





NATIONAL SERVICE SCHEME CANARA COLLEGE

MANGALURU

AWARENESS CAMPAIGN ON BLACK FUNGUS

MAY 20, 2021 TO JUNE 05, 2021

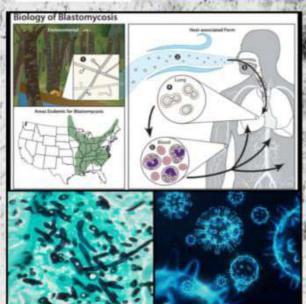




CANARA COLLEGE MANGALURU

NATIONAL SERVICE SCHEME BLACK FUNGUS AWARENESS PROGRAM





WHATIS BLACK FUNGUS INFECTION?

People prone to the infection are the ones undergoing oxygen therapy in ICU, where a humidifier is used, which makes people more prone to infection due to exposure to moisture. The use of ordinary tap water in the flow meters of the oxygen cylinders is also blamed for fungal infection. Cases can also be triggered by "mould-tainted oxygen piper and humidifiers". Not just this, weak immune system, too much steroid consumption, voriconazole therapy and diabetes also put patients at greater risk of infection.

PRECAUSIONS

SHOULD

- CONTROL HIGHBLOOD SUGAR LEVELS
- MONITORINGBLOOD SUGAR LEVEL REGULARLY POST-RECOVERY
 - USE CLEAN, STERILE WATER IN THE HUMIDIFIER FOR OXYGEN THER APY
 - USE STEROIDS AND ANTIFUNGAL MEDICINES Only when prescribed by the doctor

SHOULD'NT

- DO NOT OVERLOOK THE SYMPTOMS OF BLACK FUNGUS
- DO NOT TAKE BLOCKED NOSE LIGHTLY MAINLY AFTER
 GETTING RECOVERED FROM COVID-19
 - DONOT THINK TWICE ABOUT GETTING DONE ANY INVESTIGATION IF SUGGESTED BY THE DOCTOR

DECOLOUR ATION OF NOSE AND TONGUE, BLURRY VISION BREATHING PROBLEMS, CHEST PAIN , BLOOD COUGHING , REDNESS IN THEEYES, FEVER , COUGH , VOMITING SYMPTOMS

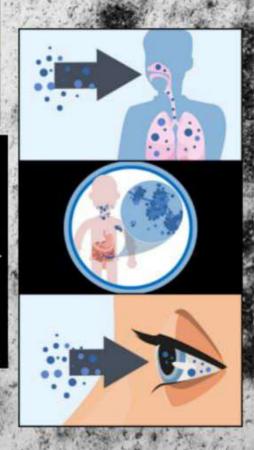
TREATMENT

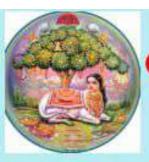
Amphotericin-B injection is the prime treatment for the treatment of this fungal infection.

The injection is an antifungal medicine.

If infected, the patient has to be kept under the strict supervision of eye surgeons, ENT specialists and neurosurgeons as the infection affects different parts of the body simultaneously. As a part of the life-saving procedures, all the infected tissues should be surgically removed. Hence, some people even end up losing their eyesight and in some cases even the upper jaw. Patients might even require an intravenous anti-fungal procedure spanning four to six weeks.

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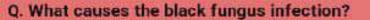




Canara College, Mangaluru National Service Scheme



AWARENESS CAMPAIGN ON BLACK FUNGUS



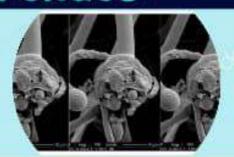
When the immunity of a person is low, they are vulnerable to this infection.

This condition is not new; it has been seen earlier as well, but there are more cases now. It was seen in patients with diabetic ketoacidosis (excess blood acid) and those who are in the ICU, are immuno-compromised, have cancer, or patients who have had kidney transplant or are on immuno-suppressants.

Covid-19 decreases the immunity of a person so much that a person becomes vulnerable to the mucormycosis (black fungus) infection.

Q. Which organs get impacted?

It starts from the nose, sinuses and then affects the eye region and even brain tissue. Invasion of the fungus affects blood vessels, which clogs the blood flow in the region.



Q. How can black fungus be treated?

The treatment includes antifungals given intravenously. Since the fungus causes dead tissues and gangrene, the affected area is to be removed because antifungals cannot reach dead tissues that may have the fungus.

Q. How can one prevent it?

The Covid diabetic are more vulnerable to black fungus. Extra care should be taken to ensure that the pH of blood does not become more acidic and sugar levels are near-normal. Even if a person is Covid positive or is on heavy antibiotics, his/her immunity is weak—they should keep track of their blood pH to avoid this infection.

STAY HOME STAY SAFE

Rithika 2nd B.com C 2416



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NATIONAL SERVICE SCHEME



"KEEP CALM
AND CARRY
ON." "THE
ONLY THING
WE HAVE TO
FEAR IS FEAR
ITSELF."
"DON'T
WORRY, BE
HAPPY."

BLACK FUNGUS AWARENESS CAMPAIGN

PRIMARILY, FUNGAL SPORE FLOATING IN THE ENVIRONMENT GIVE PEOPLE THIS INFECTION. ONE MAY ALSO CATCH IT WHEN THE FUNGUS "ENTERS THE SKIN THROUGH A CUT, BURN, OR OTHER TYPES OF SKIN TRAUMA."

IT IS CAUSED BY EXPOSURE TO MUCOR MOULD WHICH IS COMMONLY FOUND IN SOIL, PLANTS, MANURE, AND DECAYING FRUITS AND VEGETABLES. "IT IS UBIQUITOUS AND FOUND IN SOIL AND AIR AND EVEN IN THE NOSE AND MUCUS OF HEALTHY PEOPLE," SAYS DR AKSHAY NAIR, A MUMBAI-BASED EYE SURGEON.

SOURCE-BBC, INDIA TODAY

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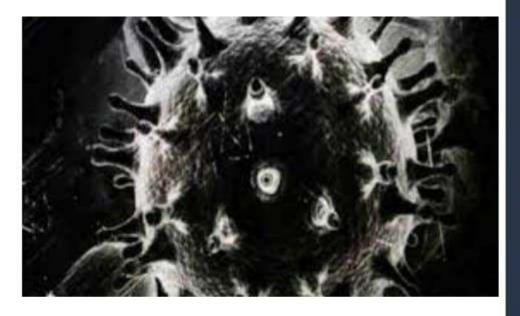


NATIONAL SERVICE SCHEME CANARA COLLEGE MANGLORE, KARNATAKA



HOW SERIOUS IS BLACK FUNGUS?

Cases of mucormycosis, or "black fungus," a potentially serious condition that causes blurred or double vision, chest pain and breathing difficulties, have surged in India, mostly among COVID-19 patients



WHAT DOES BLACK FUNGUS DO?

If the fungus goes in through a cut or a burn, it can cause local infections. But if it goes in through the sinus, it can affect the eyes and eventually, the brain, leading to a fatal situation.

WHO IS AT RISK OF BLACK FUNGUS?

Patients within six weeks of COVID treatment are at the highest risk of black fungus

BLACK FUNGUS INFECTION SYMPTOMS

- Black fungus symptoms mainly shows some common symptoms, including excessively runny nose.
- You may feels swelling and pain in your eyes when you come in contact with the infection.
- *In some Black Fungal infection Covid, eyelid loss and blurred vision have also been seen.
- * Dark spots can also be seen around the nose of the infected patient.
- Some patients have also spoken about their eyesight being completely gone.

BLACK FUNGUS DISEASE PREVENTION

In black fungus infection prevention, you get sugar level checked on time and try to keep it limited. Patients recovering from corona should be tested in time to keep their sugar right. To prevent this infection, the doctor should give injections of steroids to the patients on time.

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Mangalore University National service scheme





Mangaluru, Karnataka

AWARENESS CAMPAIGN ON

BLACK FUNGUS

Mucormycosis, commonly known as the 'black fungus', is a fungal infection, which is on a rise in patients who have recovered from COVID-19. Though a rare infection, delayed detection and treatment can lead it to be a fatal one. Formerly known as zygomycosis, it is a disease caused by fungi belonging to the fungal family 'Mucorales'. These fungi generally infect people with an impaired immune system.



Mucormycosis has been there and we have been seeing these cases for years. But there is a sudden boom in the number of infections in India and basically there are two reasons for it, the first one being diabetes. Earlier, before COVID-19, the major risk factor for mucormycosis was highly uncontrolled diabetes.Mucormycosis is now majorly seen in patients who have tested positive for COVID-19 and some of the cases are being seen even when the patient is being hospitalised for COVID-19 treatment. However, majority of the cases are being reported in patients after recovering from COVID-19. Photo: AP

symptoms



Patient while admitted or post-COVID complain of loosening of the teeth, pain in the teeth, pain in the cheek or pain in the eye. In post-COVID cases, it affects the nose, sinuses and sometimes it even invades the nervous system. So if someone who has recovered from coronavirus has a bleeding nose or severe, unbearable cheek pain, dental pain, loosening of the teeth or severe eye pain or headache, then one has to think about whether they are dealing with mucormycosis and they should quickly get it checked from an ENT surgeon. Photo: AP

Precautions to be taken

It is not mandatory that a person who has recovered from COVID-19 is bound to get infected by the black fungus. The fungal infection can be safely avoided by taking certain precautions, which include wearing a mask even after testing negative. Another precautionary measure is that the recovered person has to strictly monitor their sugar levels and keep it in check

treatment

The medical treatment for mucormycosis ranges from 6 to 12 weeks and is sometimes associated with adverse effects. Mucormycosis treatment is a debride treatment, which means that it has to be treated medically as well as surgically. The fungus has to be removed surgically so that the penetration of antifungal drugs is much better into these areas. Surgery is very important because the black fungus has to be completely scraped off and healthy tissue should be seen The Union Health Ministry has appealed to all the states and Union Territories to declare mucormycosis as a notifiable disease under the Epidemic Disease Act 1897. The Ministry has also advised all government and private health facilities, as well as medical colleges to follow guidelines issued by it and the ICMR on screening, diagnosis and management of mucormycosis. Telangana and Rajasthan have already declared it as an epidemic.

Which states have been affected?

Cases of black fungus have been reported in various parts of the country including Maharashtra. Karnataka. Uttarakhand. Telangana, Madhya Pradesh, Andhra Pradesh, Haryana and Bihar.

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National service scheme !



Black fungus awareness campaign 🔍



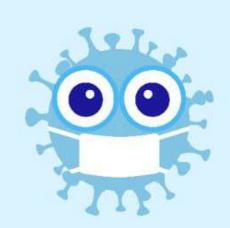
what is black fungus and their symptoms?

The prime symptom of the black fungus includes discolouration of the oral tissues. tongue, gums, stuffy nose, severe pain, swelling of face, heaviness below the eyes, discomfort, fever and headache. Here is how you can reduce your chances of getting the black fungus infection. Top 3 oral tips to prevent black fungus



How it can be treated?

Amphotericin-B is an anti-fungal drug that is used in the treatment of a rare infection called mucormycosis, or "black fungus". According to the statement by the Ministry of Chemicals and Fertilizers, five more pharma companies have got new drug approval for the production of Amphotericin-B within three days. 4 days ago







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Black Fungus symptoms:

Identify Signs & Symptoms

Of Mucormycosis In COVID

Cases

Mucormycosis, also known as black fungus, is caused by a group of molds called mucormycetes. It is very important to identify the signs and symptoms of black fungus infection because it can turn dangerous if left untreated. Also know what are the dos and dont's in

While Covid19 cases are increasing rapidly, government and health experts are gearing up for the third wave of coronavirus along with treating people. The B-1617 variant of coronavirus, first identified in India, has already been classified as a variant of concern at the global level by the World Health Organization. Along with this, reports of a mysterious infection, black fungus affecting covid patients are doing rounds. Mucormycosis, also known as black fungus, can turn dangerous if left untreated, doctors have warned. The re-emergence of the rare deadly fungal infection among covid-19 patients has caused major concerns. It has been found across hospitals in Delhi Pune and Ahamedabad

Wear a clean mask, if u wear surgical mask then change it after 6 hours of use.

And if u wear cloth mask then rinse it hot water after use. So wear a clean mask and be safe.

Name: swathi

Class: 2nd bsc(pmc)

Roll no:2121

ಕಮ್ಮಶಿಲೀಂಧ್ರ ಸೋಂಕು ಲಕ್ಷಣ:

ಕಮ್ಪತಿಲೀಂಧ್ರ ಮೂಗಿನ ಮೂಲಕ ದೇಹ ಸೇರುತ್ತದೆ. ಮೊಗಿನಲ್ಲಿ ಕಮ್ಮದ್ರವ ,ರಕ್ತ ಬರುತ್ತದೆ. ಅನಚಿತರ ತಲೆಯ ಭಾಗಕ್ಕೆ ಹೋದರೆ ದವಡೆ ನೋವು, ಹಲ್ಲುಗಳು ಸಡಿಲವಾಗುವುದು, ದವಡೆ ನಿಷ್ಠಿಯವಾಗುತ್ತದೆ. ಕಣ್ಣಿಗೆ ಹೋದರೆ ಕಣ್ಣಿನ ಪಕ್ಕದಲ್ಲ ಕಮ್ಪಕಲೆ, ಕಣ್ಣಿಗೆ ಹಾನಿಯಾಗತ್ತದೆ. ಕೊನೆಯವಾಗಿ ಮೆದುಳಿಗೆ ತಲುಪಿದಾಗ ವೃಕ್ತಿ ಸಾವಿಗೀಡಾಗುತ್ತಾನೆ. ಈ ಯಾವುದೆ ಲಕ್ಷಣ ಕೊರೊನಾ ಪೀಡಿತರು. ಗುಣಮುಖರಲ್ಲಿ ಕಂಡುಬಂದರೆ ಶೀಘ್ರವೇ ವೈದ್ಯರನ್ನು ಸಂಪರ್ಕಿಸಬೇಕು.

Symptoms of black fungus:

- Facial deformity
- Headache
- Facial pain
- Nasal congestion
- Loss of vision or pain in eyes
- Altered mental state confusion
- Swelling in cheeks and eyes
- Toothache,loosening of teeth
- Black crusts in the nose





CANARA COLLAGE MANGALDRE



NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARENESS CAMPAIGN



WHY ARE BLACK FUNGUS INFECTION ARE INCREASING?

The rise in black fungus infections, mostly in patients who had severe cases of Covid-19, has been linked to an overuse of steroids in the treatment of the coronavirus, which can acutely compromise the immune system if taken over a prolonged period. 3 days ago



HOW DOES BLACK FUNGUS AFFECT?



Black fungus commonly affects the sinuses or lungs after a person inhales fungal spores in the air, and can also affect the skin following a surface injury like a cut or burn. Symptoms depend on where in the body the fungus is growing, but can include facial swelling, fever, skin ulcers and black lesions in the mouth.

CAN BLACK FUNGUS BE TREATED AT HOME?

The Health Minister added that the medicines to treat the infection cannot be purchased from medical stores as this cannot be treated at home. 3 days ago

SANGAMESH 2ND B.COM C





CANARA COLLEGE MANGALORE



NATIONAL SERVICE SCHEME

Awareness campaign on black fungus

What is black fungus?

