WORKSHOP ATTENDED:

1. ICMR Sponsored National Workshop on Survey of Medicinal Plants in Western Ghats on 27th and 28th September 2008 organized by KLE University, Belgaum, Karnataka.

2. ICMR Sponsored Field Workshop on Survey of Medicinal Plants in Western Ghats on 21st and 23rd January 2010 at Kulgi,Dandeli, organised by KLE University, Belgaum, Karnataka.

3. 3rd Congress on Cosmetic Technology on 28th and 29th August 2009 organised by KLE University's College of Pharmacy, Belgaum and Indian Cosmetic Technologists Association.

4. 15th Annual Conference & First international Convention on Global Challenges and Opportunities in Herbal Medicines on 18th to 20th February 2011, held at KLE University's College of Pharmacy, Belgaum, Karnataka, India.
Development and evaluation of psyllium seed husk polysaccharide based wound dressing films

Basavaraj S. Patil, Vinayak S. Mastholmath, Anandrao R. Kulkarni

Abstract

In the present study, wound dressing films were fabricated using Seed Husk of Psyllium (SHP) complexed with povidone iodine and were evaluated for various physicochemical properties as well as wound healing activity in albino rats. The required film properties for the successful wound dressings, such as film elongation (elasticity), tensile strength, water uptake and water vapor transmission rates (WVTR) were examined. Results indicated that SHP films showed good elasticity (80.27–16.24%) and acceptable tensile strengths (6.33–22.13 N/mm²). SHP films were evaluated for water absorption pattern as well as permeation to water vapours and results showed that films were able to swell in water up to 167 to 191% w/w and WVTR were in the range between 8.23 × 10⁻³ to 1.12 × 10⁻⁴ g cm⁻¹ day⁻¹. Selected formulation of SHP films with optimum characteristics were loaded with Povidone iodine (PI) solution by soaking method and were evaluated for antimicrobial and wound healing activity on excision wound model. Results indicated that PI loaded films showed significant antibacterial activity against both gram positive and gram negative selected bacteria. PI loaded SHP films showed comparatively better wound healing property to control group with faster epithelialization and greater rates of wound contraction.
Novel Wound Dressing Material Derived from Crosslinked Tamarind Seeds Polysaccharide: *In Vitro* Characterization and Wound Healing Activity

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In the present study, novel wound dressing films derived from Tamarind seed polysaccharide (TSP) were fabricated by crosslinking with epichlorhydrin and evaluated for wound healing activity in albino rats. The required film properties for the successful wound dressings, such as film elongation (elasticity), tensile strength, water uptake and water vapor transmission rates (WVTR) were examined. Results indicated that TSP films showed good elasticity (30.00-44.95 %) and showed acceptable tensile strengths (7.33 - 9.83 N) which were found to be depending on the thickness and extent of crosslinking of the films. Films showed water uptake of 117 to 189 % wet and WVTR were found in the range between 8.24 x 10^8 to 0.24 x 10^8 g.cm/day. TSP films with an ideal characteristic were load with Povidone Iodine (PI) solution by soaking method and were evaluated for antimicrobial and wound healing activity on excision wound model. Results indicated that PI loaded films showed significant antibacterial activity against both gram positive and gram negative selected bacteria and good wound healing property as compared to control group with faster epithelization and greater rates of wound contraction.
WOUND HEALING ACTIVITY OF HYDROGEL OBTAINED FROM PIGEON PEA (CAJANUS CAJAN) SEED HUSK

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ABSTRACT

In the present study, wound healing activity of hydrogel obtained from pigeon pea (Cajanus cajan) seed husk was carried out in albino rats. Pigeon pea seed husk polysaccharide was successfully extracted and utilized in the preparation of gel formulation. Gel formulation showed significant antibacterial activity against both gram positive and gram negative selected bacteria. Rat excision wound model was used to screen the wound healing activity. Percentage closure of original wound area was calculated on various days and results indicated that the percentage wound closure and epithelization for the gel formulation treated group was comparable with those of standard group treated with Band aid.

KEY WORDS: Wound healing activity, anti-microbial activity, pigeon pea seed husk.

