

भैषज संदेश

BHAISHAJ SANDESH



Newsletter Published By Columbia Institute of Pharmacy, Raipur, (C.G.), India

NBA Accredited UG Programme (B. Pharm.)

CPCSEA (New Delhi) approved lab for breeding & experimentation of small animals

DST-FIST, GOI sponsored PG Programme

Message from Editor's Desk

Welcome to all the readers.....

We are very happy to introduce volume VI of 11th edition of our bimonthly news letter. As we all know, a newsletter mirrors a college- its vision and mission. It also highlights the event, activities, academic progress and achievements of students. Contribution of teachers and other crucial information related to Pharmacy field are also incorporated in it. In this edition, we have tried to capture the last two months activities. I do hope that the newsletter encourages many more including students to use it as a platform to express their creativity. Please feel free to offer any suggestion for improvement.

Sincerely

Dr. Ravindra Pandey

CONTENTS

- Message from Editor's Desk
- Columbia Institute of Pharmacy
- National Pharmacy week 2024
- Blood Donation Camp
- Foundation Day Celebration
- Orientation Program
- NSS Activities
- Saturday Activities
- Achievements
- Details of funding agencies
- Causerie
- GPAT Quiz
- Students' Thought
- New drug approval 2024
- Less Known Facts about Traditional Food
- Plants with Health Benefits
- Inspiring Quotes
- Published News
- Upcoming Event

Editorial Board

1. Dr. Ravindra Kumar Pandey
Professor, CIP, Raipur
2. Dr. Disha Kesharwani
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3. Mr. Gunjan Kalyani
Assistant Professor, CIP
4. Ms. Suman Sen
B. Pharm 5th Sem

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Columbia Institute of Pharmacy

It's a great pleasure to introduce Columbia Institute of Pharmacy, which is Synonymous to ultimate in Pharmacy education in the state of Chhattisgarh. Columbia Institute of Pharmacy, Raipur is run and managed by Jan Pragati Education Society (JPES), established in the year 2003. Innovation excellence & quality are the driving forces on the vision of Columbia Institute of Pharmacy which has a rich proud heritage of academic excellence. The campus is lavishly spread over acres of lush green land and situated 14 km away from the hustle bustle of the city and just 4 km away from Chhattisgarh state assembly setting unabated efforts to add value in Pharma, Engineering and Management education.



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National Pharmacy Week 2024

Columbia Institute of Pharmacy celebrated 63rd National Pharmacy Week (NPW) 2024 From 18 November to 23 November and theme of NPW was “Think Health, Think Pharmacy”. The inaugural program was ornamented with the esteemed presence of Prof. S.J. Daharwal, Director, UIOP, Pt. R. S. U. Raipur as “Chief guest”, Dr. Tripti Jain, Assistant Drug Controller, Mahasamund, FDA, Raipur as “Guest of honour”, and Mr. Sumit Dewangan, Drug Inspector, Dhamtari, FDA, Raipur as “Special guest”. They motivated the students for becoming a good Pharmacist as well as a good human being through their speech. They also provided various advanced informations about the field of Pharmacy. Institute organized various events for students including poster presentation, video making competition, 3D model, medicinal garden decoration, pot decoration medicinal plant competition, anchoring, singing, dance, and extempore competitions. The chief guest was felicitated with Shawl, Shreefal and Memento. During the event Shri Harjeet Singh Hura, Secretary Janpragati Education Society and Prof. Ravindra Kumar Pandey, Principal, Columbia Institute of Pharmacy along with all faculty members were present.



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Blood Donation Camp

In Association with AIIMS Raipur, Blood Donation and Health Camp was organized by Columbia Group of Institution, Raipur on 29/11/24. A total of 50 units of blood were donated by students, volunteers and faculty. 13 volunteers were from Columbia Institute of Pharmacy.



