



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

**Metric
3.3.2**

Number of books and chapters in edited volumes/books published and papers published in national / international conference proceedings per teacher during last five years

**DVV
QUERY**

DVV input as per:

1. Book only with ISBN number will be counted here.
2. Publication of authors not affiliating to HEI at the time of publication not to be included. DVV input excluding publications in the year 2022.
3. Note: Calendar year publication to be considered.

DVV suggested input: 15

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Number	02	07	0	01	05

**DVV
CLARIFICATION**

1. Books only with ISBN number has been considered, counted and updated.
2. Calendar year publications are considered and updated.

Updated input: 12

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Number	05	05	0	01	01



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

YEARWISE DETAILS

Year	2021-22	2020-21	2019-20	2018-19	2017-18
Number	05	05	0	01	01

Responses: 12



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

INDEX

LIST OF BOOK / BOOK CHAPTERS

Sr. No.	Name of teacher	Title of Book Published	ISBN No.	National/ International	Year of publication	Name of publisher	Link
BOOKS PUBLISHED							
2021							
1	Dr.Pankaj Jadhav	Concepts of Social and Preventive Pharmacy	978-93-80744-87-2	National	2021	Pharma Career Publications	Link
2	Dr.Pankaj Jadhav	Pharmaceutics practical II	978-93-92319-14-3	National	2021	Geervanjyoti prakashan	Link
3	Dr.Pankaj Jadhav	Identification of Phytopharmaceuticals	ASIN B0972DY ZQV (ONLINE BOOK)	National	2021	Nirali prakashan	Link
4	Dr.Suhas Awati	Effect of medicinal plants against lung cancer	978-981-33-6849-1	International	2021	springer	Link
5	Dr. Sandeep B. Patil	Investigation of in vitro antioxidant anti-inflammatory, antimicrobial and anticancer activity of herbex polyherbal formulation	9789354084485	National	2021	Arvind herbal labs pvt. Ltd.	Link
2020							
6	Dr. Pankaj Jadhav	Enhancement of solubility and dissolution rate of Griseofulvin	978-620-2-51412-5	National	2020	Lambert Academic Publishing	Link



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

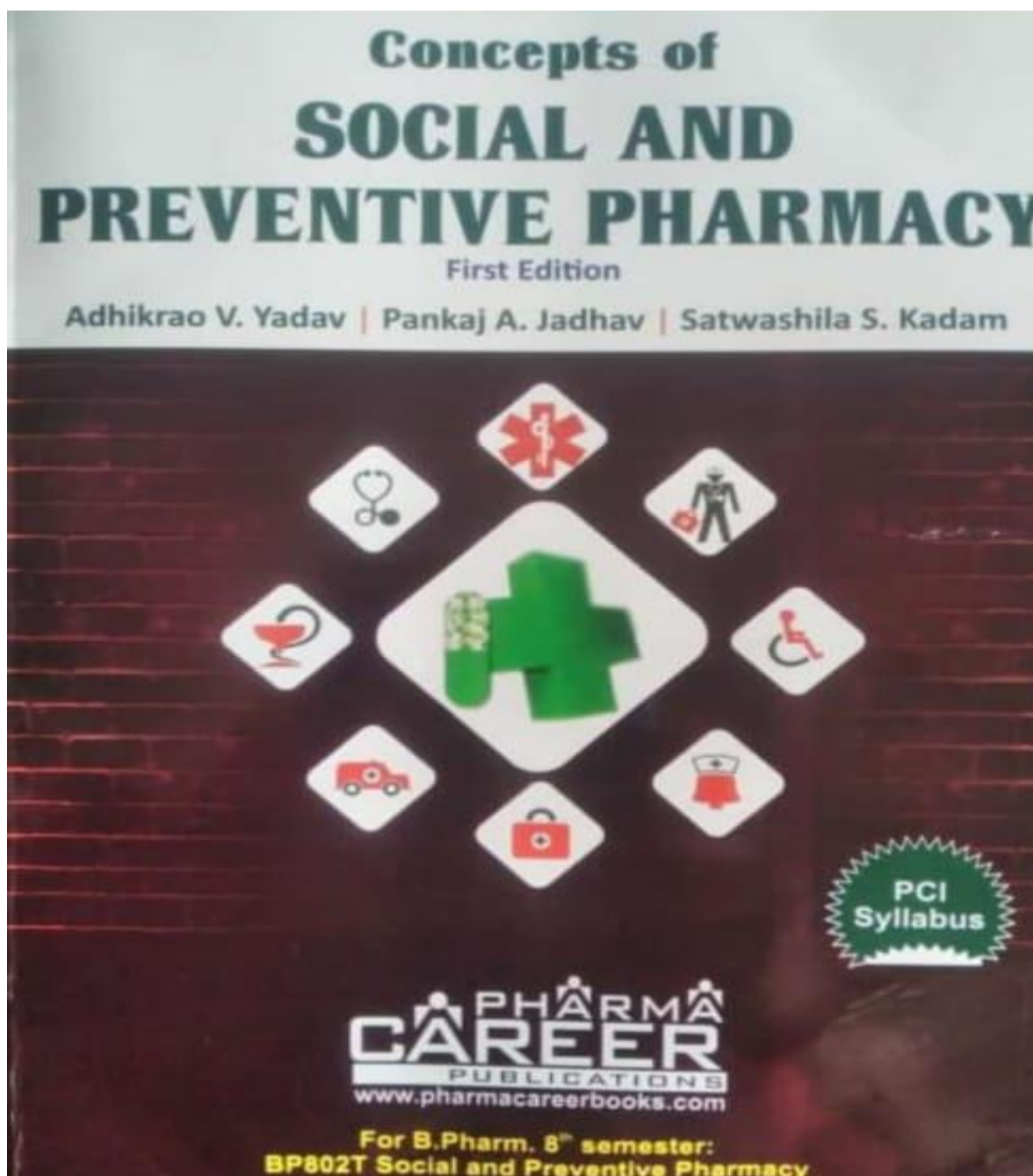
7	Dr. Suhas Awati	Antidiabetic potential of <i>Bridelia retusa</i> S. bark	978-620-2-52716-3	International	2020	Lambert Academic Publishing	Link
8	Dr. Suhas Awati	Orphan disease and its treatment	978-602-2-51798-0	International	2020	Lambert Academic Publishing	Link
9	Dr. Pankaj Jadhav	Thiadiazoles as a anti-inflammatory agent	978-620-2-51565-8	National	2020	Lambert Academic Publishing	Link
10	Dr. Pravin Pawar	Ocular Bioadhesive Drug Delivery Systems and Their Applications (<i>Book chapter</i>)	9781119591719	International	2020	Scrivener Publishing	Link
2018							
11	Dr. Pankaj Jadhav	Phytopharmaceuticals	978-93-88293-10-5	National	2018	Nirali prakashan	Link
2017							
12	Dr. Pravin Pawar	Mucoadhesive Polymers for Drug Delivery Systems (<i>Book chapter</i>)	9781119591719	International	2017	Scrivener Publishing	Link



Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards





Teerthankar Education Society's Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

About the Book

This book will be useful for degree students of pharmacy in understanding basic fundamental principles involved in social and preventive pharmacy. The book is useful to students and teachers as well.

The book has 7 chapters

1. Concept of health and disease,
2. Social and health education,
3. Sociology and health,
4. Hygiene and health,
5. Preventive medicine,
6. National health programs &
7. Community services in rural, urban and school health

All chapters cover different concepts and programs related to society and measures to prevent various diseases as per syllabus framed by **Pharmacy Council of India (PCI) for eighth semester of B. Pharm.** It is mainly focused on human health. Every individual should be responsible to promote good health in society.

About the Authors



Dr. Adhikrao V. Yadav

He is positioned today as Principal and Professor at Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara. He has experience of 36 years as undergraduate teacher in pharmacy and of 20 years as postgraduate teacher in pharmacy. He has worked as consultant for many pharmaceutical industries. He has guided 45 postgraduate students, 6 Ph.D Students and presently 8 Ph.D students are working under his guidance. He is life member of ISTE, ISCPT, Institution of Chemists (India), IHPA, IPA and APTI. He has published more than 100 research articles in various national and international peer reviewed journals. He has published 8 books in different publications and filed 3 patents. He has been honoured with Pharmaceutical Professional of 2009 by Indian Association of Pharmaceutical Scientists and Technologists, Kolkata, Prof. S.B. Sonawane Memorial Award in Pharmaceutical Chemistry section for article in Indian Journal of Pharmaceutical Education & Research.



Mr. Pankaj A. Jadhav

He is working as an Assistant Professor at Dr. Shivajirao Kadam College of Pharmacy, Kasbe Digraj, Sangli. He has experience of 10 years of teaching undergraduate and postgraduate students. He has published 3 books and 20 papers in national and international reputed journals. He is a registered Pharmacist and life member of Association of Pharmacy Teachers of India.



Ms. Satwashila S. Kadam

She is working as an Assistant Professor at Women's College of Pharmacy, Peth Vadgaon, Kolhapur. She has experience of 6 years of teaching undergraduate and postgraduate students. She has published 2 books and 14 papers in national and international reputed journals. She is a registered Pharmacist.