It's caused by a group of molds, called mucormycetes. Individuals are infected after inhaling fungal spores found naturally in India's environment and soil.

Cause for black fungus:

It is caused by exposure to mucor mould which is commonly found in soil, plants, manure, and decaying fruits and vegetables. "It is ubiquitous and found in soil and air and even in the nose and mucus of healthy people," says Dr Akshay Nair, a Mumbai-based eye surgeon.

Effects of black fungus:

Black fungus commonly affects the sinuses or lungs after a person inhales fungal spores in the air, and can also affect the skin following a surface injury like a cut or burn. Symptoms depend on where in the body the fungus is growing, but can include facial swelling, fever, skin ulcers and black lesions in the mouth.

Treatment:

As Black Fungus infections are on rise, there has been sudden rise in demand for anti-fungal drug Ampho B, which is commonly used for the treatment of the infection.



G.Ankitha Prabhu

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NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARENESS CAMPAIGN



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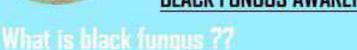
The Health Minister added that the medicines to treat the infection cannot be purchased from medical stores as this cannot be treated at home. 3 days ago

SANGAMESH 2ND B.COM C



Mangalore

BLACK FUNGUS AWARENESS CAMPAIGN



COVID-19-associated Mucor mycosis, commonly referred to as black fungus, is the association of Mucormycosis with COVID-19. It has been reported around the nose, eyes and brain - a clinical manifestation sometimes referred to as 'rhino-orbital-cerebral Mucor mycosis'

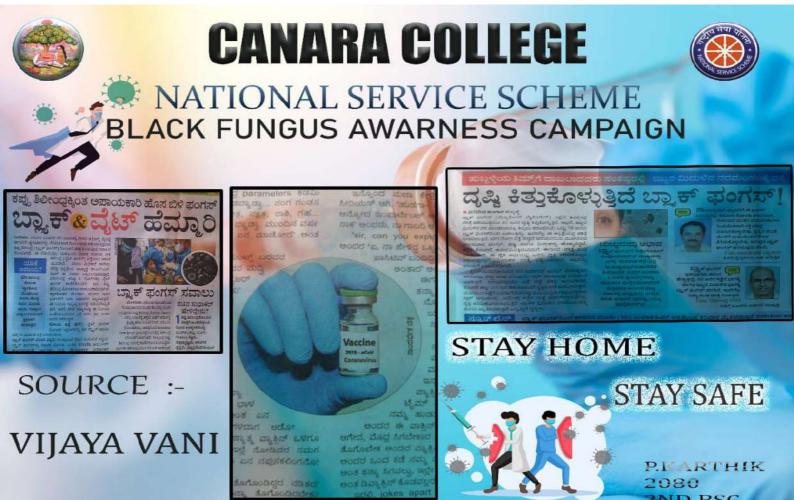


What is the symptom of black fungus??

Swelling in eyes Fever Headache pain in eyes

Antifungal drug ampho B is used for treatment, which is commonly used for the treatment of the infection

THASHWIN S I= BCA







Canara college Mangalore



Black fungus

Infections is caused by mucormycetes a group of moulds fungus abundant in environmeny It mainly affects sinuses lungs of people

Symptoms

- *Bloody vomits
- *Pain redness around eyes
- *Fever
- * Headache coughing
- * Shortness of breath



As black fungus is infection are on rise There has a sudden rise in demand for anti fungal drug Ampho B which is commonly used for treatment







Mangalore University

National Service Scheme

CANARA COLLEGE



Mangalore , Karnataka

Black Fungus Awareness Campaign

Reasons for Black Fungus

The SARS-CoV-2 virus has given birth to several other new diseases. One of the rapidly spreading infection post-COVID recoveries is black fungus. Also called Mucormycosis, black fungus is, as the name suggests is a fungal disease that is commonly being observed in patients who were given steroids for a long time, who have been hospitalised for a long time, were on oxygen support or ventilator, poor hospital hygiene or who have been taking medication for other illness such as diabetes.

If not treated on time, the black fungus infection can turn fatal.

The COVID medications can leave the body weak and low immunity. They can also escalate the blood sugar levels in both diabetics and non-diabetic COVID-19 patients, which is said to be the main reason for the fungus to multiply. But by following some simple dental hygiene rules, one can reduce their chances of catching most of the viral and fungal infections including black fungus, according to a dentist.

Effects of Black Fungus

How does black tungus affect?

Black fungus commonly affects the sinuses or lungs after a person inhales lungal spores in the air, and can also affect the skin following a surface injury like a cut or burn. Symptoms depend on where in the body the fungus is growing, but can include facial swelling, fever, skin ulcers and black lesions in the mouth. 2 days ago

RUCHITHA J ...2ND BCOM A NSS VOLUNTEER

Treatment for Black Fungus

Amphotericin-B injection is the prime treatment for the treatment of this fungal infection. The injection is an antifungal medicine. If infected, the patient has to be kept under the strict supervision of eye surgeons, ENT specialists and neurosurgeons as the infection affects different parts of the body simultaneously. As a part of the life saving procedures, all the infected tissues should be surgically removed. Hence, some people even end up losing their eyesight and in some cases even the upper jaw.

Patients might even require an intravenous anti-fungal procedure spanning four to six weeks.

Precautions to be taken

The symptoms include pain under the eyes, one-sided facial swelling, nasal or sinus congestion, black lesions on the nasal bridge, stuffy or bleeding nose, toothache or loosening of teeth and partial loss of vision.

Experts advise the following steps to protect individuals from the infection. The key is to wear a mask at all times, wear shoes, long trousers and preferably gloves if you step out into a park or for gardening and maintain personal hygiene including a thorough scrub bath.

As infections rise, India must focus on precaution and the judicious use of steroids including immediate treatment when the fungus is detected.

Source:- Times of India



Canara collage mangalore NATIONAL SERVICE SCHEME Black fungus awareness campaign



WHO ARE GETTING BLACK FUNGUS ?

According to experts, people with diabetes are more prone to getting the black fungus infection. Amid the surge in COVID-19 infections, Delhi is also "frequently reporting" cases of black fungus, also known as mucormycosis, sources told news agency ANI earlier today. 5 days ago



CAN YOU GET A BLACK FUNGUS WITHOUT COVID ?

YES. Mucormycosis is a fungal infection mostly found in patients with compromised immune systems. 2 days ago

WHAT IS MEDICINE FOR BLACK FUNGUS ?

Amphotericin-B is an anti-fungal drug that is used in the treatment of a rare infection called mucormycosis, or "black fungus". According to the statement by the Ministry of Chemicals and Fertilizers, five more pharma companies have got new drug approval for the production of Amphotericin-B within three days. 4 days ago



MAITHRI K.V 2ND B.COM A



CANARA COLLEGE MANGALORE



BLACK FUNGUS AWARENESS CAMPAIGN

BLACK FUNGUS WARNING BELLS

WHEN VULNERABLE

- Uncontrolled diabetes
- Immuno-supression by steroids
- Prolonged ICU stay
- Co-morbidities-post transplant/ malignancy
- Voriconazole therapy

HOW TO PREVENT

- Use mask if you are visiting dusty construction sites
- Wear shoes, long trousers, long sleeve shirts and gloves while handling soil (gardening)
- Maintain personal hygiene including scrub bath

DO'S

- Control hyperglycemia
- Monitor blood glucose level post Covid
- Use steroids judiciously correct time, dose and duration
- Use dean sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungals iudiciously



DONT'S

- Dont miss warning signs and symptoms
- Don't consider all blocked nose cases as of bacterial sinusitis, especially in context of immunosuppression / Covid 19 patient immunomodulators
- Do not hesitate to seek aggressive medical investigations
- Do not lose time to initiate mucormycosis treatment

WHEN TO SUSPECT

sinusitis: Nasal congestion, nasal discharge (blackish/ bloody), local pain on cheekbone

- One-sided facial pain, numbness or swelling
- Blackish discolouration over bridge of nose/palate
- Toothache, loosening of teeth, jaw involvement
- Blurred or double vision with pain; fever, skin lesions, thrombosis and necrosis
- Chest pain, pleural effusion, haemoptysis

HOW TO MANAGE THE DISEASE

- Control diabetes
- Reduce steroids
- Maintain adequate systemic hydration
- Infuse normal saline
 (IV) before amphotericin
 B infusion
- Anti-fungal therapy for at least 4 to 6 weeks

SOURCE:-TIMES OF INDIA

DEEPA 1ST BCA 1602



Canara College Mangalore



Awareness campaign on black fungus

mucormycosis, commonly referred to as black fungus, is the association of mucormycosis with COVID-19.

Can you get black fungus without COVID-19?

Yes, Mucormycosis is a fungal infection mostly found in patients with compromised immune system.

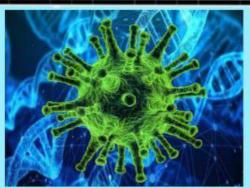
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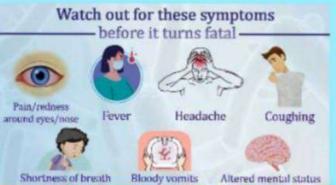
CANARA COLLEGE MANGALORE Black fungus awareness campaign

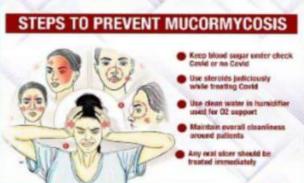












What happens in black fungus?

Mucormycosis is a fungal infection that causes blackening or discolouration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing blood. Mucormycosis is caused by exposure to mucor mould, which is commonly found in soil, air and even in the nose and mucus of humans.

AKASH M.K IST B.SC 1029



CANARA COLLEGE MANGALURU



BLACK FUNGUS AWARENESS CAMPAIGN

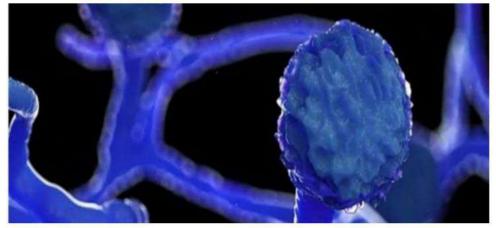


What is the symptoms of black fungus?

- 1) Swelling in eyes
- 2) fever and headache
- 3) facial pain
- 4) blur of vision

How is black fungus treated?

Black fungus can be treated if diagnosed early and it is a rare infection found in covid 19 patients.



DIVYASHREE 2ND BCOM B 2337



CANARA COLLEGE MANGALORE NATIONAL SERVICE SCHEME BLACK FUNGUS AWARENESS CAMPAIGN



Symptoms of black Fungus are :-

- * Headache, pain around eyes
- One sided facial swelling
- * Nasal or sinus congestion
- . Toothache ,loosening of maxillary teeth
- fever

Steps to prevent Black Fungus :-

- Keep blood sugar under check COVID or NO COVID.
- Use steroids judiciously while treating COVID.
- Use clean water in humidifier used for 02 support.
- Maintain overall cleanliness around patients.
- Any oral ulcer should be treated immediately.

Who are getting Black Fungus?

According to experts people with diabetes are more prone to getting the Black Fungus infection. Patients within 6 weeks of COVID treatment are at the highest risk of black fungus.

SHARANYA I BCA 1643



STAY HOME STAY SAFE





- Control hyperglycaemia
- Monitor blood glucose level post COVID-19 discharge & in diabetics
- Use steroid judiciously
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/ anti fungal judiciously



- Do not miss warning signs & symptoms
- Don't consider all cases of blocked nose as cases of bacterial sinusitis, especially in the cases of immunosuppression and/ or COVID-19 patients on immunomodulators around eyes/nose
- Don't hesitate in seeking aggressive investigations as appropriate for detecting fungal etiology
- -Don't lose crucial time to initiate treatment for mucormycosis

Watch out for these symptoms

before it turns fatal-









Coughing

Fever Headache







Shortness of breath

Adarsha H



Mangalore University National Service Scheme Canara College Mangaluru

WHAT IS BLACK FUNGUS

A life-threatening infection known as **mucormycosis** (colloquially as black fungus) which, if untreated, results in blindness followed by death

What makes you vulnerable: Exposure to mucor mould which is commonly found in soil, plants, manure etc



It is a rare kind of fungal infection **affecting 1 in 10,00,000 people**But with an overall mortality rate of 50%

Watch out for these symptoms

before it turns fatal

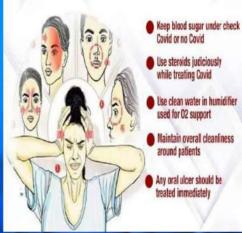


Bloody vomits

Shortness of breath

Altered mental status

STEPS TO PREVENT MUCORMYCOSIS



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CANARA COLLEGE MANGALURU



BLACK FUNGUS AWARENESS CAMPAIGN



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HOW DOES BLACK FUNGUS AFFECT?

Black fungus commonly affects the sinuses or lungs after a person fungal spores in the air and can also affect the skin following a surface like a cut or burn.

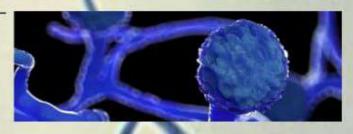
HOW IS BLACK FUNGUS TREATED?

Black fungus is treated if diagnosed early and it is a rare found in covid 19 patients. Amphotericin-B injection is the prime treatment for this fungal infection. The injection is an antifungal medicine.

WHAT IS THE REASON FOR BLACK FUNGUS?

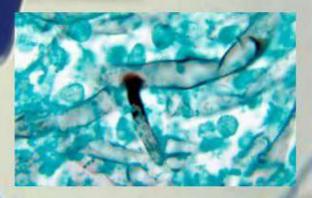
Mucormycosis or black fungus is a complication caused by a fungal infection. People catch mucormycosis by coming in contact with the fungal spores in the environment. It can also develop on the skin after the enters to the skin through cut or burn.





HOW CAN WE PREVENT BLACK FUNGUS?

To prevent black fungus, mortified oxygen should be used the COVID-19 treatment and people should keep a check on their blood sugar level. The treatment of black fungus can be continued for 1-1.5 months.



DIVYASHREE 2ND BCOM B 2337



CANARA COLLEGE MANGALORE



BLACK FUNGUS AWARENESS CAMPAIGN

WHAT IS THE BLACK FUNGUS?

AS INDIA STRUGGLES WITH A DEADLY SECOND WAVE OF COVID-19, CASES OF A RARE FUNGAL INFECTION CALLED "MUCORMYCOSIS" HAVE BEEN REPORTED IN SEVERAL STATES. ALSO KNOWN AS BLACK FUNGUS, THE LIFE-THREATENING DISEASE HAS INFECTED MANY COVID-19 PATIENTS INCLUDING THOSE WHO HAVE RECOVERED

WHAT IS THE SYMPTOM OF BLACK FUNGUS?

THE SYMPTOMS INCLUDE UNILATERAL NASAL OBSTRUCTION, FACIAL PAIN, SWELLING, NUMBNESS, BLURRING OF VISION, DOUBLE VISION OR WATERY EYES

HOW IS BLACK FUNGUS TREATED?

