



**RKGIT**  
**(Pharmacy)**

# Pharmaware

*A quarterly e-News Letter*

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## **VISION**

To be recognized as a foremost institution imparting quality pharmacy education to aspiring pharmacists with right competencies, attitude, skills and knowledge, for the greater benefit of mankind.

## **MISSION**

To produce highly qualified and motivated graduates possessing fundamental knowledge and soft skills, who can provide sustainable solutions to health care problems.

To develop partnerships with industries, eminent institutes and government agencies in the field of pharmaceutical sciences.

To serve the community, at local, national and international levels, with a deep awareness of our ethical responsibilities towards profession and society.

## **PROGRAM EDUCATIONAL OBJECTIVES**

OUR GRADUATES SHOULD HAVE:-

1. Have quality theoretical knowledge and practical skills on all core and allied fields of pharmaceutical sciences, so that they can face the challenges of the globalized scenario and contribute to the progress of the nation.
2. Enjoy successful careers in all settings of Pharma sector, by engaging themselves in professional development through leadership, communication, skills, teamwork and entrepreneurship.
3. Function ethically and lawfully in professional environment and exhibit good competency in their work culture.
4. Act as a link between healthcare system and community, so as to serve the society by the transmitting their knowledge, with a sense of social responsibility.
5. Participate in lifelong learning through advanced degrees, continuing education and/or professional activities.

**ALL INDIA 29<sup>th</sup> RANK IN NIRF-2016**

**AKTU APPROVED PHD RESEARCH CENTRE**

**NBA ACCREDITED (B.PHARM)**

## COVID SECTION

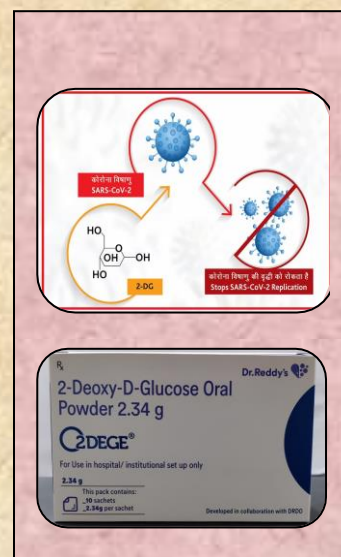
### 2-DG (2-DEOXY-D- GLUCOSE)

2-Deoxy-D-Glucose (2-Deoxyglucose) is a glucose analog that inhibits glycolysis via its actions on hexokinase, the rate limiting step of glycolysis. It is phosphorylated by hexokinase to 2-DG-P which cannot be further metabolized by phosphoglucose isomerase. This leads to the accumulation of 2-DG-P in the cell and the depletion in cellular.

The Drug Controller General of India (DCGI) has given emergency use approval to 2-deoxy-D-glucose (2-DG), an anti-Covid drug developed by INMAS, a DRDO lab, in collaboration with Dr Reddy's Laboratories (DRL), Hyderabad. The drug is used as an adjunct therapy. Adjunctive therapy is administered along with primary treatment. The clinical trials showed that the drug helps in faster recovery of those who have been hospitalized and also reduces need for supplemental oxygen.

**Formulation:** The drug, which comes in a powdered form in a sachet, is taken orally by dissolving in water.

[https://economictimes.indiatimes.com/industry/healthcare/biotech/pharmaceuticals/what-is-2-deoxy-d-glucose-2-dg-and-is-it-effective-against-medium=text&utm\\_campaign=cppst](https://economictimes.indiatimes.com/industry/healthcare/biotech/pharmaceuticals/what-is-2-deoxy-d-glucose-2-dg-and-is-it-effective-against-medium=text&utm_campaign=cppst)



### A GLIMPSE ON MUCORMYCOSIS (BLACK FUNGUS)

**Mucormycosis**, also known as black fungus, is a serious fungal infection, usually in people with reduced ability to fight infections. Symptoms depend on where in the body the infection occurs. It most commonly infects the sinuses and brain resulting in a runny nose, one-sided facial swelling and pain, headache, fever, and tissue death. Other forms of disease may infect the lungs, stomach and intestines, and skin. It is spread by spores of molds of the order Mucorales, most often through inhalation, contaminated food, or contamination of open wounds. These fungi are common in soils, decomposing organic matter (such as rotting fruit and vegetables), and animal manure, but usually do not affect people. It is not transmitted between people. **Risk factors** include diabetes with persistently high blood sugar levels or diabetic ketoacidosis, low white cells, cancer, organ transplant, iron overload, kidney problems, long-term steroids or immunosuppressant use, and to a lesser extent in HIV/AIDS. During the COVID-19 pandemic 2020/21, an association between Mucormycosis and COVID-19 has been reported following treatment and recovery from COVID-19. A rise in cases was particularly noted in India.

**Diagnosis** is by biopsy and culture, with medical imaging to help determine the extent of disease. It may appear similar to aspergillosis. **Treatment** is generally with amphotericin B and surgical debridement.