Foundation Day Celebration

On November 30, 2024, the Columbia Group of Institutions celebrated its 21st Foundation Day of Janpragati Education Society with great enthusiasm and joy. This day was dedicated to the achievements of the institution over the past 21 years and its glorious journey as well as an inspiration for setting new goals and achieving greater success in the future.

The programme commenced on a grand note in the college premises with the lighting of the ceremonial lamp and worship of Goddess Saraswati by the founding members of the institution, Mr. Kishore Jadhvani, Chairman, JPES, Mr. Harjeet Singh Hura, Secretary, JPES and Mr. Ravinder Singh Hura, Treasurer, JPES along with the principals of various colleges of the group. Ms. Anamika Singh, Vice Principal, Columbia College of Nursing, shared important insights related to the progress and achievements of the institution on this occasion. Following this, Mr. Kishore Jadhvani appreciated the efforts of all the principals and staff members of the group and wished for continued excellence in the future. Mr. Harjeet Singh Hura reflected on the initial journey of JPES, the challenges faced, and the milestones achieved, expressing aspirations for further growth of the group. Mr. Ravindra Singh Hura discussed the challenges and plans for the group's future. Subsequently, the best teaching and non-teaching staff from all the colleges were felicitated. Dr. Disha Kesharwani was awarded with "Teachning Excellence Award" for this year and Mrs. Abhilasha Somawar was awarded for "Best Non-Teaching Staff Award". The programme was filled with energy and excitement, featuring various sports competitions, and winners were awarded for their achievements.

On this occasion, Dr. S.K. Moulick, Principal, Columbia College of Engineering, Dr. Surendra Saraf, Principal, Columbia College of Pharmacy, Dr. Ravindra Pandey, Principal, Columbia Institute of Pharmacy, Dr. Anita Dhagamwar, Principal, Columbia College of Nursing, Dr. Arun Kumar Dubey, Principal, Columbia College, Mr. Anand Srivastava, Principal, Columbia College of Science and Commerce, Mr. Ivan Smith, Principal, Columbia Global School, Dr. Abha Dubey, Vice Principal, Columbia College, Prof. Shiv Shankar Shukla and Dr. Beena Gidwani, Columbia Institute of Pharmacy, and Dr. Ashish Manjhumdar of Columbia College of Pharmacy were present. Additionally, all heads of departments, teaching, and non-teaching staff actively participated in the event.



Columbia Institute of Pharmacy, Raipur

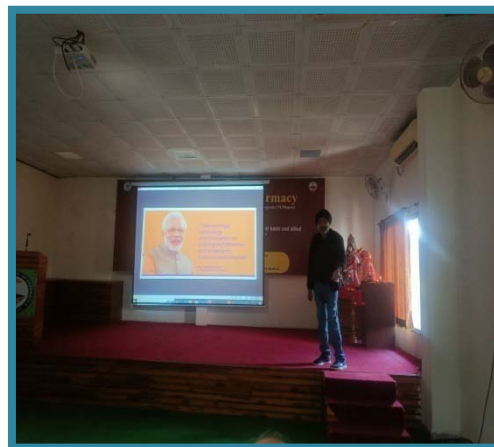
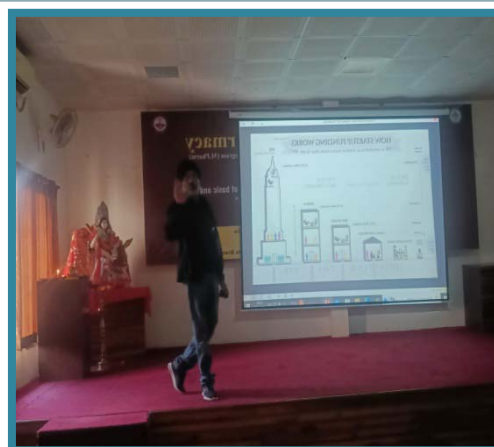
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Orientation Program

