

BAB 5

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Setelah dilakukan penelitian dan analisis data sehingga dapat disimpulkan bahwa :

1. Senyawa uji dengan dosis 27 mg/200gBB menunjukkan terjadi peningkatan pada kelompok satelit parameter MCV bila dibandingkan dengan kelompok kontrol positif.
2. Senyawa uji dengan dosis 18 mg dan 27 mg/200gBB menunjukkan terjadi penurunan pada kelompok satelit parameter MCHC bila dibandingkan dengan kontrol positif.
3. Senyawa uji dengan dosis 18 mg dan 27 mg/200gBB menunjukkan peningkatan pada kelompok satelit parameter kreatinin bila dibandingkan dengan kelompok kontrol positif.

5.2. Saran

Perlu dilakukan penelitian lanjutan pemeriksaan histopatologi dan indeks organ hewan uji terutama pada organ lambung dan ginjal untuk melihat efek samping yang ditimbulkan dari pemakaian senyawa asam 2-(4-(klorometil)benzoiloksi)benzoat untuk melengkapi data uji toksisitas subkronis yang mengacu pada OECD 407.

DAFTAR PUSTAKA

- Abramson, N., and Melton, B., 2000, Leukocytosis: Basics of clinical assessment. *Am. Fam. Phys.*, **62(20)**:2053–2060.
- Animal Care Program. 2017, ‘Animal Specific Training: Rats’, University of Wisconsin-Milwaukee. Diakses pada 30 Oktober 2017, <http://uwm.edu/animal-care/training/manual/rats/>.
- Aronson, J.K., 2016. Analgesics and anti-inflammatory drugs in: *Meyler's side effects of drugs*. Elsevier, New York.
- Balbaloglu, O., Korkmaz, M., Yolcu, S., Karaaslan, F. and Beceren, N.G.C., 2014. Evaluation of mean platelet volume (MPV) levels in patients with synovitis associated with knee osteoarthritis. *Platelets*, **25(2)**:81-85.
- Baron, D.N., 1992. Ethical Problems in Clinical Pathology. *Journal of Applied Philosophy*, **9(2)**:189-202.
- Beyazit, Y., Sayilir, A., Torun, S., Suvak, B., Yesil, Y., Purnak, T., Oztas, E., Kurt, M., Kekilli, M. and Ibis, M., 2012. Mean platelet volume as an indicator of disease severity in patients with acute pancreatitis. *Clinics and research in hepatology and gastroenterology*, **36(2)**:162-168.
- Bleeker, J.S. and Hogan, W.J., 2011. *Thrombocytosis: diagnostic evaluation, thrombotic risk stratification, and risk-based management strategies*. Hindawi. **11(4)**:1-16
- Blumenreich, M.S., 1990. The white blood cell and differential count. In *Clinical Methods: The History, Physical, and Laboratory Examinations. 3rd edition*. Butterworths, Oxford.
- Bope, E.T. and Kellerman, R.D., 2015. *Hematology: Conn's current therapy*. Elsevier Health Sciences. Philadelphia
- Brown, D.W., Giles, W.H. and Croft, J.B., 2001, White Blood Cell Count: An Independent Predictor of Coronary Heart Disease Mortality among a National Cohort, *Journal of Clinical Epidemiology*, **54(3)**:316–322.
- Carlo, P., Baigent, C., Hirsh, J. and Ruth, G., 2008. Anti trombosit Drugs. *CHEST*; **133**:1998-233.
- Chang, T.M.S., 1957. Hemoglobin Corpuscles, *Journal Biomaterials, Artificial Cells and Artificial Organs*, **16(8)**:1-9.

