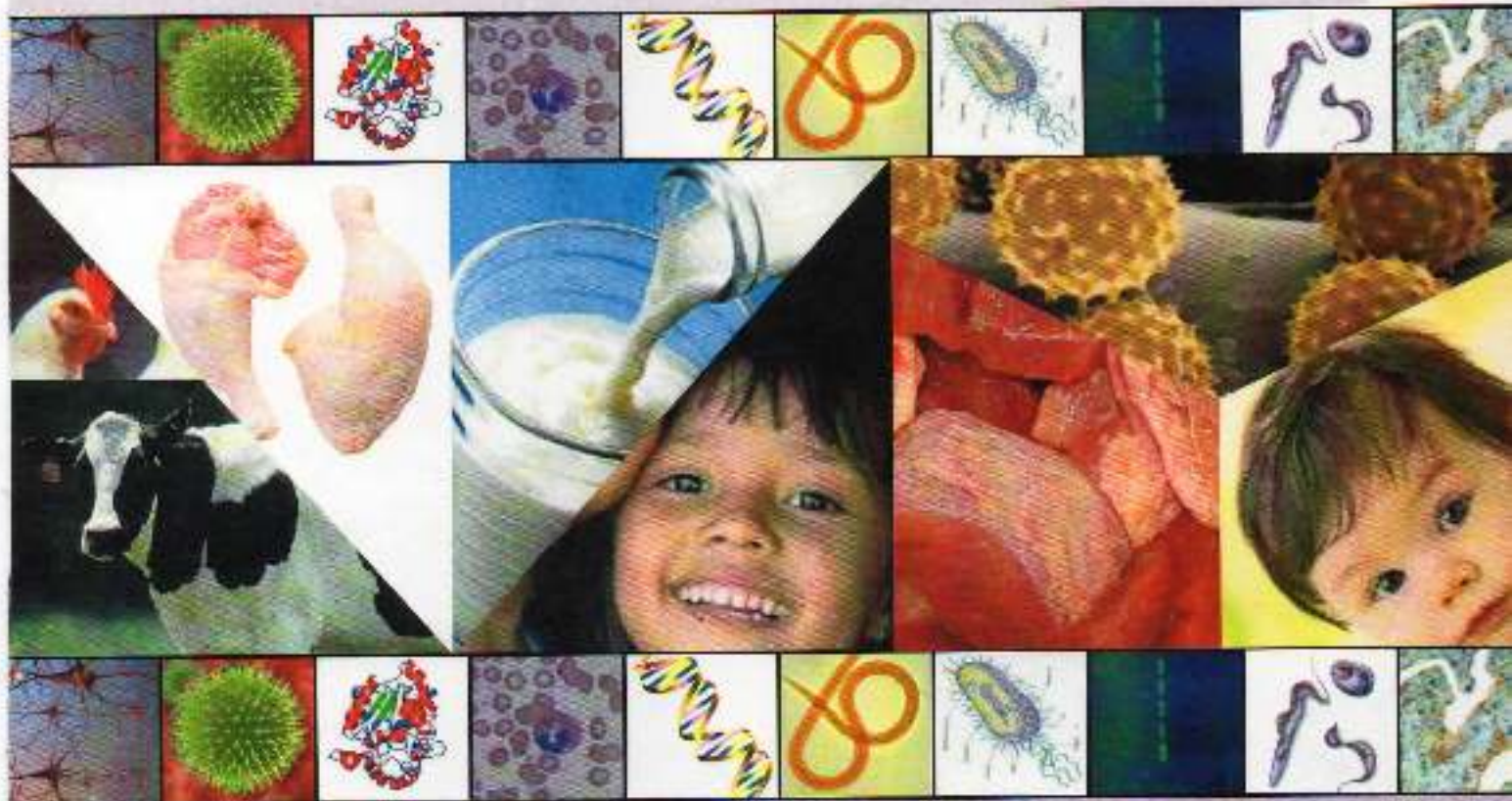


# PROCEEDING



## International Seminar A Role of The Veterinarian on The Global Health Challenges



Tuesday-Wednesday, September 18-19<sup>th</sup> 2012

University Club Hotel UGM  
Yogyakarta



International Seminar is Co-located among  
Faculty of Veterinary Medicine  
Universitas Gadjah Mada  
Institut Pertanian Bogor  
and  
Universitas Airlangga



# PROCEEDING



## International Seminar A Role of The Veterinarian on The Global Health Challenges

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Editor:

Prof. Apinun Suprasert, BSc., DVM., PhD. (Kasetsart University, Thailand)

Prof. drh. Saleha Abdul Aziz (Universitas Putra Malaysia, Malaysia)

Nguyen Vi, Bsc., M.Sc. (ILRI Vietnam)

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drh. I ketut M. Adnyane., M.Si., PhD., APVet. (Institut Pertanian Bogor, Indonesia)

drh. Risa Tiuria, MS., Ph.D. (Institut Pertanian Bogor, Indonesia)

Speakers:

1. Direktur Kesehatan Hewan Direktorat Peternakan dan Kesehatan Hewan Kementerian Pertanian Dr. drh. Pudjialmoko, M.Sc.  
*The Role of Veterinarian in The Global Health Problem toward an Integrative Health*
2. Prof. drh. Charles Rangga Tabbu, M.Sc., PhD. (Universitas Gadjah Mada, Yogyakarta)  
*Problems In Controlling Avian Influenza (AI) In Poultry In Indonesia*
3. Prof. Apinun Suprasert, BSc., DVM., PhD. (Kasetsart University, Thailand)  
*Impact of Veterinary Education on the Strategy to Manage Pet Animal and Wildlife for Reducing Zoonotic Diseases*
4. Nguyen Vi, Bsc., M.Sc. (ILRI Vietnam)  
*Tools for Ecohealth: The Link Between Concept and Practice.*
5. Prof. drh. Sulcha Abdul Aziz (Universitas Putra Malaysia, Malaysia)
6. Dr. drh. Denny Widaya Lukman, M.Si. (Institut Pertanian Bogor, Bogor)  
*Animal Products and Wildlife in Relation to Zoonotic Diseases in Indonesia: Challenge to Veterinary Education*
7. Prof. drh. Mas'ud Hariadi, M.Sc., PhD. (Universitas Airlangga, Surabaya)  
*Artificial Insemination Program for Beef Cattle in Madura Island "Targets, Realisation and Problems"*



## Welcome Speech Chief of Organizing Committee International Seminar on:

### A Role of Veterinarian on The global Health Challenges

Yogyakarta, September, 18-19 2012

1. Distinguish Guest, Dear Vice Minister of Health, Ministry of Health, Prof. Dr. Ali Ghufro Mukti, MSc., Ph.D.
2. Distinguished Rector of Universitas Gadjah Mada, Which was represented by Vice Rectors Prof. Dr. Suratman, M.Sc.
3. Mr. Pudjiatmoko, DVM, PhD., Animal Health Director, The Directorate General of Animal Livestock and Animal Health, Ministry of Agriculture
4. Prof. Apinun Suprasert, B.Sc. DVM, PhD. Dean Faculty of Kasetsart University, Thailand
5. Vi Nguyen, BSc, M.Sc, Representative of International Livestock Research Institute (ILRI), Vietnam
6. Prof. Saleha Abdul Aziz, DVM, MSc., Ph.D. University of Putra Malaysia, Malaysia
7. Prof. Charles Ranga Tabba, DVM, M.Sc, Ph.D. Director of Zoonotic Diseases Center Faculty of Veterinary Medicine (ZDC-FVM)
8. Dr. drh. Denny Widaya Lukman, M.Si. Bogor Agricultural University (IPB)
9. Prof. drh. Mas'ud Hariadi, M.Phil., PhD. Airlangga University
10. Ladies and Gentlemen, dear Participants,

The International Seminar under the theme "A Role of The Veterinarian on The Global Health Challenges" is conducted by Faculty of Veterinary Medicine Universitas Gadjah Mada, in collaboration with Bogor Agriculture University and Airlangga University. It is blessed for Faculty of Veterinary UGM that this collaborative event is coincide with the celebration of the 66<sup>th</sup> Anniversary Faculty of Veterinary Medicine, UGM.

It's also a great pleasure for me to be associated in having such humble contribution to developing the Zoonotic Disease Center and EcoHealth program, together with my colleagues and experts from ministry of health, animal health, KU, UPM, ILRI, and representative from each Vet. School. This seminar preparation is a crucial step towards accessing to the human disease World Wide, and I'm glad to notice such high level and interested participation.

In this workshop, followed by outstanding scientists from Thailand, Malaysia, Vietnam and Indonesia. All of them will share their expertise; and 46 research papers will be discussed in the parallel session as well as presented in the poster. Totally, 150 participants approximately are registered. We do hope that we would be able to provide for a wider dissemination of the existing knowledge, tools and materials to allow for an effective starting of the process of developing a mutual understanding on zoonotic diseases and ecohealth/one health, according to internationally approved standards.

We are now at an advanced stage of the capacity development on ZDC with objective such as:

1. To conduct epidemiologic research on important zoonotic diseases,
2. To further develop scientific base to implement epidemiologic surveillance in the region of diseases outbreak, indicate pathogens and ensure the biosecurity,
3. Provide information, advisory, methodological and practical related assistance on zoonotic infection to the government, non government agency and community,

4. To provide training for specialists and field surveillance personnel in zoonotic diseases and animal health professionals,
5. Production of medical diagnostic tools and prophylaxis agents of zoonotic diseases,
6. Maintenance and depository of culture or strain collection of zoonotic agents,
7. Supporting of specialists and team who are responsible for the preparedness and biosecurity of zoonotic diseases,
8. To promote EcoHealth/One Health program in Indonesia,
9. Promote appropriate communication strategies to the public or mass media about zoonotic disease,
10. Managing zoonotic disease risks with greater respect on collaboration between physician, veterinarian, social scientist, and any other relevant stakeholder.