**PHARMA
CAREER
PUBLICATIONS**
www.pharmacareerbooks.com

**Concepts of Social and
Preventive Pharmacy**

First Edition

Price : ₹ 225/-

ISBN : 978-93-80744-87-2



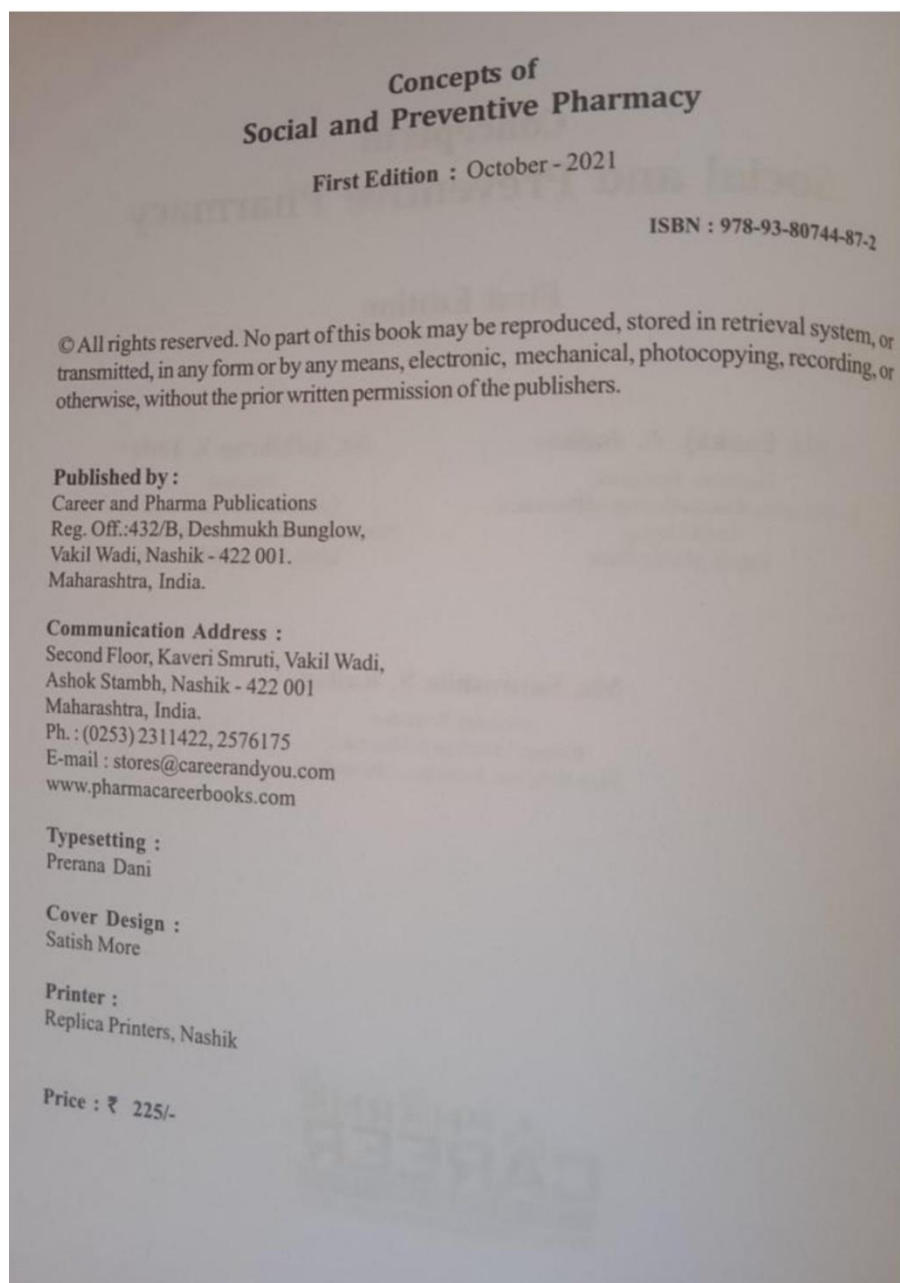
9 789380 744872



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards





**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Pharmaceutics Practical II

[F. Y. M. Pharm. (Sem. II) MPH205P]

As per PCI Syllabus for Postgraduate Students in Pharmaceutical Sciences

Mr. Jadhav P. A.

Assistant Professor,

Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj, Sangli, Maharashtra

Dr. Pawar P. K.

Professor,

Department of Pharmaceutics, St. John Institute of Pharmacy & Research, Palghar (E), Maharashtra

Ms. Kadam S. S.

Assistant Professor,

Women's College of Pharmacy, Peth Vadgaon, Kolhapur, Maharashtra

Ms. Jadhav P. H.

Assistant Professor,

Annasaheb Dange College of B. Pharmacy, Ashta, Sangli, Maharashtra

गीर्वाणज्योति प्रकाशन.





**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Pharmaceutics Practical II

[F. Y. M. Pharm. (Sem. II) MPH205P]

As per PCI Syllabus for Postgraduate Students in Pharmaceutical Sciences

=====

Author:

Mr. Jadhav P. A.
Assistant Professor,
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj, Sangli, Maharashtra

Dr. Pawar P. K.
Professor,
Department of Pharmaceutics, St. John Institute of Pharmacy & Research, Palghar (E), Maharashtra

Ms. Kadam S. S.
Assistant Professor,
Women's College of Pharmacy, Peth Vadgaon, Kolhapur, Maharashtra

Ms. Jadhav P. H.
Assistant Professor,
Annasaheb Dange College of B. Pharmacy, Ashta, Sangli, Maharashtra.

ISBN: 978-93-92319-14-3

Edition: 1st

Publisher:

Geerwanjyoti Publication

Contact Us: Mobile: +919822097507

Email: geerwanjyotipublication@gmail.com

© All rights of eBook reserved by Publisher.

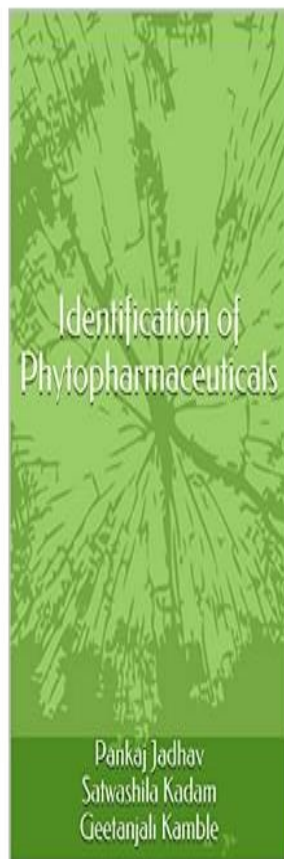
No part of this book may be reproduced, or stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without express written permission of the publisher.



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards



Identification of Phytopharmaceuticals किंडल संस्करण

इसके द्वारा Pankaj Jadhav Satwashila Kadam Geetanjali Kamble (Author), Satwashila Kadam (Author), & 1 और
फॉर्मेट : किंडल संस्करण

[सभी प्रारूप और संस्करण देखें](#)

Kindle Edition

₹73.00

पढ़ने के लिए प्रयोग करें हमारा [क्री ऐप](#)

We are happy to introduce the book entitled 'Identification and Analytical Tests of Phytoconstituents'. Today, it has more importance to prevent adulteration of phytopharmaceuticals. Accurate identification and purity of crude drug constituents has much attention globally. We have tried to compile general information, general tests, assay method, identification tests and storage conditions of active constituents of crude drugs at one place. This book will be useful as reference book for researchers in herbal area. In addition it will also be useful to students trying to qualify GPAT examination.