BLACK FUNGUS CAN BE TREATED IF DIAGNOSED EARLY AND IT IS A RARE INFECTION FOUND IN COVID-19 PATIENTS

STAY HOME & STAY SAFE

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MANGALORE UNIVERSITY NATIONAL SERVICES SCHEME CANARA COLLEGE MANGALORE KARNATAKA



BLACK FUNGUS WARNING BELLS

WHEN VULNERABLE

- Uncontrolled diabetes
- Immuno-supression by steroids
- Prolonged ICU stay
- Co-morbidities-post transplant/ malignancy
- Voriconazole therapy

HOW TO PREVENT

- Use mask if you are visiting dusty construction sites
- Wear shoes, long trousers, long sleeve shirts and gloves while handling soil (gardening)
- Maintain personal hygiene including scrub bath

DOS

- Control hyperglycemia
- Monitor blood glucose level post Covid
- Use steroids judiciously –
 correct time, dose and duration
- Use dean sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungals judiciously



DONTS

- Dont miss warning signs and symptoms
- Don't consider all blocked nose cases as of bacterial sinusitis, especially in context of immunosuppression / Covid 19 patient immunomodulators
- Do not hesitate to seek aggressive medical investigations
- Do not lose time to initiate mucormycosis treatment

WHEN TO SUSPECT

- SINUSITIS: Nasal congestion, nasal discharge (blackish/ bloody), local pain on cheekbone
- One-sided facial pain, numbness or swelling
- Blackish discolouration over bridge of nose/palate
- Toothache, loosening of teeth, jaw involvement
- Blurred or double vision with pain; fever, skin lesions, thrombosis and necrosis
- Chest pain, pleural effusion, haemoptysis

HOW TO MANAGE THE DISEASE

- Control diabetes
- Reduce steroids
- Maintain adequate systemic hydration
- Infuse normal saline
 (IV) before amphotericin
 B infusion
- Anti-fungal therapy for at least 4 to 6 weeks

JAYALAXMI 1ST BCOM.A 1229



CANARA COLLEGE NATIONAL SERVICE SCHEMES



BLACK FUNGUS AWARENESS CAMPAIGN



→ Mucormycosis is a very rare infection. It is caused by exposure to mucor mould which is commonly found in soil, plants, manure, and decaying fruits and vegetables.



What can help patients

- Universal masking
- Look for early symptoms and immediately seek medical help

Who needs to be careful

- Patients with uncontrolled diabetes
- Covid patients
- Those on long-term steroids
- Chemotherapy and post-transplant patients

How is it treated?

The first steps in treating mucormycosis is intravenous antifungal medications and surgical removal of infected tissue

→ Reason: Tends to occur most often in those with weakened immunity from illness or chronic health conditions. Fatal if goes untreated for a long term. It can infect the lungs or the brain.

Wear a clean mask, if u wear surgical mask then change it after 6 hours of use.

And if u wear cloth mask then rinse it hot water after use. So wear a clean mask and be safe.

DEEKSHA PAI H. V II BCA 2604



Canara college Mangalore, Karnataka



National service scheme

BLACK FUNGUS: A QUICK GUIDE

PREVENTION





Use masks if you are visiting dusty construction sites



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Wear shoes, long trousers, long sleeve shirts, gloves while handling soil (garbening), moss or manure



0

Maintain personal hygiene including thorough scrub bath

DOs

- Control hyperglycemia
- Monitor blood glucose level post COVID-19 discharge, also in diabetics
- Use steroid judiciously correct timing, correct dose and duration
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungals judiciously

DON'Ts

- Do not miss warning signs, symptoms
- Do not consider all cases with blocked nose as bacterial sinusitis
- Do not hesitate to seek aggressive investigations
- Do not lose crucial time to initiate treatment for mucormycosis

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MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME



Screening, Diagnosis & Management of Mucormycosis During COVID-19

What is Mucormycosis?

A fungal infection mainly affecting people with medical health problems that reduces their ability to fight environmental pathogens.

1366

Mold spores get into your nose and can caus allergy symptoms.

They can also get into your lungs and trigger asthma.





CANARA COLLEGE

MANGLORE





AWARENESS OF BLACK FUNGUS



WHAT IS BLACK FUNGAL INFECTION IN COVID?

We've seen reports from India of infections with mucormycosis, often termed "black fungus", in patients with Covid-19, or who are recovering from the coronavirus.

WHAT HAPPENS IN BLACK FUNGUS?

Mucormycosis is a fungal infection that causes blackening or discolouration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing blood. Mucormycosis is caused by exposure to mucor mould, which is commonly found in soil, air and even in the nose and mucus of humans

HOW IS BLACK FUNGUS TRANSMITTED?

Mucormycosis or black fungus is a complication caused by a fungal infection. People catch mucormycosis by coming in contact with the fungal spores in the environment. It can also develop on the skin after the fungus enters the skin through a cut, scrape, burn, or other types of skin trauma



STAY HOME AND STAY.



K Deepesh Rao 1st B.com D



MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME CANARA COLLEGE

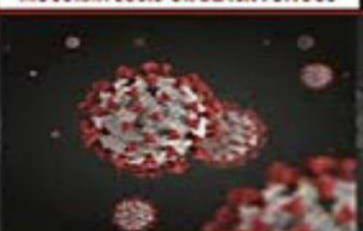




BLACK FUNGUS MUCORMYCOSIS

COVID CAUSING FUNGAL INFECTION?

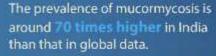
MUCORMYCOSIS OR BLACK FUNGUS



CAN BE LIFE THREATENING FOR IMMUNOCOMPROMISED PATIENTS

BLACK FUNGUS SHADOW

(MUCORMYCOSIS)



Due to the spotlight on Coronavirus, the black fungus remains lurking in its shadow.







Akanksh k 1Bcom "A" 1205



NATIONAL SERVICE SCHEME CANARA COLLEGE MANGLORE, KARNATAKA

50-60%



- It is caused by a group of fungus called micromycetes
- patients having diabetes, HIV/
 AIDS, cancer and those on prolonged use of steroids in high doses fall in highrisk category
- Found in one individual in 8 lakh but frequent after Covid

outbreak

- Treated with antifungal drugs
- in clude sinusitis, nasal congestion, facial pain or numbness, blackish discoloration over the bridge of the nose, toothache, blurred or double vision,

and chest pain







MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME



BLACK FUNGUS WARNING BELLS

WHEN VULNERABLE

- Uncontrolled diabetes
- Immuno-supression by steroids
- Prolonged ICU stay
- Co-morbidities-post transplant/ malignancy
- Voriconazole therapy

HOW TO PREVENT

- Use mask if you are visiting dusty construction sites
- Wear shoes, long trousers, long sleeve shirts and gloves while handling soil (gardening)
- Maintain personal hygiene including scrub bath

DO"

- Control hyperglycemia
- Monitor blood glucose level post Covid
- Use steroids judiciously correct time, dose and duration
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- Use antibiotics/antifungals



DONT'S

- Dont miss warning signs and symptoms
- Don't consider all blocked nose cases as of bacterial sinusitis, especially in context of immunosuppression / Covid 19 patient immunomodulators
- Do not hesitate to seek aggressive medical investigations
- Do not lose time to initiate
 mucormycosis treatment

WHEN TO SUSPECT

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- Blurred or double vision with pain; fever, skin lesions, thrombosis and necrosis
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HOW TO MANAGE THE DISEASE

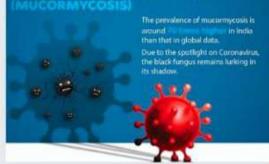
- Control diabetes
- Reduce steroids
- Maintain adequate systemic hydration
- Infuse normal saline
 (IV) before amphotericin
 B infusion
- Anti-fungal therapy for at least 4 to 6 weeks

SYMPTOMS

- > Headache
- Numbness in face/ radiating pain in cheeks
- Nasal block/ nasal discharge tinged with blood/ black pigments
- Redness, pain and swelling of eye
- Drooping of eyelids/ double vision
- > Toothache, loose tooth



BLACK FUNGUS SHADOW





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NATIONAL SERVICE SCHEME CANARA COLLEGE MANGLORE



manvith Bhaskar thokkottu 1419 1st bcom c

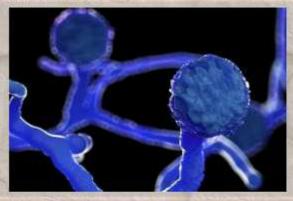
How does one catch black fungus?

Primarily, fungal spore floating in the environment give people this infection. One may also catch it when the fungus "enters the skin through a cut, burn, or other types of skin trauma."

On coming in touch, the fungus can stick to a body part, and after a point travel inward through the nose, sinus or lungs.

What are the symptoms of mucormycosis?
Some early signs of the condition include "sinus pain or nasal blockage on one side of the face, one-sided headache, swelling or numbness, toothache and loosening of teeth," says the Indian Council of Medical Research (ICMR).

According to reports from various top hospitals across India, patients are reporting "blurred vision, discoloration or blackening of tissue on nose and cheeks and black lesions inside the mouth or discharge from nose."



Who kind of people are more at risk?

According to medical science, diabetes patients are majorly vulnerable to fungal infections such as mucormycosis. So are immuno-suppressed people who have been recently cured of Covid.

Particular care is required for Covid patients who are also diabetic. ICMR says that controlling diabetes is among the best preventive measures for this disease.

The disease is being majorly seen in people who have recovered from Covid, or are recovering, the Union Health ministry said.

Without treatment, it can lead to lethal bloodstream infection.

now are black fungus cases treated?

After infecting a person, the fungus doesn't remain static but spreads through the nose, attacks the eyes, and eventually reaches the brain, at which point it becomes potentially deadly. This necessitates multi-discipline expertise to treat it.

In a majority of cases, especially if undetected for long, a number of different parts end up getting affected by mucormycosis. So it calls for a combined team of microbiologists, internal medicine specialists, intensivist neurologists, ENT specialists, ophthalmologists, dentists, surgeons, etc.

As part of life-saving procedures, all infected tissues have to be surgically removed. Some patients end up losing the eye/s and, in some cases, the upper jaw.

Patients might need an intravenous anti-fungal procedure spanning four to six weeks.

How risky is this condition?
The fatality rate in mucormycosis cases is very high.

As per data available thus far, mortality is as high as 80% if a patient goes untreated, or remains untreated long. If treated, it is still 40–50%. In cases where the infection is caught at the the sinus stage itself, patients mostly completely recover.

Besides, according to doctors, drugs used for treating this condition come with strong side-effects. That can, in some cases, lead to "kidney issues, neurological dysfunction and stroke".



<u>Canara degree college</u> <u>MANGLORE</u> National service scheme



Black fungus awareness compaign

Symptoms of Mucormycosis

The symptoms of mucormycosis will depend on where in your body the fungus is growing. They may include:

- Fever
- Cough
- Chest pain
- · Shortness of breath
- · Swelling on one side of your face
- Headache
- Sinus congestion
- Black lesions on the bridge of your nose or the inside of your mouth
- · Belly pain
- Nausea and vomiting
- Gastrointestinal bleeding
- · Blood in your stool
- Diarrhea

Mucormycosis mainly affects people who have health problems or take medicines that lower the body's ability to fight germs and sickness.

Who kind of people are more at risk?

According to medical science, diabetes patients are majorly vulnerable to fungal infections such as mucormycosis. So are immuno-suppressed people who have been recently cured of Covid.

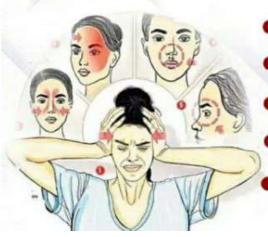
DON'T PANIC ABOUT MUCORMYCOSIS



- Develops on wet surfaces
- Often infecting patients with diabetics
- Precautions can prevent outbreak
- Immunosuppression also important factor, not just COVID

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STEPS TO PREVENT MUCORMYCOSIS



- Keep blood sugar under check Covid or no Covid
- Use steroids judiciously while treating Covid
- Use clean water in humidifier used for O2 support
- Maintain overall cleanliness around patients
- Any oral ulcer should be treated immediately





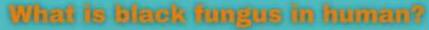
NATIONAL SERVICE SCHEME

CANARA COLLEGE



Mangalore

Black Fungus Awareness Campaign



Mucormycosis, or "black fungus", usually infects people whose immune system has been compromised, causing blackening or discolouration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing blood.

What is the symptoms of Black Fungue

- 1.Pain and redness around eyes and nose
- 2.Fever
- 3.Headache
- 4.Shortness of breath
- 5.Toothache

How is Black Fungus Treated?

- 1.Control hyperglycemia
- 2.Antifungal treatment
- 3. Surgical debridement
- 4.Radiological monitoring

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CANARA COLLEGE MANGALORE National Service Scheme

BLACK FUNGUS AWARENESS CAMPAIGN



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Source Times of India



Black fungus is a type of fungus, called Mucor belonging to Mucorales species. It is found in environment especially in decaying materials and soil.



Reasons

Disease caused by wearing dirty masks

Many medical experts believe that black fungus infection can occur if clean masks are not worn and the rooms are poorly Ventilated.

Improper use of steroids

the main reason for black fungus infection is 'improper use of steroids'.

Precautions

Wearing masks is compulsory. Fungal spores found in air can easily enter the body through the nose.

*Maintenance of good hygiene and cleanliness is a must. Regular oral hygiene care with mouthwash, povidone-iodine gargles must be done. *While administering oxygen, water for humidification must be sterile and there should be no leakage from the humidifier.

*Steroid usage must be limited to no more than necessary with strict blood glucose control.

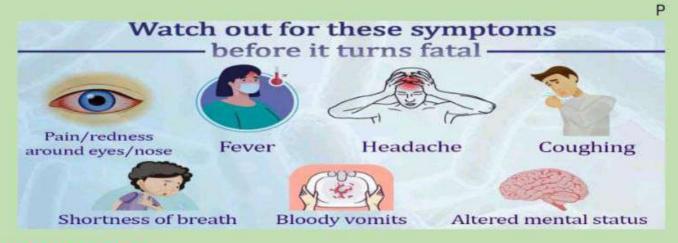
> HARSHITHA 2ND B.COM B 2301



BLACK FUNGUS AWARENESS CAMPAIGN



BLACK FUNGUS
IS REPORTED
AROUND THE
NOSE,EYES AND
BRAIN-A
CLINICAL
MANIFESTATION
SOMETIMES
REFFERED TO AS
RHINO-ORBITALMUCORMYCOSIS



PREVENSION

TAKING CARE OF MOUTH BY BRUSHING TWICE A DAY AND TAKING ORAL CLEANUPSCAN HELP EXCEEDINGLY.

DEEPA SHETTY 2605 - 2ND BCA



BLACK FUNGUS AWARENESS CAMPAIGN

WHAT IS BLACK FUNGUS?

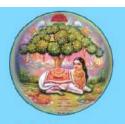
IT'S CAUSED BY A GROUP OF MOLDS CALLED MUCORMYCETES.
BLACK FUNGUS CAUSED BY A MOULD FOUND IN SOIL &IN
DECAYING ORGANIC MATTER LIKE ROOTTING LEAVES.

WHAT IS THE SYMPTOM OF BLACK FUNGUS?

THE SYMPTOMS INCLUDE UNILATERAL NASAL OBSTRUCTION, FACIAL PAIN, SWELLING, NUMBNESS, BLURRING OF VISION, DOUBLE VISION.



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CANARA COLLEGE, MANGALORE BLACK FUNGUS AWARENESS CAMPAIGN



WHAT IS MUCORMYCOSIS?