We do hope that this seminar will allow all participants to capitalize enough knowledge and experience keep in touch with zoonotic issues worldwide., EcoHealth /One Health.

Thank you, I am very glad indeed that Prof. Suratman, Vice Rector for Research and Community services stay with us and will officially open this Seminar, have a fruitful discussion and enjoy the seminar.

Thanks

**Dr. drh. A.E.T.H Wahyuni, M.Si**

Chief of Organizing Committee



## Internasional Seminar on A Role of Veterinarian on The global Health Challenges

Welcome speech from Prof. Dr. Suratman, M.Sc.

*Vice Rector* for Research and Community Services, UGM

Yogyakarta, 18-19 September 2012

Dear Vice Minister of Health, Ministry of Health, Prof. Dr. Ali Ghufron Mukti MSc., Ph.D

Mr. Pudjiamoko, DVM, PhD., Animal Health Director, The Directorate General of Animal Livestock and Animal Health, Ministry of Agriculture

Prof. Apinun Suprasert, B.Sc.DVM, PhD. Dean Faculty of Kasetsart University, Thailand

Vi Nguyen, BSc, M.Sc, Representative of International Livestock Research Institute (ILRI), Vietnam

Prof. Saicha Abdul Aziz, DVM, MSc., Ph.D. University of Putra Malaysia, Malaysia

Prof. Charles Ranga Tabbu, DVM, M.Sc, Ph.D. Director of Zoonotic Diseases Center Faculty of Veterinary Medicine (ZDC-FVM)

Ladies and Gentlemen, dear Participants,

On behalf Rector of Universitas Gadjah Mada, I am very please to welcome those of you from other countries to Indonesia, to Yogyakarta, and to Universitas Gadjah Mada, the oldest and the biggest University in this country. Even though, Yogyakarta has experienced with big earthquake and volcanic eruption of Mount Merapi, but the city as a cultural and student city remains safe to visit and it is another chance for all of you during this workshop to do Volcanic Tour to Merapi. I hope you are able to enjoy the beauty of our surroundings Yogyakarta and UGM. As many of you know that Yogyakarta is one of tourist destination in Indonesia and also endowed with beauty and a wide variety of cultures. I do hope the occasion of the Seminar will allow each of you to the opportunity to experience to see some of its richness.

I would like also to take this opportunity to express my appreciation to the Faculty of Veterinary Medicine from three different university to lift up the Issue of *Zoonotic Diseases* and *EcoHealth* problem in our country. In particular this Zoonosis and EcoHealth issue remain very important in the growing world population with the remained unpredictable new emerging zoonotic and human diseases.

In the past two decades, many of the pathogens that have emerged in the public health are of animal origin. Among these are West Nile Viruses, Nipah virus, Swine Flu Virus, Avian Flu Virus, Antibiotic resistance microorganisms, which are all believed to originate from animals. Although disease control in animal is important, healthy animals come from good food, good feedings and healthy ecosystem or environment. An EcoHealth concept is very urgent to discuss in order to care for healthy animals, ensure sustainable livestock production, food security, health of companion animals, and consequently prevent spread of animal disease to human.

Recognizing the growing need for veterinary counter measures against the intentional introduction zoonotic diseases risks that are not just mutual interest on collaborative effort of medical doctors, veterinarians, animal scientist, and social scientist. Learning from the previous zoonotic diseases outbreak in the world, many things should be taken into consideration.

We sincerely hope that this Seminar will allow all participants to capitalize enough knowledge and experiences to go along with EcoHealth/One Health Issue worldwide.

Thank you for your kind attention, have a nice, enjoy and fruitful discussion and God Bless You.

Suratman,

Vice Rector for Research and community services.



## Welcome Speech of Dean of Veterinary Medicine Faculty Universitas Gadjah Mada

The Honorable Vice Minister of Health, Ministry of Health Indonesia, Prof. Ali Ghufron Mukti, M.D., M.Sc., Ph.D

Distinguished Rector of Universitas Gadjah Mada, Which was represented by Vice Rectors Prof. Dr. Suratman, M.Sc.

Distinguished speakers, Dr. Pudjiatmoko, Director of Animal Health, The Directorate General of Livestock and Animal Health, Ministry of Agriculture

Dear Participants, Ladies, and Gentlemen

Assalamu'alaikum wr. wb.

Good Morning, on behalf of Faculty of Veterinary Medicine, Universitas Gadjah Mada, Bogor Agriculture University, and Airlangga University, I wish to extend the very warmest of welcome to all speakers and participants to the International seminar "A Role of The Veterinarian on The Global Health Challenges". I would like to thank, the Honorable Vice Minister of Health, Indonesia Prof. Ali Ghufron Mukti, M.D, MPH, Ph.D, the distinguished Rector of Universitas Gadjah Mada, which is represented by Prof. Suratman, Vice Rector of Research and Community Services. Also my word of welcome is especially aimed at Dr. Pudjiatmoko, Director of Animal Health, Directorate General of Livestock and Animal Health, and other Invited Speakers. We are very happy to have you with us and we are looking forward for your contribution in this seminar.