[सैम्पल पढ़ें](#)

प्रिंट की लम्बाई

भाषा

प्रकाशन की तारीख

फ़ाइल का साइज़



190 पेज 



अंग्रेज़ी



10 जून 2021



7072 KB



[इसक को फॉलो करें](#)



Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Book Description

We are happy to introduce the book entitled 'Identification and Analytical Tests of Phytoconstituents'. Today; it has more importance to prevent adulteration of phytopharmaceuticals. Accurate identification and purity of crude drug constituents has much attention globally. We have tried to compile general information, general tests, assay method, identification tests and storage conditions of active constituents of crude drugs at one place. This book will be useful as reference book for researchers in herbal area. In addition it will also be useful to students trying to qualify GPAT examination.

Product Details

ASIN: B0972DYZQV

Language: English

File size: 7072 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Enhanced typesetting: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Print length: 190 pages



Teerthankar Education Society's Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

EVIDENCE BASED HERBAL MEDICINE

ISBN: 978-93-5408-448-5

Investigation of in vitro antioxidant, anti-inflammatory, antimicrobial and anticancer activities of Herbex Polyherbal Formulations

Selvam P¹, Sandeep B. Patil², Prabu D³ and Ashish Wadhvani⁴

¹R & D Centre, Aravindh Herbal Labs (P) Ltd., Rajapalayam - 626 117, Virudhunagar District, Tamil Nadu

²Biocyte Institute of Research and Development, Sangli - 416 416, Maharashtra

³Dr ALM PG IBMS, University of Madras-Taramani campus, Chennai, Tamil Nadu

⁴Department of Pharmaceutical Biotechnology, College of Pharmacy, JSS Academy of Higher Education & Research, Ooty - 643001, Tamil Nadu

Abstract – Herbex is poly herbal formulation *Solanum xanthocarpum*, *Ocimum sanctum*, *Calotropis gigantea*, *Piper longum*, *Adhatoda vasica*, *Indigofera tinctoria*, *Leucas aspera*, *Piper nigrum* and *Curcuma augustifolia* used traditionally for the treatment of respiratory and related disorder. In the present study we have investigated for the anticancer activity of Herbex in Lung cancer cells (A549 cells). The cytotoxicity of Herbex was tested in normal vero cells by MTT assay. Also, antimicrobial activity of Herbex against multidrug resistant bacteria *E coli*, *Staphylococcus aureus* and *Klebsella pneumoniae* was also examined to understand microbial potential. Antioxidant activity by DPPH, ABTS, NO and FRAP method was compared with standard ascorbic acid under similar conditions. Further, in vitro anti-inflammatory activity by protein denaturation method was used to validate the pharmacological action of Herbex formulation. Herbex contains medicinal plants with antimicrobial activity, antioxidant and anti-inflammatory that is essential for therapeutic efficacy. From the current study, herbex polyherbal aqueous extract had significant bacterial activity against *E coli*, MDR *Klebsiella Pneumoniae* and MR *Staphylococcus aureus*. Antibacterial activity also performed against respiratory pathogens like *E. aerogenes*, *P. aueruginosa*, *K. pneumonia* and *S. pneumonia*. Herbex had moderate anti-oxidant activity, when compared with standard ascorbic acid under similar conditions. Anti-inflammatory activity with that of standard

1 | ARAVINDH HERBAL LABS (P) LTD., RAJAPALAYAM - 626 117

Dr. P. SELVAM (2021)

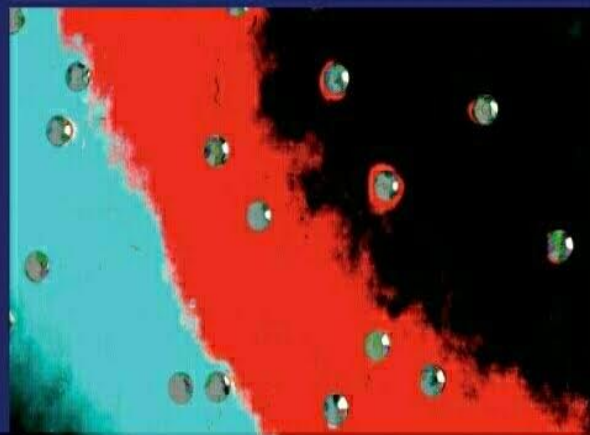


Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

In the recent years, the interest in micron and submicron systems in pharmacy as surged. Micron system comes in range of μm and submicron in nm. Typically, colloid is an intermediates size between molecular range and coarse range. There has been a considerable research interest in the area of drug delivery using particulate systems. Particulate systems used as a physical approach to alter and improve the pharmacokinetic and pharmacodynamic properties of various types of drug molecules. Griseofulvin is an important agent in the treatment of dermatophytosis. Results of present work lead to a conclusion that reduced size of the drug particles with presence of the surfactants and polymers on the surface of griseofulvin microparticles are responsible for meteoric rise in solubility and dissolution velocity. Surfactants play an important role in the solubility of the drugs by increasing the wettability due to adsorption on the surfaces. Microparticles have been used as a physical approach to alter and improve the pharmacokinetic and pharmacodynamic properties of various types of drug molecules due to increased surface area by several times.

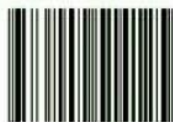


Pankaj Jadhav
Satwashila Kadam

I am currently working as an Assistant Professor at Annasaheb Dange College of B. Pharmacy, Asha, Sangli. I have experience of undergraduate and postgraduate teacher in pharmacy for 10 years. There are 04 books and 20 papers in national and international reputed journals to my credit.

**Enhancement of solubility
and dissolution rate of
Griseofulvin**

Enhancement of solubility and dissolution rate of
Griseofulvin using particulate drug delivery systems



978-620-2-51412-5

LAP LAMBERT
Academic Publishing



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

LAP LAMBERT Academic Publishing

Imprint

Any brand names and product names mentioned in this book are subject to trademark, brand or patent protection and are trademarks or registered trademarks of their respective holders. The use of brand names, product names, common names, trade names, product descriptions etc. even without a particular marking in this work is in no way to be construed to mean that such names may be regarded as unrestricted in respect of trademark and brand protection legislation and could thus be used by anyone.

