

Research Booklet 2018-2019



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PUBLICATIONS

BOOK/BOOK CHAPTER

1. Dr. Sumit Arora and Dr. Prakash Itankar. **Pharmacognosy of Medicinal Plants**, SBW Publishers, New Delhi, 2019, ISBN – 978-81-85708-93-5.

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2. Shobha Ubgade, Vaishali Kilor, Alok Ubgade, Abhay Ittadwar Chapter authored on the topic "Nanosuspensions as nanomedicine: Current status and Future Prospect" has been published in the book entitled "*Medicinal Chemistry with Pharmaceutical Product Development*" edited by Debarshi Kar Mahapatra and Sanjay Kumar Bharti; published by Apple Academic Press, Toronto 2019; Chapter 4, page no.105-154. ISBN-13:978-1-77188-710-6; 13:978-0-42948-784-2.



RESEARCH/REVIEW ARTICLE

1. N.P. Sapkal, A. Daud. Oral Thin Films: Novel Manufacturing Technology & Its Challenges. **On Drug Delivery Magazine**. 2018; 89: 66-68.

2. M.M. Bodhankar and **S. Chikhale**. Various approaches towards enhancement of bioavailability of Curcumin- A potent Phytochemical, World Journal of Pharmaceutical Research. 2018, 8 (1), 606-626.



WORLD JOURNAL OF PHARMACEUTICAL RESEARCH SJIF Impact Factor 8.074

Volume 8, Issue 1, 606-626.

<u>Review Article</u>

ISSN 2277-7105

VARIOUS APPROACHES TOWARDS ENHANCEMENT OF BIOAVAILABILITY OF CURCUMIN – A POTENT PHYTOCHEMICAL

Dr. Mitali Milind Bodhankar* and Shubham Chikhle

Gurunanak College of Pharmacy, Dixit Nagar, Kampttee Road, Nagpur.

Article Received on 15 Nov. 2018,

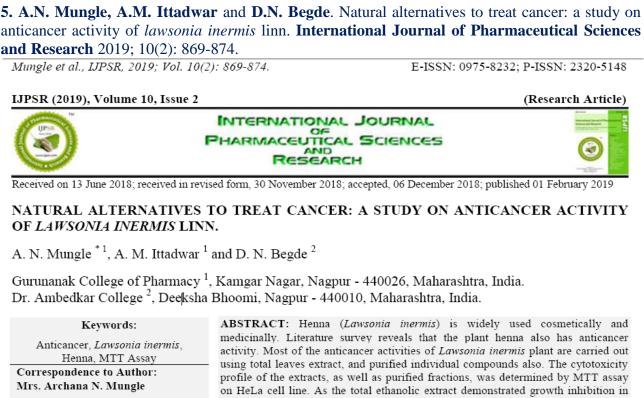
Revised on 06 Dec. 2018, Accepted on 27 Dec. 2018 DOI: 10.20959/wjpr20191-13932

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ABSTRACT

Herbal medicine is the oldest form of health care known to mankind. Turmaric (Curcuma longa Linn), a nature's precious and most popular Indian spice belonging to family zingiberaceae is cultivated throughout the Indian sub continent because of its excellent medicinal properties. Curcumin is a specially gifted molecule provided by Mother-Nature to protect humans from chronic health problem. Although curcumin has shown therapeutic efficacy against many human ailment, one of the major problems with the curcumin is its poor bioavailability, which **3. M. K. Bhurchandi, A. M. Ittadwar, J. G. Chavan.** Subchronic Exposure to Radiofrequency Electromagnetic Radiation Affects the Biochemical, Physiological, Behavioral Functions: A Review. **International journal of Pharmacy and Pharmaceutical Sciences** 2018; 13(2): 166-183.





