cavity and prevents ventricular hyper dilatation (Evans, 1993). A large branch from the left anterior descending artery passes down along the length of the moderator band in the right ventricle. This artery may constitute an important part of the supply of the anterior papillary muscle of the

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Vol. 96 November 2019 No. 11

AUTHOR INDEX

Abinaya, P.	74	Darmawan Setia Budi,	24	Rahayu Kusdarwati,	50
Abiramy, A.	74	Herinda Pertiwi,	39	Rajkumar, K.	74
Abzal Kereyev,	19	Herry A. Hermadi,	52	Romziah Sidik,	39
Adikara, R.T.S.	52	Ildar Zalyalov,	19	Rozi,	50
Akhmad Afifudin Al-Anshori,	58	Imam Mustofa,	42	Sathyamoorthy,O.R.	55
Animesh Talukdar,	65	Indah Trilestari,	58	Selvi, D.	74
Anna Aleksandrovna Kistina,	15	Indra Raja Syahputra,	27	Shiju Simon, M.	68
Annie, V.R.	47	Jamuna, K.V.	47	Shruti,	47
Annur Ahadi Abdillah, 24,	62	Kanchan,	09	Sivaprakash, S.	74
Arman Sabyrzhanov,	19	Kathirvel, S.	45	Sivaraman, S.	45
Arun, S.A.	47	Krishnakumar,K.	68	Suciyono,	24
Balasubramaniam, G.A.	45	Lilik Maslachah,	58	Sudarno,	50
Bhuvaneshwari,V.	33	Madeena Begum,M.	33	Sudhakara Reddy, B.	45
Budiarto Budiarto,	27	Maria Haryulin Astuti,	12	Sunaryo H. Warsito,	52
Chansiripornchai,N.	66	Mas'ud Hariadi,	42	Syed Ainul Hussain,	65
Chansiripornchai,P.	66	Maylina Leni,	75	Tahreer M. Al-Thuwaini,	36
Dana Icha Bakti,	62	Methai, A.	68	Tamadhur H. Hussein,	36
Daruti Dinda Nindarwi,	24	Mohammad Faizal Ulkhaq, 2	4,62	Thangadurai,R.	70
Devadevi, N.	74	Mohammed Baqur S.		Thangapandian, M.	55
Dewa Ketut Meles,	42	Al-Shuhaib,	36	Tri Bhawono Dadi,	39
Dhandy Koesoemo Wardhana	,31	Muchammad Yunus,	75	Uma Rani,R.	72
Diah Ayu Retanti,	58	Muhammad Amin Alamsjah,	62	Ushakumary, S.	55
Emy Koestanty		Muhammad Browijoyo		Vijayakumar,G.	45
Sabdoningrum,	39	Santanumurti,	24	Vijayakumar,M.	70
Erma Safitri, 42,	52	Muhammad Thohawi Elziyad	I	Vijayalakshmi, P.	74
Evgeny Kirillov,	19	Purnama,	31	Wijaya Agus,	75
Kaissar Kushaliyev,	19	Mustofa Helmi Effendi,	27	Windi Andhini,	50
Girishkumar, V.	47	Ooi Hong Kean,	31	Wiwiek Tyasningsih, 27	, 31
Gowri Mallapur,	65	Orazali Mullakaev,	19	Wurlina,	42
Gunanti Mahasri,	62	Parag Nigam,	65	Yuriy Nikolayevich Prytkov,	15
Hani Plumeriastuti,	58	Pazhanivel,N. 68	3, 72		
Hapsari Kenconojati,	24	Prasad, R.V.	47		

Vol. 96 November 2019 No. 11

SUBJECT INDEX

Anatomy and Histology		Vilomix in Feed and Nonspecific	
Forelimb Muscles of Sloth Bear	47	Resistance in Layers	19
Moderator Band of Spotted Deer	55	Carcass Quality of Broiler Supplemented with Spirulina	39
Bacteriology and Microbiology			
Vilomix in Feed and Nonspecific		Pathology and Parasitology	
Resistance in Layers	19	Salmonella on Chicken Meat	31
Antibiotic Resistance to Staphylococcus aureus	27	Nematodosis Infection on Monopterus albus	62
Salmonella on Chicken Meat	31	Dairy Cattle Infected by Blood Parasites	75
Isolation of salmonicida from Fresh Water Fish	50		
		Pharmacology and Toxicology	
Cattle and Buffaloes		Intralipids for Ivermectin Toxicity in a Dog	68
Normal and Static Ejaculates - Buffalo Bulls	9		
Performance of Bali Cattle	12	Piggery and Poultry Science	
Enriching Cow Milk with Selenium	15	Gender Determination in Japanese Quails	36
Antibiotic Resistance to Staphylococcus aureus	27	Carcass Quality of Broiler Supplemented with	
Gastrointestinal Motility Disorders in Cattle	45	Spirulina	39
Improvement of Pregnancy Rate in Bali Cows	52	Haemangiosarcoma in a Pigeon	72
Perineal Cystocoele in a Cow	70		
Dairy Cattle Infected by Blood Parasites	75	Surgery and Clinical	
,		Reconstruction of Circular Skin Defect in dog	33
Fisheries		Single and Twin Pregnancy and Embryo	
Morphology of Ornamental Fish	24	Mortality in Does	42
Nematodosis Infection on <i>Monopterus albus</i>	62	Gastrointestinal Motility Disorders in Cattle	45
		Improvement of Pregnancy Rate in Bali Cows	52
Goats and Sheep		Ashitaba Leaf Extract Tissue Damage due to	
Single and Twin Pregnancy and Embryo		Cigarette Smoke	58
Mortality in Does	42	Nematodosis Infection on <i>Monopterus albus</i>	62
Multiple Infections in a Doe	74	Afoxolaner for Demodicosis in Dog	66
·		Intralipids for Ivermectin Toxicity in a Dog	68
Laboratory Animals		Perineal Cystocoele in a Cow	70
Ashitaba Leaf Extract Tissue Damage due to		Haemangiosarcoma in a Pigeon	72
Cigarette Smoke	58	Multiple Infections in a Doe	74
Nutrition		Wildlife Science	
Enriching Cow Milk with Selenium	15	Forelimb Muscles of Sloth Bear	47

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