Cover image: www.ingimage.com

Publisher:

LAP LAMBERT Academic Publishing
is a trademark of
International Book Market Service Ltd., member of OmniScriptum Publishing
Group
17 Meldrum Street, Beau Bassin 71504, Mauritius

Printed at: see last page

ISBN: 978-620-2-51412-5

Copyright © Pankaj Jadhav, Satwashila Kadam

Copyright © 2020 International Book Market Service Ltd., member of
OmniScriptum Publishing Group

FOR AUTHOR USE ONLY



Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Petroleum ether (40-60°C), chloroform, ethyl acetate, methanol and aqueous extracts were subjected to evaluation of the antidiabetic activity. Diabetes was induced by alloxan monohydrate. The acute and chronic study included the measurement of blood glucose level at 0, 1, 3, 5, 7, 24 hr and 15th day after administration of extracts orally. Glibenclamide was used as a standard drug. The characterization of the extract was performed by a physicochemical and phytochemical investigation. Isolation and characterization were carried out on column chromatography along with different spectroscopic methods. Result: Among all the extracts, ethyl acetate and methanol extract showed a more significant reduction in blood glucose level and biochemical parameters such as total cholesterol, triglycerides, liver enzymes viz. SGOT, SGPT, ALP and urea level and also increases the serum insulin level in extract treated diabetic rats. Conclusion: The present study concluded that the *Bridelia retusa* Spreng. was found to be effective herb against alloxan induced diabetes and also in preventing the metabolic alteration induced as the consequence of diabetes.



Mr. Suhas S. Awati is pursuing PhD in Pharm. Science from SGVU, Jaipur. Presently he is working as an Assistant Professor at Dr. Shivajirao Kadam COP, Kasabe digraj, Maharashtra. He is having 11 years of teaching experience and published 14 research papers in national and international journals and 3 books on his credit.

Suhas Awati
Sunil Karale
Kiran Wadkar

Antidiabetic Potential of
Bridelia retusa S. bark

Phytochemical Evaluation and antidiabetic screening
of *Bridelia retusa* S. bark



978-620-2-52716-3

Awati, Karale, Wadkar





Teerthankar Education Society's Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Orphan disease research has historically been highly fragmented by data type, by a research institution, and by disease. Individual efforts often have little interoperability and it can be almost impossible to connect the detailed clinical information held in one database with the genetic information held in another, or with information on whether a biomaterial sample or data from clinical research studies is available.

Linking up this data at the level of an individual patient enables researchers to gain a better overview of the disease they are studying without having to collect all the information again from scratch. Providing access to data by other researchers in a secure fashion with adequate data protection allows researchers in other institutions and studying other Orphan diseases to compare results and gain new insights.

By developing robust mechanisms and standards for linking and exploiting existing data and new data generated in related Orphan disease research projects, RD-Connect will develop a critical mass for harmonization and provide a strong impetus for a global "trial-ready" infrastructure.



Suhas Awati
Sujay Mali
Viraj Mahajan



S. S. Awati has completed B. Pharm from ABCP, Sangli and M. Pharm from KLES's COP, Belgaum, Karnataka, and pursuing a Ph.D. from Suresh Gyanvihar University, Jaipur, Rajasthan. Presently he is working as an Assistant Professor at Dr. Shivajirao Kadam College of Pharmacy, Kasabe digraj, He is having a total of 11 years of teaching experience.

Orphan Diseases and It's Treatment

a Review



978-620-2-51798-0





Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

The present work, which has been undertaken is bonafide, for the synthesis of Novel substituted 1, 3, 4-thiadiazole derivatives. In this view we have made an attempt in reviewing the literature on 1, 3, 4-thiadiazole derivatives for their medicinal significance with the help of chemical abstract, journals and internet sites. In the light of above, the synthesis of N-substituted-([5-(pyridin-4-yl)-1,3,4-thiadiazol-2-yl] sulfanyl) 2-acetamide/2-propanamide/3-propanamide derivatives were established using literature survey. Nine new molecules were synthesized, with the standard chemicals and procedures. The synthesized compounds were tested for their preliminary tests, physical constants and TLC. The structures of the final products were confirmed employing spectral analysis such as IR, ¹HNMR and Mass. The proposed compounds were screened for their anti-inflammatory activity with the standard drug. Compound 4b, 5a, 6c emerged as a potent anti inflammatory lead compounds.

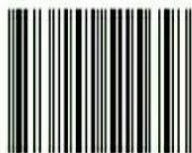


Satwashila Kadam
Ashok Ganure
Pankaj Jadhav

Currently, I am working as an Assistant Professor at Ashokrao Mane College of Pharmacy, Peth Vadgaon, Kolhapur. I have an experience of undergraduate and postgraduate teacher in Pharmacy for 06 years. There are 03 books and 12 papers to my credit.

Thiadiazoles as an Anti-Inflammatory Agent

Chemical Synthesis and Biological Screening



978-620-2-51565-8





**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

**Satwashila Kadam
Ashok Ganure
Pankaj Jadhav**

**Thiadiazoles as an Anti-Inflammatory
Agent**

Chemical Synthesis and Biological Screening

FOR AUTHOR USE ONLY

LAP LAMBERT Academic Publishing

Imprint

Any brand names and product names mentioned in this book are subject to trademark, brand or patent protection and are trademarks or registered trademarks of their respective holders. The use of brand names, product names, common names, trade names, product descriptions etc. even without a particular marking in this work is in no way to be construed to mean that such names may be regarded as unrestricted in respect of trademark and brand protection legislation and could thus be used by anyone.