Dear Ladies and Gentlemen

This International Seminar could be held in collaboration among three Faculty of Veterinary Medicine, Universitas Gadjah Mada, Bogor Agriculture Institute, and Airlangga University. On this occasion, I would like to thank Dean of Veterinary School, University of Airlangga and Bogor Agriculture Institute for your cooperation.

Dear Ladies and Gentlemen

We know that these zoonotic diseases are not only health hazard to human but also responsible for great economic losses. Almost all of the infections classified as zoonoses can exist where animals are present. As a consequence, veterinary action is necessary for the control of zoonoses. Unless interventions are properly planned and executed exclusively protection against prevailing and new zoonoses can not be ensured.

The implementation of a zoonotic disease control programme relies on multidisciplinary sources for effective control of recurrent zoonotic diseases and entry of new diseases in the country. Close collaboration is required among health institutions, diagnostic centers, and veterinary services. Their combine contribution would make it possible to establish priorities of intervention and to determine the most appropriate tools for controlling zoonotic diseases without regional and mutual cooperation.

Finally, we hope this seminar will give some contribution on disease control programmed in the global health challenges. In this moment, I would like to thank and deepest gratitude to the Chairman of organizing committee and steering committee for their responsibility in this seminar. I wish your success in your deliberations of this important seminar. I wish all ladies and gentlemen's here to be enjoyed and great pleasure. Thank you.

Wassalaamumu'alaikum wr. wh.

Prof. Dr. drh. Bambang Sumiarto, SU, M.Sc  
Dean, Faculty of Veterinary Medicine  
Universitas Gadjah Mada

Dear Sir,

I am writing to you regarding the...

Very respectfully,  
Bambang Sumiarto

Dean, Faculty of Veterinary Medicine

I am writing to you regarding the... (faded text)

Very respectfully,  
Bambang Sumiarto

I am writing to you regarding the... (faded text)

Very respectfully,  
Bambang Sumiarto

I am writing to you regarding the... (faded text)

I am writing to you regarding the... (faded text)

I am writing to you regarding the... (faded text)



## Welcome Speech of Dean of Veterinary Medicine Faculty

### Bogor Agricultural University (IPB)

*Assalamualaikum warrahmatullahi wabarukatu*

Thanks to Allah the almighty God for all blessing for this country and nation. Indonesia is among the biggest country in the number of people and very rich in natural resources. Its location along the equator has made this country become a very important country that bridging, switching and connecting trading, social and culture relations, knowledge sharing, politics, communication, as well as environmental issues between the north and the south areas.

In this century we are facing a rapid development of science and technology contribute to a betterment of human life. However, some problems in the environment and health have also arisen due to decreasing of forest and plantation area, the increase of air and water pollutant, mutation of pathogens, increase number of threatened and endangered animals, endemic and pandemic diseases by new emerging and re-emerging diseases. Due to the complexity, all of these problems can not be solved only by one profession or one single authority. A synergic and mutual collaboration among profession is needed in this effort. Veterinary medical profession is becoming important not only in the management of animal production, animal health but also in the environmental and human health. An approach called one health is suggested as the best method so far to improve our life quality.

This seminar is proposed and conducted by three prominent veterinary schools in Indonesia, those are the veterinary schools of Bogor Agricultural University (IPB), Gadjah Mada University (GMU) and Airlangga University (UNAIR) and aim to gather and sharing knowledge and expertise of veterinary medicines within one health point of view in order to provide a recommendation and ways in the solving of our problems in the human and environment health in Indonesia.

Sincerely thanks to the Dean and all of the committee members of Veterinary School of Gadjah Mada University who have prepared and conducted this seminar perfectly. May God bless all of us.

*Wassalamualaikum warrahmatullahi wabarukatu*

**Srihadi Agungprivono**

Dean Faculty of Veterinary Medicine  
Bogor Agricultural University (IPB)

## Welcome Speech of Dean of Veterinary Medicine Faculty

### Airlangga University

Assalamu'alaikum warahmatullahi wabarakatuh,

First of all, I would like to extend my warmest gratitude to the Faculty of Veterinary Medicine, Universitas Gadjah Mada, Jogjakarta for organizing this international seminar under the theme "*A Role of Veterinarian on The Global Health Challenges*". It is indeed an honour for Faculty of Veterinary Medicine, Airlangga University, Surabaya to be given the opportunity to co-host this seminar.

This seminar focuses on global health challenges, as we know, now days there are many discases come from the animal which is affect on human and animal health. This disease could be divided into five part, there are infectious disease, non infectious disease, zoonotic, food borne disease and trans boundary disease that impact on many field such as politic, economic and health. I hope this congregation, which brings together various experts in these fields, will provide a forum for the formulation and initiation of strategies to address issues of global health. I would implure all participants to also use this opportunity to exchange ideas and knowledge for purpose of handling infectious disease, non infectious disease, zoonotic, food borne disease and trans boundary disease. I am confident that all participant will benefit from this event.

On behalf of Dean of Faculty of Veterinary Medicine, Airlangga University, Surabaya, I would like to convey our sincere gratitude to the committee members for their dedicated, concerted and valiant effort in organizing and making this seminar success. Special thanks to participants contributing through oral and poster presentation. To all participants, thank you for supporting this seminar.

