

DAFTAR PUSTAKA

- Agustina L, S. Purwanti dan D. Zainuddin. 2007. Penggunaan probiotik (*Lactobacillus* sp.) sebagai imbuhan pakan broiler. Prosiding Seminar Nasional Teknologi Peternakan dan Veteriner. Bogor, 21 – 22 Agustus 2007. Balai Besar Penelitian Veteriner. 552 – 555.
- Ahmad, R.Z. 2005. Pemanfaatan khamir *Saccharomyces cerevisiae* untuk ternak. *Jurnal Wartazoa* 15(1) ; 49-55.
- Al-Shamery, N. J. & M. B. S. Al-Shuhaib. 2015. Effect of in-ovo injection of various nutrients on the hatchability, mortality ratio and weight of the broiler chickens. *IOSR Journal of Agriculture and Veterinary Science* 8:30-33.
- Alex, M. S. 2011. Pasti untung bisnis ayam kampung panen hanya dalam waktu 6 minggu. Pustaka baru Press. Yogyakarta.
- Amrullah, I.K. 2004. Nutrisi Ayam Broiler Ed ke-2. Bogor (ID): Lembaga Satu Gunungbudi.
- Anggorodi, H.R. 1985. Ilmu Makanan Ternak Umum. Cetakan ke-5. PT. Gramedia Pustaka Utama, Jakarta.
- Aqsa, A.D., K. Kiramang, dan M.N. Hidayat. 2016. Profil organ dalam ayam pedaging (broiler) yang diberi tepung daun sirih (*Piper betle linn*) sebagai imbuhan pakan. *Jurnal Ilmu dan Industri Peternakan* 3(1) : 148-159.
- Ardias, N. 2008. Peranan NaCl terhadap Derajat Pembuahan, Penetasan Telur dan Kelangsungan Hidup Larva Ikan Koi *Cyprinus carpio*. Skripsi. Program Studi Teknologi Dan Manajemen Akuakultur Fakultas Perikanan Dan Ilmu Kelautan Institut Pertanian Bogor.
- Arisman. 2017. Morfometri dan Histologis Usus Halus Ayam Kampung Jantan Hasil In Ovo Feeding Asam Amino L-Glutamin. Skripsi. Fakultas Peternakan Universitas Hasanuddin Makassar.
- Asmawati. 2013. The Effect of In Ovo Feeding on Hatching Weight and Small Intestinal Tissue Development of Native Chicken. Disertasi. Fakultas Peternakan Universitas Hasanuddin, Makassar.

- Azhar, M., D.P. Rahardja, W. Pakiding. 2016. Embryo development and post-hatch performances of kampung chicken by in ovo feeding of L-arginine. *Media Peternakan*. 39(3) : 168-172.
- Aziza, L.N. 2012. Persentase Organ Dalam serta Kandungan Vitamin A Hati Ayam Petelur yang Diberi Pakan Mengandung Marigold (*Tagetes erecta*). Skripsi. Departemen Ilmu Nutrisi Dan Teknologi Pakan Fakultas Peternakan Institut Pertanian Bogor.
- Baggott, G.K. 2001. Development of extra-embryonic membranes and fluid compartments. In: Deeming, D.C. (ed.) *Perspectives in Fertilisation and Embryonic Development in Poultry*. Lincolnshire, UK:Ratite Conference Books, pp. 23-29.
- Bandyopadhyay, B. dan N. C. Mandal. 2014. Probiotics, prebiotics and synbiotics-in health improvement by modulating gut microbiota: The concept revisited. *International Journal of Current Microbiology and Applied Sciences* 3(3): 410-420.
- Barrow, P. A. 1992. Probiotics For Chickens. P 225-257. In R. Fuller (Ed). *Probiotics The Scientific Basis*. Chapman and Hall, London.
- Bell, D. D., dan W. D. Weaver, Jr. 2002. *Commercial Chicken Meat and Egg Production*. 5th Edition. Springer Science and Business Media Inc. New York.
- Bhanja, S.K. and A.B. Mandal. 2005. Effect of in ovo injection of critical amino acids on pre- and post-hatch growth, immunocompetence and development of digestive organs in broiler chickens. *Asian-Aust. J. Anim. Sci.* 18 (4) : 524-531.
- Bidura, I.G.N.G, dan I.M. Suasta. 2010. Penampilan Ayam Kampung Umur 0- 8 Minggu yang Diberi Tepung Hipofisa Kambing Melalui Ransum. Jurusan Nutrisi dan Makanan Ternak, Fakultas Peternakan, Universitas Udayana, Denpasar.
- Chen, W., M. Tangara, J. Xu, and J. Peng. 2012. Developmental transition of pectoralis muscle from atrophy in late-term duck embryos to hypertrophy in neonates. *Exp. Physiol* 97 (7) : 861–872.
- Davies. 1982. *Growth and Energy In Nutrition and Growth Manual*. The Australian University International Development Program : Australia.

- Dewi, A.K. 2013. Isolasi, identifikasi dan uji sensitivitas *Staphylococcus aureus* terhadap amoxicillin dari sampel susu kambing peranakan etawa (PE) penderita mastitis di wilayah girimulyo, kulonprogo, Yogyakarta. *Jurnal Sain Veteriner* 31(2) : 138-150.
- Dewi, H.R.K. 2007. Evaluasi beberapa ransum komersial terhadap persentase bobot karkas, lemak abdomen dan organ dalam ayam broiler. Skripsi. Bogor (ID): Institut Pertanian Bogor.
- Dhakhiyah, T.A. 2012. Pengembangan Skala Usaha Ternak Ayam Buras Petelur (Studi Kasus : Kelompok Ternak Hidayah Alam Kecamatan Klapa Nunggal Kabupaten Bogor). Skripsi. Departemen Agribisnis Fakultas Ekonomi dan Manajemen Institut Pertanian Bogor.
- Effendi, H. 2003. Telaah Kualitas Air. Kanisius. Yogyakarta.
- Ensminger ME, Oldfield JE, Heinemann WW. 1992. *Feeds dan Nutrition*. 2nd ed. Ensminger Publishing Company. California, USA.
- Fahrudin, A., W. Tanwiriah, dan H. Indrijani. 2016. Konsumsi ransum, penambahan bobot badan dan konversi ransum ayam lokal di Jimmy's farm Cipanas Kabupaten Cianjur. Laporan Penelitian. Fakultas Peternakan Universitas Padjadjaran, Bandung.
- Fajrinnalar, D. 2010. Performa Ayam Broiler yang Diberi Ransum dengan Penambahan Cassabio. Skripsi. Departemen Ilmu Produksi Dan Teknologi Peternakan Fakultas Peternakan Institut Pertanian Bogor.
- Franson, R. D. 1992. *Anatomi dan Fisiologi Ternak*. Edisi ke-4. Terjemahan. Gadjah Mada University Press : Yogyakarta.
- Grist, A. 2006. *Poultry Inspection. Anatomy, Physiology and Disease Conditions* 2nd Edition. Nottingham University Press, United Kingdom.
- Gupta, C., D. Prakash, M.H. Rostagno, and T.R. Callaway. 2015. *Synbiotics: Promoting Gastrointestinal Health*.
- Hafez, E.S.E. and Dyer, S.A. 1969. *Animal Growth and Nutrition*. Lea and Febiger. Philadelphia.
- Hamasalim, H.J. 2016. Synbiotic as feed additives relating to animal health dan performance. *Advances in Microbiology*, 6 : 288-302.

- Hamzah. 2013. Respon Usus Dan Karakteristik Karkas pada Ayam Ras Pedaging dengan Berat Badan Awal Berbeda yang Dipuaskan Setelah Menetas. Skripsi. Fakultas Peternakan. Universitas Hasanuddin. Makassar.
- Handayani, F.F. 2017. Pengaruh *In Ovo Feeding* L-Glutamin terhadap Karakteristik Karkas dan Non Karkas Ayam Kampung Jantan. Skripsi. Fakultas Peternakan Universitas Hasanuddin Makassar.
- Harianda, M.A. 2017. Struktur Histologi Gizzard (*Ventrikulus*) Ayam Ketawa (*Gallus domestikus*) dengan Tinjauan Khusus Sebaran Kandungan Karbohidrat. Skripsi. Program Studi Kedokteran Hewan Fakultas Kedokteran Universitas Hasanuddin Makassar.
- Hartono, E.F., N. Iriyanti, dan S. Suhermiyati. 2016. Efek penggunaan sinbiotik terhadap kondisi mikroflora dan histologi usus ayam sentul jantan. Jurnal Agripet 16(2) : 97-105.
- Has, H., Napirah, A., dan Indi, A. 2014. Efek peningkatan serat kasar dengan penggunaan daun murbei dalam ransum broiler terhadap persentase bobot saluran pencernaan. JITRO 1(1) : 63 – 69.
- Hidayati, P.I., dan D.L. Yulianti. 2016. Optimalisasi penambahan sinbiotik dari tepung ubi jalar dengan ragi tape pada performa dan kualitas produksi ayam pedaging. Seminar Nasional Hasil Penelitian.
- Hood, S.K. and E.A. Zottola. 1998. Effect of low pH on the ability of *Lactobacillus acidophilus* to survey and adherence to human intestinal cells. Journal of Food Science 53: 1514-1516.
- Ibrahim, S. 2008. Hubungan ukuran-ukuran usus halus dengan berat badan broiler. Jurnal Agripet. 8(2) : 42-46.
- Irwadi, H. 1991. Pengaruh Pemakaian Jahe (*Zingibar officiale rosa*) dalam Ransum Terhadap Penampilan Ayam Broiler Pedaging. Skripsi Fakultas Peternakan Universitas Andalas. Padang.
- Iskandar. 2006. Ayam Silangan Pelung-Kampung : Tingkat Protein Ransum Untuk Produksi Daging Umur 12 Minggu. Wartazoa 16 (2) : 65-71.
- Iskandar, S., Z. Desmayati., S. Sastrodihardio., T. Sartika., P. Setiadi, dan T. Susanti. 1998. Respon pertumbuhan ayam kampung dan ayam silangan