Cover image: www.ingimage.com

Publisher:
LAP LAMBERT Academic Publishing
is a trademark of
International Book Market Service Ltd., member of OmniScriptum Publishing
Group
17 Meldrum Street, Beau Bassin 71504, Mauritius

Printed at: see last page
ISBN: 978-620-2-51565-8

Copyright © Satwashila Kadam, Ashok Ganure, Pankaj Jadhav
Copyright © 2020 International Book Market Service, Ltd., member of
OmniScriptum Publishing Group

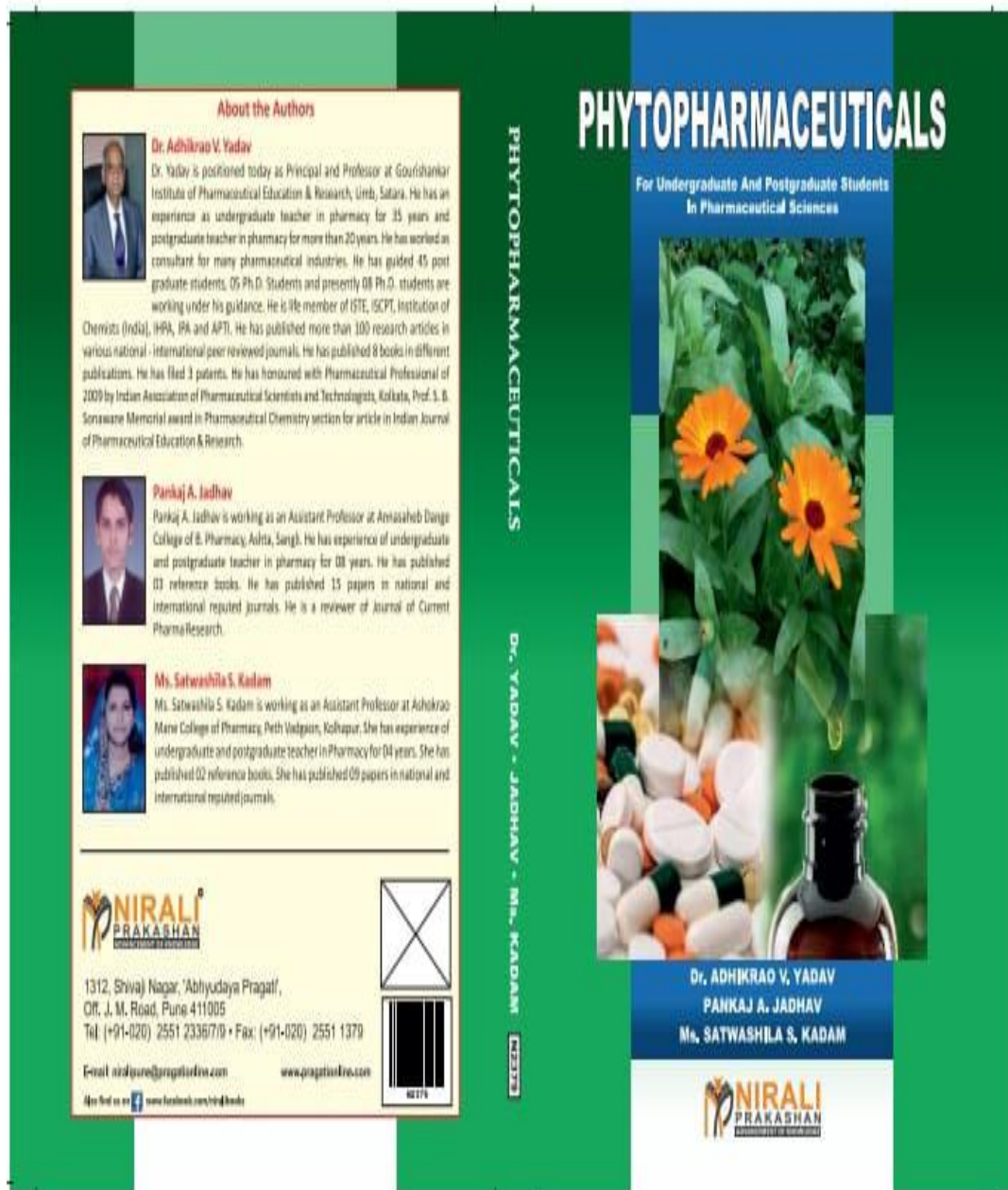
FOR AUTHOR USE ONLY



**Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj**

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards



About the Authors



Dr. Adhikrao V. Yadav

Dr. Yadav is positioned today as Principal and Professor at Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara. He has an experience as undergraduate teacher in pharmacy for 35 years and postgraduate teacher in pharmacy for more than 20 years. He has worked as consultant for many pharmaceutical industries. He has guided 45 post graduate students. 05 Ph.D. Students and presently 08 Ph.D. students are working under his guidance. He is life member of ISTE, ISCTP, Institution of Chemists (India), IIPA, IPA and APTI. He has published more than 100 research articles in various national - international peer reviewed journals. He has published 8 books in different publications. He has filed 3 patents. He has honoured with Pharmaceutical Professional of 2009 by Indian Association of Pharmaceutical Scientists and Technologists, Kolkata, Prof. S. B. Sonawane Memorial award in Pharmaceutical Chemistry section for article in Indian Journal of Pharmaceutical Education & Research.



Pankaj A. Jadhav

Pankaj A. Jadhav is working as an Assistant Professor at Anasaheb Dange College of B. Pharmacy, Aolra, Sangli. He has experience of undergraduate and postgraduate teacher in pharmacy for 08 years. He has published 03 reference books. He has published 15 papers in national and international reputed journals. He is a reviewer of Journal of Current PharmaResearch.