<https://en.wikipedia.org/wiki/Mucormycosis>

## HERBAL INFORMATION

### CHIRATA (BITTER STICK)

**Botanical name:** SWERTIA CHIRAYITA

**Family:** Gentianaceae

**Kingdom:** Wardia



Swertia, a genus in the family Gentianaceae include a large group of annual and perennial herbs, representing approximately 135 species. Swertia chirayita is a popular medicinal herb indigenous to the temperate Himalayas is used in traditional medicine to treat numerous ailments and are reported to have a wide spectrum of pharmacological properties. Its medicinal usage is well-documented in Indian pharmaceutical codex, the British, and the American pharmacopeias and in different traditional medicine such as the Ayurveda, Unani, Siddha methods. Swertia contains the chemicals sawertiamarine, mangleferin and amarogenitine balanophonin, oleanolic acid, maslinic acid, sumaresinolic acid and Swerilactones

#### **USES**

Fever.  
Malaria.  
Constipation.  
Worm infestations.  
Upset stomach.  
Loss of appetite.  
Skin diseases.  
Cancer.  
Other conditions.

#### **HERBAL PRODUCTS**

CHIRATA POWDER

CHIRATA DILUTION 1000CH

CHIRATA CHURNA





## STUDENT CORNER

### A HEALTHY MIND LIVES IN HEALTHY BODY

It is an old saying, 'A healthy mind resides in a healthy body.' It is true even today. A person with a good physique has a sound mind. One should get up early in the morning; go out for a walk to inhale fresh air, do jogging or brisk walk regularly. One should take fresh and balanced diet. One should not be jealous or angry. One should keep good company also. There is also an old saying that 'A man is known by the company he keeps'. Good health saves one's money also. One should read good books. Books on great men also help one to achieve virtues. Virtues also help one in keeping good health. Reading of books does not leave any time to get into bad company. One also acquires wisdom through books. All these things bring happiness and contentment which are vital for good health. It is rightly said, "Early to bed and early to rise makes a man healthy, wealthy and wise."

Exercise helps us to keep fit and at the same time maintain an alert mind. Regular exercise increases blood circulation in our bodies and that means an increased supply of oxygen to the brains.



Good and sound health would ensure an agile and active mind. Just as a person's mood and emotions are reflected in a person's health, a body that is weak and unfit plays havoc on a person's mental well-being. Recent studies have shown that increasing stress of today's fast paced life is giving rise to a number of health problems. Major among those are heart and neurological problems. A good health helps a person to keep a positive attitude towards work and life in general.

When we feel ill, it brings on frustration and this often causes us to be irritated with the smallest mistakes that others make. We become rude and it can start off a chain of unpleasantness all around. As most of our activities are governed by the mind, it is very important to keep our minds fresh, alert and in a positive frame. It is small wonder then that ancient schools of martial arts like Kung-fu, Taekondo and Kalariapattu, laid great stress on meditation to strengthen the mind.

Health, be it mental or physical is the prerequisite for living a good and fruitful life. It is not wealth, food or good clothes that makes a person happy, but a buoyant health together with a strong mind. Only when a person is holistically healthy does he gain the confidence to tackle any problem that comes his way. Thus, neither the mind nor the body can be neglected. We must constantly strive to keep both body and mind healthy with proper food, rest and exercise.

Ms.Shikha Chauhan

B.Pharma 2<sup>nd</sup> Yr (Section B)

## SHRADHANJALI

No one can prepare you for a loss; it comes like a swift wind. On the demise of beloved Late Dr Sunil Khatak (Associate Professor, Pharmacy on 19th may 2021, RKGIT (Pharmacy) express our earnest commiseration to his family during this time of grief.

RKGIT (Pharmacy) will always remember you.



### PATENT GRANTED

- A patent has been granted by Ms Neha Krsihnath (Assistant Professor) on the topic: novel anti-microbial and antitubercular compounds and process of their preparation, on 31 may 2021.

### PAPER PUBLISHED

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**CONGRATULATIONS TO STUDENTS OF B.PHARM FINAL YEAR FOR THEIR CAMPUS PLACEMENTS**

S. No.	Name Of The Students	Name of company
1	Akanksha Singh	HealthWatch TeleDiagnostics Pvt Ltd.
		Veeda Clinical Research Pvt. Ltd.
2	Annu Singh	Pulsus Health Tech LLP
3	Avanish Sharan singh	WhiteHat Education Tech Pvt Ltd.
4	Bhawna	Pulsus Health Tech LLP
		HealthWatch TeleDiagnostics Pvt Ltd.
5	Diksha kumari	Pulsus Health Tech LLP
6	Prajwal	HealthWatch TeleDiagnostics Pvt Ltd.
7	Prince Tripathi	Alembic Pharmaceuticals Limited.
8	Saurabh singh	HealthWatch TeleDiagnostics Pvt Ltd.
9	Shubham shukla	Alembic Pharmaceuticals Limited.
10	Simran	Pulsus Health Tech LLP
11	Soni Kumari	Veeda Clinical Research Pvt. Ltd.
12	Swati	Pulsus Health Tech LLP
13	Taniya Sharma	Pulsus Health Tech LLP



**WISHING ALL READERS**

**INTERNATIONAL YOGA DAY**



**REGARDS**

**Pharmaware Team**

*For Views and Suggestions*

*Connect*

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