- pelung terhadap ransum berbeda kandungan protein. *Jurnal Ilmu Ternak dan Veteriner* 3 (1): 8-14.
- Jawetz, E., Melnick, J.L. and Adelberg, E.A. 2005. *Mikrobiologi kedokteran*. Buku 1. Penerbit Salemba Medika. Jakarta.
- Joseph, G. 1996. Status Asam-Basa dan Metabolisme Mineral pada Ternak Kerbau Lumpur yang diberi Pakan Jerami Padi dan Konsentrat dengan Penambahan Natrium. Disertasi. Program Pasca Sarjana Fakultas Perikanan. Bogor: Institut Pertanian Bogor.
- Jull, M. A. 1972. *Poultry Husbandry*. 3rd Ed. Tata McGraw-Hill Publishing Company LTD, New Delhi.
- Kadam, M.M., M.R. Berekatani, S.K. Bhanja, and P.A. Iji. 2013. Prospects of in ovo feeding and nutrient supplementation for poultry : the science and commercial applications - areview. *Journal Science Food Agriculture*. (wileyonlinelibrary.com) DOI10.1002/jsfa.630.
- Ketaren.P.P., S Sopiyan, dan D. Sudarman. 2010. *Seri Peningkatan Manfaat Sumberdaya Genetik Ternak : Usahatani Ayam Kampung*. Balai Penelitian Ternak Ciawi Bogor.
- Krismiyo, L., N. Suthama, dan H.I. Wahyuni. 2010. Keberadaan bakteri dan perkembangan caecum akibat penambahan inulin dari umbi Dahlia (*Dahlia variabilis*) pada ayam kampung persilangan periode starter. *Jurnal Ilmu-Ilmu Peternakan* 24 (3) : 54 – 60.
- Kusmayadi, A., Prayitno, C.H., dan Rahayu, N. 2019. Persentase organ dalam itik cihateup yang diberi ransum mengandung kombinasi tepung kulit buah manggis dan tepung kunyit. *Jurnal Peternakan Nusantara* 5(1) : 1 – 12.
- Kustiningrum, D.R. 2004. Pengaruh Pergantian Pakan Starter terhadap Performance Ayam Kampung. Skripsi. Universitas Brawijaya Fakultas Peternakan : Malang.
- Lacy, M., dan L. R. Veast. 2000. *Improving Feed Conversion in Broiler : A Guide for Growers*. Springer Science and Business Media Inc. New York.
- Landecker, E.M. 1972. *Fundamental of the Fungi*. Prentice Hall Inc. New York University New York. USA. pp. 59-61.

- Lesson, D.J. and Summer, M.C. 2005. Poultry Feeds and Nutrition. The AVI Publishing Co. Inc. Westport, Connecticut.
- Lilburn, M.S. and S. Loeffler. 2015. Early intestinal growth and development in poultry. Poultry Science 00 : 1–8.
- Lima, D.M., P. Fernandes, D.S. Sancimento, R.C.L.F. Ribeiro, and S.A. Assis. 2010. Fructose Syrup: A Biotechnology Asset. Food Technology Biotechnology 49(4) : 424 – 434.
- Linggi, T.R. 2018. Pengaruh Pemberian Level Protein Pakan yang Berbeda terhadap Performa Ayam Buras Betina Hasil *In Ovo Feeding* L-Arginin Selama Dua Generasi (F2). Skripsi. Fakultas Peternakan Universitas Hasanuddin Makassar.
- Lisnahan, C.V. 2018. Penentuan Kebutuhan Nutrien Ayam Kampung Fase Pertumbuhan yang Dipelihara Secara Intensif dengan Metode Kafetaria. Disertasi. Fakultas Peternakan Universitas Gadjah Mada Yogyakarta.
- Lodder, J. 1970. The Yeast: A Taxonomic Study Second Revised and Enlarged Edition. The Netherland, Northolland Publishing Co., Amsterdam.
- Maradon, G.G., R. Sutrisna, dan Erwanto. 2015. Pengaruh ransum dengan kadar serat kasar berbeda terhadap organ dalam ayam jantan tipe medium umur 8 minggu. Jurnal Ilmiah Peternakan Terpadu 3(2) : 6-11.
- McNab, J. M. 1973. The avian caeca: A review. World Poult. Sci. 29 (3) : 251-263.
- Melani. 2010. Karakteristik Sistem Pemeliharaan Ayam Kampung dan Ayam Leher Gundul di Kabupaten Subang, Jawa Barat. Skripsi. Departemen Ilmu Produksi dan Teknologi Peternakan Fakultas Peternakan Institut Pertanian Bogor.
- Mulyasari, Widanarni, M.A. Suprayudi, M.Z. Junior, dan M.T.D. Sunarno. 2015. Seleksi dan identifikasi bakteri selulolitik pendegradasi daun singkong (*Manihot esculenta*) yang diisolasi dari saluran pencernaan ikan gurame (*Osphronemus gouramy*). JPB Kelautan dan Perikanan 10(2) : 111-121.
- Mulyono, Murwani R, Wahyono F. 2009. Kajian penggunaan probiotik *Saccharomyces cereviceae* sebagai alternatif aditif antibiotik terhadap

- kegunaan protein dan energi pada ayam broiler. J. Indon. Trop. Anim. Agric. 34(2): 145-151.
- Murwani, R. 2010. Broiler Modern Edisi I. Penerbit Widya Karya : Semarang.
- Mutia, R., R.K. Rusli, K.G. Wiryawan, T. Toharmat, dan Jakaria. 2017. Pengaruh penambahan tepung kulit manggis dan vitamin e dalam pakan terhadap organ pencernaan, aksesori, reproduksi dan karkas ayam petelur. Buletin Peternakan 41(3) : 257-164.
- National Research Council. 1994. Nutrient Requirements of Poultry: Ninth Revised Edition. National Academy Press : Washington, D.C.
- Ngatirah. 2009. Probiotik, Prebiotik dan Sinbiotik. Jurnal Agroteknose 4(2) : 46-48.
- Nickle, R. A., Schummer, E., Seifrl, W. G., Siller and P. H. L. Wight. 1977. Anatomy of Domestic Bird. Verlag Paul Parey : Berlin.
- Nikon. 2004. Saccharomyces Yeast Cells: Nikon Microscopy. Phase Contrast ImageGallery.[http:// www.microscopyu.com/galleries/phasecontrast/saccharomyces-small.html](http://www.microscopyu.com/galleries/phasecontrast/saccharomyces-small.html)
- North, M. O. and D. D. Bell. 1990. Commercial Chicken Production Manual. 4th Edition. Van Nostrand Rein Hold, New York.
- Nurkhalisa. 2018. Pengaruh Pemberian L-Arginin Secara *In Ovo* Selama Dua Generasi (F2) terhadap Performa Ayam Buras Jantan dan Betina. Skripsi. Fakultas Peternakan Universitas Hasanuddin Makassar.
- Nugroho, A. 2010. Ayam Broiler, Peternakan, Sejarah Ayam, Tanin. Prosiding Seminar Nasional.
- Nuroso. 2018. Panduan Praktis Beternak Ayam Kampung Hari per Hari. Penebar Swadaya : Cibubur Jakarta Timur.
- Pamungkas, R.S., Ismoyowati, dan S.A. Santosa. 2013. Kajian bobot tetas, bobot badan umur 4 dan 8 minggu serta korelasinya pada berbagai itik lokal dan itik manila jantan. Jurnal Ilmiah Peternakan 1 (2): 488 – 500.

- Pertiwi, D.D.R., R. Murwanti, dan T. Yudiarti. 2017. Bobot relatif saluran pencernaan ayam broiler yang diberi tambahan air rebusan kunyit dalam air minum. *Jurnal Peternakan Indonesia* 19(2) : 60-64.
- Pond, W.G, Church, D.C, and Pond, K.R. 1995. *Basic Animal Nutrition and Feeding*. Ed ke-4. New York (US): John Willey and Sons.
- Putnam, P. A. 1991. *Handbook of Animal Science*. Academic Press. San Diego.
- Putri, F. 2017. Uji Viabilitas Bakteri Asam Laktat dari Usus Itik (*Anas domesticus*) pada Media Molases, Garam Fisiologis dan Kombinasinya Sebagai Probiotik. Skripsi. Fakultas Matematika Dan Ilmu Pengetahuan Alam Universitas Lampung Bandar Lampung.
- Putri, H.S. 2017. Sensitivitas Bakteri *Staphylococcus aureus* Isolat dari Susu Mastitis Terhadap Beberapa Antibiotika. Skripsi. Fakultas Kedokteran Hewan Universitas Airlangga Surabaya.
- Rahardja, D.P., M.R. Hakim, M. Yusuf, and V.S. Lestari. 2019. Hatching and post-hatching performances of Indonesian native chicken eggs infused saline solution. *IOP Conf. Series: Earth and Environmental Science* 247.
- Raharja, S., dan N.F. Andyani. 2006. Produksi Sirup Fruktosa dari Inulin *Dahlia pinnata* Cav. Secara Hidrolisis Asam. *Jurnal Teknik Industri Peternakan* 11(3) : 119 – 124.
- Rahmawati. 2016. Histologis Saluran Pencernaan Ayam Buras Hasil *In Ovo Feeding* Asam Amino L-Arginine. Skripsi. Program Studi Peternakan Fakultas Peternakan Universitas Hasanuddin Makassar.
- Ramadhan, V.H. 2018. Morfometrik Hati, Lambung, Usus, dan Pankreas Ayam Broiler yang Diberi Jamu Kombinasi Kemangi, Tetes Tebu, dan Garam. Skripsi. Fakultas Kedokteran Hewan Institut Pertanian Bogor.
- Rambe, Y.A. 2014. Performa dan ukuran tubuh ayam F1 persilangan ayam kampung dengan ayam ras pedaging umur 12-22 minggu. Laporan Penelitian. Institut Pertanian Bogor. Bogor.
- Rasyaf, M. 2003. *Beternak Ayam Pedaging*. Penebar Swadaya. Jakarta.
- Rasyaf, M. 2006. *Beternak Ayam Kampung*. Penebar Swadaya. Jakarta.