Ms. Satwashila S. Kadam

Ms. Satwashila S. Kadam is working as an Assistant Professor at Adhikrao Mani College of Pharmacy, Peth Valgaon, Kolhapur. She has experience of undergraduate and postgraduate teacher in Pharmacy for 04 years. She has published 02 reference books. She has published 09 papers in national and international reputed journals.

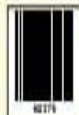


1312, Shivali Nagar, 'Abhyudaya Pragati',
Off. J. M. Road, Pune 411005
Tel: (+91-020) 2551 2336/7/9 • Fax: (+91-020) 2551 1379

Email: nirali@nirali.com

www.nirali.com

Find us on Facebook: www.facebook.com/niralibooks



PHYTOPHARMACEUTICALS

DR. YADAV - JADHAV - MS. KADAM

PHYTOPHARMACEUTICALS

For Undergraduate And Postgraduate Students
In Pharmaceutical Sciences



Dr. ADHIKRAO V. YADAV
PANKAJ A. JADHAV
Ms. SATWASHILA S. KADAM

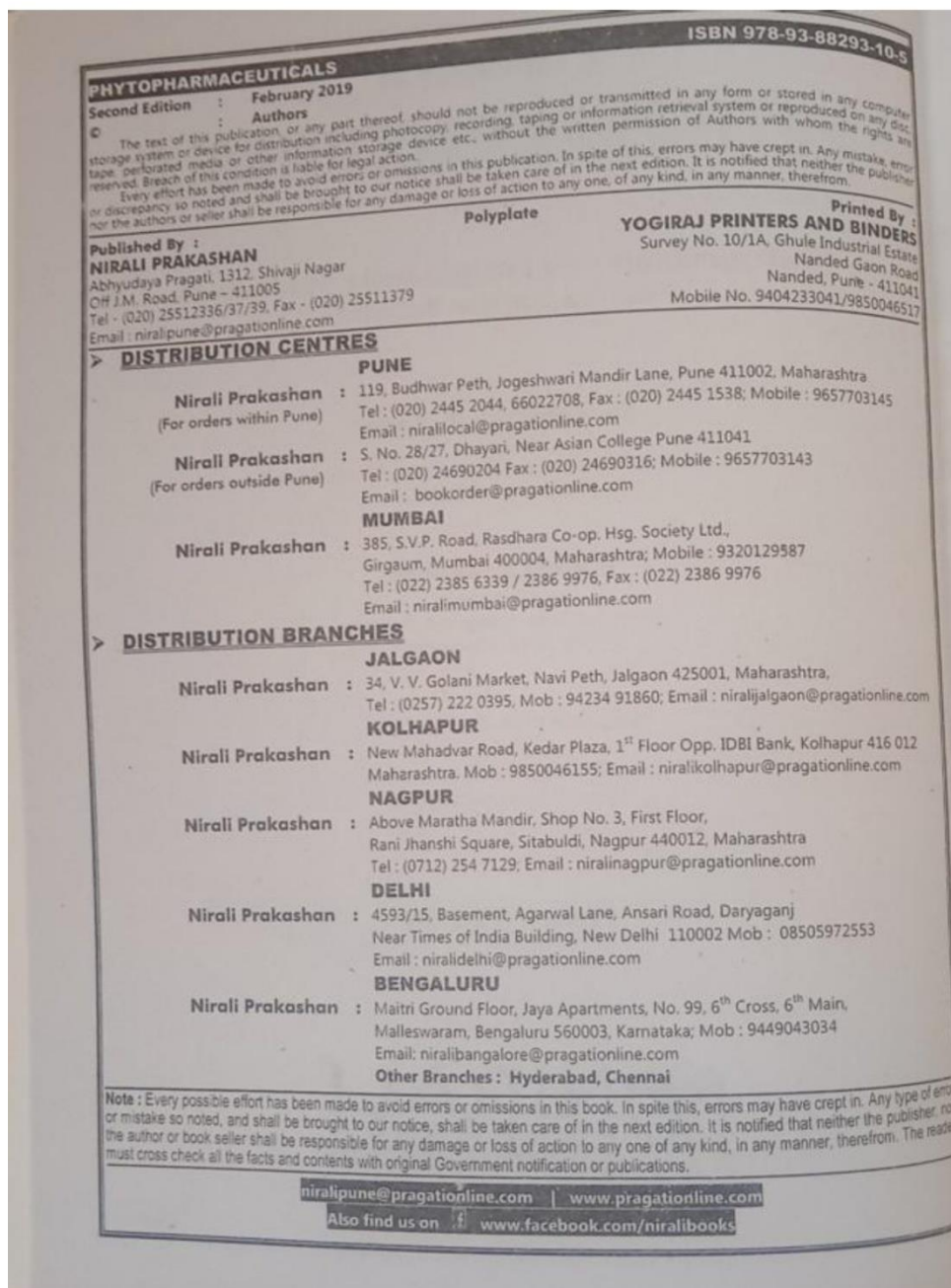




Teerthankar Education Society's Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards





Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Effect of Medicinal Plants against Lung Cancer

12

Suhas Suresh Awati, Gaurav Gupta, Sarita Rawat, Deepa Singh, Sachchidanand Pathak, Yogendra Singh, Santosh Kumar Singh, and Ritu M. Gilhotra

Abstract

Lung cancer is a chronic disease and speaks to one of the greatest health care issues for mankind. It is an illness with a high morbidity and high demise rates. Subsequently, it is regularly connected with a plenty of affliction and general abatement in the quality of life. Just chemotherapy and radiation therapies are now and again effective and in much occasions harmful and deadly. Alternative and less toxic medicine is very considerably essential to this ailment. The goal of this study is to review the medicinal plants having antitumor activity for the management of lung cancer. Medicinal plants are presently standing out as likely wellsprings of anticancer specialists and are broadly utilized because of accessibility of the materials, generally modest, little, or no side effects, wide pertinence, and helpful adequacy which thus have quickened the scientific exploration. The study was directed with lung cancer cell line (Human), on humans and animals, and lung carcinoma (Lewis) was the maximum utilized exploratory model. In this review we have summarized some medicinal plants keep being an abundant wellspring of herbal remedies or bioactive composites against Lung cancer.