Columbia Institute of Pharmacy, Raipur organized 14th orientation program on 17/12/24 for newly admitted pharmacy aspirants of diploma, degree and masters in pharmacy. Orientation marks a successful beginning of any college session as it assures to the new students that they made a good decision in their choices. The program was ornamented with the presence of Honourable Prof. Saranjit Singh as our chief guest. Sir is former Director, Dean and Professor and Head of the Department of Pharmaceutical Analysis of the National Institute of Pharmaceutical Education and Research (NIPER), Mohali, Punjab. Presently sir is acting as an industry consultant and trainer. Shri Kishor Jadwani, Chairman, Jan Pragati Education society, Shri Harjeet Singh Hura, Secretary, Jan Pragati Education Society, Prof. Ravindra Kumar Pandey, Professor and Principal, Columbia Institute of Pharmacy Dr. Surendra Saraf, Principal, Columbia college of Pharmacy, all the faculty members of CCP and CIP and first year students were also present in the program. The program was started with Saraswati Pooja followed by addresses to the gathering by the dignitaries. Inagural program was ended with vote of thanks by Prof. Ravindra Kumar Pandey, Principal, CIP. After Inagural Ceremony the session was started for the budding pharmacists. The lecture was very knowledgeable and full of practical experiences. Sir also shared his life experience that was very inspirational. Students well interacted with sir and get the answers for their queries. The program ended with felicitation ceremony of our eminent guest with shawl and shreefal.



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NSS Activities

National Unity Day

The NSS unit of Columbia Institute of Pharmacy, took pledge on the occasion of National Unity Day on 06/11/24 as it was a holiday on 31/10/24 on the occasion of Diwali.



National Education Day

National Education Day is celebrated every year on 11/11/24 in honour of Maulana Abul Kalam Azad, India's first Education Minister. Columbia Institute of Pharmacy Raipur celebrated National Education Day, the birth anniversary of India's great freedom movement leader, Maulana Abul Kalam Azad. Quiz Competition based on General knowledge and Science was organized for students where they actively participated.



Spardha

One day Interschool Sport competition "Spardha" was organized by Columbia Group of Institutions, Raipur with Rotary Club, Greater Raipur on 23/11/24. Various sports activities were programmed including table tennis, volleyball, kabaddi and tug of war. All the NSS volunteers, were involved in various management activities.



National Integration Week

On occasion of "National Integration Week", A speech competition was organized on 25/11/24 by NSS unit of Columbia Institute of Pharmacy, Raipur. Volunteers also took pledges.



National constitution Day

National Constitution Day 2024 was celebrated by NSS Unit of Columbia Institute of Pharmacy, Raipur on 26/11/24. Volunteers taking pledge and participated in poster making competition & speech competition.



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Saturday Activities

Poster Presentation Competition

Columbia Institute of Pharmacy organized poster presentation competition on theme “business startup and innovation” on 02/01/24. All the students participated and explained their content in the form of Posters. The event was judged by Mr. Shailendra Kumar Sharma & Dr. Shashikant Chandrakar.



Informative Lecture

Columbia Institute of Pharmacy [CIP], Raipur in association with Indian Pharmaceutical Graduate Association [IPGA] Raipur, organized lecture on 30/11/24 by Dr. Trilochan Satapathy HOD and Professor Pharmacology Department, Columbia Institute of Pharmacy, Raipur. He gave a brief knowledge and information about life style modification and peptic ulcer disease. He told about causes prevention and precautions for peptic ulcer by modifying our lifestyle.



Sports Events

Sports were organized including kabaddi and tug of war at CIP campus on 07/12/24 and 14/12/24. All the students participated in the games enthusiastically.



Health camp

Columbia Institute of Pharmacy [CIP], Raipur in association with Indian Pharmaceutical Graduate Association [IPGA] Raipur, hosts a health camp in collaboration with ayurvedic college at CIP campus on 14th December 2024. The goal was to offer health services, including general health check-ups, screenings for common diseases, about maintaining a healthy lifestyle.