- Chang, Y.Y.H. and Ho, K., 1979. Effects of acute and continuous morphine administration on serum glutamate oxalacetate transaminase and glutamate pyruvate transaminase activities in the mouse. *Biochemical pharmacology*, **28(8)**:1373-1377.
- Clarke, E.G.C. 1969, Isolation and Identification of Drugs: In *Pharmaceuticals, Body Fluids, and Post-Modern Material*, The Pharmaceutical Press, London.
- Conrad, M.E., 1990. 'Chapter 147: Anemia' in Hall, W.B., Walker, H.K. and Hurst, J.W., *Clinical Methods The History, Physical, and Laboratory Examinations*, 3rd ed., Butterworths, Boston, pp 703.
- D'Agati, V., 1996. Does aspirin cause acute or chronic renal failure in experimental animals and in humans?. *American journal of kidney diseases*, **28(1)**: S24-S29.
- Davì, G. and Patrono, C., 2007, Platelet Activation and Atherothrombosis, *New England Journal of Medicine*, **357(3)**:2482–2494
- Dewi, C., 2012, Uji Toksisitas Akut Senyawa Asam-(3-Klorometil)Benzoil Salisilat dan Asam-(4-Klorometil)Benzoil Salisilat Terhadap Mencit (*Mus musculus L.*), *Skripsi*, Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya.
- Dixon, L.R., 1997. The complete blood count: physiologic basis and clinical usage. *The Journal of perinatal & neonatal nursing*, **11(3)**: 1-18.
- Djawa, M.C., 2016, Efek Asam 2-(3-(Klorometil)Benzoiloksi)Benzoaat Terhadap Profil Darah, Hepar dan Lambung pada Tikus Wistar Jantan Sebagai Pelengkap Uji Toksisitas Subkronis, *Skripsi* Sarjana Farmasi Universitas Katolik Widya Mandala, Surabaya.
- Dreser, H. 1899, Pharmakologisches über aspirin (Acetylsalicylsäure), *Pflugers Arch*, **76(5)**: 306-318.
- Duckitt, K., and Collins, S. 2008. Menorrhagia. *BMJ Clinical Evidence*. **8(12)**: 1-24.
- Eaton, D.L. and Klaassen, C.D. 2001, 'Principles of Toxicology', in Klaassen C.D., *Casarett and Doull's Toxicology: The Basic Science of Poisons*, 6th ed., The McGraw-Hill Companies, Inc., New York.
- Elisabeth, M. 2015, 'Uji Toksisitas Akut Senyawa Asam 2-(4-(Klorometil)Benzoiloksi)Benzoaat pada Tikus Wistar Jantan', *Skripsi*,

- Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya, pp 55.
- Enna, S.J. and Bylund, D.B., 2007. *xPharm: The Comprehensive Pharmacology Reference Creatinine*. Elseveir Publisher, Boston.
- Estridge, Barbara H, Anna P.R. dan Norma J. W., 2000, *Basic Medical Laboratory Techniques, 4th ed.*, Thomson Learning, Massachusetts.
- Etim, N.N., Williams, M.E., Akpabio, U. and Offiong, E.E., 2014. Haematological parameters and factors affecting their values. *Agricultural Science*, **2(1)**: 37-47.
- Flower R. 2003. What are all the things that aspirin does? This fascinating but simple and cheap drug has an assured future. *British Medical Journal*, **327(7415)**: 572-573.
- Gallaugher, P., 1998. Hematocrit and blood oxygen-carrying capacity. *Fish Physiology: Fish Respiration*, **98(2)**: 185-227.
- Ganong, W.F. 2003, ‘Fisiologi Saraf & Sel Otot’ in *Buku Ajar Fisiologi Kedokteran*, Edisi 20, Jakarta.
- Gao, J. and Monaghan, S.A. 2018. Red Blood Cell/Hemoglobin Disorders. in *Hematopathology 3rd edition*. Elsevier. Cleveland.
- Gasparyan, A.Y., Ayvazyan, L., P Mikhailidis, D. and D Kitas, G., 2011. Mean platelet volume: a link between thrombosis and inflammation?. *Current pharmaceutical design*, **17(1)**: 47-58.
- George, E.L. and Panos, A., 2005. Does a high WBC count signal infection?. *Nursing 2019*, **35(1)**: 20-21.
- Giannini, E.G., Testa, R. and Savarino, V., 2005. Liver enzyme alteration: a guide for clinicians. *Canadian medical association journal*, **172(3)**: 367-379.
- Gohlke, J.M. and Doke, D., 2014. *Encyclopedia of toxicology: Clinical chemistry*. Elsevier, Amsterdam.
- Goldberg, D.S. and McGee, S.J., 2011. Pain as a global public health priority. *BMC public health*, **11(1)**: 770.
- Gorodetsky, R., 2014. ‘Acetylsalicylic Acid’ in Wexler, P., *Encyclopedia of Toxcology*, 3rd ed., Elseveir, Buffalo, pp 54-55.
- Gounden, V. and Jialal, I., 2018. ‘Renal function tests’ In *StatPearls*. StatPearls Publishing. pp 1-16.