- Rendika, N., Yudiarti, T., dan Isroli. 2015. Pengaruh pemberian aditif pakan probiotik *Rhizopus oryzae* dalam ransum terhadap bobot dan panjang organ pencernaan ayam kampung. Fakultas Peternakan dan Pertanian, Universitas Diponegoro Semarang.
- Ressang. 1984. Patologi Khusus Veteriner. Edisi ke-2. N.V. Percetakan Bali. Denpasar.
- Rose, S. P. 1997. Principles of Poultry Science. CAB International, London.
- Rosyani, S. 2013. Pemberian Pakan Konsentrat Mengandung Tepung Inti Sawit yang Ditambahkan Pollard atau Dedak dan Pengaruhnya terhadap Persentase Organ Dalam Ayam Broiler. Skripsi. Institut Pertanian Bogor. Bogor.
- Ruswandi, B. Oktavia, M. Azhar. 2018. Penentuan Kadar Fruktosa Hasil Hidrolisis Inulin dengan DNS sebagai Pengoksidasi. Jurnal Eksakta 19(1) : 14 – 23.
- Saepulmilah, A. 2010. Performa Ayam Broiler yang Diberi Pakan Komersial dan Pakan Nabati dengan Penambahan Dysapro. Skripsi. Departemen Ilmu Produksi Dan Teknologi Peternakan Fakultas Peternakan Institut Pertanian Bogor.
- Saleema, A.K. 2018. Kadar Malondialdehida (MDA) Jantung dan Limpa Ayam Broiler Yang Di *Stunning* Dan *Non-Stunning*. Skripsi. Fakultas Kedokteran Hewan Institut Pertanian Bogor Bogor.
- Salmanzadeh, M. and H.A. Shahryar. 2013. Effects of dietary glutamine addition on growth performance, carcass characteristics and development of the gastrointestinal tract in Japanese quails. *Revue Méd. Vét.* 164 (10) : 471-475.
- Satimah, S., Yuniarto, V.D., dan Wahyono, F. 2019. Bobot relatif dan panjang usus halus ayam broiler yang diberi ransum menggunakan cangkang telur mikropartikel dengan suplementasi probiotik *Lactobacillus* sp. *Jurnal Sain Peternakan Indonesia* 14(4) : 396 – 403.
- Schaible, J. 1979. Poultry: Feed and Nutrition. 3rd Edition. The Avi Publishing Company, Inc., Westport. East Lansing. Michigan.

- Septiwan, R. 2007. Respon Produktivitas dan Reproduksi Ayam Kampung dengan Umur Induk yang Berbeda. Skripsi. Program Studi Teknologi Produksi Ternak Fakultas Peternakan Institut Pertanian Bogor.
- Sturkie, P.D. 2000. Avian Physiology. 4th Edition. Spinger Verlag. New York.
- Sulandari, S., M.S.A. Zein, S. Paryanti dan T. Sartika. 2007. Taksonomi dan AsalUsul Ayam Domestikasi. Dalam : Keanekaragaman Sumber Daya Hayati Ayam Lokal Indonesia: Manfaat dan Potensi. Diwyanto, K. Dan Prijono S.N (Eds.). Pusat Penelitian Biologi. Lembaga Ilmu Pengetahuan Indonesia. Bogor. Hal.5-25.
- Sulkifli. 2017. Pengaruh Injeksi In Ovo Glutamin terhadap Performa Ayam Buras Pascatetas. Skripsi. Fakultas Peternakan Universitas Hasanudin Makassar.
- Suryani, S.E. 2014. Pengaruh Pemberian Campuran Ubi Jalar Dan Ragi Tape Terhadap Karakteristik Fisik Dan Mikroflora Saluran Pencernaan Broiler Pada Periode Yang Berbeda. Skripsi. Ilmu Nutrisi Dan Teknologi Pakan Fakultas Peternakan Institut Pertanian Bogor.
- Suthama, N., dan S.M. Ardiningsasi. 2012. Perkembangan fungsi fisiologis saluran pencernaan ayam kedu periode starter. Fakultas Peternakan, Universitas Diponegoro Kampus Tembalang Semarang.
- Swick, R.A. 1999. Water Quality and Management for Poultry. American Soybean Association, Singapore.
- Syamsuryadi, B., dan Khaeruddin. 2018. Morfometrik usus halus puyuh pedaging dengan berat badan awal dan waktu pemuasaan yang berbeda setelah menetas. Jurnal Agrominansia. 3(1) : 41-48.
- Tabun, A.C., dan Ndoen, B. 2016. Performan pertumbuhan awal ayam buras pada fase starter yang diberi ransum komersil ayam broiler. Jurnal Partner (2) : 83 – 87.
- Tako, E., P. R. Ferket, and Z. Uni. 2005. Change in chicken intestinal zinc exporter mRNA expression and small intestinal function following intra amniotic zincmethionine administration. The Journal of nutritional biochemistry, 16:339-346.
- Tambunan, R.D., dan M. Silalahi. 2008. Teknologi Budidaya Ayam Buras. Balai Besar Pengkajian dan Pengembangan Teknologi Pertanian.

- Tillman, A. D., H. Hartadi, S. Reksohadiprojo, S. Prawirokusumo, dan S. Lehdosoekojo. 1991. Ilmu Makanan Ternak Dasar. Universitas Gajah Mada Press, Yogyakarta.
- Tyasningsih, W., Ratih, R., Erni, R.S.I., Suryanie., Hasutji, E.N., Sri, C., dan Didik, H. 2010. Buku Ajar Penyakit Infeksius I. Airlangga University Press: Surabaya.
- Uni, Z., dan P. R. Ferket. 2004. Methods for early nutrition and their potential. *World's J. Poult. Sci.* 60:101-111.
- Uni, Z., P.R. Ferket, E. Tako and O. Kedar. 2005. In ovo feeding improves energy status of late-term chicken embryos. *Poult. Sci.* 84 : 764-770.
- Usman. 2009. Pertumbuhan ayam buras periode grower melalui pemberian tepung biji buah merah (*Pandanus conoideus* LAMK) sebagai pakan alternatif. Makalah disampaikan pada Seminar Nasional Teknologi Peternakan dan Veteriner, Bogor 13-14 Agustus 2009. Balai Pengkajian Teknologi Pertanian Papua, Jayapura.
- Usman, A.N.R. 2010. Pertumbuhan Ayam Broiler (Melalui Sistem Pencernaannya) yang Diberi Pakan Nabati dan Komersial dengan Penambahan Dysapro. Skripsi. Departemen Ilmu Produksi Dan Teknologi Peternakan Fakultas Peternakan Institut Pertanian Bogor.
- Wahju, J. 2004. Ilmu Nutrisi Unggas. Edisi kelima. Gadjah Mada Press, Yogyakarta.
- Wahyu, J. 1992. Ilmu nutrisi unggas. Gadjah Mada University Press. Yogyakarta.
- Wandono, Y.T., B. Brata, dan H. Prakoso. 2013. Persentase organ dalam dan deposisi lemak broiler yang diberi pakan tambahan tepung kelopak bunga rosella (*Hibiscus sabdariffa* linn). *Jurnal Sain Peternakan Indonesia* 8(1) : 32-40.
- Wang, X., Y. Z. Farnell, E. D. Peebles, A. S. Kiess, K. G. S. Wamsley and W. Zhai. 2016. Effects of prebiotics, probiotics, and their combination on growth performance, small intestine morphology, and resident *Lactobacillus* of male broilers. *Poultry Science* 95: 1332 – 1340.
- Wardhani, W. 2011. Persentase Karkas dan Karakteristik Organ Dalam Ayam Broiler Hasil Penambahan Zeolit dalam Ransum dan Litternya. Skripsi.

Departemen Ilmu Produksi Dan Teknologi Peternakan Fakultas Peternakan Institut Peternakan Bogor.

- Widanarni, J.I. Noermala, dan Sukenda. 2014. Prebiotik, probiotik, dan sinbiotik untuk mengendalikan koinfeksi *Vibrio harveyi* dan IMNV pada udang vaname. *Jurnal Akuakultur Indonesia* 13 (1) : 11-20.
- Winarsih, W. 2005. Pengaruh probiotik dalam pengendalian *Salmonellosis* subklinis pada ayam : Gambaran patologis dan performan. Disertasi. Pascasarjana IPB, Bogor.
- Yang CM, Cao GT, Ferket PR, Liu TT, Zhou L, Zhang L, Xiao YP, and Chen AG. 2012. Effects of probiotic, *Clostridium butyricum*, on growth performance, immune function, and caecal microflora in broiler chickens. *Poultry Science*. 91(1): 2121–2129.
- Yegani M, Korver DR. 2008. Riview factors affecting intestinal health in poultry. *Poultry Science*. 87 (1): 2052-2063.
- Yulinery, T., E. Yulianto, dan N. Nurhidayat. 2006. Uji fisiologis probiotik *Lactobacillus* sp. Mar 8 yang telah dienkapsulasi dengan menggunakan spray dryer untuk menurunkan kolesterol. *Jurnal Biodiversitas* 7(2) : 118-122.
- Yusdja, Y., R. Sajuti, W.K. Sejati, I.S. Anugrah, I. Sadikin, dan B. Winarso. 2005. Pengembangan Model Kelembagaan Agribisnis Ternak Unggas Tradisional (Ayam Buras, Itik, Puyuh). Laporan Akhir. Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian Badan Penelitian dan Pengembangan Pertanian Departemen Pertanian.
- Zahra, T. 1996. Pengaruh Tinggk Penggunaan Protein dan Kepadatan Kandang Terhadap Performans Ayam Ras Petelur pada Fase Produksi. Skripsi Fakultas Peternakan Universitas Andalas. Padang.
- Zainuddin, D. Masyitha, Fitriani, F. Muharrami, S. Wahyuni, Roslizawaty, dan M. Adam. 2015. *Jurnal Medika Veterinaria*. 9(1) : 68-70.
- Zairiful, A. Sofiana, dan K. Maghfiroh. 2018. Pengaruh penggunaan sinbiotik bakteri asam laktat dan daun cincau terhadap performa broiler. *Prosiding Seminar Nasional Pengembangan Teknologi Pertanian ISBN 978-602-5730-68-9* :396-400.

Zulfanita., R.M. Eny, dan D.P. Utami. 2016. Pembatasan ransum berpengaruh terhadap pertambahan bobot badan ayam broiler pada periode pertumbuhan. *Jurnal Mediagro* 7 (1): 59-67.