Veer Bal Divas Calebration

Veer Bal Divas was celebrated on 26th December 2024 at CIP Campus. In which Mr. Sagar Sahu told the students Veer Bal Divas, celebrated on December 26 every year, is a day dedicated to the memory and bravery of the youngest martyrs in Sikh history – Sahibzada Zorawar Singh and Sahibzada Fateh Singh, the sons of Guru Gobind Singh Ji, the 10th Guru of Sikhism.



Fetch the Library

Fetch the library was organized on 28/12/24. All the students visited the entire campus, various journals, books and posters in the library. After this, a quiz competition was organized for the them to observe how much knowledge they gained from this event



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ACHIEVEMENTS

Paper Publication

1. **Prof. Shiv Shankar Shukla** published a paper titled **“Bisoprolol Fumarate: An Exploration on its Properties and Analytical Methods”** in **Palestinian Medical and Pharmaceutical Journal**, under **Bentham Sciences Publications**, 2024; 9(4), along with, **Prof. Ravindra Kumar Pandey, Dr. Bina Gidwani, Mr. Manoj Verma, and Dr. Swati Pandey.**
2. **Dr. Trilochan Satapathy**, published a paper titled **“Post Invasional Host Interaction Consequences of Monkey Pox Virus and its Advanced Treatment: A Mechanism Based Review”** in journal **“Research Journal of Pharmacology and Pharmacodynamics”**, **A and V Publications**, 2024; along with, **Abinash Satapathy, Neha Yadav, Kalpana Sen, Shailesh Sahu and Bharati Pradhan.**
3. **Dr. Trilochan Satapathy**, published a paper titled **“Efficient and Safe Induction of Diabetes in Experimental Animals: A Review on Alternative Models and Techniques”** in journal **“Journal of Lab Animal Research”**, 2024; 3(5), along with, **Ms. Kalpana Sen.**
4. **Dr. Trilochan Satapathy, Mr. Shiv Kumar Bhardwaj and Ms. Ayushi Gupta** published a paper titled **“H9N2: A Mysterius Avian Influenza Virus: A Global Threat for Respiratory Pneumonia ”** in journal **“Journal of Alternative Complementary and Integrative Medicine”**, **URF Publisher**, 2024; along with, **Darshna Rathi, Anjali Minj and Laxmi Sahu.**
5. **Dr. Bina Gidwani** published a paper titled **“Nanostructure Properties and Potential Biomedical Applications of Nelumbo nucifera Gaertn Extracts”** in **Archieves of Nanomedicine and Nanotechnology**, 2024; along with, **Rakesh Sahu and Bhaskar Sahu.**
6. **Dr. Monika Bhairam** published a paper titled **“Spirulina as functional food: insights into cultivation, production, and health benefits”** **Journal of Applied Pharmaceutical Research**, 12(5), pp.28-50. along with **Akant Kumar Verma, Kajal Dewangan, Leena Daunday, and Kriti Naurange.**
7. **Ms. Ayushi Gupta** published a paper titled **“*Helicobacter pylori*- induced Duodenal Ulcer: An Experimental Animal Model for Scientific Research**, in journal **“Micro and Nanosystems”**, under **Bentham Sciences Publications** along with **Dr. Trilochan Satapathy.**

Conferences Attended

1. **Mr. Mahendra Sahu** participated in **National Seminar on “Recent Trends and Future Prospects of Traditional Indigenous Medicinal Plants for Drug Development”** organized by **Department of Pharmacy, Shri Rawatpura Sarkar University, Raipur**, on 21st & 22nd November 2024.
2. **Mr. Rahul Kumar Goswami and Mr. Mahendra Sahu** participated in **2nd International Multidisciplinary Conference 2024** organized by **Shri Shankaracharya Professional University, Bhilai**, on 28th & 29th November 2024.
3. **Mr. Mahendra Sahu** participated in **73rd, 74th, 75th, 76th, and 77th SPSR International Webinar** organized by the **Society of Pharmaceutical Sciences and Research (SPSR)**, 24/11/2024, 1/12/2024, 8/12/2024, 15/12/2024 and 22/12/2024.