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AbsTrkAc1. Therma (Lawsonia intermis) is whery used cosmencially and medicinally. Literature survey reveals that the plant henna also has anticancer activity. Most of the anticancer activities of Lawsonia intermis plant are carried out using total leaves extract, and purified individual compounds also. The cytotoxicity profile of the extracts, as well as purified fractions, was determined by MTT assay on HeLa cell line. As the total ethanolic extract demonstrated growth inhibition in cancer cells, attempts were made to isolate the active compound from total ethanolic extract, with potent activity. Lawsone, 2-hydroxy-1, 4-naphthoquinone is the active constituent of Lawsonia intermis (Henna), L. alba, and other species of Lythraceae family. It is reported to posses various medicinal properties. The present study reports the anticancer activity of lawsone, naphthoquinone derivative isolated from the henna leaves, and its predictive conformation by spectral studies. Isolated lawsone was tested for the anticancer activity, which showed significant results.

6. S.R. Dudhakohar and S.R. Walde. Phyto-Chemical extraction and anti-microbial activity of *Selaginella bryopteris*. World Journal of Pharmacy and Pharmaceutical Sciences 2018; 7(11): 1670-1675.

WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCESSJIF Impact Factor 7.421Volume 7, Issue 11, 1670-1675Research ArticleISSN 2278 - 4357

PHYTO-CHEMICAL EXTRACTION AND ANTI-MICROBIAL ACTIVITY OF SELAGINELLA BRYOPTERIS

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Article Received on 18 September 2018, Revised on 08 October 2018, Accepted on 29 Oct. 2018, DOI: 10.20959/wjpps201818-12709

*Corresponding Author Swapnil R. Dudhakohar Guru Nanak College of Pharmacy Nari, Kamptee Road, Nagpur-440026,

ABSTRACT

The present study was performed to determine the preliminary antimicrobial activity of *Selaginella Bryopteris* belonging to family *Selaginellaceae*. The antibacterial activity of the methanolic extract was done some standard bacterial strains such as *Staphylococcus aureus*, *Bacillus subtilis* and *Escherichia coli*. The testing was done by the agar cup plate method. Zone of Inhibition of extract was compared with standard Gentamicin. Results indicate that 50 mg/ml methanolic extracts showed the maximum inhibitory effects against *E. coli* (7mm). **7. T.M. Rasala, S. Dani, S.B. Waikar, A.M. Ittadwar**. Formulation and Evaluation of Aloe Vera Gel and Film from Fresh Pulp of the Leaves of *Aloe barbadensis*. American Journal of Pharmacy & Health Research 2018; 6(11): 1-9.



Research Article AMERICAN JOURNAL OF PHARMACY AND HEALTH RESEARCH www.ajphr.com

2018, Volume 6, Issue 11 ISSN: 2321–3647(online)

Formulation and Evaluation of Aloe Vera Gel and Film From Fresh Pulp of the Leaves of Aloe Barbadensis

Tirupati Rasala*, Shivani Dani, Shekhar Waikar, Abhay Ittadwar. Gurunanak College of Pharmacy, Dixit Nagar, Behind CP Foundary, Nari, Nagpur-440026

ABSTRACT

The historians have recorded many applications of aloe species both in the medical field as well as in cosmetics. It is used to heal burns, to prevent blisters for the treatment of wounds and in various kinds of damaged skin. Burns are serious traumas related to skin damage, causing extreme pain and natural drugs such as Aloe vera is beneficial in formulations for wound healing. The aim of this work is to develop and evaluate polymeric films containing Aloe Vera crude extracts to smoothen and treat minor wounds caused by burns. Polymeric films containing different quantities of HPMC and polyvinyl alcohol (PVA) were characterized for their mechanical properties. The polymeric films, which were formulated, were found to be thin, flexible, resistant, and suitable for application on damaged skin, such as in burns & wounds. The formulated gel was evaluated for evaluations parameters were thickness, tensile strength and water vapour permeability. general appearance, homogeneity, pH, spreadability test, washed test and skin irritation test. Film

8. S.A. Ubgade, V.A. Kilor, V. Bahekar, A.M. Ittadwar. Formulation development of immediate release pellets of Tadalafil:Solidification Approach for Nanosuspension. **International Journal of Applied Pharmaceutics** 2019; 11(4): 124-131.