A serious but rare fungal infection caused by a group of molds called Mucormycosis. which mainly effects brain and lungs

REASONS

VORICONAZOLE THERAPY UNCONTROLLED DIABETES STEROIDS PROLONGED ICU STAY

PRECAUTION

CHANGE OXYGEN MASK USE STEROIDS JUDICIOUSLY CONTROL DIABETES

TREATMENT

INTRAVENOUS ANTI FUNGAL MEDICATION AMPHOTERICIN B SURGICAL REMOVAL OF INFECTED TISSUE

By: Samsthita.S, 1st B.SC, PCM, (1073)



CANARA COLLEGE, MANGALORE





ECURATING HEADACHES

After the patient inhales the moulds present in the air, it travels down to nerves and sinus cavities causing, an extreme headache.

<u>← English</u>



WHAT IS

BLACK FUNGUS?

Black fungus or Mucormycosis is a deadly fungal infection found in some COVID-19 patients with uncontrolled diabetes and prolonged ICU stay. It is known to affect the brain and lungs.

WHAT ARE THE MAJOR RISK FACTORS?



Malignancy
 Voriconazole therapy (anti-fungal medication)



VISION IMPAIRMENT

Vision distortion or changes to the eyes can be one of the signs of this infection. Not just this, the patient can also experience swelling in an eye, poor or hazy vision or bloodshot eyes.



INDIA

SUFFERS



USING SAME MASK FOR 2-3 WEEKS COULD LEAD TO BLACK FUNGUS DEVELOPMENT

STAY SAFE

STAY HOME

AIIMS DOCTOR



DISCOLOURATION AROUND THE BRIDGE OF THE NOSE

Patients can experience black patches around the nose and eyes. Apart from this, the fungal infection can also cause the loss of teeth



AFFECT MENTAL STATE

This infection can travel up to the brain causing, symptoms like memory loss, altered mental state, delirium or neurological impairment



SWELLING ON FACE

Swelling and pain in the eyes, cheeks and other parts of the face can be warning signs of mucormycosis infection. Not just this, it can also affect the skin giving rise to multiple necrosis, lesions like symptoms

<u>←</u> English

PRATHEESH MALLI,1064 1st Year B.Sc (PCM)





campaign

What is the black fungus?

As India struggles with a deadly second wave of Covid-19, cases of a rare fungal infection called "mucormycosis" have been reported in several states. Also known as black fungus, the life-threatening disease has infected many Covid-19 patients including those who have recovered.

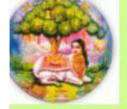
Black Fungus Symptoms: Identify signs & symptoms of mucormycosis in COVID cases

Mucormycosis, also known as black fungus, is caused by a group of molds called mucormycetes. It is very important to identify the signs and symptoms of black fungus infection because it can turn dangerous if left untreated. Also know what are the dos and don'ts in COVID patients.



Navitha Shetty 2464 2Bcom C

source Times of India



CANARA COLLEGE MANGALORE



NATIONAL SERVICE SCHEME

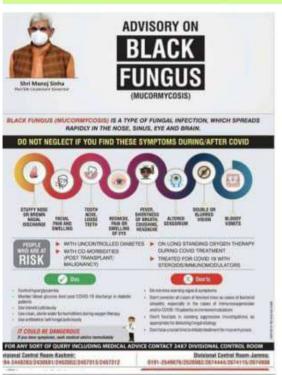
BLACK FUNGUS AWARENESS



CAMPAIGN

What is black fungus? COVID -19 associated mucormycosis, commonly is the association of

referred to as black fungus. mucormycosis with COVID -19.It has been reported around the nose, eyes and brain. **ADVISORY ON**



wht is the symptoms of black fungus?

> 1.Fever 2.Pain in eves 3.Headache 4.swelling in eyes

How is black fungus treated? Antifungal drug ampho B is used for treatment, which is commonly used for the treatment of the infection.



BLACK FUNGUS WARNING BELLS

WHEN VULNERABLE

- Uncontrolled diabetes

HOW TO PREVENT

- Use mask if you are visiting dusty construction sites
- Wear shoes, long trousers, ong sleeve shirts and gloves.
- while handling soil (gardening)

- Monitor blood glucose level post Covid

- Dont miss warning signs and symptoms
- Don't consider all blocked nose cases as of bacterial simusitis, especially in context of immunotuppression / Covid 19 patient immunomodulators Do not hesitate to seek
- Do not lose time to loitiate

WHEN TO SUSPECT

- UNUSTRE Nasal congestion, nasal discharge (blackist/ bloody), local pain or
- One-sided facial pair
- numbress or swelling
- Blurred or double vis

- Control diabetes
- Reduce steroids
- systemic hydration
- Infisse normal saline
 (IV) before amphotericin
 B infusion
- Anti-fungal therapy for at least 4 to 6 weeks













KAVYA SHETTY 2nd Bcom. C 2452

source:TIMES OF INDIA

CANARA COLLEGE, MANGALORE



NATIONAL SERVICE SCHEME



BLACK FUNGUS AWARENESSCAMPAIGN

As per the Ministry of Health, the infection is getting detected amongst people recovering or recovered from COVID-19. People prone to the infection are the ones undergoing oxygen therapy in ICU, where a humidifier is used, which makes people more prone to infection due to exposure to moisture.

The use of ordinary tap water in the flow meters of the oxygen cylinders is also blamed for fungal infection.

Cases can also be triggered by "mould-tainted oxygen piper and humidifiers".

Not just this, weak immune system, too much steroid consumption, voriconazole therapy and diabetes also put patients at greater risk of infection.

Some doctors believe that black fungus took root when patients were given at -home COVID treatment without bringing the blood sugar levels under control.Lorem lpsum

Symptoms of black fungus

Common symptoms of black fungus include discolouration of the nose and tongue, blurry vision, breathing problems, chest pain, coughing along with blood, redness in the eyes, fever, cough, headache, black lesion inside the mouth and vomiting.

Source Hindu

Anvitha alva 2626 2ºd BCA



MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME CANARA COLLEGE

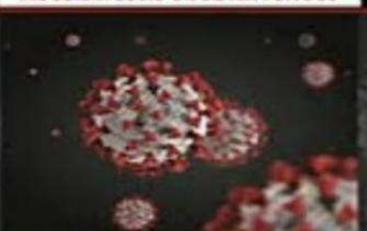




BLACK FUNGUS MUCORMYCOSIS

COVID CAUSING FUNGAL INFECTION?

MUCORMYCOSIS OR BLACK FUNGUS



CAN BE LIFE THREATENING FOR IMMUNOCOMPROMISED PATIENTS

BLACK FUNGUS SHADOW

(MUCORMYCOSIS)

The prevalence of mucormycosis is around 70 times higher in India than that in global data.

Due to the spotlight on Coronavirus, the black fungus remains lurking in its shadow.

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CANARA COLLEGE, MANGALURU

NATIONAL SERVICE SCHEME



BLACK FUNGUS AWARENESS CAMPAIGN

WHAT IS MUCORMYCOSIS, COMMONLY KNOWN AS BLACK FUNGUS?

A fungal infection mainly affecting people with medical health problems that reduce their ability to fight environmental pathogens.

How does a patient get predisposed to Mucormycosis?

Those with comorbidities or having voriconazole therapy, uncontrolled diabetes mellitus, immunosuppression by steroids or prolonged ICU stay can get predisposed to the fungal infection.

Symptoms of Mucormycosis

Pain or redness around the eyes or nose, fever, headache, coughing, shortness of breath, bloody vomit and altered mental status are the symptoms of the infection.

Black fungus: Dos and don'ts

People have been advised to control hyperglycaemia, keep a tab on blood glucose level after COVID-19 discharge and in diabetics, to use clean, sterile water for humidifiers during oxygen therapy, judicious use of steroid, antibiotics/antifungal.

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NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARNESS CAMPAIGN

WHAT IS BLACK FUNGUS?





Black fungus

COVID-19 condition

COVID-19-associated mucormycosis, commonly referred to as black fungus, is the association of mucormycosis with COVID-19. It has been reported around the nose, eyes and brain – a clinical manifestation sometimes referred to as 'rhino-orbital-cerebral mucormycosis'. Wikipedia

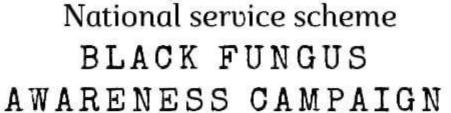
WHY BLACK FUNGUS IS SO DANGEROUS?



The doctor explains that black fungus can cause blindness, organ dysfunction, loss of body tissue, and even death if not treated on time. She says, "Active screening and early intervention are a must. It can affect areas from where it can be inhaled through the nose/ sinus/ lung. If it enters from a wound or skin, it can cause a local infection. But if it enters from the sinus, it can involve the eyes and brain. Poor control in Diabetes is the biggest cause for the rising number especially post-COVID. Also, patients with immune-compromised systems or those who have undergone transplants or people who are on immunosuppressants or on a ventilator for a long period of time are at higher risk."

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BLACK FUNGUS: A QUICK GUIDE

PREVENTION



Use masks if you are visiting dusty construction sites



Wear shoes, long trousers, long sleeve shirts, gloves while handling soil (garbening), moss or manure



Maintain personal hygiene including thorough scrub bath

- Control hyperglycemia
- Monitor blood glucose level post COVID-19 discharge, also in diabetics
- Use steroid judiciously correct timing, correct dose and duration
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungats judiciously

DON'TS

- Do not miss warning signs. symptoms
- Do not consider all cases with blocked nose as bacterial sinusitis
- Do not hesitate to seek aggressive investigations
- Do not lose crucial time to initiate treatment for mucormycosis

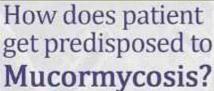
Mucomycosis During COVID-19

What is Mucormycosis?

A fungal infection mainly affecting people with medical health problems that reduces their ability to fight environmental pathogens.



NEWS 18





Co-morbities post transplant/ malignancy



Voriconazole therapy



Uncontrolled diabetes mellitus



Immunosuppression by steroids



Prolonged ICU stay

Watch out for these symptoms before it turns fatal in/redness Fever Headache Cough nd eyes/nose Shortness of breath Bloody vomits Altered mental st

Source:ndty

*SUJNAN A M II BSC BZC 2030



Black fungus awareness campaign

How does black fungus enter the body?

As noted by an article in Firstpost, the underlying cause of the disease in India is the unhygienic way of delivering oxygen to patients in many places, combined with the indiscriminate use of steroids in the treatment of COVID.

How serious is black fungus?

The symptoms of black fungus/mucormycosis are pain/stuffiness in the nose, inflammation on cheeks, fungus patch inside the mouth and swelling in the eyelids.

Can black fungus spread from one person to another?

The disease is not contagious and doesn't spread from one person to another.

What you should do if you experience symptoms?

In case of symptoms, medical advice should be sought immediately.

Doctors perform MRI and CT scan of





Srushti 2435 2nd bcom c



MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME CANARA COLLEGE





Manish shetty 1311 1 bcom b



THE REPORT OF THE PARTY OF THE

Mangalore

Black Fungus Awareness Campaign

As per the Ministry of Health, the infection is getting defected amongst people recovering or recovered from Covid 19. The infection can affect the sinuses, brain and lungs. If not treated on time, it can be life threatening. Common symptoms of black fungus includes blurry vision, breathing problems, chest pain etc. Amphotericin-B injection is the prime treatment for the treatment of this fungal infection.

Source: Times of India Name: Prithviraj U Melanta

Class: 1st B Com 'D'

Roll no: 1554



CANARA COLLEGE MANGALORE



NATIONAL SERVICE SCHEME

AWARENESS CAMPAIGN ON BLACK FUNGUS









Source:vijayvani

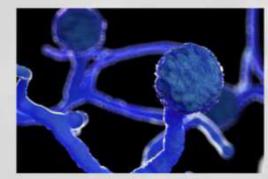
AJITH .M.M 2ND BSE 2II2



Black Fungus Awareness Campaign

What is Black Fungus or Mucormycosis?

Mucormycosis, or black fungus is a rare fungal infection, affecting patients who have recently recovered from COVID-19.



lst B.Com

Mucormýcosis or black fungus is an aggressive and invasive fungal infection caused by a group of molds called mucormycetes.

What are the symptoms of Black Fungus?

Fever, headache, reddish and swollen skin over nose and sinuses, dark scabbing in the nose by eye(s), visual problems, eye(s) swelling, facial pain, coughing sometimes with bloody or dark fluid production, shortness of breath, diffuse abdominal pain, bloody and sometimes dark vomitus, abdominal distension, flank pain.

What's the treatment for Black Fungus?

While it is treated with antifungals, mucormycosis may eventually require surgery. Doctors have said that it is of utmost importance to control diabetes, reduce steroid use, and discontinue immunomodulating drugs. To maintain adequate systemic hydration, the treatment includes infusion of normal saline (IV) before infusion of amphotericin B and antifungal therapy, for at least 4-6 weeks.





MANGLORE





AWARENESS OF BLACK FUNGUS



WHAT IS THE BLACK FUNGUS DISEASES

STATES ACROSS INDIA HAVE BEGUN DECLARING A 'BLACK FUNGUS' EPIDEMIC AS CASES OF THE FATAL RARE INFECTION SHOOT UP IN PATIENTS RECOVERING FROM COVID-19. THE FUNGAL DISEASE, CALLED MUCORMYCOSIS, HAS A 50% MORTALITY RATE.4 DAYS AGO

WHAT HAPPENS IN BLACK FUNGUS?

The rare infection is believed to be triggered by the use of steroids in severe Covid patients. India's states should declare an epidemic following a rise in deadly "black fungus" cases, the country's health authorities has said.

WHAT IS THE PREVENTION OF BLACK FUNGUS

Wearing masks is compulsory. Fungal spores found in air can easily enter the body through the nose. This makes masking up doubly important, in preventing infection. People who work at or visit construction sites should specifically pay attention to this.



STAYHOME AND STAY SAFE





Supriya jadhav 1st B.com D 1506



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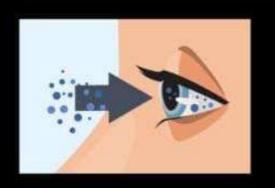
BLACK FUNGUS AWARENESS PROGRAMME



What happens in black fungus?

Mucormycosis is a fungal infection that causes blackening or discolouration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing blood. Mucormycosis is caused by exposure to mucor mould, which is commonly found in soil, air and even in the nose and mucus of humans.



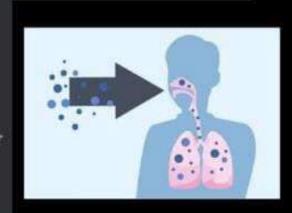


Why is black fungus happening?

It is caused by exposure to mucor mould which is commonly found in soil, plants, manure, and decaying fruits and vegetables. "It is ubiquitous and found in soil and air and even in the nose and mucus of healthy people," says Dr Akshay Nair, a Mumbai-based eye surgeon.

How we can prevent black fungus?

To prevent black fungus, he said that mortified oxygen should be used during the COVID-19 treatment and people should keep a check on their blood sugar level. "The treatment of black fungus can continue for 1-1.5 months.