Guest Lecture

1. **Mr. Sagar Sahu** delivered a **Guest lecture** in **NSS seven days camp** on 09/11/24 organized by **NSS unit of Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg**, in village **Pahanda** under the theme **“Swachh Bharat Abhiyan and Jal Sakti Abhiyan** from 8th November 2024 to 14th November 2024.

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Details of Funding agencies

S. No.	Funded by	Scheme	Amount	Deadline	Source of information
1.	Department of science and technology (DST)	WISE-SCOPE Fellowship	Rs 55000/- month, Rs 2 Lakhs Contingency	31 August 2025	www.onlinedst.gov.in
2.	Department of science and technology (DST)	India-UK Collaborative R&D for Industrial Sustainability	Up to Rs 75 Lakhs	12 February 2025	www.onlinedst.gov.in
3.	Chhattisgarh Council of Science & Technology (CCOST)	Organizing Seminar/Workshop/Symposium	Maximum amount: Regional Level Rs. 35,000/-, National Level Rs. 50,000/-, International Level Rs. 1,00,000/-	Round the year	https://ccost.cg.gov.in/
4.	Chhattisgarh Council of Science & Technology (CCOST)	Mini Research Project	5 Lakh, 2 Lakh Contingency	Up to March 2025	https://ccost.cg.gov.in/
5.	Department of Biotechnology (DBT)	Biotechnology Career Advancement and Re-Orientation (Biocare) Programme	55000 per Month+HRA+contingency	15 December 2024	https://dbtindia.gov.in/

Causerie

Indigenous traditional knowledge with medicinal value within a legal framework

Recognizing traditional knowledge with medical value among Indigenous people is indispensable to sustaining their way of life. However, legal complexities and challenges exist in recognizing the medical value of traditional knowledge, as it is orally transmitted and thus undocumented. While a global solution to such difficulties cannot employ a “one size fits all” approach and invokes multifaceted solutions within national regulatory and policy contexts, India has shown progress in this area. Yet, appropriate guidelines for incorporating the diverse medical knowledge of Indigenous people under a coherent framework must be developed so that Indigenous people can enjoy, and utilize, their rights regarding this knowledge. The objective was to unfold the current situation of traditional medicinal value among Indian Indigenous communities and find ways of recognizing this knowledge within India’s intellectual property rights (IPR) legal regime. The present study was based on secondary data sources. There should be a multi-tiered approach to documenting traditional medical knowledge, sensitive to regional diversities within India, as a necessary precursor to legal recognition. Therefore, a human rights approach, particularly from the viewpoint of cultural rights, could be a best fit both to recognize the traditional knowledge as a cultural right and to offer the community as the right holder of the knowledge. Hence, appropriate guidelines to that direction should be formulated for incorporating the dispersed traditional medical knowledge of Indigenous people under a coherent framework so that they can enjoy, and utilize, their rights to this knowledge especially in the diverse Indian context.