1. INTRODUCTION
KUVEMPURI UNIVERSITY

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Certificate

This is to certify that Smt./Sri B. S. Patil of SET’s College of Pharmacy, S.R. Nagar, Dharwad 580 002 has been awarded first prize for the Oral/poster presentation of the research paper entitled “Wound Dressing Material Derived from Tamarindus Indicus Seed: In-Vitro Characterization and Wound Healing Activity” in the UGC-SAP Sponsored two days national conference on “Recent Trends in Chemical and Biological Sciences” (NCRTCBS-2010) held on 30th and 31st March, 2010 organized by the Department of Chemistry, Kuvempu University, Shankaraghatta, Shimoga.

(Prof T. V. Venkatesha)  
Chairman

(Prof J. Keshavayya)  
Convenor
National Conference on
Role of Traditional Medicines & Natural Products
in Management of Neurodegenerative Disorders
22-24th June 2008
Sponsored By
Indian Council of Medical Research, New Delhi

Certificate

Certified that Prof./Dr./Mr./Ms./...B.V. Patil...

...Participated / Presented research paper in the National conference on RTNMND-2008, June 22-24th, held at Soniya Education Trust's College of Pharmacy, Dharwad, Karnataka.

Convener
Dr. V.H. Kulkarni

Organizing Secretary
Dr. Hanumanthachar Joshi
Annexures

[Certificate image showing recognition of a participant at an event]

K.L.E.'s College of Pharmacy & J.N. Medical College, B. Pharmacy for Women
in association with Indian Society of Pharmacognosy, Regional Medical Research Centre, ICMR, Belgaum, & KLE University, Belgaum, Karnataka.

Grant this CERTIFICATE of achievement to Prof. G. Patil
in recognition of his/her attendance as a Resource Person/Participant at the "National Workshop on Survey of Medicinal Plants in Western Ghats" on 27th & 28th September 2008

[Signature]

Prof. (Dr.) J. V. Manvi
Local Organizing Committee

Prof. (Dr.) Chandrakant Kokate
Patron

[Stamp] KLE University, Belgaum, Karnataka
3rd Congress on Cosmetic Technology

Future Trends in Cosmetic Technologies

28th & 29th August 2009

Organised by KLE University’s
COLLEGE OF PHARMACY, BELGAUM
&
INDIAN COSMETIC TECHNOLOGISTS ASSOCIATION

Prof./Dr./Mr./Ms. B. S Patil

has participated in the 3rd CCT held at Belgaum
on 28th & 29th August 2009
As delegate / Speaker / Chairman & Presented Paper.

Dr. Vimaladevi
Founder President, ICTA

Dr. F. V. Manvi
Chairman, LOC

Dr. S. S. Jalalpure
Organising Secretary
ICMR Sponsored Two Days National Seminar on
"Advances in Drug Design and Drug Delivery for Pulmonary Diseases"
30 & 31 July, 2010
[In commemoration with centenary year of BLDE Association, Bijapur]

CERTIFICATE

This is to certify that; Prof./Dr./Mr./Ms./Mrs. B. S. Patil
has attended the ICMR sponsored two days national seminar ADD&DDPD on 30 & 31 July, 2010,
organized by BLDE's College of Pharmacy, Bijapur 586103, Karnataka,
as delegate / presented the scientific paper.

Chief Convener
Dr. Nawanath V. Kalyane

Co-ordinators
Mr. R. B. Kothal
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College of Pharmacy, Bijapur - 586103, Karnataka
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INSTITUTIONAL ANIMAL ETHICAL COMMITTEE (IAEC)

REG. No. 112/1999/CPCSEA, dt. 19.05.1999 UNDER THE RULE 5(a) OF THE "BREEDING OF AND EXPERIMENTS ON ANIMALS (CONTROL AND SUPERVISION) RULES 1998"


CERTIFICATE

This is to certify that Mr. R.S. Patil, a Research Scholar of Ph.D. is permitted to carry out experiments for the dissertation / thesis work entitled "DESIGN & EVALUATION OF WOUND DRESSING MATERIALS OF NATURAL ORIGIN" as per the details mentioned and after observing the usual formalities laid down by IAEC as per the provisions made by CPCSEA.

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