S. S. Awati
School of Pharmacy, Suresh Gyan Vihar University, Jaipur, India
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj, Sangli, Maharashtra, India
G. Gupta (✉) · S. Rawat · D. Singh · S. Pathak · S. K. Singh · R. M. Gilhotra
School of Pharmacy, Suresh Gyan Vihar University, Jaipur, India
Y. Singh
Maharishi Arvind College of Pharmacy, Ambabari, Jaipur, India

© The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2021
K. Dua et al. (eds.), *Medicinal Plants for Lung Diseases*,
https://doi.org/10.1007/978-981-33-6850-7_12

285



Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

Editors

Medicinal Plants for Lung Diseases

A Pharmacological and Immunological Perspective

 Springer

Editors

Kamal Dua
Discipline of Pharmacy,
Graduate School of Health
University of Technology Sydney
Sydney, NSW, Australia

Dennis Chang
NICM Health Research Institute
Western Sydney University
Sydney, NSW, Australia

Gaurav Gupta
School of Pharmacy
Suresh Gyan Vihar University
Jaipur, Rajasthan, India

Srinivas Nammi
Discipline of Medical Sciences,
School of Science
Western Sydney University
Sydney, NSW, Australia

Dinesh Kumar Chellappan
Department of Life Sciences,
School of Pharmacy
International Medical University
Kuala Lumpur, Malaysia

Trudi Collet
Faculty of Health
Queensland University of Technology
Brisbane, Queensland, Australia

ISBN 978-981-33-6849-1 ISBN 978-981-33-6850-7 (eBook)
<https://doi.org/10.1007/978-981-33-6850-7>

© The Editor(s) (if applicable) and The Author(s), under exclusive license to Springer Nature Singapore Pte Ltd. 2021

This work is subject to copyright. All rights are solely and exclusively licensed by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.



Teerthankar Education Society's Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

7

Ocular Bioadhesive Drug Delivery Systems and Their Applications

Anju Sharma¹, Mukesh S. Patil², Pravin Pawar³, A.A. Shirkhedkar⁴
and Inderbir Singh^{1*}

¹Chitkara College of Pharmacy, Chitkara University, Patiala, Punjab, India

²Shri D.D. Vispute College of Pharmacy and Research Centre, Devad-Vichumbe,
Panvel, Navi Mumbai, Maharashtra, India

³Annasaheb Dange College of B. Pharmacy, Ashta, Sangli, Maharashtra, India

⁴R.C. Patel Institute of Pharmaceutical Education and Research, Shirpur,
Maharashtra, India

Abstract

Amongst various routes of drug delivery, ocular drug delivery has been one of the most interesting and challenging endeavors encountered by the pharmaceutical scientists for many years. As an isolated organ, the eye is very difficult to study from a drug delivery point of view. Despite these limitations, improvements have been made with the objective of maintaining the drug in the biophase for an extended period. In this chapter, we have summarized the different types of polymers used for ophthalmic formulations. The eye is the most sensitive body organ responsible for vision. So, it is important to carefully deliver the drugs through this route. Natural polymers are promising carriers of drugs due to their favorable properties and can be used to prolong the contact time. The major problem with the ocular disease treatments is to provide and maintain an adequate concentration at the site of action for a long time. The solutions show a very short residence time in the ocular region due to rapid clearance and nasolachrymal drainage. Different formulations have been prepared with polymers to overcome the problems associated with the ocular delivery.

Keywords: Eye, ocular drug delivery, natural polymers, bioadhesion, ocular bioavailability

*Corresponding author: inderbir.singh@chitkara.edu.in

K.L. Mittal, I. S. Bakshi and J. K. Narang (eds.) Bioadhesives in Drug Delivery, (173–212) © 2020
Scriver Publishing LLC

173



Teerthankar Education Society's
Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj

CRITERION 3: Research, Innovations and Extension

3.3: Research Publication and Awards

5

Mucoadhesive Polymers for Drug Delivery Systems

Inderbir Singh^{1*}, Pravin Pawar², Ebanoluwa A. Sanusi³
and Oluwatoyin A. Odeku³

¹Chitkara College of Pharmacy, Chitkara University, Chandigarh-Patiala National Highway, Patiala, Punjab, India

²Gourishankar Institute of Pharmaceutical Education & Research, Limb, Satara, Maharashtra, India

³Department of Pharmaceutics and Industrial Pharmacy, Faculty of Pharmacy, University of Ibadan, Ibadan, Nigeria

Abstract

Mucoadhesive polymer based drug delivery systems offer benefits such as prolonged residence time on the mucosal surface, rapid uptake/permeation of drugs through the mucosal membrane and enhanced bioavailability of the therapeutic agent. In the present chapter, principles, theories and various techniques for the assessment of mucoadhesive interactions at microscopic as well as macroscopic level have been discussed. Furthermore, the classification, categories and examples of different mucoadhesive polymers have been discussed, highlighting their advantages. Novel mucoadhesive polymers viz. lectins and lectin modified polymers, bacterial adhesions, amino acid sequences, thiomers, boronate containing polymers, and grafted polymers have also been discussed.

These polymers offer controlled drug release along with greater degree of target specificity and enhanced mucoadhesive strength of the formulations. Despite several advantages of these polymers in drug delivery systems, toxicity, stability and compatibility issues need to be addressed before full potential of these polymers is realized.

Keywords: Mucoadhesion, mucoadhesive polymers, drug targeting, site specificity

*Corresponding author: inderbirsingh2906@gmail.com