Mr. Gunjan Kalyani
Assistant Professor,
Columbia Institute of Pharmacy, Raipur

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GPAT Quiz- 23

1. Precursor of Insulin called Proinsulin contain.....amino acid
 - a. 68
 - b. 86
 - c. 79
 - d. 97
2. Oily injection are sterilized by
 - a. Dry heat sterilization
 - b. Tyndallisation
 - c. Autoclaving
 - d. U.V. radiation
3. What quantities of 95 % v/v and 45 % v/v alcohols are to be mixed to make 800 mL of 65 % v/v alcohol?
 - a. 480 ml of 95 % and 320 ml of 45 % alcohol
 - b. 320 ml of 95 % and 480 ml of 45 % alcohol
 - c. 440 ml of 95 % and 360 ml of 45 % alcohol
 - d. 360 ml of 95 % and 440 ml of 45 % alcohol
4. What is the concentration of NaCl required to make 1% solution of cocaine HCl isotonic with blood plasma? Freezing point of 1%w/v solution of NaCl is -0.576°C and freezing point of 1%w/v cocaine HCl is -0.09°C
 - a. 0.746% w/v
 - b. 0.9% w/v
 - c. 0.5% w/v
 - d. 0.373% w/v
5. Thermocouple and thermopile detector used in IR are made up of-
 - a. Bismuth
 - b. Antimony
 - c. A & B both
 - d. None of them
6. The greater the thixotropy, the _____ is the physical stability of suspension-
 - a. Higher
 - b. Lower
 - c. Equal
 - d. No change
7. The Ames test is employed to find out if chemical is ---
 - a. Therapeutic
 - b. Carcinogenic
 - c. Antigenic
 - d. Teratogenic
8. Sterility test for surgical suture require incubation for-
 - a. 3 days
 - b. 21 days
 - c. 10 days
 - d. 14 days
9. Indicate D2 receptor agonist with antiparkinsonian activity:
 - a. Sinemet
 - b. Levodopa
 - c. Bromocriptine
 - d. Selegiline
10. A ganglioblocking drug for hypertension treatment is:
 - a. Hydralazine
 - b. Tubocurarine
 - c. Trimethaphan
 - d. Metoprolol

Answer key Quiz 22: 1.(a) 2. (b) 3.(c) 4.(c) 5.(a) 6.(c) 7.(b) 8.(c) 9.(a) 10.(c)

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Students' Thought

The Mountain and the Squirrel

The mountain and the squirrel
Had a quarrel,
And the former called the latter
"Little prig."
Bun replied,
You are doubtless very big;
But all sorts of things and weather
Must be taken in together
To make up a year
And a sphere.
And I think it no disgrace
To occupy my place.
If I'm not so large as you,
You are not so small as I,
And not half so spry:
I'll not deny you make
A very pretty squirrel track.
Talents differ; all is well and wisely put;
If I cannot carry forests on my back,
Neither can you crack a nut.

Mohit Singh Thakur
B. Pharm. V sem.

Why God Made Teachers

When God created teachers,
He gave us special friends
To help us understand His world
And truly comprehend
The beauty and the wonder
Of everything we see,
And become a better person
With each discovery.
When God created teachers,
He gave us special guides
To show us ways in which to grow
So we can all decide
How to live and how to do
What's right instead of wrong,
To lead us so that we can lead
And learn how to be strong.
Why God created teachers,
In His wisdom and His grace,
Was to help us learn to make our world
A better, wiser place.

Nikhil Mishra
B. Pharm. V sem.

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New Drug Formulation Approved in 2024

ALHEMO

Company: Novo Nordisk A/S

Approval Status: Approved 20/12/2024

Specific Treatments: Hemophilia A and B

Alhemo is concizumab an antagonist of the tissue factor pathway inhibitor (TFPI) that is prescribed for routine prophylaxis to stop or lessen bleeding episodes in adults and children aged 12 and above who have:

Congenital factor VIII deficiency, or hemophilia A, with FVIII inhibitors
Congenital factor IX deficiency, or hemophilia B, with FIX inhibitors.

Mechanism of Action

Concizumab-mtci, a monoclonal antibody is an Endogenous Tissue Factor Pathway Inhibitor (TFPI). The purpose of concizumab-mtci is to improve thrombin generation and clot formation in patients with hemophilia A or B who are taking inhibitors by inhibiting TFPI, which in turn increases the production of FXa during the beginning phase of coagulation.

Side Effects

Injection site reaction and urticaria.