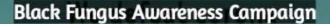


Devaki bist 2nd BCOM A 2263



CANARA COLLEGE, MANGALORE

National Service Scheme





MUCORMYCOSIS/

BLACK FUNGUS

A fungal infection

affecting immunocompromised individuals recovering from Covid-19.

CONDITIONS AFFECTING:

- ~Abuse of steroids
- -Uncontrolled Diabetes
- ~Cancer, AIDS
- -Other Immuno-compromised conditions

SYMPTOMS

- -Runny nose/ Mucus discharge
- -Black crusts around nose
- -Nosebleed
- -Blocked nose
- -Headaches
- -Swelling of eyes or cheeks
- ~Blurred vision/Vision loss

It does not spread as easily as
Covid and by far can only
happen in people with
compromised immunity.

DO NOT PANIC!

The symptoms are too common so knowing the cause is more important than the symptoms for Diagnosis.

Wear A Mask A Clean Mask

> MOHITH KUMAR 2090 2nd Bsc [PCM]





MANGALORE

NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARENESS CAMPAIGN

Who can get mucormycosis?

The infection which is caused by a group of molds/fungus is abundant in the environment. People having sinus problems or those who are on medication for lung problems, have diabetes, cancer, organ transplant, are hospitalised or recovering Covid-19 infection, are susceptible to get the infection. The covid-19 infection has created an ideal environment for fungus Mucorales spores to grow and spread.

What is the treatment for black fungus?

An IE report noted that normal saline (IV) infusion is administered for 4-6 weeks before the administration of antifungal Amphotericin B dose. This dose is given according to 3-4 mg per kg of body weight per day. In some cases, surgery may be required.

WHAT ARE THE SYMPTOMS?

- FEVER
- · SHORTNESS OF BREATH
- · COUGHING
- · BLURRED OR DOUBLE VISION
- · LOOSENING OF TEETH
- · ONE SIDED FACIAL PAIN
- · CHEST PAIN

Preventions

- · Wear clean mask.
- Wear long clothes and have less exposure to skin.
- For diabetic and other immune-compromised people, controlling sugar levels and blood glucose is a must.
- People who are prescribed steroids should be constantly monitored and the dosage should be reduced in consultation with your doctor.

Manisha.B II Bsc PMC 2117



National Service scheme
Black Fungus Awareness
Campaign



What is Black Fungus?

COVID-19 associated Mucormycosis commanly referred to as Black Fungus

Symptoms

1) headache 2)redness in the eye/nose 3) blood vomiting

- 4) shortness of breath
- altered mental state
 sinusitis
- 7) blurry or double vision with pain 8) toothache and loosing of teeth

Patients with uncontrolled diabetes, patients on anticancer treatment, patients on high dose steroids, patients on oxygen support are at a higher risk

Geethanjali.M 2nd B.Sc(B.Z.C) 2004





MANGALORE





BLACK FUNGUS AWARENESS CAMPAIGN

WHAT IS MUCORMYCOSIS?

Serious but rare fungal infection caused by a group of molds called mucormycetes

Affects those with underlying health issues or people who take medicines that lower body's ability to fight germs and sickness

Affects the sinuses or the lungs after inhaling fungal spores from the air. It can also occur on the skin after a cut or a burn

What to watch out for

Headache, facial pain, nasal congestion, loss of vision or pain in the eyes, swelling in cheeks and eyes, and black crusts in the nose

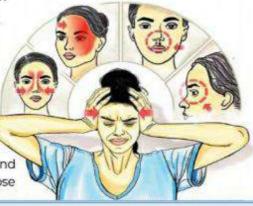
Fatal if goes untreated for a long time

If it infects the lungs or the brain, it can cause:

- Paralysis
- Pneumonia
- Seizure
- Death

How is it treated?

The first steps in treating mucormycosis is intravenous antifungal medications and surgical removal of infected tissue



How does patient get predisposed to

Mucormycosis?



Co-morbities post transplant/ malignancy



Voriconazole therapy



Uncontrolled diabetes mellitus



Immunosuppression by steroids



Prolonged ICU stay

WHO ARE AT MM RISK

- Diabetics most vulnerable as fungus feeds on sugar
- Heavy steroid use in Covid-19 treatment
- Patients kept on humidified oxygen

PREVENTION



Use masks if you are visiting dusty construction sites



Wear shoes, long trousers, long sleeve shirts, gloves while handling soil (garbening), moss or manure



Maintain personal hygiene including thorough scrub bath

DOs

- Control hyperglycemia
- Monitor blood glucose level post COVID-19 discharge, also in diabetics
- Use steroid judiciously correct timing, correct dose and duration
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungals judiciously

DON'TS

- Do not miss warning signs, symptoms
- Do not consider all cases with blocked nose as bacterial sinusitis
- Do not hesitate to seek aggressive investigations
- Do not lose crucial time to initiate treatment for mucormycosis



Diabetics should be extra-cautious and bring sugar under control

Doctors should avoid rampant use of steroids unless deemed life saving in Covid





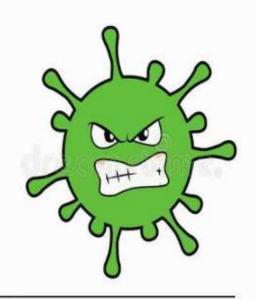


National Service Scheme

Black Fungus Awareness campaign

What is black Fungus?

COVID-19-associated
mucormycosis commonly referred
to as black fungus, is the
association of mucormycosis (an
aggressive fungal infection)
with COVID-19. It has been
reported around the nose, eyes and
brain – a clinical manifestation
sometimes referred to as
'rhino-orbital-cerebral (ROC)
mucormycosis'. The condition does
not spread person to person and is
not contagious



TIME TO BE MORE VIGILANT

Common early symptoms

- Facial pain or numbness or swelling
- Nasal blockade or congestion, with bloody or brown/ black nasal discharge
- > Headache, loss of vision
- Toothache, jaw involvement
- Blurred or double vision with pain



Who needs to be careful

- Patients with uncontrolled diabetes
- Covid patients

What can help patients

- Universal masking
- Look for early symptoms and immediately seek medical help
- Those on long-term steroids
- Chemotherapy and post-transplant patients

What hospitals should do

- Strict aseptic precautions while administering oxygen to patients
- Conduct
 periodic
 aeromycological
 study to assess
 the presence
 and to quantify
 the fungal spore
 count in all ICUs

STAY HOME STAY SAFE

Name:Akshay kumar Class:2nd bsc(pcm) Roll no:2076



NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARENESS CAMPAIGN









COVID-19 : January, 2020 Black fungus : April, 2021 White fungus : May, 2021 What do you think about India's Future?

मास्क में नमी से फैल रहा ब्लैक फंगस

शाह टाइम्स ब्यूरो सहारवपुरा देश में कॉविट - 19 के मीजों में 'म्यूकोस्मापकोतित (जनेक फंग्स) के मानले पृद्धि को मारकों में नहीं होना माना जा ठात है। वरिष्ठ नेत्र रोग चित्रीयत छा. एसएस आता ने शुक्रकार को कार्यांति में कहा के प्रत्येक प्रयोग मानक इस रोग होने के पीड़े सम्बी अवधि कहा इस्तेमाल

किया गया मास्क हो सकता है।

मास्था घर जमा होने बाली पान्यों के काण से आंखों में फोमा प्रिकेशन होने की संभावन सहते हैं। मास्था में बची होने पर भी इस प्रकार में इन्यरंबशन हो सकते हैं। दा. ततन ने बताया कि आईसीयू में भागे काबिद - 19 के बोरीय को लग्ये समय कर इस्ताब के सनय समागर जा रहे ऑफ्सीयन के कारण भी नड फोमस इन्फेस्बान हो सकता है। उन्होंने सताया काबिड पंशेन्ट को स्टेग्यंड की हाई डीच दी चाती है, तब मरीज का शुगर लेवात बहुने से इस तरह के



मास्क पर जमा होने वाली गन्दमी के कथा से आंखों में इंफेक्शन होने की संभावना रहती हैं: नेत्र रोग विजेषत्र

संक्रमण बढ़ने की जयार संभावना होती है। जा लाल ने काराया कि क्रमण के सक्रमण की शुरुआत नाक में होती है। जक में ब्राटन या लाल कलर का म्युकंस जब बातर

निकलता है, तो यह शुरुआवी लक्षण ब्लेक फंगम का माना जाता है, फिर यह थीरे-धीरे अखि में यहूंच जात है। नेजॉ में साली पन , दिस्कार्थ होना , कन्जविटवार्डेटिंग में सक्षण इस रोग में उचरते हैं। नेशों में अयंकर पोड़ा होती है और फिर विजन पूरी तरह समाप्त हो जाता है। दन्होंने कहा कि मेर्डिकल कालेज में जीक फीग्स के इलाव के समुचित इलाजाम किए गा, हैं । इलाज समय पर होने में रोगी को बचाया जा सकता है। जिला अस्पताल में ही कार्यरत नेप रोग विशेषत हा, केशन स्मामी ने मतामा कि फंगरा नातावरण में पाया जाता है । बरसात के मीसम में ब्लेक फंगस कैलने की आशंका अधिक होती है। कोविट -19 से रिकंबर हुए लोग प्रतिदिन मास्क को डिटोल में धोकर धूप में सुखा कर ही पहने। इस फांगस का असर नेजों के रेटिना पर पदता है पिए ग्रेन , नवेस सिस्टम व इदय तक हो जाने में मृत्य तक हो जाती हैं।

H.Rahul.R.Shenoy 2nd bsc pcm 2057



CANARA COLLEGE, MANGALORE NATIONAL SERVICE SCHEME



AWARENESS CAMPAIGN ON BLACK FUNGUS

What is Mucormycosis? Mucormycosis, commonly known as 'Black Fungus' has been observed in a number of Covid-19 patients recently. A fungal infection mainly affecting people with medical health problems that reduce their ability to fight environmental pathogens.





- Control hyperglycaemia
- Monitor blood glucose level post COVID-19 discharge & in diabetics
- Use steroid judiciously
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/ anti fungal judiciously



- Do not miss warning signs & symptoms
- Don't consider all cases of blocked nose as cases of bacterial sinusitis, especially in the cases of immunosuppression and/ or COVID-19 patients on immunomodulators
- Don't hesitate in seeking aggressive investigations as appropriate for detecting fungal etiology
- Don't lose crucial time to initiate treatment for mucormycosis

ANUSHREE

2ND BSC 2113

SOURCE: TIMES OF INDIA



National Service Scheme

Black Fungus Awareness Campaign



Are these infections life threatening?

These infections are very lethal, and if not treated most will not make it.

The mortality ranges between 25 to 90%. Once the infection spreads into the brain mortality is very high.

Hence a lot of importance is given to early diagnosis and prompt institution of treatment.

Preventive measures

- >Masks should be disinfected daily
- >Stay indoors as much as possible.
- >Maintain oral and nasal hygiene.
- >Regular exercises.
- >Control of blood sugars.

TEJASWINI. N II BSC(BZC) 2031



CANARA COLLEGE, MANGALORE

NATIONAL SERVICE SCHEME



AWARENESS CAMPAIGN ON BLACK FUNGUS

WHAT CAUSES MUCORMYCOSIS?

Mucormycosisor black fungus is a complication caused by fungal infection. The disease is being



detected among patients who are recovering or have recovered from Covid. Moreover, anyone who

is diabetic and whose immune system is not functioning well needs to be on guard against this

According to an advisory issued by the Indian Council of Medical Research, the following conditions in Covid patients increase the risk of mucormycosis infection

- Uncontrolled diabetes
- Weakening of immune system due to use of steroids



Prolonged ICU/ hospital stay

Co-morbidities/postorgan transplant/cancer

Voriconazole therapy (used to treat serious fungal infections)



WHAT ARE THE COMMON SYMPTOMS?

Mucormycosis begins to manifest as a skin infection in the air pockets located behind our forehead, nose, cheekbones and in between eyes and teeth. It then spreads to eyes, lungs and can even spread to the brain. It leads to blackening or discoloration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing of blood

HOW IS IT TREATED?

While the infection may just begin with skin infection, it can spread to other parts of the body. Treatment involves surgically removing all dead and infected tissue. In some patients, this may result in loss of upper jaw or sometime even the eye. Cure may also involve a 4-6 week course of intravenous anti-fungal therapy. Since it affects various parts of the body, treatment requires a team of microbiologists, internal medicine specialists, intensivist neurologists, ENT specialists, ophthalmologists, dentists, surgeons and others

WHEN TO SUSPECT

> Sinusitis - nasal blockade or congestion, nasal discharge (blackish/ bloody), local pain on the cheek bone

- One-sided facial pain, numbness or swelling
- Blackish discoloration over bridge of nose/balate
- Toothache, loosening of teeth, jaw involvement
- Blurred or double vision with pain; fever, skin lesion, thrombosis & necrosis (eschar)
 - Chest pain, pleural effusion, haemoptysis, worsening of respiratory symptoms

DO's

- Control hyperglycemia
- Monitor blood glucose level post Covid discharge and also in diabetics
- Use steroid judiciously correct timing, correct dose and duration
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/anti-fungals judiciously

DON'TS

Do not miss warning signs and symptoms



- Do not consider all cases with blocked nose as cases of bacterial sinusitis, particularly in the context of immuno suppression and/or Covid-19 patients on immuno modulators
- ➤ Do not hesitate to seek aggressive investigations as appropriate (KOH staining & microscopy, culture, MALDI-TOF) for detecting fungal etiology
- Do not lose crucial time to initiate treatment for mucomycosis

YUKTHA C KARKERA

2ND BSC 2111

SOURCE: TIMES OF INDIA

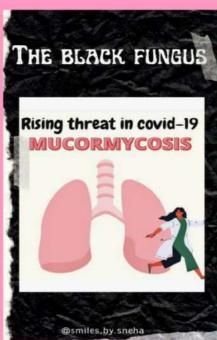


Canara College Mangaluru National Service Scheme

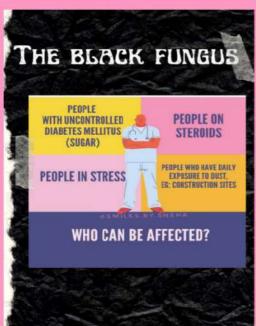




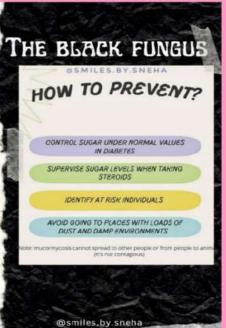




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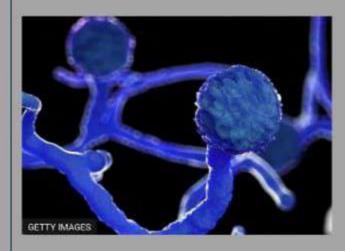




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• "You can protect yourself from getting this infection by keeping your sugars tightly controlled during Covid infection, checking sugars more frequently, using mask consistently, and maintaining personal hygiene. Steroids for Covid treatment should be used judiciously and strictly under doctor's supervision,"

People either develop this infection while recovering from Covid-19 infection or during Covid treatment. The commonality is that they are all diabetics," said Dr Jayant Kelwade, endocrinologist of Alexis hospital, where his job is to keep the sugar level of admitted Covid-19 patients under control



People with Diabetes have slightly dampened immune systems, meaning they already have an elevated risk of contracting fungus. Covid-19, which worse-affects people with diabetes, increases that risk even more. And then there are steroids, a medicine that can dampen the immune system,"

SOURCE: TIMES OF INDIA

Maintaining immunity is the most important point for post-Covid patients as fungus takes opportunity if immunity is lowered



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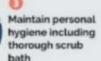
black fungus awareness campaign

BLACK FUNGUS: A QUICK GUIDE

REVENTION







- Control hyperglycemia
- . Monitor blood glucose level post COVID-19 discharge, also in diabetics
- · Use steroid judiciously correct timing, correct dose and duration
- . Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungats judiciously

- . Do not miss warning signs. symptoms
- . Do not consider all cases with blocked nose as bacterial sinusitis
- Do not hesitate to seek aggressive investigations
- . Do not lose crucial time to initiate treatment for mucormycosis



- Keep blood sugar under check Covid or no Covid
- Use steroids judiciously while treating Covid
- Use clean water in humidifier used for 02 support
- Maintain overall cleanliness around patients
- Any oral ulcer should be treated immediately









WHAT IS MUCORMYCOSIS?