- Grimm, R.H., Neaton, J.D. and Ludwig, W., 1985, Prognostic Importance of the White Blood Cell Count for Coronary, Cancer, and All-Cause Mortality, *Journal of the American Medical Association*, **254(14)**:1932–1937.
- Hayden, M., Pignone, M., Phillips, C. and Mulrow, C. 2002, Aspirin for the primary prevention of cardiovascular events: a summary of the evidence for the US Preventive Services Task Force, *Annals of Internal Medicine*, **136(4)**: 161-172.
- Hena, S., and Znad, H. 2018. Membrane Bioreactor for Pharmaceuticals and Personal Care Products Removal From Wastewater. *Comprehensive Analytical Chemistry*, **85(12)**: 201–256.
- Hoffman, R., Benz Jr, E.J., Silberstein, L.E., Heslop, H., Anastasi, J. and Weitz, J., 2013. *Hematology: basic principles and practice 6th edition*. Elsevier. Philadelphia.
- Janz, T.G. and Hamilton, G.C., 2010. ‘Anemia, polycythemia, and white blood cell disorders’ in *Rosen’s Emergency Medicine—Concepts and Clinical Practice. 7th edition*. Elsevier, Philadelphia.
- Jap, W. 2019, ‘Pengaruh uji toksisitas subkronik senyawa asam 2-(4-(klorometil)benzoiloksi)benzoat pada histopatologi organ lambung, ginjal dan hepar’, *Skripsi*, Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya, pp 55.
- Johnson-Wimbley, T.D. and Graham, D.Y., 2011. Diagnosis and management of iron deficiency anemia in the 21st century. *Therapeutic advances in Gastroenterology*, **4(3)**: 177-184.
- Kanani, K., Gatoulis, S.C. and Voelker, M. 2015, Influence of Differing Analgesic Formulations of Aspirin on Pharmacokinetic Parameter, *Pharmaceutics*, **7(1)**: 188-198.
- Kannel, W.B., Anderson, K. and Wilson, P.F., 1992, White Blood Cell Count and Cardiovascular Disease: Insights from the Framingham Study, *Journal of the American Medical Association*, **267(9)**: 1253–1256.
- Keusch, G. T., Fontaine, O., Bhargava, A., BoschiPinto, C., Bhutta, Z. A., Gotuzzo, E., Rivera, J., Chow, J., Shahid-Salles, S., and Laxminarayan, R. 2006. ‘Diarrheal Diseases’ in *Disease Control Priorities in Developing Countries*. 2nd edition, World Bank Publications, Whasington, Pp 371-374.

- Kew, M.C., 2000. Serum aminotransferase concentration as evidence of hepatocellular damage. *The Lancet*, **355(9204)**: 591-592.
- Kimberly, R.P. and Plotz, P.H., 1977. Aspirin-induced depression of renal function, *New England Journal of Medicine*, **296(8)**: 418-424.
- Kisacik, B., Tufan, A., Kalyoncu, U., Karadag, O., Akdogan, A., Ozturk, M.A., Kiraz, S., Ertenli, I. and Calguneri, M., 2008. Mean platelet volume (MPV) as an inflammatory marker in ankylosing spondylitis and rheumatoid arthritis. *Joint Bone Spine*, **75(3)**:291-294.
- Klinken, S.P., 2002. Red Blood Cells. *The international journal of biochemistry and cell biology*. **34(12)**: 1513-1518.
- Koeberle, A. and Werz, O. 2009, Inhibitors of the Microsomal Prostaglandin E2 Synthase-1 as Alternative to Non Steroidal Anti-Inflammatory Drugs (NSAIDs), *Current Medicinal Chemistry*, **16(32)**: 4274-4296.
- Koester, M.C. 1993, An Overview of the Physiology and Pharmacology of Aspirin and Nonsteroidal Anti-inflammatory Drugs, *Journal of Athletic Training*, **28(3)**: 252-259.
- Kumar, V., Abbas, A.K., Fausto, N. and Aster, J.C., 2014. *Diseases of white blood cells, lymph nodes, spleen, and thymus in Robbins and Cotran pathologic basis of disease 9th ed.*, Elsevier health sciences. Philadelphia.
- Laine, L., Connors, L.G., Reicin, A., Hawkey, C.J., Burgos-Vargas, R., Schnitzer, T.J., Yu, Q. and Bombardier, C., 2003. Serious lower gastrointestinal clinical events with nonselective NSAID or coxib use. *Gastroenterology*, **124(2)**: 288-292.
- Lanzkowsky, P., 2011. 'Hematological reference values' In *Manuel of Pediatric Hematology and Oncology 6th ed.*, Academic Press, New York.
- Laras, L.P. 2018, 'Pengaruh Senyawa Asam 2-(4-(klorometil)benzoiloksi)benzoat Terhadap Aktivitas dan Indeks Organ Tikus Wistar Betina Sebagai Pelengkap Uji Toksisitas Subkronis', *Skripsi*, Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya, pp 43.
- Laurence, D.R. and Bacharach, A.L. 1964, *Evaluation of Drug Activities: Pharmacometrics*, Vol. 1, Academic Press, London & New York, pp 897.