Less Known Facts About Traditional Food

Jamun Sharbat

Jamun, the highly nutritious, refreshing and succulent fruit flooding the summer markets has innumerable health benefits. Commonly known as Java plum or Indian blackberry in English, Jamun or Jambul in Hindi. Jamun, the tall tree with a heavy trunk is native to the Indian sub-continent but is also widely found in various Asian countries. This juicy fruit holds a great significance in holistic treatments like Ayurvedic, Unani and Chinese medicine as it attenuates Kapha and Pitta. Jamun is a powerhouse of various nutritional components. It is loaded with a spectrum of vitamins including vitamin A, vitamin C, calcium, iron, fibre, magnesium, potassium, glucose, protein, carbohydrates and other essential nutrients. Ayurveda strongly recommends this berry for treating various conditions related to heart, arthritis, asthma, stomach pain, bowel spasm, flatulence and dysentery. The diuretic effects of jamun flushes toxins out of the kidneys, while the high fibre content aids in digestion and prevents nausea and vomiting.

Recipe: Clean and cut all jamun. Heat pan take 2 glass water. Boil it when all jamun became tender. Add sugar, salt and black pepper powder in it and off the flame allow to cool. Remove all seed and strain it. Add some drops of lemon juice, yummy jamun sharbat ready. Serve chilled

Nutritional value:

Nutrients	Per Serving 100g
Carbohydrate	14.55 g
Protein	0.72 g
Fat	0.24g
Energy	60 Kcal
Vitamin C	18.8 mg
Fiber	2.7 g
Iron	0.19 mg
Potassium	79 mg
Calcium	19mg

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Plant with Herbal Benefits
GLORIOSA SUPERB(KALIHARI)

Synonyms: flame lily, climbing lily, creeping lily, kalihari, fire lily and glory lily

Gloriosa superb is a species of flowering plant in the family Colchicaceae. gloriosa superba is native to tropical Asia including the Indian subcontinent. it is in great demand for medicinal use, so it is cultivated on farms in India .

	Scientific classification	
	Kingdom:	Plantae
	Order:	Liliales
	Family:	Colchicaceae
	Genus:	Gloriosa
	Species:	<i>G.superba</i>
	Nutrient value per 100g	
	Carbohydrate :	0.9 g
	Fibre	: 12g
	Protein	: 10.1g
	Calcium	: 1.9 mg

Morphology: It is a herbaceous, climbing perennial, growing between 3.5 to 6 m in length, usually trained at 1.5 m above the ground level. The vines are tall, semi hard stemmed with tuberous roots that support themselves by means of cirrhosted tips. Leaves are sessile, alternate; flowers bright, solitary, at first greenish later becoming yellow and finally scarlet; fruit capsules containing many seeds.

Chemical composition: Rhizomes and seeds contain colchicine, isoperlolyrine and related tropolane alkaloids. Air dried rhizomes contain β - sitosterol and its glucoside, 2-hydroxy 6-methoxy benzoic acid.

Uses: Gloriosa Superba (Kalihari) has antispasmodic and muscle relaxant properties. The plant has been used in the Indian system of medicine since time immemorial. It's rhizomes are reported to have been used as a tonic, anti-periodic, anti-helminthic, parasitic skin diseases and also against snake bites and scorpion stings. The drug is sometimes used for promoting labour pains and conversely also as an abortifacient. It is considered useful in colic, chronic ulcers, piles and gonorrhoea. The leaves when applied in the form of a paste to the forehead and neck, are reported to cure asthma in children. The leaf juice is used against head lice.

Inspiring Quotes

- ✚ “We cannot solve problems with the kind of thinking we employed when we came up with them.”
—Albert Einstein
- ✚ “Learn as if you will live forever, live like you will die tomorrow.” —Mahatma Gandhi
- ✚ “Stay away from those people who try to disparage your ambitions. Small minds will always do that, but great minds will give you a feeling that you can become great too.” —Mark Twain
- ✚ “When you give joy to other people, you get more joy in return. You should give a good thought to the happiness that you can give out.” —Eleanor Roosevelt
- ✚ “When you change your thoughts, remember to also change your world.” —Norman Vincent Peale

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Published News



Upcoming EVENTS

- Saturday activities
- Annual Sports
- Annual function
- Republic day celebration
- Basant Panchami

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