Serious but rare fungal infection caused by a group of molds called mucormycetes

Affects those with underlying health issues or people who take medicines that lower body's ability to fight germs and sickness

Affects the sinuses or the lungs after inhaling fungal spores from the air. It can also occur on the skin after a cut or a burn

What to watch out for

Headache, facial pain, nasal congestion, loss of vision or pain in the eyes, swelling in cheeks and eyes, and black crusts in the nose

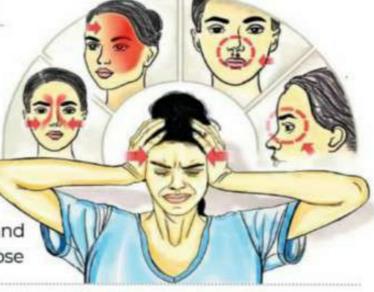
Fatal if goes untreated for a long time

If it infects the lungs or the brain, it can cause:

- Paralysis
- Pneumonia
- Seizure
- Death

How is it treated?

The first steps in treating mucormycosis is intravenous antifungal medications and surgical removal of infected tissue



Common antifungal medications

Amphotericin B

(given through an IV)

₹1,500 to ₹2,000 per injection

(Typically, patients need up to ten injections a day)

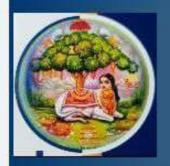
Liposomal

₹7,000 to ₹8,000 per injection

(Typically, patients need up to ten injections a day)

Minimum one month's hospitalisation

1st Bcom 'D' 1526



CANARA COLLEGE MANGALURU

Awareness About **Black Fungus**



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WHAT IS MUCORMYCOSIS?

Serious but rare fungal infection caused by a group of molds called mucormycetes

Affects those with underlying health issues or people who take medicines that lower body's ability to fight germs and sickness

Affects the sinuses or the lungs after inhaling fungal spores from the air. It can also occur on the skin after a cut or a burn

What to watch out for

Headache, facial pain, nasal congestion, loss of vision or pain in the eyes, swelling in cheeks and eyes, and black crusts in the nose

Fatal if goes untreated for a long time

If it infects the lungs or the brain, it can cause:

- Paralysis
- Pneumonia
- Seizure
- Death

How is it treated?

The first steps in treating mucormycosis is intravenous antifungal medications and surgical removal of infected tissue



Antifungal Drug Ampho B is used for treatment







Common antifungal medications

Amphotericin B

(given through an IV) ₹1,500 to ₹2,000 per injection (Typically, patients need

up to ten injections a day)

Liposomal

77,000 to 78,000 per injection. (Typically, patients need up to ten injections a day)

Minimum one month's hospitalisation





MANGLORE





WHAT IS THE BLACK FUNGUS

COVID-19-ASSOCIATED MUCORMYCOSIS, COMMONLY REFERRED TO AS BLACK FUNGUS, IS THE ASSOCIATION OF MUCORMYCOSIS (AN AGGRESSIVE FUNGAL INFECTION) WITH COVID-19 IT HAS BEEN REPORTED AROUND THE NOSE, EYES AND BRAIN

WHAT IS THE SYMPTOM OF BLACK FUNGUS

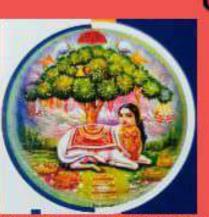
THE SYMPTOMS INCLUDE UNILATERAL NASAL OBSTRUCTION, FACIAL PAIN, SWELLING, NUMBNESS, BLURRING OF VISION, DOUBLE VISION OR WATERY EYES, S.K.E. APPARENTLY, ENT SURGEON AND PAST PRESIDENT OF THE INDIAN SOCIETY OF ONTOLOGY.

TREATMENT FOR BLACK FUNGUS

HIGH DEMAND LEADS TO SHORTAGE OF ANTI-FUNGAL DRUG AMPHO B TO TREAT BLACK FUNGUS. AS BLACK FUNGUS INFECTION ARE ON RISE, THERE HAS BEEN SUDDEN RISE IN DEMAND FOR ANTI-FUNGAL DRUG AMPHO B, WHICH IS COMMONLY USED FOR THE TREATMENT OF THE INFECTION



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canaba college Mangalore National Service scheme





Screening, Diagnosis & Management of Mucormycosis During COVID-19

What is Mucormycosis?

A fungal infection mainly affecting people with medical health problems that reduces their ability to fight environmental pathogens.

an you get black fungus

COVID-19?

Yes, Mucormycosis is a fungal infectio mostly found in patients with compromised immune system.



PRAKRATHI.R.SUVARNA IB.COM D 1551



CANARA COLLEGE,





How can a patient contract the infection?

People having co-morbities, variconazole therapy, uncontrolled diabetes mellitus, immunosuppression by steroids or prolonged ICU stay can get predisposed to the fungal infection.



Do's and Don'ts

"Don't consider all cases of blocked nose as cases of bacterial sinusitis, especially in the cases of immunosuppression and/ or COVID-19 patients on immunomodulators," minister advised in his tweet.



their ability to fight environmental pathogens.

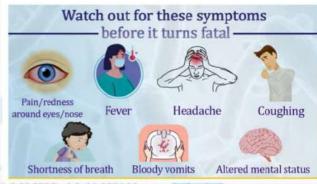
What is Mucormycosis?

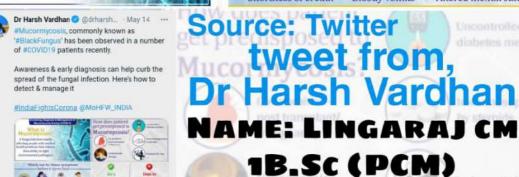
Mucormycosis is a fungal infection mainly affecting people with medical health problems that reduces their ability to fight environmental pathogens. People catch mucormycosis by coming in contact with the fungal spores in the environment. It can also develop on the skin after the fungus enters the skin through a cut, scrape, burn, or other type of skin trauma.



What are the symptoms of Mucormycosis?

Pain or redness around the eyes, fever, headache, coughing, shortness of breath, bloody vomit and altered mental status are possible symptoms of the infection, minister added.





therapy 1061



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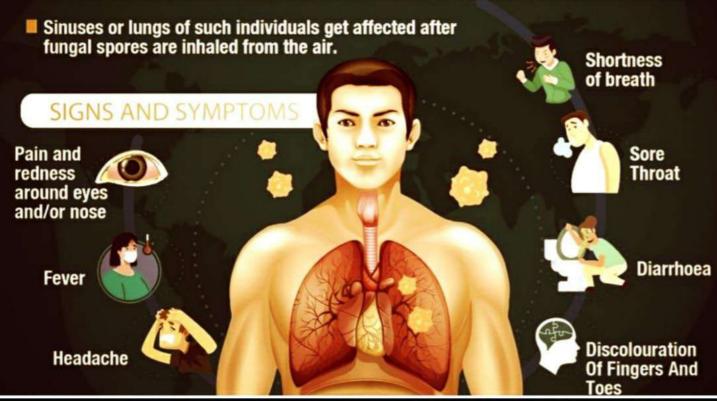
BLACK FUNGUS AWARENESS CAMPAIGN



UNDERSTANDING MUCORMYCOSIS

IF UNCARED FOR - MAY TURN FATAL

Mucormycosis is a fungal infection that mainly affects people who are on medication for other health problems that reduces their ability to fight environmental pathogens.



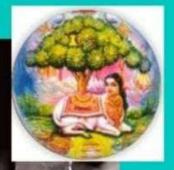
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CANARA COLLEGE NATIONAL SERVICE SCHEME

Mangaluru



Black Fungus



Why in news?

Some states have been receiving frequent cases of a fungal infection known as mucormycosis. It is commonly referred to as black fungus.



Black fungus is a rare but serious fungal infection caused by a kind of fungus called mucormycete.

Treatment

- Antifungal medicines may be able to treat the infection but it may ultimately require surgery.
- There should be focus on controlling diabetes, weight gain, reduce usage of immune-suppressants.

Vulnerabilities

The main victims are those who are on medications for underlying health conditions. They do not have the ability to fight environmental pathogens.

Symptoms

Symptoms include pain and redness around the eyes or nose, headache, with fever, coughing, bloody vomits, shortness of breath and altered mental status.

Effects

- The disease starts in the skin and later starts affecting brain and lungs. Patients also suffer from blindness due to the disease.
- The lungs and sinuses of individuals get affected when they inhale fungal spores from environment.

Preventive Measures

Recovering Covid patients are advised to cover their face while visiting construction sites. They should wear long sleeve clothes and gloves while gardening.

BLACK FUNGUS: A QUICK GUIDE

PREVENTION



0

Use masks if you are visiting dusty construction sites



0

Wear shoes, long trousers, long sleeve shirts, gloves while handling soil (garbening), moss or manure



(3) Maintain personal hygiene including thorough scrub

DOS

- Control hyperglycemia
- Monitor blood glucose level post COVID-19 discharge, also in diabetics
- Use steroid judiciously correct timing, correct dose and duration
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungals judiciously

DON'T

- Do not miss warning signs, symptoms
- Do not consider all cases with blocked nose as bacterial sinusitis
- Do not hesitate to seek aggressive investigations
- Do not lose crucial time to initiate treatment for mucormycosis











Please wear a face mask



Canara College Mangalore



National service scheme Awareness campaign on black fungus

What is Mucormycosis?

A fungal infection mainly affecting people with medical health problems that reduces their ability to fight environmental pathogens.



Dos

- Control hyperg ycaemia
- Monitor blood glucose level post Covid discharge & in diabetics
- Use steroid judiciously
- Use clear, sterile water for humidifiers during oxygen therapy.
- Use antibiotics/anti fungal judicious y



Don'te

- Don't miss warning signs & symptoms
- Don't consider all cases of blocked nose as cases of bacterial sinusitis, especially in the cases of immunosupression and/or Coxid patients on immunomodulators
- Don't hesitate in seeking aggressive investigations as appropriate for detecting fungal etiology
- Don't lose crucial time to initiate treatment for mucormycosis

Roshan abhi y.s 1st B.com A 1239

Warning signs of black fungus disease





Patients showing symptoms including a sworien eyelid is when either the lower or upper cyclid (or both) become enlarged, discharge from the eyes, paralysis of cyclid mascles, fewer, resease, scrafting, faced pain, reseal congestion and identified as block fungare infection that can affect sinus and can spread to the brain but wherein infection spreads through the bloodstream and can affect other body parts and organs such as heart, splean and skin.







Swellen Eyes, Redness around

Facial pain, members

Forer and

Couphin

(A)

Chest Pain &



Bleedy vomitting



Altered mental Status



Infected skin area

Types of Mucormycosis

- 1 Cutaneous mucormycosis (skin)
- 2 Rhinocerebral mucormycosis (sinus and brain)
- 3 Pulmonary mucormycosis (lung)
- 4 Gastrointestinal mucormycosis
- 5 Disseminated mucormycosis





CANARA COLLEGE MANGLORE

AWARENESS CAMPIACN ON BLACK FUNCUS



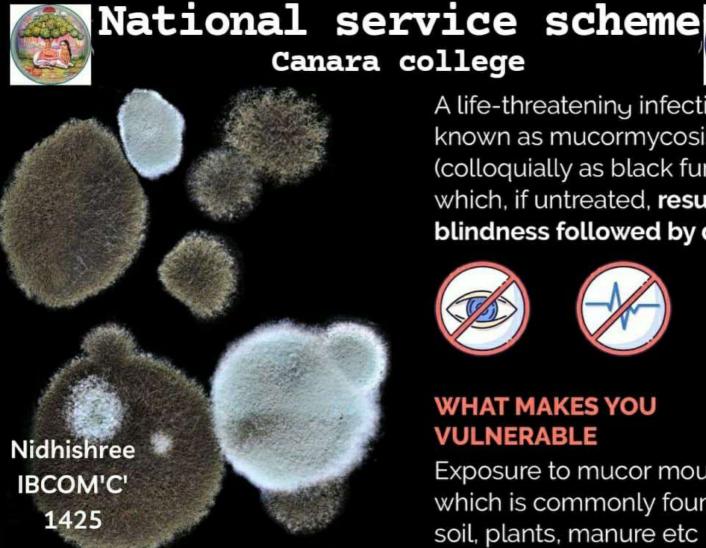
WHAT IS BLACK FUNGUS

COVID-19-ASSOCIATED MUCORMY COSIS, COMMONLY REFERRED
TO AS BLACK FUNGUS, IS THE ASSOCIATION OF MUCORMY COSIS
WITH COVID-19

THE PRIME SYMPTOMS OF BLACK FUNGUS

BREATHING DIFFICULTIES, DISCOLOURATION OF THE ORAL TISSUES, TONGUE, GUMS, STUFFY NOSE, SEVERE PAIN, SWELLING OF FACE, HEAVINESS BELOW THE EYES, DISCOMFORT, FEVER AND HEADACHE.

RAVI A A Ist BSC 1121



A life-threatening infection known as mucormycosis (colloquially as black fungus) which, if untreated, results in blindness followed by death





WHAT MAKES YOU **VULNERABLE**

Exposure to mucor mould which is commonly found in soil, plants, manure etc



CANARA COLLEGE, MANGALORE







What happens in black fungus? Mucormycosis is a fungal infection that causes blackening or discolouration over the nose,

causes blackening or discolouration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing blood.

SHIVARAJA IST B.SC(BXC) IO86

CANARA COLLEGE, MANGLORE



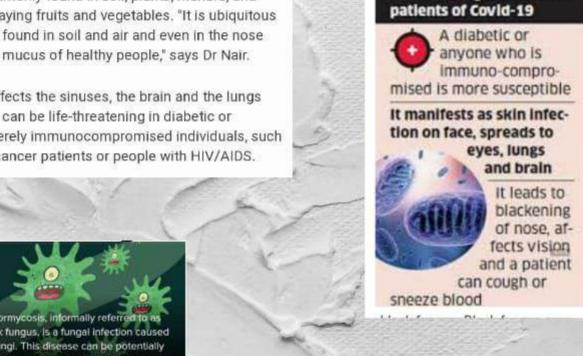
National service scheme Black fungus awarness campaign



What is mucormycosis?