International Journal of Applied Pharmaceutics

ISSN- 0975-7058

Vol 11, Issue 4, 2019

Original Article

FORMULATION DEVELOPMENT OF IMMEDIATE RELEASE PELLETS OF TADALAFIL: SOLIDIFICATION APPROACH FOR NANOSUSPENSION

SHOBHA UBGADE*, VAISHALI KILOR, VIDYA BAHEKAR, ABHAY ITTADWAR

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Received: 01 Feb 2019, Revised and Accepted: 26 Apr 2019

ABSTRACT

Objective: Nanosuspension is known to enhance the saturation solubility and dissolution velocity of poorly soluble drugs owing to the increased surface area of nanosized particles. Stability of these solubility enhancing systems can be improved by converting them into solidified forms. To simultaneously achieve enhanced dissolution and improved stability, an attempt has been made to increase the dissolution rate of poorly soluble drug tadalafil by formulating immediate release pellets of its nanosuspension.

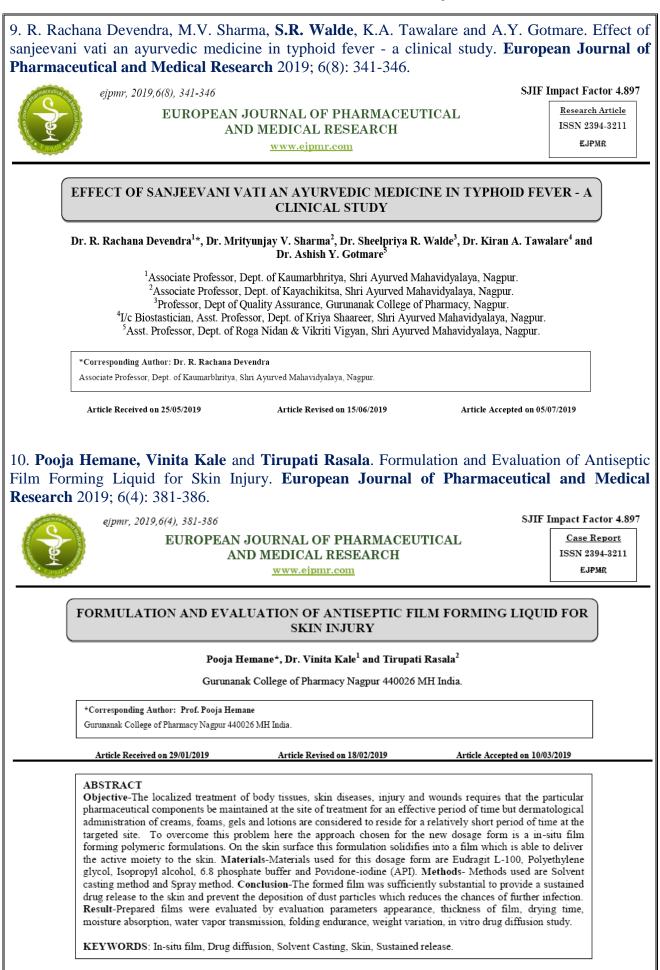
Methods: Tadalafil nanosuspensions were prepared using high shear homogenization technique and hydroxypropyl methylcellulose (HPMC) E 15, sodium dodecyl sulphate (SDS) as stabilizers. Prepared nanosuspensions were subjected to the characterization of particle size distribution, zeta potential, drug loading and saturation solubility. Optimized nanosuspension was solidified by preparing immediate release pellets: for improved stability, where tadalafil nanosuspension was used as a binder. Pellets were prepared by extrusion-spheronization technique using κ -carrageenan as a pelletizing aid.

Results: Prepared immediate release pellets disintegrated within 03 min. *In vitro* dissolution studies showed 85% drug release within 45 min in pH 1.2 buffer from immediate release pellets containing tadalafil nanosuspension.

Conclusion: It can be concluded that formulation of nanosuspension of poorly soluble drug and its use as a binder for the preparation of immediate release pellets markedly improved the dissolution rate.

Keywords: Tadalafil, Nanosuspension, Immediate release, Dissolution enhancement, Solidification

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11. Nidhi Sapkal, Mangesh Gawande, Minal Bonde, Anwar Daud. Studies on effect of formulation and processing parameters on stability of Ketorolac Tromethomine Orally Dissolving Films. International Journal of Applied Pharmaceutics. 2019; 11(4): 230-235.