LAMPIRAN

Lampiran 1. Hasil Analisis Ragam Konsumsi Pakan

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Konsumsi Pakan

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	30.0700	.	1
		Ulangan 2	29.2800	.	1
		Ulangan 3	37.3000	.	1
		Total	32.2167	4.41998	3
	S2 = Syn	Ulangan 1	30.2500	.	1
		Ulangan 2	32.1400	.	1
		Ulangan 3	33.6600	.	1
		Total	32.0167	1.70834	3
	Total	Ulangan 1	30.1600	.12728	2
		Ulangan 2	30.7100	2.02233	2
		Ulangan 3	35.4800	2.57387	2
		Total	32.1167	2.99898	6
P2 = IOF	S1 = Non Syn	Ulangan 1	30.0700	.	1
		Ulangan 2	29.2800	.	1
		Ulangan 3	37.3000	.	1
		Total	32.2167	4.41998	3

S2 = Syn	Ulangan 1	30.2500	.	1	
	Ulangan 2	32.1400	.	1	
	Ulangan 3	33.6600	.	1	
	Total	32.0167	1.70834	3	
Total	Ulangan 1	30.1600	.12728	2	
	Ulangan 2	30.7100	2.02233	2	
	Ulangan 3	35.4800	2.57387	2	
	Total	32.1167	2.99898	6	
Total	S1 = Non Syn	Ulangan 1	30.0700	.00000	2
		Ulangan 2	29.2800	.00000	2
		Ulangan 3	37.3000	.00000	2
		Total	32.2167	3.95335	6
S2 = Syn	Ulangan 1	30.2500	.00000	2	
	Ulangan 2	32.1400	.00000	2	
	Ulangan 3	33.6600	.00000	2	
	Total	32.0167	1.52799	6	
Total	Ulangan 1	30.1600	.10392	4	
	Ulangan 2	30.7100	1.65122	4	
	Ulangan 3	35.4800	2.10155	4	
	Total	32.1167	2.85941	12	

Levene's Test of Equality of Error Variances^a

Dependent Variable: Konsumsi Pakan

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Konsumsi Pakan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	68.597 ^a	5	13.719	3.857	.065
Intercept	12377.763	1	12377.763	3.480E3	.000
Ulangan	68.477	2	34.239	9.626	.013
PerlakuanP	.000	1	.000	.000	1.000
PerlakuanS	.120	1	.120	.034	.860
PerlakuanP * PerlakuanS	.000	1	.000	.000	1.000
Error	21.342	6	3.557		
Total	12467.702	12			
Corrected Total	89.939	11			

a. R Squared = .763 (Adjusted R Squared = .565)

Grand Mean

Dependent Variable:Konsumsi Pakan

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
32.117	.544	30.784	33.449

Lampiran 2. Hasil Analisis Ragam Konsumsi Air Minum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Konsumsi Minum

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N	
P1 = Non IOF	S1 = Non Syn	Ulangan 1	1.0993E2	.	1	
		Ulangan 2	78.3900	.	1	
		Ulangan 3	1.0156E2	.	1	
		Total	96.6267	16.33849	3	
	S2 = Syn	Ulangan 1	97.2100	.	1	
		Ulangan 2	84.3000	.	1	
		Ulangan 3	91.2200	.	1	
		Total	90.9100	6.46058	3	
	Total	Ulangan 1	1.0357E2	8.99440		2
		Ulangan 2	81.3450	4.17900		2
		Ulangan 3	96.3900	7.31148		2
		Total	93.7683	11.54462		6
P2 = IOF	S1 = Non Syn	Ulangan 1	1.0993E2	.	1	
		Ulangan 2	78.3900	.	1	
		Ulangan 3	1.0156E2	.	1	
		Total	96.6267	16.33849	3	
	S2 = Syn	Ulangan 1	97.2100	.	1	
		Ulangan 2	84.3000	.	1	

		Ulangan 3	91.2200	.	1
		Total	90.9100	6.46058	3
Total		Ulangan 1	1.0357E2	8.99440	2
		Ulangan 2	81.3450	4.17900	2
		Ulangan 3	96.3900	7.31148	2
		Total	93.7683	11.54462	6
Total	S1 = Non Syn	Ulangan 1	1.0993E2	.00000	2
		Ulangan 2	78.3900	.00000	2
		Ulangan 3	1.0156E2	.00000	2
		Total	96.6267	14.61359	6
	S2 = Syn	Ulangan 1	97.2100	.00000	2
		Ulangan 2	84.3000	.00000	2
		Ulangan 3	91.2200	.00000	2
		Total	90.9100	5.77852	6
Total		Ulangan 1	1.0357E2	7.34390	4
		Ulangan 2	81.3450	3.41214	4
		Ulangan 3	96.3900	5.96980	4
		Total	93.7683	11.00736	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Konsumsi Minum

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Konsumsi Minum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1127.181 ^a	5	225.436	6.579	.020
Intercept	105510.004	1	105510.004	3.079E3	.000
Ulangan	1029.140	2	514.570	15.017	.005
PerlakuanP	.000	1	.000	.000	1.000
PerlakuanS	98.041	1	98.041	2.861	.142
PerlakuanP * PerlakuanS	.000	1	.000	.000	1.000
Error	205.601	6	34.267		
Total	106842.786	12			
Corrected Total	1332.782	11			

a. R Squared = .846 (Adjusted R Squared = .717)

Grand Mean

Dependent Variable:Konsumsi Minum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
93.768	1.690	89.633	97.903

Lampiran 3. Hasil Analisis Ragam Konversi Pakan

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable:FCR

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	4.0100	.	1
		Ulangan 2	2.4600	.	1
		Ulangan 3	5.8300	.	1
		Total	4.1000	1.68680	3
	S2 = Syn	Ulangan 1	3.9700	.	1
		Ulangan 2	2.8400	.	1
		Ulangan 3	5.2700	.	1
		Total	4.0267	1.21599	3
	Total	Ulangan 1	3.9900	.02828	2
		Ulangan 2	2.6500	.26870	2
		Ulangan 3	5.5500	.39598	2
		Total	4.0633	1.31575	6
P2 = IOF	S1 = Non Syn	Ulangan 1	4.1400	.	1
		Ulangan 2	2.5900	.	1
		Ulangan 3	6.0200	.	1
	Total	4.2500	1.71764	3	
	S2 = Syn	Ulangan 1	4.0000	.	1
		Ulangan 2	2.5200	.	1

		Ulangan 3	5.2400	.	1
		Total	3.9200	1.36176	3
Total		Ulangan 1	4.0700	.09899	2
		Ulangan 2	2.5550	.04950	2
		Ulangan 3	5.6300	.55154	2
		Total	4.0850	1.39805	6
Total	S1 = Non Syn	Ulangan 1	4.0750	.09192	2
		Ulangan 2	2.5250	.09192	2
		Ulangan 3	5.9250	.13435	2
		Total	4.1750	1.52479	6
	S2 = Syn	Ulangan 1	3.9850	.02121	2
		Ulangan 2	2.6800	.22627	2
		Ulangan 3	5.2550	.02121	2
		Total	3.9733	1.15613	6
Total		Ulangan 1	4.0300	.07528	4
		Ulangan 2	2.6025	.16701	4
		Ulangan 3	5.5900	.39472	4
		Total	4.0742	1.29440	12

Levene's Test of Equality of Error Variances^a

Dependent Variable:FCR

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:FCR

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	18.035 ^a	5	3.607	54.755	.000
Intercept	199.186	1	199.186	3.024E3	.000
Ulangan	17.862	2	8.931	135.575	.000
PerlakuanP	.001	1	.001	.021	.889
PerlakuanS	.122	1	.122	1.852	.222
PerlakuanP * PerlakuanS	.049	1	.049	.750	.420
Error	.395	6	.066		
Total	217.616	12			
Corrected Total	18.430	11			

a. R Squared = .979 (Adjusted R Squared = .961)

Grand Mean

Dependent Variable:FCR

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
4.074	.074	3.893	4.255

Lampiran 4. Hasil Analisis Ragam BB Akhir

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable:BB

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	5.0667E2	.	1
		Ulangan 2	3.3125E2	.	1
		Ulangan 3	3.9000E2	.	1
		Total	4.0931E2	89.28944	3
	S2 = Syn	Ulangan 1	5.2167E2	.	1
		Ulangan 2	3.2800E2	.	1
		Ulangan 3	3.9214E2	.	1
		Total	4.1394E2	98.65768	3
	Total	Ulangan 1	5.1417E2	10.60660	2
		Ulangan 2	3.2962E2	2.29810	2
		Ulangan 3	3.9107E2	1.51321	2
		Total	4.1162E2	84.19506	6
P2 = IOF	S1 = Non Syn	Ulangan 1	5.0500E2	.	1
		Ulangan 2	3.1429E2	.	1
		Ulangan 3	3.8000E2	.	1
		Total	3.9976E2	96.87888	3
	S2 = Syn	Ulangan 1	5.1286E2	.	1
		Ulangan 2	3.5300E2	.	1

		Ulangan 3	3.9500E2	.	1
		Total	4.2029E2	82.87561	3
Total		Ulangan 1	5.0893E2	5.55786	2
		Ulangan 2	3.3364E2	27.37210	2
		Ulangan 3	3.8750E2	10.60660	2
		Total	4.1003E2	81.41201	6
Total	S1 = Non Syn	Ulangan 1	5.0584E2	1.18087	2
		Ulangan 2	3.2277E2	11.99253	2
		Ulangan 3	3.8500E2	7.07107	2
		Total	4.0454E2	83.48995	6
	S2 = Syn	Ulangan 1	5.1726E2	6.22961	2
		Ulangan 2	3.4050E2	17.67767	2
		Ulangan 3	3.9357E2	2.02233	2
		Total	4.1711E2	81.56457	6
Total		Ulangan 1	5.1155E2	7.54646	4
		Ulangan 2	3.3164E2	16.02783	4
		Ulangan 3	3.8928E2	6.52009	4
		Total	4.1082E2	78.96562	12

Levene's Test of Equality of Error Variances^a

Dependent Variable:BB

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:BB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	68193.827 ^a	5	13638.765	205.898	.000
Intercept	2025309.735	1	2025309.735	3.058E4	.000
Ulangan	67522.213	2	33761.107	509.676	.000
PerlakuanP	7.648	1	7.648	.115	.746
PerlakuanS	474.518	1	474.518	7.164	.037
PerlakuanP * PerlakuanS	189.449	1	189.449	2.860	.142
Error	397.442	6	66.240		
Total	2093901.004	12			
Corrected Total	68591.269	11			

a. R Squared = .994 (Adjusted R Squared = .989)