- Lavie, C.J., Howden, C.W., Scheiman, J. and Tursi, J. 2017, Upper Gastrointestinal Toxicity Associated With Long-Term Aspirin Therapy: Consequences and Prevention, *Current Problems in Cardiology*, **42**: 146-164.
- Lehman, J. W. 2004, *Microscale Operational Organic Chemistry A Problem-Solving Approach to the Laboratory Course*, Pearson Education Inc., New Jersey, pp 698-699, 703-704.
- Levey, A.S., Bosch, J.P., Lewis, J.B., Greene, T., Rogers, N. and Roth, D., 1999. A more accurate method to estimate glomerular filtration rate from serum creatinine: a new prediction equation. *Annals of internal medicine*, **130(6)**: 461-470.
- Lolo, H.Y. 2015, ‘Uji Aktivitas Analgesik Senyawa Asam 2-(4-(Klorometil)Benzoiloksi)Benzoat pada Tikus Putih Jantan’, *Skripsi*, Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya, pp 9-10.
- Loomis, T.A., 1978, ‘Toksikologi Dasar’ In *Essentials of Toxicology*, terjemahan Donatus, I.A, IKIP Semarang Press, Semarang, 233-238.
- Maclagan, T. 1876, The Treatment of Acute Rheumatism by Salicin, *The Lancet*, **11(3)**: 383-384.
- Malakouti, M., Kataria, A., Ali, S.K. and Schenker, S., 2017. Elevated Liver Enzymes in Asymptomatic Patients—What Should I Do?. *Journal of clinical and translational hepatology*, **5(4)**: 394.
- Malley, T., Ludlam, C., Fox, K., Elton, R., 1996, Measurement of platelet volume using a variety of different anticoagulant and antiplatelet mixture. *Blood Coagulant Fibrinolysis*, **7(4)**: 431-6.
- Malole M.B.M. dan Pramono, C.S., 1989, *Penggunaan Hewan-hewan Percobaan Laboratorium*, IPB Press, Bogor
- Martak, R., Soekardjo, B., Surdijati, S., Caroline, C. and Setyabudi, I. 2009, Synthesis of 4-Chromethylbenzoyl Salicylic Acid and Its Analgesic Activity on Mice (*Mus musculus*), *Poster Presentation in Bandung International Conference on Medical Chemistry*, 6-8 Agustus 2009, School of Pharmacy, Bandung.
- Maytum, C.K., dan Magath, T.B., 1932, Sensitivity to acacia. J Am Med Assoc, **99(2)**: 2251.