Mucormycosis is a very rare infection. It is caused by exposure to mucor mould which is commonly found in soil, plants, manure, and decaying fruits and vegetables. "It is ubiquitous. and found in soil and air and even in the nose and mucus of healthy people," says Dr Nair.

It affects the sinuses, the brain and the lungs and can be life-threatening in diabetic or severely immunocompromised individuals, such as cancer patients or people with HIV/AIDS.



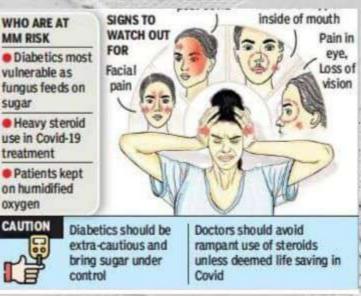
MM RISK

sugar

oxygen

Mucormycosis, informally referred to as black fungus, is a fungal infection caused by fungi. This disease can be potentially life-threatening in diabetic or severely immunocompromised individuals. It has been detected that many patients who are recovering or are recovered from Covid-19 are being infected with Mucormycosis or black fungus. People catch mucormycosis by coming in contact with the fungal spores in the environment. It can also develop on the skin after the fungus enters the skin through a cut, scrape, burn, or other type of skin trauma.

Mucormycosis frequently infects the sinuses, brain, or lungs. It begins to manifest as skin infection in the air pockets located behind our forehead, nose, cheekbones, and in between the eyes and teeth. It then spreads to eyes, lungs and can even spread to the brain. It leads to blackening or discoloration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing of



Life-Threatening

Fungal Infection

Mucormycosis or

black fungus is being detected in

> Shivadeep 1bsc (bzc) 1012



CANARA COLLEGE MANGALORE



NATIONAL SERVICE SCHEME

Black Fungus Awareness Campaign



WHAT IS MUCORMYCOSIS?

Mucormycosis, commonly known as black fungus has been observed in a number of covid-19 patients recently. A fungal infection mainly affecting people with medical health problems that reduce their ability to fight environmental pathogens.

SYMPTOMS

- ·Fever
- ·Headache
- Coughing
- Bloody vomits
 - •Shortness of breath
 - Pain around eyes and nose

HOW IS MUCORMYCOSIS TREATED?

Antifungal drug ampho B is used for treatment which is commonly used for the treatment of the infection.

Megha I BSC (PCM) 1 063

CANARA COLLEGE

mangaluru

NATIONAL SERVICE SCHEME

Black iungus awareness campaign



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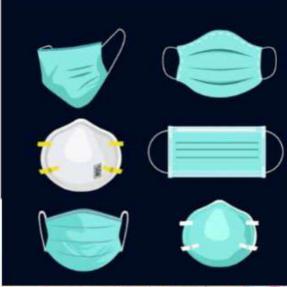
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ಅಥವಾ ಸ್ವಚ್ಛಗೊಳಿಸದೇ ಮಾಸ್ಕ್ ಗಳನ್ನು ಮರುಬಳಕೆ ಮಾಡಿರುವುದು ಬೆಳಕಿಗೆ ಬಂದಿದೆ. ಜೊತೆಗೆ, ಹೆಚ್ಚು ಗಾಳ-ಬೆಳಕು ಇಲ್ಲದೆ ಪ್ರದೇಶದಲ್ಲಿ ವಾಸಿಸುವುದು ಕೂಡ ಕ ಸೋಂಕು ಹೆಚ್ಚಲು ಕಾರಣ ಎಂಬ ಅಭಿವ್ರಾಯಗಳು ಕೇಳಬಂದಿವೆ. ಈ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಮಾಸ್ಕ್ ಬಳಕೆ ಬಗ್ಗೆ ತಜ್ಞರ ಕೆಲವು ಸಲಹಗಳನ್ನು ನೀಡಿದ್ದಾರೆ

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Kumara Shivananda 1 BSC 1115



CANARA COLLEGE MANGALORE NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARNESS CHAMPAIGN



Experts divided over unhygienic masks being contributing factor for black fungus

"People are afraid of contracting the virus, so many of them keep on wearing the same mask, over and over again without washing, and that runs the risk of contracting the infection, as fungus will grow in a moist or unhygienic areas," Naruka of Apollo hospital said.

An Indian doctor checks a man who recovered from COVID-19 and now infected with black fungus at the Mucormycosis ward of a government hospital in Hyderabad, India,

Amid a rise in black fungus cases particularly in COVID patients in Delhi, some medical experts feel that "unhygienic masks" and poorly ventilated rooms could be a contributing factor, while others said "no clinical evidence" has been established linking the two.

Doctors at many leading hospitals here said many patients, both COVID and non-COVID ones, have presented themselves at the facilities who have been infected with mucormycosis or black fungus and had a history of exhibiting poor hygienic practices, including wearing unwashed masks for a long time.

According to Dr Suresh Singh Naruka, senior consultant, ENT, Indragrastha Apollo Hospitals, the primary factor is "irrational use of steroids".

SOURCE :THE INDIAN EXPRESS NAME :M. H. VINOD ROLL NO:1062



Canara College Manglore National Service Scheme



Black Fungus Awareness Campaign

COVID-19-associated mucormycosis, commonly referred to as black fungus

Mucormycosis:

- It is a serious but rare fungal infection caused by a group of molds called mucormycetes, which is abundant in the environment.
- It mainly affects people who have health problems or take medicines that lower the body's ability to fight germs and sickness.
- The types of Mucormycosis are: Rhinocerebral (Sinus and Brain), Pulmonary (Lung), Gastrointestinal, Cutaneous (Skin), and disseminated Mucormycosis.

Transmission:

- It occurs through inhalation, inoculation, or ingestion of spores from the environment.
- Mucormycosis does not spread between people or between people and animals.

Symptoms:

- These include pain and redness around eyes and/or nose, fever, headache, coughing, shortness of breath, bloody vomits, and altered mental status.
- Warning signs can include toothache, loosening of teeth, blurred or double vision with pain.

Prevention:

 Avoiding areas with a lot of dust like construction or excavation sites, avoiding direct contact with water-damaged buildings and flood water after hurricanes and natural disasters and avoiding activities that involve close contact to soil.

Treatment:

- Mucormycosis needs to be treated with prescription antifungal medicine.
- In some cases, it can require surgery.

Sujan Shetty 1stBSc(PMC) 1109



CANARA COLLEGE MANGALORE National Service Scheme



BLACK FUNCUS AWARENESS CAMPAIGN

What is 'black fungus' and why India is at great risk?



WHAT IS THE FUNGUS?

Mucormycosis, dubbed "black fungus", is caused by a mould found in soil and in decaying organic matter like rotting leaves, according to the US Centers for Disease Control and Prevention (CDC).

People get mucormycosis, of which there are several types, by breathing in the fungal spores. They can be spread in hospitals and homes by air humidifiers or oxygen tanks containing dirty water. WHY ARE CORONAVIRUS PATIENTS AT RISK?

With coronavirus and other conditions, a dangerous phenomenon called a "cytokine storm" can occur where the immune system goes into overdrive, damaging organs.

So doctors have been prescribing steroids to reduce the immune response. But both this weakens the body's defences and increases sugar levels, which funguses thrive off.

WHAT OTHER FACTORS ARE THERE?

Diabetics - who also have excessive sugar in their bloodstream - are also at higher risk. India has high rates of diabetes.

Some hospitals and doctors have been overprescribing steroids, and some people have been taking them at home without medical advice.

"People have started using (steroids) liberally, excessively and inappropriately," Professor K. Srinath Reddy, from the Public Health Foundation of India, told AFP.

HOW DANGEROUS IS IT?

The infection needs to be caught early as it is aggressive and dead tissue has to be scraped away. Surgeons sometimes have to remove patients' nose, eyes or even their jaw to stop it getting to the brain.

The average fatality rate is 54 percent, according to the CDC.

Once infected, people can die within days. However it is not contagious, according to the CDC. India normally deals with a few dozen cases a year.

Generally the body's defences repel the fungus and only those with severely weakened immune systems, for example organ transplant or cancer patients are affected.

OW MANY INFECTIONS ARE THERE?

There are at least 7,250 cases in India, according to the Houseast Times, which cited a government court submission.

Maharashtra state has now reported more than 2,000 cases. Gujerat, home state of Prime Minister Namindra Modi, has about 1,200,

At trest nere indian states have now declars the infection an epidemic. Several cities has opened special hospital wards.

Authorities have not said how many people had died nationally from black fungar. According to the Mindustan Times, at least 219 people - like WHAT ABOUT TREATMENT DRUGS?

There are severe shortages of the main antifungal drug to treat the infection, amphotericin B.

The government and drug companies in the country once dubbed the "pharmacy of the world" are scrambling to ramp up production.

Amulya Nidhi, a health activist, said the government had earlier failed to prepare an adequate supply of coronavirus medicines such as remdesivir and plasma.

With black fungus, it has repeated the same mistake.

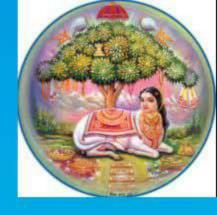
"The government should have acted when it found out about the very first (fungus) case... People are not supposed to be begging for lifesaving medicines."

GULSHABA PARVEEN 1st BSC (PCM) 1053

Stey Home 🏠 Stey Safe (



CANARA COLLEGE MANGALORE NATIONAL SERVICE SCHEME BLACK FUNGUS AWARENESS CAMPAIGN



Mucormycosis is a very rare infection. It is caused by exposure to mucor mould which is commonly found in soil, plants, manure, and decaying fruits and vegetables. "It is ubiquitous and found in soil and air and even in the nose and mucus of healthy people," says Dr Nair.

It affects the sinuses, the brain and the lungs and can be life-threatening in diabetic or severely immunocompromised individuals, such as cancer patients or people with HIV/AIDS.

Doctors believe mucormycosis, which has an overall mortality rate of 50%, may be being triggered by the use of steroids, a life-saving treatment for severe and critically ill Covid-19 patients.

How to prevent Mucormycosis

- Use masks if you are visiting dusty construction sites
- Wear shoes, long trousers, long sleeve shirts and gloves while handling soil (gardening), moss or manure
- Maintain personal hygiene, including thorough scrub bath

The disease can be managed by controlling diabetes, discontinuing immunomodulating drugs, reducing steroids and extensive surgical debridement- to remove all necrotic materials, according to the advisory.

How does black fungus enter the body?

As noted by an article in *Firstpost*, the underlying cause of the disease in India is the unhygienic way of delivering oxygen to patients in many places, combined with the indiscriminate use of steroids in the treatment of COVID.

How serious is black fungus?

The symptoms of black fungus/mucormycosis are pain/stuffiness in the nose, inflammation on cheeks, fungus patch inside the mouth and swelling in the eyelids.

Can black fungus spread from one person to another?

The disease is not contagious and doesn't spread from one person to another.

What you should do if you experience symptoms?

In case of symptoms, medical advice should be sought immediately. Doctors perform MRI and CT scan of the nasal cavity, sinuses and brain is performed, following which endoscopic evaluation of the nasal cavity can confirm a fungal lesion, according to *The Indian Express*. All fungal and necrotic tissue is removed from the nasal cavity and medical management is carried out with antifungal drugs, namely injection Liposomal amphotericin–B.

Saiprasad K Shetty 1st BSc PMC 1108



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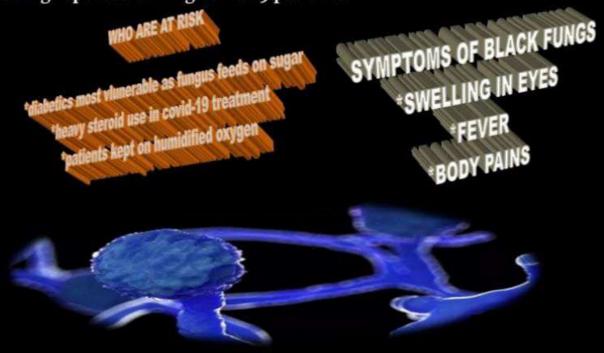
NATIONAL SERVICE SCHEME

Black fungus awareness campaign

WHAT IS

MUCORMYCOSIS?

Mucormycosis is any fungal infection caused by fungi in the order mucorales. As a deadly second wave of covid-19 continues to ravage india. cases of mucormycosis. A rare life threatening infection are being reported among covid-19 patients.



SUDEESH.C

1 BSC(bzc) 1034



What is BLACK FUNGUS?

Mucormycosis, commnly called black fungus, is a rare but serious fungal called mucormycete, which is usually found in soil and manure etc. It mainly affects people who have health problems or take medicines that lower the body's ability to fight germs and sickness.

Symptoms

These include pain and redness around eyes and/or nose, fever, headache, coughing, shortness of breath, bloody vomits, and altered mental status. Warning signs can include toothache, loosening of teeth, blurred or doubled vision with pain.

Who is vulnerable

Vulnerable groups include people who have health problems or take medicines that lower the body's ability to fight germs and sickness. These include those with diabetes, cancer, or those who have had an organ transplant.

Prevention

Use masks if you are working outside. Wear shoes, long trousers, long-sleeved shirts and gloves while gardening. Maintain personal hygiene including a thorough scrub bath.

Chaithanya 18T BSc PMC 1112

Source: The Indian Express

#wearemask #stayserestayhome



CANARA COLLEGE MANGLORE



National Service scheme BLACK FUNGUS AWARENESS CAMPAIGN

What happens in black fungus? Mucormycosis is a fungal infection that

causes blackening or discolouration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing blood.

Mucormycosis, informally referred to as black fungus, is a fungal infection caused by fungi. This disease can be potentially life-threatening in diabetic or severely immunocompromised individuals. It has been detected that many patients who are recovering or are recovered from Covid-19 are being infected with Mucormycosis or black fungus. People catch mucormycosis by coming in contact with the fungal spores in the environment. It can also develop on the skin after the fungus enters the skin through a cut, scrape, burn, or other type of skin trauma.

Mucormycosis frequently infects the sinuses, brain, or lungs. It begins to manifest as skin infection in the air pockets located behind our forehead, nose, cheekbones, and in between the eyes and teeth. It then spreads to eyes, lungs and can even spread to the brain. It leads to blackening or discoloration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing of blood.

03 / Symptoms of black fungus



Common symptoms of black fungus include discolouration of the nose and tongue, blurry vision, breathing problems, chest pain, coughing along with blood, redness in the eyes, fever, cough, headache, black lesion inside the mouth and vomiting.

Symptoms of Black Fungus aka mucormycosis

- * Facial Deformity
- * Headache
- » Facial pain
- » Nasal congestion
- » Loss of vision or pain in eyes
- * Altered mental state, confusion
- » Swelling in cheeks and eyes
- » Toothache, loosening of teeth
- » Black crusts in the nose

Use masks if you are working outside. Wear shoes, long trousers, long-sleeved shirts and gloves while gardening. Maintain personal hygiene including a thorough scrub bath.

1120 preethika 1bsc (pmc)



CANARA COLLEGE MANGALORE

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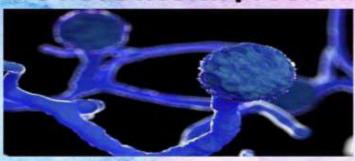
NATIONAL SERVICE SCHEME

AWARENESS CAMPAIGN ON BLACK FUNGUS

BLACK FUNGUS

It is a serious but rare fungal infection caused by group of molds called Mucormycetes.... which is abundant in the environment... Molds found in soil and in decaying organic Matter like rotting leaves.