Grand Mean

Dependent Variable:BB

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
410.823	2.349	405.074	416.572

Uji Lanjut (Uji Duncan)

$$sd = \sqrt{\frac{KTG}{r}}$$

$$= 3.322649545$$

Tabel duncan 5%	2
	3.46
DMRT	11.49637

perlakuan syn	rata-rata	rata-rata DMRT	simbol
S1	398.49	409.9863674	a
S2	416.34	427.8363674	b

Lampiran 5. Hasil Analisis Ragam PBB

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: PBB

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	4.7580E2	.	1
		Ulangan 2	2.9888E2	.	1
		Ulangan 3	3.5957E2	.	1
		Total	3.7808E2	89.90122	3
	S2 = Syn	Ulangan 1	4.9286E2	.	1
		Ulangan 2	2.9576E2	.	1
		Ulangan 3	3.6321E2	.	1
		Total	3.8394E2	100.17238	3
	Total	Ulangan 1	4.8433E2	12.06324	2
		Ulangan 2	2.9732E2	2.20617	2
		Ulangan 3	3.6139E2	2.57387	2
		Total	3.8101E2	85.18800	6
P2 = IOF	S1 = Non Syn	Ulangan 1	4.7107E2	.	1
		Ulangan 2	2.8334E2	.	1
		Ulangan 3	3.4956E2	.	1
		Total	3.6799E2	95.21233	3
	S2 = Syn	Ulangan 1	4.8142E2	.	1
		Ulangan 2	3.2000E2	.	1

		Ulangan 3	3.6492E2	.	1
		Total	3.8878E2	83.31314	3
Total		Ulangan 1	4.7624E2	7.31856	2
		Ulangan 2	3.0167E2	25.92253	2
		Ulangan 3	3.5724E2	10.86116	2
		Total	3.7839E2	80.82236	6
Total	S1 = Non Syn	Ulangan 1	4.7344E2	3.34462	2
		Ulangan 2	2.9111E2	10.98844	2
		Ulangan 3	3.5456E2	7.07814	2
		Total	3.7304E2	83.00367	6
	S2 = Syn	Ulangan 1	4.8714E2	8.08930	2
		Ulangan 2	3.0788E2	17.14027	2
		Ulangan 3	3.6406E2	1.20915	2
		Total	3.8636E2	82.44545	6
Total		Ulangan 1	4.8029E2	9.38883	4
		Ulangan 2	2.9950E2	15.22900	4
		Ulangan 3	3.5932E2	6.87537	4
		Total	3.7970E2	79.18159	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: PBB

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:PBB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	68585.512 ^a	5	13717.102	215.757	.000
Intercept	1730057.486	1	1730057.486	2.721E4	.000
Ulangan	67864.942	2	33932.471	533.725	.000
PerlakuanP	20.724	1	20.724	.326	.589
PerlakuanS	532.667	1	532.667	8.378	.028
PerlakuanP * PerlakuanS	167.179	1	167.179	2.630	.156
Error	381.460	6	63.577		
Total	1799024.458	12			
Corrected Total	68966.971	11			

a. R Squared = .994 (Adjusted R Squared = .990)

Grand Mean

Dependent Variable:PBB

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
379.699	2.302	374.067	385.331

Uji Lanjut (Uji Duncan)

$$sd = \sqrt{\frac{KTG}{r}}$$

$$= 3.255175366$$

Tabel duncan 5%	2
	3.46
DMRT	11.2629068

perlakuan syn	rata- rata	rata-rata DMRT	simbol
S1	366.94	378.2029068	a
S2	385.49	396.7529068	b

Lampiran 6. Hasil Analisis Ragam Berat Duodenum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	5
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	5
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	3

Descriptive Statistics

Dependent Variable:Berat Duodenum

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.9300	.	1
		Ulangan 2	1.6800	.	1
		Ulangan 3	2.4000	.	1
		Total	1.6700	.73505	3
	S2 = Syn	Ulangan 1	1.7200	.	1
		Ulangan 2	1.7000	.	1
		Ulangan 3	2.2200	.	1
		Total	1.8800	.29462	3
	Total	Ulangan 1	1.3250	.55861	2
		Ulangan 2	1.6900	.01414	2
		Ulangan 3	2.3100	.12728	2
		Total	1.7750	.51388	6
P2 = IOF	S1 = Non Syn	Ulangan 1	1.4800	.	1
		Ulangan 2	2.0100	.	1
		Ulangan 3	1.9800	.	1
		Total	1.8233	.29771	3
	S2 = Syn	Ulangan 1	1.4100	.	1
		Ulangan 2	1.5000	.	1

		Total	1.4550	.06364	2
	Total	Ulangan 1	1.4450	.04950	2
		Ulangan 2	1.7550	.36062	2
		Ulangan 3	1.9800	.	1
		Total	1.6760	.29331	5
Total	S1 = Non Syn	Ulangan 1	1.2050	.38891	2
		Ulangan 2	1.8450	.23335	2
		Ulangan 3	2.1900	.29698	2
		Total	1.7467	.50855	6
	S2 = Syn	Ulangan 1	1.5650	.21920	2
		Ulangan 2	1.6000	.14142	2
		Ulangan 3	2.2200	.	1
		Total	1.7100	.31401	5
	Total	Ulangan 1	1.3850	.33111	4
		Ulangan 2	1.7225	.21172	4
		Ulangan 3	2.2000	.21071	3
		Total	1.7300	.41124	11

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Duodenum

F	df1	df2	Sig.
.	10	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Duodenum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.236 ^a	5	.247	2.714	.149
Intercept	31.796	1	31.796	349.136	.000
Ulangan	.980	2	.490	5.381	.057
PerlakuanP	.003	1	.003	.032	.865
PerlakuanS	.001	1	.001	.015	.907
PerlakuanP * PerlakuanS	.090	1	.090	.987	.366
Error	.455	5	.091		
Total	34.613	11			
Corrected Total	1.691	10			

a. R Squared = .731 (Adjusted R Squared = .462)

Grand Mean

Dependent Variable:Berat Duodenum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
1.758	.094	1.516	2.000

Lampiran 7. Hasil Analisis Ragam Berat Jejenum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Jejenum

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	1.9400	.	1
		Ulangan 2	1.9600	.	1
		Ulangan 3	2.1900	.	1
		Total	2.0300	.13892	3
	S2 = Syn	Ulangan 1	1.7300	.	1
		Ulangan 2	1.7700	.	1
		Ulangan 3	2.3400	.	1
		Total	1.9467	.34122	3
	Total	Ulangan 1	1.8350	.14849	2
		Ulangan 2	1.8650	.13435	2
		Ulangan 3	2.2650	.10607	2
		Total	1.9883	.23744	6
P2 = IOF	S1 = Non Syn	Ulangan 1	1.6600	.	1
		Ulangan 2	2.3800	.	1
		Ulangan 3	2.1900	.	1
		Total	2.0767	.37314	3
	S2 = Syn	Ulangan 1	1.8100	.	1
		Ulangan 2	1.7600	.	1

		Ulangan 3	2.0400	.	1
		Total	1.8700	.14933	3
Total		Ulangan 1	1.7350	.10607	2
		Ulangan 2	2.0700	.43841	2
		Ulangan 3	2.1150	.10607	2
		Total	1.9733	.27826	6
Total	S1 = Non Syn	Ulangan 1	1.8000	.19799	2
		Ulangan 2	2.1700	.29698	2
		Ulangan 3	2.1900	.00000	2
		Total	2.0533	.25311	6
	S2 = Syn	Ulangan 1	1.7700	.05657	2
		Ulangan 2	1.7650	.00707	2
		Ulangan 3	2.1900	.21213	2
		Total	1.9083	.23928	6
Total		Ulangan 1	1.7850	.12014	4
		Ulangan 2	1.9675	.28999	4
		Ulangan 3	2.1900	.12247	4
		Total	1.9808	.24674	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Jejenum

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Jejenum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.404 ^a	5	.081	1.828	.242
Intercept	47.084	1	47.084	1.064E3	.000
Ulangan	.329	2	.165	3.720	.089
PerlakuanP	.001	1	.001	.015	.906
PerlakuanS	.063	1	.063	1.426	.278
PerlakuanP * PerlakuanS	.011	1	.011	.258	.630
Error	.265	6	.044		
Total	47.754	12			
Corrected Total	.670	11			

a. R Squared = .604 (Adjusted R Squared = .273)

Grand Mean

Dependent Variable:Berat Jejenum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
1.981	.061	1.832	2.129

Lampiran 8. Hasil Analisis Ragam Berat Ileum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable:Berat Ileum

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.8900	.	1
		Ulangan 2	1.3700	.	1
		Ulangan 3	1.6800	.	1
		Total	1.3133	.39804	3
	S2 = Syn	Ulangan 1	1.0900	.	1
		Ulangan 2	1.2100	.	1
		Ulangan 3	1.5400	.	1
		Total	1.2800	.23302	3
	Total	Ulangan 1	.9900	.14142	2
		Ulangan 2	1.2900	.11314	2
		Ulangan 3	1.6100	.09899	2
		Total	1.2967	.29228	6
P2 = IOF	S1 = Non Syn	Ulangan 1	1.1700	.	1
		Ulangan 2	1.7900	.	1
		Ulangan 3	1.5700	.	1
		Total	1.5100	.31432	3
	S2 = Syn	Ulangan 1	1.2900	.	1
		Ulangan 2	1.1900	.	1

		Ulangan 3	1.8400	.	1
		Total	1.4400	.35000	3
Total		Ulangan 1	1.2300	.08485	2
		Ulangan 2	1.4900	.42426	2
		Ulangan 3	1.7050	.19092	2
		Total	1.4750	.29998	6
Total	S1 = Non Syn	Ulangan 1	1.0300	.19799	2
		Ulangan 2	1.5800	.29698	2
		Ulangan 3	1.6250	.07778	2
		Total	1.4117	.33837	6
	S2 = Syn	Ulangan 1	1.1900	.14142	2
		Ulangan 2	1.2000	.01414	2
		Ulangan 3	1.6900	.21213	2
		Total	1.3600	.28000	6
Total		Ulangan 1	1.1100	.16813	4
		Ulangan 2	1.3900	.27857	4
		Ulangan 3	1.6575	.13574	4
		Total	1.3858	.29734	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Ileum

