

**UNIVERSITI SAINS MALAYSIA
GERAN PENYELIDIKAN UNIVERSITI
PENYELIDIKAN
LAPORAN AKHIR**

**COMPREHENSIVE NEONATAL SCREENING OF
DEVELOPMENT DYSPLASTIC OF HIP IN BABIES
DELIVERED WITH BREECH PRESENTATION**

PENYELIDIK

PROF. MADYA ABDUL RAZAK SULAIMAN

**PENYELIDIK BERSAMA
PROFESOR NIK MOHAMED NIK MAHMOOD
DR. ISMAIL MUNAJAT
DR. NOREEN NORFARAHEEN LEE ABDULLAH
DR. NORaida RAMLI
DR. YAAKOB ABBAS**

2012

LAPORAN AKHIR PROJEK PENYELIDIKAN JANGKA PENDEK

FINAL REPORT OF SHORT TERM RESEARCH PROJECT

Sila kemukakan laporan akhir ini melalui Jawatankuasa Penyelidikan di Pusat Pengajian dan Dekan/Pengarah/Ketua Jabatan kepada Pejabat Pelantar Penyelidikan

1. Nama Ketua Penyelidik: Dr Wan Azman Wan Sulaiman

Name of Research Leader

☐ Profesor Madya/
Assoc. Prof.

☒ Dr./
Dr.

☐ Encik/Puan/Cik
Mr/Mrs/Ms

2. Pusat Tanggungjawab (PTJ): Pusat Pengajian Sains Perubatan

School/Department

3. Nama Penyelidik Bersama: Prof Dr Ahmad Sukari Halim

Name of Co-Researcher

Prof. Madya Dr. Hasnan Jaafar

Dr.Arman Zaharil Mat Saad

Mr.Lau Hut Yee

Ms Wan Ratmaazila Wan Makhtar

4. Tajuk Projek:

Title of Project The Efficacy of Tualang Honey as Wound Dressing for Full-

Thickness

5. Ringkasan Penilaian/Summary of Assessment:

	Tidak Mencukupi Inadequate		Boleh Diterima Acceptable	Sangat Baik Very Good	
	1	2	3	4	5
i) Pencapaian objektif projek: Achievement of project objectives	☐	☐	☐	☒	☐
ii) Kualiti output: Quality of outputs	☐	☐	☐	☒	☐
iii) Kualiti impak: Quality of impacts	☐	☐	☐	☒	☐
iv) Pemindahan teknologi/potensi pengkomersialan: Technology transfer/commercialization potential	☐	☐	☐	☒	☐
v) Kualiti dan usahasama : Quality and intensity of collaboration	☐	☐	☐	☒	☐
vi) Penilaian kepentingan secara keseluruhan: Overall assessment of benefits	☐	☐	☐	☒	☐

6. Abstrak Penyelidikan

(Perlu disediakan di antara 100 - 200 perkataan di dalam Bahasa Malaysia dan juga Bahasa Inggeris.
Abstrak ini akan dimuatkan dalam Laporan Tahunan Bahagian Penyelidikan & Inovasi sebagai satu cara
untuk menyampaikan dapatan projek tuan/puan kepada pihak Universiti & masyarakat luar).

Abstract of Research

(An abstract of between 100 and 200 words must be prepared in Bahasa Malaysia and in English).

This abstract will be included in the Annual Report of the Research and Innovation Section at a later date as a means of presenting the project findings of the researcher/s to the University and the community at large)

Abstract

Material and Methods: Tualang honey is obtained from large honeycombs produced by Asian bees (*Apis dorsata*) in gigantic Tualang trees. It has been used traditionally by local communities to treat wounds. However, unlike manuka honey its medicinal uses are not well researched. An open, prospective study into the efficacy of wound healing in full thickness wounds in rats, was designed to compare honey impregnated dressings with silver-impregnated hydrofibre dressings on full-thickness wound created on the dorsum of Sprague-Dawley rats (n=45). Tualang honey impregnated paraffin tulle (P-honey) and tualang honey impregnated hydrofibre dressings (H-honey) were compared with silver-containing hydrofibre dressing (positive control; H-Ag).

Results: Tualang honey impregnated dressings were comparable to the commercially available silver impregnated hydrofibre dressing in terms of adherence, ease of removal, fluid accumulation, dryness of surrounding skin and exudates. The rates of wound healing, wound contracture and subsequent histological analysis of inflammatory reaction by each dressing were also comparable.

Conclusions: Tualang honey impregnated dressings were as effective as silver impregnated hydrofibre dressings in terms of dressing properties, promotion of wound healing and inflammatory reaction.

Abstrak

Proses dan Bahan Kajian: Madu tualang adalah sejenis madu yang dihasilkan oleh lebah asia yang bersarang pada pokok tualang. Secara tradisi ianya telah digunakan oleh penduduk tempatan di dalam perawatan luka. Berbeza dengan madu Manuka, kajian mengenainya adalah terhad. Kajian prospektif ini telah dilakukan untuk membandingkan keberkesanan madu tualang berbanding dengan bahan rawatan luka komersial (Silver impregnated hydrofiber)

Keputusan: Madu Tualang adalah setara dengan bahan rawatan luka komersil dari segi kesesuaian, senang untuk ditukar, penyerapan bendalir luka dan mencegah kerosakan kulit sekitar luka. Kadar pembaikan luka dan tindakbalas tisu badan dalam penggunaan madu tualang juga setara dengan bahan rawatan luka komersil.

Kesimpulan: Keberkesanan madu tualang dalam perawatan luka adalah setara dengan bahan perawatan luka komersil

7. Sila sediakan laporan teknikal lengkap yang menerangkan keseluruhan projek ini.

[Sila gunakan kertas berasingan]

Applicant are required to prepare a Comprehensive Technical Report explaining the project.

(This report must be appended separately)

Full journal attached

Senaraikan kata kunci yang mencerminkan penyelidikan anda:

List the key words that reflects your research:

Bahasa Malaysia

Bahasa Inggeris

Madu tualang
Bahan rawatan luka hidrofiber
Luka penuh kulit
Pembaikan luka

Tualang honey Silver dressing
Hydrofibre dressing
Full thickness wound
Wound healing

8. Output dan Faedah Projek

Output and Benefits of Project

(a) * Penerbitan Jurnal

Publication of Journals

(Sila nyatakan jenis, tajuk, pengarang/editor, tahun terbitan dan di mana telah diterbit/diserahkan)

(State type, title, author/editor, publication year and where it has been published/submitted)

The Efficacy of Tualang Honey in Comparison to Silver in Dressing Wounds in Rats

Mat Saad Arman Zaharil, Wan Azman Wan Sulaiman, Ahmad Sukari Halim, Mohd Yussof Shah
Jumaat, Jaafar Hasnan. Journal of ApiProduct and ApiMedical Science 3 (1): 45 - 53 (2011)
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