International Journal of Applied Pharmaceutics

ISSN- 0975-7058

Vol 11, Issue 4, 2019

Original Article

STUDIES ON EFFECT OF FORMULATION AND PROCESSING PARAMETERS ON STABILITY OF KETOROLAC TROMETHAMINE ORALLY DISSOLVING FILMS

NIDHI P. SAPKAL^{1*}, MINAL N. BONDE², MANGESH GAWANDE², ANWAR S. DAUD²

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Received: 13 Jan 2019, Revised and Accepted: 10 May 2019

ABSTRACT

Objective: The objective of the proposed work was to study the effect of various formulation and process parameters of solvent casting method on the physical and chemical stability of Ketorolac Tromethamine (KT) in the orally dissolving film dosage form.

Methods: KT-excipient interaction study was carried out both in solid state and by processing samples through the solvent casting technique. The samples were evaluated using IR spectroscopy (IR) and X-ray diffractometry (XRD). Solvent casting method was used to prepare KT films using different film-forming polymers, and solvents. The drying temperature and pH of the dispersion were also varied to study the effect of these parameters on the stability of KT. All the formulations were analysed chemically initially and after one month of storage at 40 $^{\circ}C/75\%$ RH.

Results: During KT-excipient interaction study in solid state KT was found to be stable. No significant changes were observed in its impurity profile. Interaction between different polymers and KT was observed after the solvent casting process as revealed by IR and XRD analysis. The interaction was further confirmed in the film formulations upon chemical analysis. The polymers showing interaction with KT in XRD and IR were making it unstable chemically and were responsible for its chemical degradation as revealed by chemical analysis. It was also revealed that KT is most stable when processed using water as the solvent. KT was found to be stable when processed at a higher temperature and at acidic pH during film formation. It was found that chemical stability is more when Polyethylene oxide (PEO) and water under acidic pH are used and films are dried at a higher temperature.

Conclusion: Both formulation parameters and processing conditions of the solvent casting technique affects the stability of drugs and hence should be studied as part of pre-formulation studies while developing orally dissolving films of drugs.

Keywords: Ketorolac, Tromethamine, Orally dissolving films

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PRESENTATIONS

- **Priya Dule, Vaishali Kilor, Nidhi Sapkal,** Minal Bonde, Anwar Daud; Development of PEO drug loaded filaments using Hot Melt Extruder for 3D printing of pharmaceuticals presented poster at Young Scientist Conference held during India International Science Festival held at Lucknow during 5th to 8th Oct, 2018.
- **Priya Dule, Vaishali Kilor, Nidhi Sapkal**, Minal Bonde, Anwar Daud. Preparation and evaluation of drug loaded polymer filaments for 3D printing of tablets. Presented poster at NBRcom -2018, held at Rishikesh on 15th Oct, 2018.
- Vinita Kale, Pooja Yadav, Shalakha G. Sahare, Rajat S. Pahwa*, A.M. Ittadwar; Chewable lozenges formulation for alertness during driving; presented poster at National Conference On Integrative Approach Towards Ayurved Practice (29th - 30th Sep 2018).
- Vinita Kale, Rohini Rakshak, Pradeep Dugane; Modified starch as film forming material for pharmaceutical/ cosmetic application; presented poster at International Conference On Multifunctional Advanced Material Icmam-2018, organized by Kamla Nehru Mahavidyalaya, Nagpur and Dharampeth M. P. Deo Memorial Science College, Nagpur held at Kamla Nehru Mahavidyalaya, Nagpur during 5th to 7th October, 2018
- Vinita Kale, Shubhangi Mohije, Ashish Zanvar; Development of Chitosan- Gelatin composite as film forming excipient presented poster at International Conference On Multifunctional Advanced Material Icmam-2018, organized by Kamla Nehru Mahavidyalaya, Nagpur and Dharampeth M. P. Deo Memorial Science College, Nagpur held at Kamla Nehru Mahavidyalaya, Nagpur during 5th to 7th October, 2018