I do hope that this seminar will be found usefull and that you will enjoy aspect of it.

Thank you very much.

Wassalamu'alaikum warahmatullahi wabarakatuh.

**Prof. Hj. Romziah Sidik, Ph.D., DVM.**  
Dean of Faculty of Veterinary Medicine  
Airlangga University  
Surabaya



## THE SCHEDULE INTERNATIONAL SEMINAR

### A ROLE OF VETERINARIAN ON THE GLOBAL HEALTH CHALLENGES

Faculty of Veterinary Medicine, Universitas Gadjah Mada

September 18-19<sup>th</sup>, 2012

Day 1: Tuesday, September 18<sup>th</sup>, 2012

Session 1: Public Opening and Guest Lecture	
08.00 - 09.00 am	Registration
09.00 – 10.00 am	<b>Welcome address:</b> Dean Faculty of Veterinary Medicine
	Opening Remarks: Rector Universitas Gadjah Mada
	Keynotespeech: <i>"Global Diseases Initiative Challenge in Indonesia"</i> Vice Minister of Health: <b>Prof. dr.Ali Ghufron Mukti, M.Sc., PhD.</b> Chairman: Prof. drh. Charles Rangga Tabbu, M.Sc.,Ph.D.
<b>COFFEE BREAK</b>	
10.30 am – 12.00 pm	Chairman : 1. Prof. drh. R. Wasito, M.Sc.,PhD. 2. Dr. drh. Agustina Dwi Wijayanti, MP
	Global Issues : <b>1. Director of Directorate General of Livestocks and Animal Health</b> <i>The Role of Veterinarian in The Global Health Problem toward an Integrative Health</i>
	<b>2. Prof Dr. drh Charles Rangga Tabbu (Universitas Gadjah Mada, Yogyakarta, Indonesia)</b> <i>Problems in Controlling Avian Influenza (AI) in Poultry in Indonesia</i>
	Discussion
<b>LUNCH BREAK</b>	
12.00 – 13.30 pm	
Session 2: Molecular approach in Diseases identification, controlling and eradication	
13.30 – 15.00 p.m.	Chairman : 1. Prof. Dr. drh. Wayan T. Artama 2. drh. Ni Wayan Kurniani K., MP., Ph.D
	1. Prof. Apinun Suprasert, B.Sc., DVM, Ph.D. (Kasetsart University Thailand) <i>"Impact of Veterinary Education on the Strategy to Manage Pet Animal and Wildlife for Reducing Zoonotic Diseases"</i>



## THE SCHEDULE INTERNATIONAL SEMINAR

### A ROLE OF VETERINARIAN ON THE GLOBAL HEALTH CHALLENGES

Faculty of Veterinary Medicine, Universitas Gadjah Mada

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#### COFFEE BREAK

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2. Nguyen Vi, B.Sc., M.Sc. (ILRI Vietnam)  
*Tools for Ecohealth: The Link Between Concept and Practice.*

Discussion

15.00 – 15.15 pm

COFFEE BREAK

Session 3

15.15 – 18.15 p.m.

Chairman : 1. drh. Risa Tiuria, MS., Ph.D  
2. drh . Dyah Ayu Widiasih, Ph.D.

**1. Prof. Dr. drh. Saleha Abdul Aziz (Putra Malaysia University, Malaysia)**  
*Zoonotic Related Topic*

**2. Dr. drh. Denny Widaya Lukman, M.Si (Bogor Agricultural University, Indonesia)**  
*Animal Products and Wildlife in Relation to Zoonotic Disease in Indonesia: Challenge to Veterinary Education.*

**3. Prof. drh. Mas'ud Hariadi, M.Phil., PhD. (Airlangga University)**  
*Artificial Insemination Program for Beef Cattle in Madura Island "Targets, Realization and Problems"*

Discussion

Evening

CULTURAL EVENING AND DINNER

08.30 – 10.00 a.m.

**Parallel Class A.1.**

**Chairman:** drh. Mays U.E. Sanam, M.Sc.  
drh. Della Ria Nesti

**OP. A.1.1. (Page 16)**

**drh. Agung Budiyanto, M.P., Ph.D.**

*The Effect of Breed and Body Score Condition on the Quality and Viability of Epididymal Bovine Sperm from Post Mortem Bull by In Vitro Collection Method.*

**OP. A. 1.2. (Page 17)**

**drh. Erif Maha Nugraha, M.Sc.**

*Reproductive Performance of Cross Breed Cattle in "Handini Mukti" Farmers Group, Sleman Regency.*

**OP. A.1.3. (Page 18)**

**drh. Teguh Budi Pitojo, M.P., Ph.D.**

*An Immunohistochemical Study of The Cytoskeletal Proteins in The Immature Testis of Java Porcupine (*Histrix javanica*).*

**OP. A.1.4. (Page 19)**

**Ir. Rosidi, M.P.**

*Sperm Quality of Local Duck with Use Cow Reticulum in Feed.*

**OP.A.1.5. (Page 20)**

**drh. Sri Gustari, M.P.**

*The Estrous Performance Of Crossbreeding Cow In Nanggung Sub-District, Kulonprogo District*

08.30 – 10.00 a.m.