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Ileum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.704 ^a	5	.141	3.147	.098
Intercept	23.046	1	23.046	515.099	.000
Ulangan	.600	2	.300	6.701	.030
PerlakuanP	.095	1	.095	2.132	.195
PerlakuanS	.008	1	.008	.179	.687
PerlakuanP * PerlakuanS	.001	1	.001	.023	.886
Error	.268	6	.045		
Total	24.019	12			
Corrected Total	.972	11			

a. R Squared = .724 (Adjusted R Squared = .494)

Grand Mean

Dependent Variable:Berat Ileum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
1.386	.061	1.236	1.535

Lampiran 9. Hasil Analisis Ragam Berat Usus Besar (*colon*)

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Colon

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.2400	.	1
		Ulangan 2	.2700	.	1
		Ulangan 3	.2600	.	1
		Total	.2567	.01528	3
	S2 = Syn	Ulangan 1	.2800	.	1
		Ulangan 2	.2600	.	1
		Ulangan 3	.5200	.	1
		Total	.3533	.14468	3
	Total	Ulangan 1	.2600	.02828	2
		Ulangan 2	.2650	.00707	2
		Ulangan 3	.3900	.18385	2
		Total	.3050	.10616	6
P2 = IOF	S1 = Non Syn	Ulangan 1	.1500	.	1
		Ulangan 2	.2400	.	1
		Ulangan 3	.2800	.	1
		Total	.2233	.06658	3
	S2 = Syn	Ulangan 1	.2200	.	1
		Ulangan 2	.1500	.	1

		Ulangan 3	.3000	.	1
		Total	.2233	.07506	3
Total		Ulangan 1	.1850	.04950	2
		Ulangan 2	.1950	.06364	2
		Ulangan 3	.2900	.01414	2
		Total	.2233	.06346	6
Total	S1 = Non Syn	Ulangan 1	.1950	.06364	2
		Ulangan 2	.2550	.02121	2
		Ulangan 3	.2700	.01414	2
		Total	.2400	.04690	6
	S2 = Syn	Ulangan 1	.2500	.04243	2
		Ulangan 2	.2050	.07778	2
		Ulangan 3	.4100	.15556	2
		Total	.2883	.12529	6
Total		Ulangan 1	.2225	.05439	4
		Ulangan 2	.2300	.05477	4
		Ulangan 3	.3400	.12111	4
		Total	.2642	.09366	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Colon

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Colon

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.069 ^a	5	.014	2.958	.110
Intercept	.837	1	.837	180.411	.000
Ulangan	.035	2	.017	3.729	.089
PerlakuanP	.020	1	.020	4.311	.083
PerlakuanS	.007	1	.007	1.510	.265
PerlakuanP * PerlakuanS	.007	1	.007	1.510	.265
Error	.028	6	.005		
Total	.934	12			
Corrected Total	.096	11			

a. R Squared = .711 (Adjusted R Squared = .471)

Grand Mean

Dependent Variable:Berat Colon

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
.264	.020	.216	.312

Lampiran 10. Hasil Analisis Ragam Berat Usus Buntu (*sekum*)

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Sekum

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.5300	.	1
		Ulangan 2	.8400	.	1
		Ulangan 3	.9100	.	1
		Total	.7600	.20224	3
	S2 = Syn	Ulangan 1	.8900	.	1
		Ulangan 2	.8600	.	1
		Ulangan 3	.9300	.	1
		Total	.8933	.03512	3
	Total	Ulangan 1	.7100	.25456	2
		Ulangan 2	.8500	.01414	2
		Ulangan 3	.9200	.01414	2
		Total	.8267	.14895	6
P2 = IOF	S1 = Non Syn	Ulangan 1	.7400	.	1
		Ulangan 2	.9100	.	1
		Ulangan 3	.9100	.	1
	Total	.8533	.09815	3	
	S2 = Syn	Ulangan 1	.7500	.	1
		Ulangan 2	.8300	.	1

		Ulangan 3	1.1700	.	1
		Total	.9167	.22301	3
Total		Ulangan 1	.7450	.00707	2
		Ulangan 2	.8700	.05657	2
		Ulangan 3	1.0400	.18385	2
		Total	.8850	.15796	6
Total	S1 = Non Syn	Ulangan 1	.6350	.14849	2
		Ulangan 2	.8750	.04950	2
		Ulangan 3	.9100	.00000	2
		Total	.8067	.15108	6
	S2 = Syn	Ulangan 1	.8200	.09899	2
		Ulangan 2	.8450	.02121	2
		Ulangan 3	1.0500	.16971	2
		Total	.9050	.14335	6
Total		Ulangan 1	.7275	.14841	4
		Ulangan 2	.8600	.03559	4
		Ulangan 3	.9800	.12702	4
		Total	.8558	.14951	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Sekum

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Sekum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.171 ^a	5	.034	2.714	.128
Intercept	8.789	1	8.789	699.577	.000
Ulangan	.128	2	.064	5.079	.051
PerlakuanP	.010	1	.010	.813	.402
PerlakuanS	.029	1	.029	2.309	.179
PerlakuanP * PerlakuanS	.004	1	.004	.293	.608
Error	.075	6	.013		
Total	9.035	12			
Corrected Total	.246	11			

a. R Squared = .693 (Adjusted R Squared = .438)

Grand Mean

Dependent Variable:Berat Sekum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
.856	.032	.777	.935

Lampiran 11. Hasil Analisis Ragam Berat Usus Keseluruhan

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Usus Keseluruhan

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	4.2600	.	1
		Ulangan 2	6.1200	.	1
		Ulangan 3	7.4300	.	1
		Total	5.9367	1.59293	3
	S2 = Syn	Ulangan 1	5.3000	.	1
		Ulangan 2	5.7900	.	1
		Ulangan 3	7.5500	.	1
		Total	6.2133	1.18323	3
	Total	Ulangan 1	4.7800	.73539	2
		Ulangan 2	5.9550	.23335	2
		Ulangan 3	7.4900	.08485	2
		Total	6.0750	1.26410	6
P2 = IOF	S1 = Non Syn	Ulangan 1	5.0000	.	1
		Ulangan 2	7.3300	.	1
		Ulangan 3	6.9200	.	1
		Total	6.4167	1.24388	3
	S2 = Syn	Ulangan 1	5.2500	.	1
		Ulangan 2	5.4100	.	1

		Ulangan 3	7.4800	.	1
		Total	6.0467	1.24388	3
Total		Ulangan 1	5.1250	.17678	2
		Ulangan 2	6.3700	1.35765	2
		Ulangan 3	7.2000	.39598	2
		Total	6.2317	1.13087	6
Total	S1 = Non Syn	Ulangan 1	4.6300	.52326	2
		Ulangan 2	6.7250	.85560	2
		Ulangan 3	7.1750	.36062	2
		Total	6.1767	1.30499	6
	S2 = Syn	Ulangan 1	5.2750	.03536	2
		Ulangan 2	5.6000	.26870	2
		Ulangan 3	7.5150	.04950	2
		Total	6.1300	1.08961	6
Total		Ulangan 1	4.9525	.47996	4
		Ulangan 2	6.1625	.83064	4
		Ulangan 3	7.3450	.28758	4
		Total	6.1533	1.14644	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Usus Keseluruhan

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Usus Keseluruhan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	11.842 ^a	5	2.368	5.434	.031
Intercept	454.362	1	454.362	1.042E3	.000
Ulangan	11.449	2	5.724	13.133	.006
PerlakuanP	.074	1	.074	.169	.695
PerlakuanS	.007	1	.007	.015	.907
PerlakuanP * PerlakuanS	.314	1	.314	.720	.429
Error	2.615	6	.436		
Total	468.820	12			
Corrected Total	14.458	11			

a. R Squared = .819 (Adjusted R Squared = .668)

Grand Mean

Dependent Variable:Berat Usus Keseluruhan

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
6.153	.191	5.687	6.620

Lampiran 12. Hasil Analisis Ragam Panjang Duodenum

Between-Subjects Factors

		Value Label	N
Fakotr IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6

Descriptive Statistics

Dependent Variable: Panjang Duodenum

Fakotr IOF	Faktor Syn	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	18.2733	3.43867	3
	S2 = Syn	19.8300	.80895	3
	Total	19.0517	2.39134	6
P2 = IOF	S1 = Non Syn	17.9633	.52003	3
	S2 = Syn	19.6033	3.47538	3
	Total	18.7833	2.39715	6
Total	S1 = Non Syn	18.1183	2.20608	6
	S2 = Syn	19.7167	2.26019	6
	Total	18.9175	2.28712	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Panjang Duodenum

F	df1	df2	Sig.
2.708	3	8	.116

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable: Panjang Duodenum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7.885 ^a	3	2.628	.423	.741
Intercept	4294.462	1	4294.462	691.888	.000
PerlakuanP	.216	1	.216	.035	.857
PerlakuanS	7.664	1	7.664	1.235	.299
PerlakuanP * PerlakuanS	.005	1	.005	.001	.978
Error	49.655	8	6.207		
Total	4352.002	12			
Corrected Total	57.540	11			

a. R Squared = .137 (Adjusted R Squared = -.187)

Grand Mean

Dependent Variable: Panjang Duodenum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
18.917	.719	17.259	20.576

Lampiran 13. Hasil Analisis Ragam Panjang Jejenum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6

Descriptive Statistics

Dependent Variable: Panjang Jejenum

Faktor IOF	Faktor Syn	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	34.5433	3.28810	3
	S2 = Syn	32.7033	1.07156	3
	Total	33.6233	2.40824	6
P2 = IOF	S1 = Non Syn	35.5467	2.03060	3
	S2 = Syn	33.0933	2.46328	3
	Total	34.3200	2.42530	6
Total	S1 = Non Syn	35.0450	2.50519	6
	S2 = Syn	32.8983	1.71231	6
	Total	33.9717	2.33286	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Panjang Jejenum