RESEARCH GUIDANCE

Sr.	Name of student	Торіс	Name of guide	
No.		· K ·		
M. P	M. Pharm. (Pharmaceutics)			
1	SIMRAN	Formulation and evaluation of solid dosage form	Dr. S. B.	
	RAJENDRA PAL	using natural rosin as an excipient	Waikar	
2	SHUBHANGI S.	Formulation and evaluation of tablets using	Dr. S. B.	
	DAHALE	Boswellia serrata gum as an excipient	Waikar	
3	SHRADDHA R.	Formulation and evaluation of sustained release dosage form using gum copal and gum dammar as	Dr. S. B.	
	SHAHU	an excipients	Waikar	
4	RACHANA	Formulation and evaluation of transdermal patch	Mr. A.H.	
	B.KSHIRSAGAR	for prevention and treatment of thrombophlebitis	Deshpande	
5	VIDHYA R. PATIL	Formulation and evaluation of wax beads by melt solidification technique	Mr. A. H. Deshpande	
6		Formulation and evaluation of microparticulate	Mr. A. H.	
	ROHIT KUMAR	drug delivery system of 'melissa officinalis	Deshpande	
		oil'(lemon balm oil)	1	
7	RAJAT S. PAHWA	Development of foam granulation powders : To	Dr.V. V. Kale	
	1.	study the effect of compression behaviour		
8	ROHINI M.	Development and evaluation of oral diskettes for	Dr.V. V. Kale	
	RAKSHAK	dental disorders for paedriatic populations.		
9	SHUBHANGI S.	Development and evaluation of medium chain	Dr.V. V. Kale	
	MOHIJE	triglycerides as permeability enhancer for poorly		
		permeable drug/s		
10	PRIYANKA T. BHAISARE	Development of discriminating dissolution method for sildenfil citrate tablet formulations	Dr. V. A. Kilor	
11	ADITI M. BAPAT	Investigation of effect of various stabilizers on the	Dr. V. A. Kilor	
		stability of lansoprazole nanosuspension.		
12	SUVARNA A.	To prepare topical formulation of <i>Calotropis</i>		
	ASARE	<i>gigantea</i> leaf extract for the treatment of inflammation	Dr. V. A. Kilor	
13	SHALAKHA G.	Combination therapy for the treatment of Bacterial	Dr. M. M.	
	SAHARE	Vaginosis containing Probiotics	Bodhankar	
14		Novel Approach to colonic delivery in the	Dr. M. M.	
	PRANITA R. KALE	treatment of ulcerative Colitis.	Bodhankar	

15	SAURABH P.	Formulation and Evaluation of medicated paint for	Dr.A M.		
	BAGDE	the treatment of topical infections	Ittadwar		
16	APURVA D.	Development of chewable formulation for sore	Dr .S. K. Tiloo		
	POKALE	throat			
M. P	harm (Quality Assurance	ce)	•		
1	APURVA	Extraction and Isolation of Ohytoconstituent An	Dr. S. R. Walde		
	R.SHUKLA	Pharmacological Screening of Salacia Oblong Plant			
		for its Antimicorobial Activity			
2		Fomulation and Characterization of Sustained	Dr. S. R. Walde		
	PAYAL S. WATH	Release Drug Pallets of Valproic Acid By Melt Spray Congealing			
3		Formulation, Characterization and Evaluation of	Dr. S. R. Walde		
5	RAKHI M.	Coenzyme Q10 Solid Dispersion Microparticles By	DI. S. K. Walde		
	SARPATE	Melt Spray Congealing			
4		Preparation and Evaluation of Formulation for	Dr. S. R. Walde		
	MANMAY	Treatment Of Kidney Stone And Calcium			
	MAKKAD	Defeciency			
5	MANSI C.	Extraction and Isolation of Phytoconstituents and			
	KANCHANWAR	Pharmacological screening of passiflora Foetida	Dr. S. R. Walde		
	MINCHINA	Linn. Plant for its Antimicrobial Property			
6	SWAPNIL R.	Development and Validation of Analytical Method	Dr. S. P.		
	DUDHAKOHAR	for The Estimation of Efonidipine Pharmaceutical	Padmane		
		Dosage Form			
7	PAYAL A.	Formulation and Evaluation of Oral	Dr. S. P.		
0	THAKUR	Nanodispersion Of Fat Soluble Vitamin D3	Padmane		
8	YOGITA P KHADE	Formulation and Evaluation of Immediate Release	Dr. S. P. Padmane		
9		Sprinkle Capsule Formulation and Evaluation of Spherical Solid Dry	Dr. S. P.		
7	SNEHA S. HEDAU	Microparticle Using Melt-Spray Congealing	Padmane		
10		Extraction and Isolation of Phytoconstituents of			
10		Passiflora foetida Linn. Plant and its	Dr. S. P.		
	ANJALI J. PATIL	pharmacologyical Screening for Anti-anxiety	Padmane		
		Activity			
M. P	M. Pharm (Pharmaceutical Chemistry)				
01	MUJAHID UL	Preperation and characterization of ionic liquids of	Dr. S. B.		
	KHAIR	some APIs	Waikar		
02	SWAPNIL A.	Preparation and characterization of stable salt form	Dr. S. B.		
	DESHMUKH	of some API's	Waikar		