- McGuinn, C. and Bussel, J.B., 2016. 'Disorders of Platelets' In *Lanzkowsky's Manual of Pediatric Hematology and Oncology*. Academic press, London, pp. 239-278.
- McPherson, R.A. and Pincus, M.R., 2011, 'Erythrocytic disorders' in *Henry's Clinical Diagnosis and Management*. Elsevier Health Sciences. Philadelphia.
- Mehta, A.B. dan Hoffbrand A.V., 2006, *At a Glance Hematologi*, ed.2, Penerbit Erlangga, Jakarta, pp70-73.
- Minigh, J. 2008. *Erythropoietin*. Medical Communication Consultants, Manchester, pp 1-6.
- Mitchell, J.A., Akarasereenont, P., Thiemermann, C., Flower, R.J. and Vane J.R. 1993, Selectivity of Nonsteroidal Antiinflammatory Drugs as Inhibitors of Constitutive and Inducible Cyclooxygenase, *Proc. Natl. Acad. Science*, **90(8)**: 11693-11697.
- Morrison, R.T. and Boyd, R.N. 1992, *Organic Chemistry*, 6th ed., Pearson Education, Inc., London.
- Nagao, T. and Hirokawa, M. 2016, Diagnosis and treatment of macrocytic anemia in adults. *Journal of General and Family Medicine*, **18(5)**: 200-204.
- Natalia, O. 2013, 'Pemodelan Interaksi Turunan Potensial Asam Benzoil Salisilat dengan Reseptor Enzim Siklooksigenase-2', Skripsi, Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya.
- OECD. 2008, 'Repeated Dose 28-Day Oral Toxicity Study in Rodents', in *OECD Guidelines for the Testing of Chemicals*, 407, Organization for Economic Cooperation and Development, Paris, France.
- Potter, P.A and Perry, A.G., 2005, *Buku Ajar Fundamental Keperawatan : Konsep, Proses, dan Praktik*, edisi 4, Volume 2, Alih Bahasa : Renata Komalasari, dkk, EGC, Jakarta.
- Price, C.P., Newall, R.G. and Boyd, J.C., 2005. Use of protein: creatinine ratio measurements on random urine samples for prediction of significant proteinuria: a systematic review. *Clinical chemistry*, **51(9)**: 1577-1586.
- Rainsford, K.D., 1984, *Aspirin and the Salicylates*, Thetford Press, Oxford.

- Ricciotti, E.F. and Garret, A. 2011, Prostaglandins and Inflammation, *Arteriosclerosis, Thrombosis, and Vascular Biology*, **31(2)**: 986-1000.
- Rotua, N., 2014, Uji Toksisitas Subkronis Senyawa Asam 2-(4-(Klorometil)Benzoiloksi)Benzoat pada Profil Darah dan Urin Mencit (*Mus musculus*), *Skripsi Sarjana Farmasi*, Universitas Katolik Widya Mandala, Surabaya.
- Rowe, R.C., Sheskey, P.J. and Quinn, M.E. 2009, *Handbook of Pharmaceutical Excipients*, 6th ed., Pharmaceutical Press, London, pp 1.
- Sarma, P.R., 1990. Chapter 152: Red cell indices, *Clinical Methods The History, Physical, and Laboratory Examinations*, 3rd ed., Butterworths, Boston. Pp720-723.
- Sato, J., Nasu, M., and Tsuchitani, M., 2016. Comparative histopathology of the estrous or menstrual cycle in laboratory animals. *J Toxicol Pathol*, **29(3)**: 1-8.
- Scharer, L. and Smith, J.P., 1969. Serum transaminase elevations and other hepatic abnormalities in patients receiving isoniazid. *Annals of internal medicine*, **71(6)**: 1113-1120.
- Scheiman, J.M. and Hindley, C.E. 2010, Strategies to Optimize Treatment with NSAIDs in Patients at Risk for Gastrointestinal and Cardiovascular Adverse Events, *Clinical Therapeutics*, **32(4)**: 668-677.
- Scott, A.S. dan Elizabeth, F., 2009, *Body Structure and Function*, 11th ed., Delmar Press, Nantwich.
- Shayne, C.G., 2005, ‘Clinical Chemistry’ in *Encyclopedia of Toxicology* 2nd ed., Academic press, Bethesda.
- Silverthorn, D.U., 2009, *Human Physiology: An Integrated Approach* , 4th ed., Pearson, San Fransisco.
- Simmons, D.L., Botting, R.M. and Hla, T. 2004, Cyclooxygenase Isozymes: The Biology of Prostaglandin Synthesis and Inhibition, *Pharmacological Reviews*, **56(3)**: 387-437.
- Smolinske, S.C., 1992. *CRC handbook of food, drug, and cosmetic excipients*. CRC press, Florida.