F	df1	df2	Sig.
1.732	3	8	.238

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable: Panjang Jejenum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	15.563 ^a	3	5.188	.937	.467
Intercept	13848.890	1	13848.890	2.501E3	.000
PerlakuanP	1.456	1	1.456	.263	.622
PerlakuanS	13.825	1	13.825	2.496	.153
PerlakuanP * PerlakuanS	.282	1	.282	.051	.827
Error	44.302	8	5.538		
Total	13908.754	12			
Corrected Total	59.865	11			

a. R Squared = .260 (Adjusted R Squared = -.018)

Grand Mean

Dependent Variable: Panjang Jejenum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
33.972	.679	32.405	35.538

Lampiran 14. Hasil Analisis Ragam Panjang Ileum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	5
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	5

Descriptive Statistics

Dependent Variable: Panjang Ileum

Faktor IOF	Faktor Syn	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	33.3600	.91657	3
	S2 = Syn	32.4833	.96231	3
	Total	32.9217	.96800	6
P2 = IOF	S1 = Non Syn	32.5333	1.68634	3
	S2 = Syn	34.1300	1.25865	2
	Total	33.1720	1.60708	5
Total	S1 = Non Syn	32.9467	1.29559	6
	S2 = Syn	33.1420	1.29326	5
	Total	33.0355	1.23235	11

Levene's Test of Equality of Error Variances^a

Dependent Variable: Panjang Ileum

F	df1	df2	Sig.
.868	3	7	.501

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable: Panjang Ileum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4.383 ^a	3	1.461	.947	.468
Intercept	11705.344	1	11705.344	7.584E3	.000
PerlakuanP	.448	1	.448	.290	.607
PerlakuanS	.346	1	.346	.224	.650
PerlakuanP * PerlakuanS	4.078	1	4.078	2.642	.148
Error	10.804	7	1.543		
Total	12019.941	11			
Corrected Total	15.187	10			

a. R Squared = .289 (Adjusted R Squared = -.016)

Grand Mean

Dependent Variable: Panjang Ileum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
33.127	.380	32.227	34.026

Lampiran 15. Hasil Analisis Ragam Panjang Sekum

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	5
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	5

Descriptive Statistics

Dependent Variable: Panjang Sekum

Faktor IOF	Faktor Syn	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	9.5033	.13577	3
	S2 = Syn	10.3233	1.23880	3
	Total	9.9133	.90716	6
P2 = IOF	S1 = Non Syn	9.8500	1.69231	3
	S2 = Syn	9.8750	.55861	2
	Total	9.8600	1.22888	5
Total	S1 = Non Syn	9.6767	1.09041	6
	S2 = Syn	10.1440	.95165	5
	Total	9.8891	1.00812	11

Levene's Test of Equality of Error Variances^a

Dependent Variable: Panjang Sekum

F	df1	df2	Sig.
5.186	3	7	.034

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable: Panjang Sekum

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.017 ^a	3	.339	.259	.852
Intercept	1042.890	1	1042.890	798.189	.000
PerlakuanP	.007	1	.007	.005	.944
PerlakuanS	.476	1	.476	.364	.565
PerlakuanP * PerlakuanS	.421	1	.421	.322	.588
Error	9.146	7	1.307		
Total	1085.898	11			
Corrected Total	10.163	10			

a. R Squared = .100 (Adjusted R Squared = -.286)

Grand Mean

Dependent Variable: Panjang Sekum

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
9.888	.350	9.060	10.716

Lampiran 16. Hasil Analisis Ragam Panjang Usus Besar

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	5
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	5

Descriptive Statistics

Dependent Variable:Panjang Colon

Faktor IOF	Faktor Syn	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	4.3233	.47120	3
	S2 = Syn	4.6600	.49325	3
	Total	4.4917	.46919	6
P2 = IOF	S1 = Non Syn	4.1100	.30790	3
	S2 = Syn	4.2400	.67882	2
	Total	4.1620	.40948	5
Total	S1 = Non Syn	4.2167	.37468	6
	S2 = Syn	4.4920	.53830	5
	Total	4.3418	.45473	11

Levene's Test of Equality of Error Variances^a

Dependent Variable:Panjang Colon

F	df1	df2	Sig.
1.232	3	7	.368

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Panjang Colon

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.487 ^a	3	.162	.718	.572
Intercept	200.296	1	200.296	886.790	.000
PerlakuanP	.267	1	.267	1.184	.313
PerlakuanS	.145	1	.145	.643	.449
PerlakuanP * PerlakuanS	.028	1	.028	.126	.733
Error	1.581	7	.226		
Total	209.433	11			
Corrected Total	2.068	10			

a. R Squared = .235 (Adjusted R Squared = -.092)

Grand Mean

Dependent Variable: Panjang Colon

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
4.333	.146	3.989	4.677

Lampiran 17. Hasil Analisis Ragam Total Panjang Usus

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6

Descriptive Statistics

Dependent Variable: Panjang Total Usus

Faktor IOF	Faktor Syn	Mean	Std. Deviation	N
1 = Non IOF	S1 = Non Syn	1.2473E2	5.28897	3
	S2 = Syn	1.2822E2	5.45111	3
	Total	1.2648E2	5.17003	6
P2 = IOF	S1 = Non Syn	1.3260E2	4.37864	3
	S2 = Syn	1.2715E2	1.82962	3
	Total	1.2988E2	4.23305	6
Total	S1 = Non Syn	1.2867E2	6.11749	6
	S2 = Syn	1.2769E2	3.68381	6
	Total	1.2818E2	4.84160	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Panjang Total Usus

F	df1	df2	Sig.
.865	3	8	.498

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable: Panjang Total Usus

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	97.436 ^a	3	32.479	1.620	.260
Intercept	197151.095	1	197151.095	9.832E3	.000
PerlakuanP	34.612	1	34.612	1.726	.225
PerlakuanS	2.881	1	2.881	.144	.715
PerlakuanP * PerlakuanS	59.943	1	59.943	2.989	.122
Error	160.416	8	20.052		
Total	197408.946	12			
Corrected Total	257.852	11			

a. R Squared = .378 (Adjusted R Squared = .145)

Grand Mean

Dependent Variable: Panjang Total Usus

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
128.177	1.293	125.196	131.158

Lampiran 18. Hasil Analisis Ragam Berat Jantung

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P1 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable:Berat Jantung

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.5300	.	1
		Ulangan 2	.5600	.	1
		Ulangan 3	.5600	.	1
		Total	.5500	.01732	3
	S2 = Syn	Ulangan 1	.5500	.	1
		Ulangan 2	.5800	.	1
		Ulangan 3	.6200	.	1
		Total	.5833	.03512	3
	Total	Ulangan 1	.5400	.01414	2
		Ulangan 2	.5700	.01414	2
		Ulangan 3	.5900	.04243	2
		Total	.5667	.03077	6
P1 = IOF	S1 = Non Syn	Ulangan 1	.4900	.	1
		Ulangan 2	.6500	.	1
		Ulangan 3	.5100	.	1
		Total	.5500	.08718	3
	S2 = Syn	Ulangan 1	.6300	.	1
		Ulangan 2	.5700	.	1

		Ulangan 3	.5500	.	1
		Total	.5833	.04163	3
	Total	Ulangan 1	.5600	.09899	2
		Ulangan 2	.6100	.05657	2
		Ulangan 3	.5300	.02828	2
		Total	.5667	.06377	6
Total	S1 = Non Syn	Ulangan 1	.5100	.02828	2
		Ulangan 2	.6050	.06364	2
		Ulangan 3	.5350	.03536	2
		Total	.5500	.05621	6
	S2 = Syn	Ulangan 1	.5900	.05657	2
		Ulangan 2	.5750	.00707	2
		Ulangan 3	.5850	.04950	2
		Total	.5833	.03445	6
	Total	Ulangan 1	.5500	.05888	4
		Ulangan 2	.5900	.04082	4
		Ulangan 3	.5600	.04546	4
		Total	.5667	.04774	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Jantung

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Jantung

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.007 ^a	5	.001	.447	.803
Intercept	3.853	1	3.853	1.266E3	.000
Ulangan	.003	2	.002	.569	.594
PerlakuanP	.000	1	.000	.000	1.000
PerlakuanS	.003	1	.003	1.095	.336
PerlakuanP * PerlakuanS	.000	1	.000	.000	1.000
Error	.018	6	.003		
Total	3.878	12			
Corrected Total	.025	11			

a. R Squared = .271 (Adjusted R Squared = -.336)

Grand Mean

Dependent Variable:Berat Jantung

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
.567	.016	.528	.606

Lampiran 19. Hasil Analisis Ragam Berat Hati

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Hati

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	2.2600	.	1
		Ulangan 2	3.5800	.	1
		Ulangan 3	3.2600	.	1
		Total	3.0333	.68857	3
	S2 = Syn	Ulangan 1	2.8000	.	1
		Ulangan 2	3.0300	.	1
		Ulangan 3	3.3000	.	1
		Total	3.0433	.25027	3
	Total	Ulangan 1	2.5300	.38184	2
		Ulangan 2	3.3050	.38891	2
		Ulangan 3	3.2800	.02828	2
		Total	3.0383	.46340	6
P2 = IOF	S1 = Non Syn	Ulangan 1	2.7400	.	1
		Ulangan 2	3.1300	.	1
		Ulangan 3	3.1500	.	1
		Total	3.0067	.23116	3
	S2 = Syn	Ulangan 1	2.5200	.	1
		Ulangan 2	3.1500	.	1
		Ulangan 3	3.1800	.	1

		Total	2.9500	.37269	3
	Total	Ulangan 1	2.6300	.15556	2
		Ulangan 2	3.1400	.01414	2
		Ulangan 3	3.1650	.02121	2
		Total	2.9783	.27910	6
Total	S1 = Non Syn	Ulangan 1	2.5000	.33941	2
		Ulangan 2	3.3550	.31820	2
		Ulangan 3	3.2050	.07778	2
		Total	3.0200	.45961	6
	S2 = Syn	Ulangan 1	2.6600	.19799	2
		Ulangan 2	3.0900	.08485	2
		Ulangan 3	3.2400	.08485	2
		Total	2.9967	.28849	6
	Total	Ulangan 1	2.5800	.24495	4
		Ulangan 2	3.2225	.24405	4
		Ulangan 3	3.2225	.06946	4
		Total	3.0083	.36606	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Hati