**Parallel Class B.1.**

**Chairman :** Dr. drh. Galuh Tresnani, S.Si., M.Biol.  
drh. Irene Linda Megawati S.

**OP. B.1.1.**

**drh. Dyah Ayu O.A.P., M.Biotech. (Page 21)**

*Detection of *Toxoplasma gondii* Parasitemia in Animals by Nonradioactive Hybridization and Gene Amplification.*

**OP. B.1.2. (Page 22)**

**Prof. drh. Hastari Wuryastuti, M.Sc., Ph.D.**

*The Effectiveness of Oral Administered-Iodine Fortification of Red Fruit Extract (*Pandanus conoideus* Lam) for Correcting Iodine Deficiency Disorders in Sprague Dawley Rats.*

**OP. B.1.3. (Page 23)**

**drh. Muchammad Yunus, M.Si., Ph.D.**

*Isolation of Total RNA of Sporozoite Membrane Protein of *E. tenella* as Principle of Fragment Gene Amplification in PCR Technique.*

**OP.B.1.4. (Page 24)**

**Dr. drh. Siti Rahmah Umniyati, S.U.**

*Efficacy Of Herbal Medicine Composod Of *Curcuma Heyneana* Val Et Van Zijp, And *Piper Cubeba* L As Antiviral Against Dengue Virus In Vivo*



**OP.B.1.5. (Page 25)**

**Dr. drh. S. Indarjulianto**

*Diagnosis Of Microsporium Canis Infection By Two Uv-light Tools In Dog*

08.30 – 10.00 a.m.

**Parallel Class C.1.**

**Chairman : drh. I ketut M. Adnyane., M.Si., PhD., APVet  
drh. Lalita Prasadhanti**

**OP. C.1.1. (Page 26)**

**Muhibullah**

*Campylobacteriosis and Risk Factors on Broiler Carcasses at the Poultry Slaughterhouses of South Tangerang City.*

**OP. C.1.2. (Page 27)**

**drh. Joko Ismadi**

*Study of Ecology Comparison Rabies in Dogs in Tangerang Distric the Free Rabies Area and I.chak Distric the Endemic Rabies Area.*

**OP. C.1.3. (Page 28)**

**drh. EstuWidodo**

*Cross-sectional Study Cattle leptospirosis In Pengasih District of Kulonprogo Regency.*

**OP. C.1.4. (Page 29)**

**dr. Farida Damanik**

*Risk Factors of House Environment, Smoking Behaviour and Alcohol Consumption in the Incidence of Pulmonary Tuberculosis in Banjarmasin City, Kalimantan, Indonesia*

**OP. C.1.5. (Page 30)**

**dr. Dina Merisa Damanik**

*Sanitation of House and School, Personal Hygiene and Infection of Soil Transmitted Helminths (sth) in The Elementary School Students of Palue Island, East Nusa Tenggara Province of Indonesia.*

10.30 – 11.00 a.m.

**COFFEE BREAK**

**Session 5. Parallel Seminar (11.00-12.00)**

11.00 am – 12.00 pm

**Parallel Class A. 2.**

**Chairman: Dr. drh. Pudji Astuti, M.P.  
drh. Ratna Ermawati**

**OP. A.2.1 (Page 31)**

**Dr. drh. Irdham Widiyono**

*Metabolic Adaptation During Feed Restriction In Male Ettawa Crossbred Goats.*

**OP. A.2.2 (Page 32)**

**drh. HerryAgoesHermadi, M.Si.**

*Bioactivity of Human Menopause Gonadotrophin (HMG) and HMGDeglycosylated (HMGDG) of Postmenopausal Woman Urine in In Vitro Bovine Embryo Cleavage.*

**OP. A.2.3. (Page 33)**

**drh. Sarmin, M.P.**

*Some Serum Enzyme Activity in Ettawa Crossbreed Goats.*

**OP. A.2.4. (Page 34)**

**Dr. drh. Trini Susmiati, M.P.**

*Response Of Different Macrophage Cell To Oxidation Level Low Density Lipoprotein (LDL)*

**OP.A.2.5 (Page 35)**

**drh. Sri Handayani Irianingsih, M.Biotech.**

*Sequence Analysis of Neuraminidase Gene Which Encodes Sensitivity to Antiviral Oseltamivir in Avian Influenza Virus A Subtype H5N1*

11.00 am – 12.00 pm

**Parallel Class B. 2.**

**Chairman : Dr. drh. Aris Haryanto, M.Si.**

**drh. Suryo Kuntjorojakti, M.Sc.**

**OP. B.2.1. (Page 36)**

**Prof. drh. Kurniasih, MVSc., PhD.**

*Detection of Antibiotic Residu in the Fish Muscle of Oreochromis niloticus.*

**OP. B.2.2.(Page 37)**

**drh. Filka Yuliza Purba**

*Mycotic Mastitis in Dairy Cows in Pakem Sub-district, Sleman District of Yogyakarta.*