B. P	B. Pharm. Students			
Sr.	Name of student	Торіс	Name of guide	
No.				
01	ABHILASHA ARUN	Preparation of Charcoal Mask	Mr. K. S.	
	ROKADE		Moharir	
02	ADITI RAJESH	Review of marketed monoclonal antibodies.	Mr. D. P.	
	GUPTA		Dharkar	
03	ADITI RAVINDRA	Biomaterial/s use in Packaging.	Dr. V. V. Kale	
	SELOKAR			
04	ANKITA	"Doctrine of Signature: The God's own	Dr. A. M.	
	AMBIKAPRASAD	formulation."	Ittadwar	
	SHAHU			
05	APURVA RAJU	Literature survey on Pharmacogenetics.	Mrs. M. K.	
0.6	NAGDEVE		Bhurchandi	
06	ASHWINI D.	Natural Sources of Antioxidants.	Dr. S. R.	
07	CHANDIMESHRAM		Walde	
07	BHAKTI RAM KADU	Management & Utilization of Waste: A review	Mrs. A. N.	
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08	CHARUSHEELA	Review of Quality Control & Quality Assurance & Validation Process used in Pharmaceutical	Dr. A. M. Ittadwar	
	SUNIL GIRI	Industry	Ittatiwai	
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	PARDHE		Jacob	
10		Preliminary Phytochemical Screening & TLC	Dr. S. B.	
	DOLLY JAYESH	studies of extract of Operculina Terpethum.	Waikar	
	MUKHI	(Nishoth)		
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	BANSOD	(Review)	Gondane	
12	ESHA SANJAY JAIN	Preparation of Micellar Water.	Mr. K. S.	
	LSHA SANJA I JAIN		Moharir	
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	KEWALRAMANI	System.		
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	GHANSHYAM	Paediatric use.	Ubgade	
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15	KARISHMA SURESH	Formulation & Evaluation of Herbal Oral	Mr. T. M.	
	ASNANI	Dissolving film for the treatment of Mouth	Rasala	
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		Ulcers.	
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	BALBUDHE	Spreng seeds. (Family: Mimosaceae)	Pande
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	MESHRAM	Pharmaceutical Development: A review	Jacob
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	CHAKOLE	Tetrastromatica: A review	
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	NINAVE		Dharkar
20	MINAKSHI	A review on Phytochemical & Pharmacological	Ms. P. G.
	WAGHMARE	Potential of Rauwolfia Serpentina.	Gondane
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	SHAMBHARKAR	polymer films.	Bhelkar
23	PALLAVI SATISH	Linseed mucilage as film forming agent in film	Mr. T. M.
	SAUJANI	formulation	Rasala
24	PAYAL BARASU	"Illustrative & Effective Visual Study of Tablet	Mr. G. K.
	KSHIRSAGAR	Dosage Form"	Lohiya
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	DHANDE	Stuff	Manapure
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	SHANKARRAO	Formulation	Bodhankar
	MATE		
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			Gondane
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	MESHRAM	Sterilization"	Lohiya
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		in curculigo orchioides family: Amaryllidaceae	
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	NASARE	compliance to Insulin therapy in Diabetic patient	Ubgade
		in Nagpur region.	
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	SHAHU	Flemingia Strobilifera: A review	
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	SURENDRA	for Pharmaceutical Dressing.	Bhelkar
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