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Hati

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.117 ^a	5	.223	3.749	.069
Intercept	108.601	1	108.601	1.823E3	.000
Ulangan	1.101	2	.550	9.241	.015
PerlakuanP	.011	1	.011	.181	.685
PerlakuanS	.002	1	.002	.027	.874
PerlakuanP * PerlakuanS	.003	1	.003	.056	.821
Error	.357	6	.060		
Total	110.075	12			
Corrected Total	1.474	11			

a. R Squared = .758 (Adjusted R Squared = .555)

Grand Mean

Dependent Variable:Berat Hati

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
3.008	.070	2.836	3.181

Lampiran 20. Hasil Analisis Ragam Berat Gizzard

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Gizzard

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	2.1600	.	1
		Ulangan 2	3.2700	.	1
		Ulangan 3	3.0100	.	1
		Total	2.8133	.58055	3
	S2 = Syn	Ulangan 1	2.2500	.	1
		Ulangan 2	3.0100	.	1
		Ulangan 3	2.9400	.	1
		Total	2.7333	.42004	3
	Total	Ulangan 1	2.2050	.06364	2
		Ulangan 2	3.1400	.18385	2
		Ulangan 3	2.9750	.04950	2
		Total	2.7733	.45531	6
P2 = IOF	S1 = Non Syn	Ulangan 1	2.5800	.	1
		Ulangan 2	2.8800	.	1
		Ulangan 3	2.9300	.	1
		Total	2.7967	.18930	3
	S2 = Syn	Ulangan 1	2.3100	.	1
		Ulangan 2	2.5700	.	1

		Ulangan 3	2.6600	.	1
		Total	2.5133	.18175	3
	Total	Ulangan 1	2.4450	.19092	2
		Ulangan 2	2.7250	.21920	2
		Ulangan 3	2.7950	.19092	2
		Total	2.6550	.22722	6
Total	S1 = Non Syn	Ulangan 1	2.3700	.29698	2
		Ulangan 2	3.0750	.27577	2
		Ulangan 3	2.9700	.05657	2
		Total	2.8050	.38630	6
	S2 = Syn	Ulangan 1	2.2800	.04243	2
		Ulangan 2	2.7900	.31113	2
		Ulangan 3	2.8000	.19799	2
		Total	2.6233	.31354	6
	Total	Ulangan 1	2.3250	.18083	4
		Ulangan 2	2.9325	.29102	4
		Ulangan 3	2.8850	.15416	4
		Total	2.7142	.34859	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Gizzard

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Gizzard

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.085 ^a	5	.217	5.179	.035
Intercept	88.400	1	88.400	2.109E3	.000
Ulangan	.913	2	.457	10.895	.010
PerlakuanP	.042	1	.042	1.002	.355
PerlakuanS	.099	1	.099	2.362	.175
PerlakuanP * PerlakuanS	.031	1	.031	.740	.423
Error	.251	6	.042		
Total	89.737	12			
Corrected Total	1.337	11			

a. R Squared = .812 (Adjusted R Squared = .655)

Grand Mean

Dependent Variable:Berat Gizzard

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
2.714	.059	2.570	2.859

Lampiran 21. Hasil Analisis Ragam Berat Tembolok

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Tembolok

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.5600	.	1
		Ulangan 2	.8900	.	1
		Ulangan 3	.5800	.	1
		Total	.6767	.18502	3
	S2 = Syn	Ulangan 1	.4900	.	1
		Ulangan 2	.8400	.	1
		Ulangan 3	.6000	.	1
		Total	.6433	.17898	3
	Total	Ulangan 1	.5250	.04950	2
		Ulangan 2	.8650	.03536	2
		Ulangan 3	.5900	.01414	2
		Total	.6600	.16383	6
P2 = IOF	S1 = Non Syn	Ulangan 1	.5100	.	1
		Ulangan 2	.8000	.	1
		Ulangan 3	.4000	.	1
		Total	.5700	.20664	3
	S2 = Syn	Ulangan 1	.5700	.	1
		Ulangan 2	.8400	.	1

		Ulangan 3	.5800	.	1
		Total	.6633	.15308	3
	Total	Ulangan 1	.5400	.04243	2
		Ulangan 2	.8200	.02828	2
		Ulangan 3	.4900	.12728	2
		Total	.6167	.17049	6
Total	S1 = Non Syn	Ulangan 1	.5350	.03536	2
		Ulangan 2	.8450	.06364	2
		Ulangan 3	.4900	.12728	2
		Total	.6233	.18490	6
	S2 = Syn	Ulangan 1	.5300	.05657	2
		Ulangan 2	.8400	.00000	2
		Ulangan 3	.5900	.01414	2
		Total	.6533	.14935	6
	Total	Ulangan 1	.5325	.03862	4
		Ulangan 2	.8425	.03686	4
		Ulangan 3	.5400	.09381	4
		Total	.6383	.16101	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Tembok

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Tembokok

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.271 ^a	5	.054	22.265	.001
Intercept	4.890	1	4.890	2.012E3	.000
Ulangan	.250	2	.125	51.473	.000
PerlakuanP	.006	1	.006	2.318	.179
PerlakuanS	.003	1	.003	1.111	.332
PerlakuanP * PerlakuanS	.012	1	.012	4.951	.068
Error	.015	6	.002		
Total	5.175	12			
Corrected Total	.285	11			

a. R Squared = .949 (Adjusted R Squared = .906)

Grand Mean

Dependent Variable:Berat Tembokok

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
.638	.014	.604	.673

Lampiran 22. Hasil Analisis Ragam Berat Proventikulus

Between-Subjects Factors

		Value Label	N
Faktor IOF	1	P1 = Non IOF	6
	2	P2 = IOF	6
Faktor Syn	1	S1 = Non Syn	6
	2	S2 = Syn	6
Ulangan	1	Ulangan 1	4
	2	Ulangan 2	4
	3	Ulangan 3	4

Descriptive Statistics

Dependent Variable: Berat Proven

Faktor IOF	Faktor Syn	Ulangan	Mean	Std. Deviation	N
P1 = Non IOF	S1 = Non Syn	Ulangan 1	.5600	.	1
		Ulangan 2	.6600	.	1
		Ulangan 3	.7500	.	1
		Total	.6567	.09504	3
	S2 = Syn	Ulangan 1	.6500	.	1
		Ulangan 2	.6800	.	1
		Ulangan 3	.7600	.	1
		Total	.6967	.05686	3
	Total	Ulangan 1	.6050	.06364	2
		Ulangan 2	.6700	.01414	2
		Ulangan 3	.7550	.00707	2
		Total	.6767	.07339	6
P2 = IOF	S1 = Non Syn	Ulangan 1	.5700	.	1
		Ulangan 2	.6300	.	1
		Ulangan 3	.7100	.	1
		Total	.6367	.07024	3
	S2 = Syn	Ulangan 1	.5800	.	1
		Ulangan 2	.6700	.	1

		Ulangan 3	.6000	.	1
		Total	.6167	.04726	3
	Total	Ulangan 1	.5750	.00707	2
		Ulangan 2	.6500	.02828	2
		Ulangan 3	.6550	.07778	2
		Total	.6267	.05465	6
Total	S1 = Non Syn	Ulangan 1	.5650	.00707	2
		Ulangan 2	.6450	.02121	2
		Ulangan 3	.7300	.02828	2
		Total	.6467	.07554	6
	S2 = Syn	Ulangan 1	.6150	.04950	2
		Ulangan 2	.6750	.00707	2
		Ulangan 3	.6800	.11314	2
		Total	.6567	.06408	6
	Total	Ulangan 1	.5900	.04082	4
		Ulangan 2	.6600	.02160	4
		Ulangan 3	.7050	.07326	4
		Total	.6517	.06699	12

Levene's Test of Equality of Error Variances^a

Dependent Variable: Berat Proven

F	df1	df2	Sig.
.	11	0	.

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Ulangan + PerlakuanP + PerlakuanS + PerlakuanP * PerlakuanS

Tests of Between-Subjects Effects

Dependent Variable:Berat Proven

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.037 ^a	5	.007	3.737	.070
Intercept	5.096	1	5.096	2.548E3	.000
Ulangan	.027	2	.013	6.717	.029
PerlakuanP	.008	1	.008	3.750	.101
PerlakuanS	.000	1	.000	.150	.712
PerlakuanP * PerlakuanS	.003	1	.003	1.350	.289
Error	.012	6	.002		
Total	5.145	12			
Corrected Total	.049	11			

a. R Squared = .757 (Adjusted R Squared = .554)

Grand Mean

Dependent Variable:Berat Proven

Mean	Std. Error	95% Confidence Interval	
		Lower Bound	Upper Bound
.652	.013	.620	.683

Lampiran 23. Dokumentasi Kegiatan Penelitian



Pemberian kode pada telur



Peneropongan telur di hari ke-7 inkubasi



Penyuntikan larutan NaCl-Fruktosa



Pemberian lubang pada telur



Pemberian kode pada ayam yang telah menetas



Penyembelihan ayam pada umur 8 minggu



Proses pembedahan ayam kampung umur 8 minggu



Pengambilan sistem pencernaan dan organ aksesoris ayam kampung



Penimbangan salah satu organ aksesoris ayam kampung (hati)



Penimbangan salah satu bagian sistem pencernaan ayam kampung (jejenum)

RIWAYAT HIDUP



Eka Azhariyanti lahir pada tanggal 23 Desember 1997 di Watampone, Kabupaten Bone Provinsi Sulawesi Selatan. Penulis merupakan anak tunggal dari pasangan Bapak Baharuddin, S.Pd., M.Pd. dan Ibu Asmiati AS. Pendidikan formal yang telah ditempuh oleh penulis yakni : TK Kartika Wirabuana Lappariaja Tahun 2003 - 2004, SD Negeri Panciro Tahun 2004 - 2010, SMP Negeri 4 Sungguminasa Tahun 2010 - 2013, SMA Negeri 1 Galesong Utara Tahun 2013 - 2016, dan tahun 2016 – 2020 penulis melanjutkan pendidikannya di Fakultas Peternakan program Studi Peternakan Universitas Hasanuddin (UNHAS) Makassar. Selama menjadi mahasiswa penulis aktif sebagai pengurus organisasi Himpunan Mahasiswa Produksi Ternak Universitas Hasanuddin (HIMAPROTEK-UH) periode 2018 - 2019. Penulis juga aktif sebagai asisten pada mata kuliah Ilmu Reproduksi Ternak (2018 - 2019).