**OP. B.2.3 (Page 38)**

**drh. Rian Hari Suharto**

*Surface Character of Staphylococcus aureus from Ettawah Crossbreed Goat's Milk associated with Phagocytosis Capacity.*

**OP.B.2.4. (Page 39)**

**Prof. Dr. drh. Siti Isrina O.S.**

*Detection Of Muramidase Released Protein Of Streptococcus Suis Infection In Pigs In Papua*

**OP. B.2.5. (Page 40)**

**drh. Aris Purwantoro, M.Si.**

*Temperature fluctuation effects on biogas production Of livestock manure co-digested with municipal Solid organic waste*

**OP. B.2.6 (Page 41)**

**drh. Ely Susanti**

*Study Of Brucellosis Impacts And Risk Factors On Dairy Cows' Calving Interval In Borders Of Klaten – Boyolali District 1*

11.00a.m-12.00p.m

**Parallel Class C. 2.**

**Chairman : Dr. drh. Retno Sri Wahyuni**

**drh. Woro Danur Wendo**

**OP. C.2.1.(Page 42)**

**drh. Boedi Setiawan, M.P.**

*Surgical Removal Of A Foreign Body From Dog Stomach: Case Report.*

**OP. C.2.3.(Page 43)**

**drh. Yudha Heru F., M.P., PhD.**

*Effect of Advanced Kidney Cell-derived Protein Extract (AKCPE) on Treatment of Chronic Renal Failure in Dog and Cat.*



**OP. C.2.3. (Page 44)**

**Dr. drh. Agustina Dwi W., M.P.**

*The Comparisson of Doxycycline Level Given by Feed and Drinking Water on Broiler Plasma and Brain.*

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**Dr. drh. Dhirgo Adjie, M.P.**

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## SURGICAL REMOVAL OF A FOREIGN BODY FROM DOG STOMACH : CASE REPORT

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### ABSTRACT

A 3 years old dog, Golden Retriever breed, male, golden brown hair color, have brought to Veterinary Teaching Hospital Airlangga University, with a symptom for 3-4 days vomiting 2-3 times a day with food, defecation and urination is normal, soft faeces consistency, have not been vaccinated. After a physical examination followed by x-ray photographs showed that in gastric dog is there a possibility of a foreign body is swallowed. Finally it was decided to gastrotomy surgery to remove the foreign body. Operation process went successfully and after undergoing surgery for 1 week later the dogs had been allowed to go home.

**Keywords :** foreign body, surgical, dog stomach

### INTRODUCTION

The dog stomach is a sac like structure designed to store large volumes of food and begin the digestive process. Once eaten, most food leaves the stomach within twelve hours after entering through the pyloric sphincter area and then enters the duodenum (small intestine). Foreign bodies of the stomach are items found in the puppy stomach that should not be there. Puppies, by nature, love to chew and play with non-food things and may intentionally or accidentally swallow these substances. Commonly found stomach foreign bodies include balls, marbles, coins, stones, bottle caps, bones, sticks, clothing, buttons, paper clips, fish hooks, etc. All are capable of being swallowed, but may not exit the stomach and instead, become lodged there (Foster, 2005)

Dogs of all ages can be affected by the case, but it is common in dogs under two years because the dog ages, always suspicious or curious about new things, likes to dig, chew stuff - stuff until finally swallowing (PetPlace Veterinarians, 2008). Allan and Blogg, 1992 stating dogs, especially puppies love to chew, and it was a way for them to recognize new objects. Therefore the trend to the onset of gastrointestinal obstruction either partial or total of the dog is great.

Foreign body especially the strings or cords can cause perforation of the small intestine and abdominal contaminate the material from the small intestine. This can result in peritonitis because bacteria grow rapidly and cause sepsis. To determine the presence of a foreign body in the gastric endoscopy should be performed, although the case remain operative gastrotomy action is required to take the foreign body (Marsolais, 2004).

### CASE DESCRIPTION

On Monday, December 10, 2007, came a dog breed Golden Retriever 3 years golden brown color with a general look normal conditions. Having done diagnose, obtain the following information: have not been vaccinated, eating and drinking normally, normal urination, faeces mushy consistency, frequency of vomiting with food 2-3 times a day and lasts for 3-4 days, no information was allegedly swallowing dog rubber ball as an ordinary rubber ball used to play was not found. After a thorough examination obtained: weight 28 kg, temperature 39<sup>o</sup> C; pulsus 120/second; respiration 40/second, normal turgor, mucous membranes normal.



## RADIOGRAPHICALEXAMINATION

With considering the history and clinical symptoms, foreign body was found ( Fig.1) in the lateral position abdominal X-ray.

