

ANTIBIOTIC EFFECT OF WATER DEGRADATION EXTRACT
OF *DALISIA PUMILA* TAR ADAPTA
ON THE POSTERIOR NERVE FIBRE

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2006

HISTOLOGICAL EFFECT OF WATER DECOCTION EXTRACT OF *LABISIA*
PUMILA VAR *ALATA* ON THE POSTPARTUM WHITE RAT

By

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Research Report submitted in partial fulfillment of
the requirement for the degree of
Bachelor of Science (Biological Sciences)

Department of Biological Science
Faculty of Science and Technology
KOLEJ UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA
2006

This project should be cited as:

Laila, M. Z. 2006. Histological effect of water decoction extract of *Labisia pumila* var *alata* on the postpartum white rat. Undergraduate thesis, Bachelor of Sciences in Biological Sciences, Faculty of Science and Technology, Kolej Universiti Sains dan Teknologi Malaysia, Terengganu. 29p.

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PROJEK PENYELIDIKAN I DAN II**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk HISTOLOGICAL EFFECT OF WATER DECOCTION EXTRACT OF *LABISIA PUMILA* VAR *ALATA* ON THE POSTPARTUM WHITE RAT oleh Laila Shuhada Binti Mat Zin No. Matrik UK 9091 telah diperiksa dan semua pembetulan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperoleh ijazah Sarjana Muda Sains- Sains Biologi, Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

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ACKNOWLEDGEMENT

This final year project reflects talent and hard of many people, and I want to express my deepest thanks firstly to ALLAH S.W.T for giving me days to breath and thanks to all the individuals involved contributed in completing this project.

I am particularly grateful to my supervisor, Associate Prof. Dr. Mohd. Effendy Bin Abd. Wahid in supervising me in this project. Special thanks to Siti Nurtahirah Jaafar by lending hands and her valuable assistance in finishing this project. Thanks are also due to all the excellent lab assistants especially to En. Muhammad Embong for his kind helps with the lab preparations.

Finally, I wish to thank my family, my parent and to all my friends, especially Tuan Mohd Nasron Bin Tuan Dir for their encouragement and for enduring my obsession with this project.

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ABSTRACT

Herbal treatments have traditionally been used to encourage a healthy pregnancy as it is believed, being of plant origin, there are harmless. *Labisia pumila* var *alata* or known as *Kacip Fatimah* is believed can induce and facilitate childbirth as well as postpartum medicine. The objective of this study is to prove that the water decoction extract of *Kacip Fatimah* caused toxicological effects to the liver, kidney and uterus. The decoction of *Kacip Fatimah* root were boiled with distilled water, filtered, rotavap, and freeze dried. The powdered were mixed with 1 ml distilled water, and orally administrated by gavage to each rat the next day after giving birth. The tissue samples of liver, kidney and uterus were collected from executed rat for pathology examination. The result established the toxicity effect of *Kacip Fatimah* in high doses due to the histopathology disorder presence in the tissues included fatty change, thrombosis, inflammation and hyaline. Generally, the toxicity effect of *Kacip Fatimah* is believed caused by the active compound presence in the plant.

KESAN HISTOLOGI AIR REBUSAN EKSTRAK *LABISIA PUMILA* VAR *ALATA* KE ATAS TIKUS PUTIH SELEPAS BERANAK

ABSTRAK

Rawatan herba digunakan secara tradisional dalam penjagaan kesihatan sepanjang proses kehamilan, kerana herba adalah tumbuhan semulajadi yang diyakini tidak memudaratkan. *Labisia pumila* var *alata* atau lebih dikenali sebagai Kacip Fatimah dipercayai dapat merangsang dan memudahkan proses kelahiran selain daripada rawatan semasa dalam pantang. Objektif kajian ini adalah untuk membuktikan bahawa air rebusan ekstrak Kacip Fatimah boleh menyebabkan kesan toksik pada hati, ginjal dan uterus. Air rebusan ekstrak akar Kacip Fatimah direbus dengan air suling, ditapis, diputar, dan dikeringsejukan. Serbuk yang diperolehi dilarutkan dengan 1ml air suling, diberikan kepada setiap ekor tikus secara oral menggunakan gavaj sehari selepas melahirkan anak. Sampel tisu hati, ginjal dan uterus di ambil daripada tikus yang telah dibedah untuk pemeriksaan patologi. Keputusan eksperimen yang diperolehi membuktikan toksik daripada Kacip Fatimah menyebabkan kesan histopatologi pada tisu termasuklah rangkaian lemak, trombosis, pembengkakan, dan hialin pada tisu pada sukatan yang tertinggi yang diberi. Secara keseluruhannya, kesan toksik ini dipercayai disebabkan oleh kehadiran kompaun aktif di dalam Kacip Fatimah.