- Soeksmanto, A. 2006, Pengaruh Ekstrak Butanol Buah Tua Mahkota Dewa (*Phaleria macrocarpa*) terhadap Jaringan Ginjal Mencit (*Mus musculus*), *Biodiversitas*, **7(3)**: 278-281.
- Suckow, M.A., S.H. Weisbroth. and C.L. Franklin. 2006, *The Laboratory Rat*, Elsevier, California, pp 72.
- Sweetman, S.C., 2005, *Martindale: The Complete Drug Reference*, 34th ed., Pharmaceutical Press, London.
- Tamayanti, W.D., Widharna, R.M., Caroline, C. dan Soekarjo, B. 2016, Uji Aktivitas Analgesik Asam 2-(3-(Klorometil)Benzoiloksi)Benzoat) dan Asam 2-(4-(Klorometil)Benzoiloksi)Benzoat pada Tikus Wistar Jantan dengan Metode Plantar Test, *Jurnal Ilmu Dasar*, **17(1)**: 47-52.
- Tao, L., dan Kendall, K., 2014. *Hematologi dan Onkologi*; alih bahasa, Dr. Fajar Arifin Gunawijaya, MS, Dr. Andry Hartono dan Dr. Dwi Djuantoro; Karisma Publishing Group; Tangerang Selatan.
- Tashi, T. and Prchal, J.T., 2016. ‘Polycythemia’ In *Lanzkowsky’s Manual of Pediatric Hematology and Oncology*. Academic Press, Cambridge, Pp. 197-208.
- Tefferi, A. and Barbui, T., 2015, Essential thrombocythemia and polycythemia vera: focus on clinical practice, *Mayo Clinic Proceedings*, **90(9)**: 1283-1293.
- Tefferi, A., 2003. Anemia in adults: a contemporary approach to diagnosis. *Mayo Clinic Proceedings*, **78(10)**: 1274-1280.
- Turner, J. and Badireddy, M., 2019, ‘Anemia’ In *StatPearls*. StatPearls Publishing. New York.
- Vane J.R. R. M. B. 2003. "The mechanism of action of aspirin." *Thrombosis Research*, **110(5)**:3.
- Vieth, J. T., & Lane, D. R., 2014. *Anemia. Emergency Medicine Clinics of North America*, **32(3)**: 613–628.
- Vinik, A.I, Erbas, T., Sun Park, T., Nolan, R. and Pittenger, G.L., 2001, Platelet Dysfunction in Type 2 Diabetes, *Diabetes Care*, **24(8)**:1476–1485.
- Vyas, A., Ram, H., Purohit, A. and Jatwa, R., 2016. Adverse effects of subchronic dose of aspirin on reproductive profile of male rats. *Journal of pharmaceutics*, **16(1)**: 1-16.

- Wahlefeld, A.W., Holz, G. and Bergmeyer, H.U., 1974, 'Creatinine' In *Methods of Enzymatic Analysis (Second Edition), Volume 4*. Academic Press, London. p1786-1790.
- Warner, M.J. and Kamran, M.T. 2018. 'Anemia, iron deficiency' In *StatPearls*. StatPearls publishing, New York.
- Winslow, R., 2006. 'Hemoglobin' in *Encyclopedia of Respiratory Medicine*, Academic Press, London. Pp 263-267.
- Wintrobe, M.M., 1931. The Direct Calculation of the Volume and Hemoglobin Content of the Erythrocyte: A Comparison With Color Index, Volume Index and Saturation Index Determinations. *American Journal of Clinical Pathology*, **1(2)**: 147-166.
- Woda, M.K.W. 2016, 'Efek asam 2-(4-(klorometil)benzoiloksi)benzoat terhadap profil darah dan ginjal pada tikus wistar jantan sebagai pelengkap uji toksitas subkronis', *Skripsi*, Sarjana Farmasi, Universitas Katolik Widya Mandala, Surabaya.
- Wu, K., 2000, Aspirin and salicylate, *Circulation*, **102(17)**: 2022-2023.
- Yarnell, J.W., Baker, I.A., Sweetnam, P.M., Bainton, D., O'Brien, J.R., Whitehead, P.J. and Elwood, P.C., 1991, Fibrinogen, Viscosity, and White Blood Cell Count are Major Risk Factors for Ischemic Heart Disease, *Journal Circulation*, **83(3)**:836-844.
- Zuraida, R., Rohaeni, E.S. and Hikmah, Z. 2006, 'Prospek Pengusahaan Ayam Pedaging pada Kotamadya Banjarbaru Kalimantan Selatan: Kasus di Desa Palam Kecamatan Cempaka Kota Banjarbaru kalimantan Selatan', *Seminar National Teknologi Peternakan dan Veteriner*, 5-6 September 2006, Banjarbaru, pp 841-845.