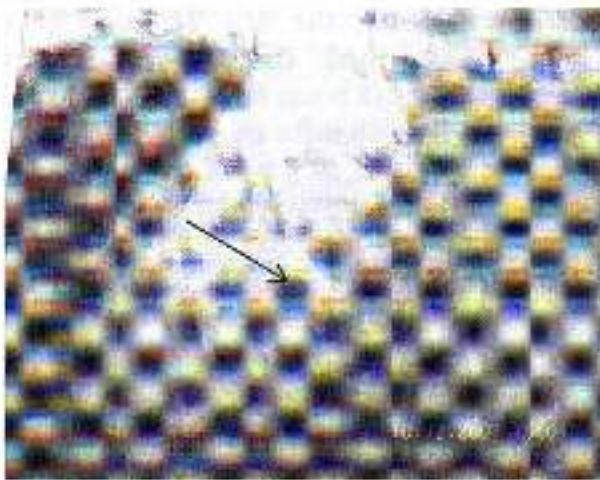


Fig.1. The abdominal position of the foreign body in the case seen on lateral X-ray (arrow)

## TREATMENT

We therefore decided to remove the foreign body through a gastrotomy. Xylazine HCL ( 1mg kg-1 ) and Ketamine HCL (20mg kg-1) was intramuscularly administered to put the dog under general anesthesia with dorsal recumbency for surgical treatment. Then, animal were prepared for operation according to the technique applied by Fossum, 2002. Made a stab incision into the gastric wall with a No. 10 blade. Often the mucosa will retract from the blade and will need to be incised separately to enter the gastric lumen. Extend the incision with Metzenbaum or Mayo scissors . Remove liquid gastric contents with suction by using a Poole suction tip to decrease the risk of contamination from spillage.

Gastric incision can be enlarged to extract foreign bodies and to allow thorough examination of the gastric mucosa and lumen (see in fig 2). An index finger can be inserted through the pylorus to check patency and

diameter. If a distal esophageal foreign body is present, gently insert blunt-ended forceps (e.g. Carmalt or sponge forceps) through the lower esophageal sphincter to grasp the foreign body. If the foreign body cannot be easily retracted into the stomach, incise the diaphragm, and with one hand in the thorax, manipulate the foreign body within the esophagus while attempting to grasp the object with the transgastric forceps.

The gastric incision is usually closed in two layers with synthetic, monofilament, absorbable suture to reduce intraluminal bleeding and form a secure seal. The first suture layer should appose mucosa with a continuous suture pattern to prevent postoperative hemorrhage. This suture will be rapidly covered during the healing process and, therefore, become isolated from digestive degradation. Closure can be full-thickness or only incorporate mucosa. The second suture layer should include serosa, muscularis, and submucosa in an inverting Lembert or Cushing suture pattern with 2-0 or 3-0 monofilament absorbable suture. Tapered needles are recommended for use in the stomach since they pass through the wall easily and are less traumatic (Rasmusen,2003).



Fig 2. Operations gastrotomy raised its foreign body such as a rubber ball



## DISCUSSION

Obstruction of the digestive tract either gastric or intestine common in dogs. This behavior is caused by a dog, especially young dogs under 2 years old who likes hitting things going on that are new to him or a toy for him. For owners in this regard should be careful in giving or observing objects made toys. Later in check if after the object is used to play is still intact or has been reduced even disappear. Cases like this come always in a state of emergency and requires immediate treatment. If the obstruction is partial and not total it happened recently, then the condition still looks normal dog vomiting may only be fed food every time, but it will continue to be severe if not treated immediately. Other accompanying symptoms are loss of appetite, vomiting more often result in dehydrated animals, body condition lethargy, weakness, depression, and sometimes with both bloody diarrhea and no bleeding, no pain abdominal area (Marsolais, 2004)

Many dogs with cases of gastric obstruction by a foreign body of clinical symptoms appear is vomiting or not eating for a while. It requires action to restore lost fluids (rehydration) and restore the balance of acids and bases as well as electrolytes. Fluid therapy should be given through an IV so I can quickly correct the fluid deficit.

There are two primary methods in this case the endoscopy or surgery (surgery). Using a flexible endoscope tube with a camera that can guide and give clues about the existence of a foreign body (foreign body). This tool can be used if there is a foreign body in the gastric, if it is in the small intestine should be performed operative action. The advantage is no need to make incisions, quicker handling time and recoveri patients faster, accurate object types and can be seen by the camera, the drawback is the tool could not take the material inside the small intestine such as rock, or a rubber ball(PetPlace Veterinarians, 2008).

Post operation give antibiotic treatment for 5 days post surgeryparenterally, 24 hours post surgery, should not be given food at all, fluid therapy (Ringer's dextrose or Ringer's lactate) should be given continuously. Drink (water / milk) should be administered after the first 24 hours post surgery, and fluid therapy discontinued gradually. After 48 hours be given semi-liquid foods / protein-rich software for 3-4 days. But if there is vomiting, stop feeding immediately, and then be given metoclopramide (0.2 to 0.4 mg / kg) 3 times a day. After vomiting can be controlled, the food should not be given again. Up to 2 weeks post-surgery diet should be given in limited numbers (a little), because when the stomach is too full terutam first 3 days of food can cause vomiting (vomiting) and the possibility exists dehiscence (wound sutures are not linked) (Rasmusen,2003).

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