It mainly affects people Who have health problems...



ABPOMINAL PAIN



COUGHING



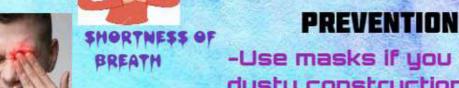
SYMPTOMS



TREATMENT

ANTIFUNGAL DRUG AMPHO B
IS USED FOR TREATMENT.
WHICH IS COMMONLY
USED FOR TREATMENT OF THE
INFECTION..





-Use masks if you are visiting dusty construction sites.
-wear shoes, long trousers, long sleeve shirts and gloves while handling soil.
-Maintain personal hygiene, including scrub bath.

#STAY HOME STAY SAFE

JYOTHILAKSHMI.C I BSC PCM 1060

CANARA COLLEGE Mangalore National service scheme Black Fungus Awarness Campaign

WHAT IS BLACK FUNGUS?

COVID-19-associated mucormycosis, commonly referred to as black fungus, is the association of mucormycosis with COVID-19. It has been reported around the nose, eyes and brain – a clinical manifestation sometimes referred to as 'rhino-orbital-cerebral mucormycosis'. Wikipedia

Symptoms

Common symptoms of black fungus include discolouration of the nose and tongue, blurry vision, breathing problems, chest pain, coughing along with blood, redness in the eyes, fever, cough, headache, black lesion inside the mouth and vomiting.

Black fungus is NOT contagious. It does NOT spread from direct or indirect contact. Please avoid misinformation.





Don't s of black fungus

Do not overlook the symptoms of black fungus

Do not take blocked nose lightly mainly after getting recovered from COVID-19 Do not think twice about getting done any investigation if suggested by the doctor

Sowjanya shetty 1 BBA 1743



CANARA COLLEGE MANGALORE



NATIONAL SERVICE SCHEME

BLACK FUNGUS AWARNESS CAMPAIGN What is black fungus?

COVID-19-associated mucormycosis,^[1] commonly referred to as black fungus,^[2] is the association of mucormycosis (an aggressive fungal infection) with COVID-19.^[3] It has been reported around the nose, eyes and brain – a clinical manifestation sometimes referred to as 'rhino-orbital-cerebral (ROC) mucormycosis'.^[4]





A 47-year-old man with mucormycosis and electron micrograph of his skin showing sporangia of Mucorales fungi.

Symptoms

Common symptoms of black fungus include discolouration of the nose and tongue, blurry vision, breathing problems, chest pain, coughing along with blood, redness in the eyes, fever, cough, headache, black lesion inside the mouth and vomiting.

What to do if black fungus symptoms emerge

To prevent the disease, blood glucose level should be monitored post-COVID discharge and also in diabetic patients; steroids should be used judiciously in correct timing, dose and duration; clean sterile water should be used in humidifiers during oxygen therapy; and antibiotics and antifungal medicines should be used correctly, it said.

The disease can be managed by controlling diabetes, discontinuing immunomodulating drugs, reducing steroids and extensive surgical debridement- to remove all necrotic materials, according to the advisory.

What you should do if you experience symptoms?

In case of symptoms, medical advice should be sought immediately. Doctors perform MRI and CT scan of the nasal cavity, sinuses and brain is performed, following which endoscopic evaluation of the nasal cavity can confirm a fungal lesion, according to *The Indian Express*. All fungal and necrotic tissue is removed from the nasal cavity and medical management is carried out with antifungal drugs, namely injection Liposomal amphotericin-B.

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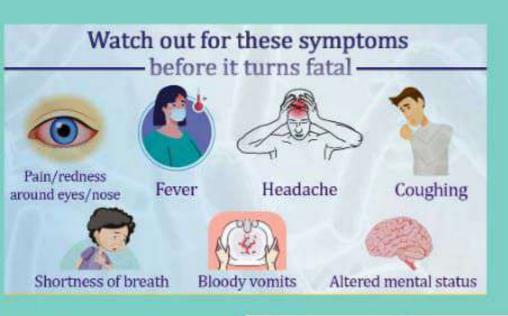


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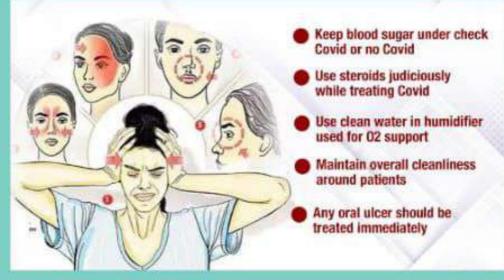
Mangalore University



National Service Scheme Canara College



BLACK FUNGUS





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BLACK FUNGUS A QUICK GUIDE

Patients suffering from the fungal infection typically have symptoms of stuffy and bleeding nose; swelling of and pain in the eye; drooping of eyelids; and blurred and finally, loss of vision. There could be black patches of skin around the nose

WARNING SIGNS



Pain, redness around eyes and/or nose



Fever



Headache



Coughing

Geethika 1st Bcom 'C' 1412





Bloody vomits



Altered mental status







Awareness Campaign on Black Fungus

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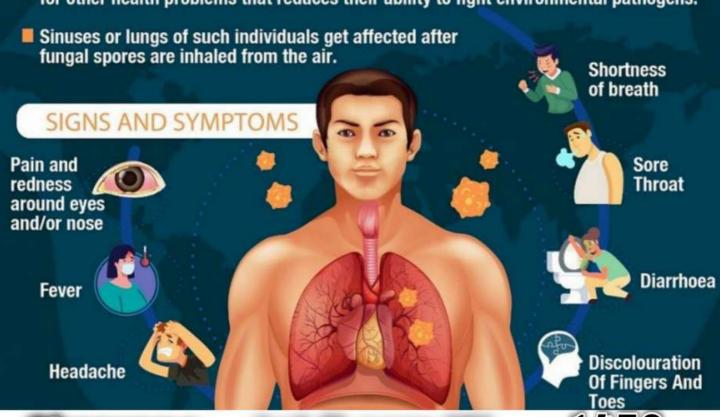




UNDERSTANDING MUCORMYCOSIS

IF UNCARED FOR - MAY TURN FATAL

Mucormycosis is a fungal infection that mainly affects people who are on medication for other health problems that reduces their ability to fight environmental pathogens.



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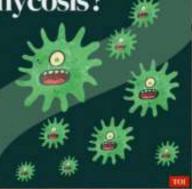


Common symptoms of black fungus include discolouration of the nose and tongue, blurry vision, breathing problems, chest pain, coughing along with blood, redness in the eyes, fever, cough, headache, black lesion inside the mouth and vomiting.



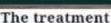
What is Mucormycosis?

Mucormycosis, commonly known as 'Black Fungus' has been observed in a number of Covid-19 patients recently. A fungal infection mainly affecting people with medical health problems that reduce their ability to fight environmental pathogens.



How does patient gets predisposed to Mucormycosis?

Co-morbities - post transplant/maignancy
Voriconazole therapy
Uncontrolled diabetes mellitus
Immunosuppression by steroids
Prolonged ICU stay



The treatment requires multidisciplinary expertise because the fungal infection spreads through the nose, eyes and can reach the brain.

Treatment involves surgically removing all dead and infected tissue. In some patients, this may result in loss of upper jaw or sometimes even the eye.

Cure may also involve a 4-6 weeks course of intravenous anti-fungal therapy. Since it affects various parts of the body, treatment requires a team of microbiologists, internal medicine specialists, intensivist





Rahul R Shetty 1441 1st B.COM G

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Mangalore University



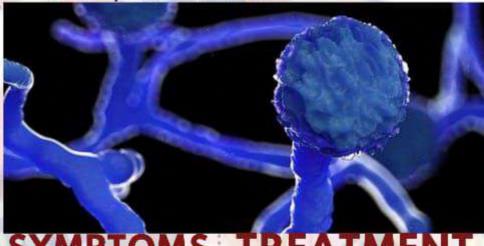
The Ministry of Health has confirmed that the infection is being detected among people who are recovering or have recovered from COVID-19. People undergoing oxygen therapy in ICU, where a humidifier is used are more at risk due to exposure to moisture.

Thus, it is recommended to use sterile water for oxygen therapy. A weak immunity system, overuse of steroids, voriconazole therapy and uncontrolled diabetes also put people at risk of black fungus infection.

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WHAT IS BLACK FUNGUS?

Also known as 'mucormycosis', black fungus is a rare kind of fungal infection affecting 1 in 10,00,000 people, but with an overall mortality rate of 50 per cent. The disease is often characterised by hyphae growing in and around blood vessels and can be potentially lifethreatening in diabetic or severely immunocompromised individuals.



SYMPTOMS TREATMENT

includes discolouration of the oral tissues, tongue, gums, stuffy nose, severe pain, swelling of face, heaviness below the eyes, discomfort, fever and headache.

As Black Fungus infections are on rise, there has been sudden rise in demand for antifungal drug Ampho B, which is commonly used for the treatment of the infection

Source: Times of India



Canara college Mangalore, Karnataka



National service scheme

WHAT IS MUCORMYCOSIS?

Serious but rare fungal infection caused by a group of molds called mucormycetes

Affects those with underlying health issues or people who take medicines that lower body's ability to fight germs and sickness

Affects the sinuses or the lungs after inhaling fungal spores from the air. It can also occur on the skin after a cut or a burn

What to watch out for

Headache, facial pain, nasal congestion, loss of vision or pain in the eyes, swelling in cheeks and eyes, and black crusts in the nose

Fatal if goes untreated for a long time

If it infects the lungs or the brain, it can cause:

- Paralysis
- Pneumonia
- Seizure
- Death

How is it treated?

The first steps in treating mucormycosis is intravenous antifungal medications and surgical removal of infected tissue

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canara college Mangalore



Black fungus awareness campaign

WHAT IS MUCORMYCOSIS?

It is a fungal infection. It can manifest as pulmonary Mucormycosis or rhino-orbital-cerebral Mucormycosis



Pulmonary manifestation | Cough, shortness of breath and fever

Rhino-orbital manifestation |

Swelling in eyes, unilateral nasal discharge, headache, numbness

Mucormycosis generally occurs in patients with diabetes



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Treatment procedure



- The suspected patient is sent for CT scan/MRI or other tests. If the fungal growth is found, its sample is collected and sent for biopsy
- Through sensitive MRI scans. the experts try to assess the extent of fungal growth and its possible source
- Experts use treatment protocol such as Amphotericin B deoxycholate injection to treat the patients. The injection, costing about Rs 2,500-3,000 is required six times a day for about 15 to 21 days. Other treatment procedures are also adopted

NATIONAL SERVICE SCHEME CANARA COLLEGE MANGALORE





BLACK FUNGUS INFECTIONS HAVE BEEN DETECTED IN KARNATAKA UTTARAKHAND, TELANGANA MADHYA PRADESH ANDHRA PRADESH HARYANA AND BIHAR AMONG OTHERS WHILE SOME STATES HAVE MADE IT A NOTIFIABLE DISEASE SOME LIKE RAJASTHAN HAVE ALREADY DECLARED IT AN EPIDEMIC.

Black fungus, or mucormycosis, is a complication caused by a fungal infection. This is a relatively rare but potentially fatal condition.

How does one catch black fungus?

Primarily, fungal spore floating in the environment give people this infection. One may also catch it when the fungus "enters the skin through a cut, burn, or other types of skin trauma."

On coming in touch, the fungus can stick to a body part, and after a point travel inward through the nose, sinus or lungs.

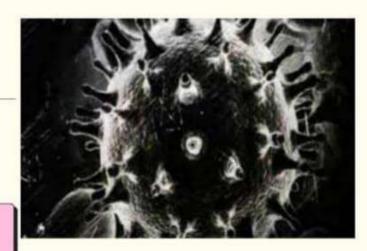
Who kind of people are at risk?

According to medical science, clabetes patients are majorly vulnerable to fungal infections such as mucormycosis. So are immuno-suppressed people who have been recently cured of Covid.

Particular care is required for Covid patients who are also diabetic. ICMR says that controlling diabetes is among the best preventive measures for this disease.

The disease is being majorly sean in people who have recovered from Covid; or are recovering, the Union Health ministry said.

Without treatment, it can lead to lethal bloodstream infection.



How are black fungus cases treated?

After infecting a person, the fungus doesn't remain static but spreads through the nose, attacks the eyes, and eventually reaches the brain, at which point it becomes potentially deadly. This necessitates multidiscipline expertise to treat it.

In a majority of cases, especially if undetected for long, a number of different parts end up getting affected by mucormycosis. So it calls for a combined team of microbiologists, internal medicine specialists, intensivist neurologists, ENT specialists, ophthalmologists, dentists, surgeons, etc.

As part of life-saving procedures, all infected tissues have to be surgically removed. Some patients end up losing the eye/s and, in some cases, the upper jaw.

Patients might need an intravenous anti-fungal procedure spanning four to six weeks.





Canara college Mangalore, Karnataka



National service scheme

What is black fungus

Mucormycosis is a very rare infection. It is caused by exposure to mucor mould which is commonly found in soil, plants, manure, and decaying fruits and vegetables. "It is ubiquitous and found in soil and air and even in the nose and mucus of healthy people," says Dr Nair. It affects the sinuses, the brain and the lungs and can be life-threatening in diabetic or severely immunocompromised individuals, such as cancer patients or people with HIV/AIDS.

Causes

Generally, some types of fungi don't cause any infections in humans but can cause sickness in people with weakened immune systems known as opportunistic infections.

Some common types of a fungal infection include:

*Skin infections like ringworm
*Nail infections

*Deeper cutaneous infections following trauma, *Breach in the skin with subsequent fungal

implantation and growth
*Sinus infections and deep lung infections

*The fungi can also affect the gastrointestinal system, renal systems and can cause a full-blown infection resulting from the entry of fungus into the bloodstream.

Treatment

After infecting a person, the fungus doesn't remain static but spreads through the nose, attacks the eyes, and eventually reaches the brain, at which point it becomes potentially deadly. This necessitates multi-discipline expertise to treat it.

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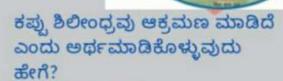


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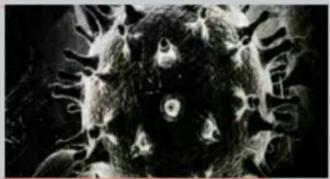
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- * ಕೆಲವು ಔಷಧಿಗಳನ್ನ ಸಹ ಬಹಳ ಎಚ್ಚರಿಕೆಯಿಂದ ನೀಡಬೇಕು, ಅವು ಶಿಲೀಂಧ್ರಗಳ ಸೋಂಕುಗೂ ಕಾರಣವಾಗಬಹುದು.
- * ವೈದ್ಯಕೀಯ ಸಲಹೆಯಿಲ್ಲದೆ ಸ್ಟೀರಾಯ್ಡ್ ಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳುವುದು ಅಪಾಯಕಾರಿ.
- * ಸರಿಯಾದ ಪ್ರಮಾಣದ ಸ್ಟೀರಾಯ್ಡ್ ಗಳನ್ನು ತೆಗೆದುಕೊಂಡು ಅವುಗಳನ್ನು ಕನಿಷ್ಠ ಸಮಯಕ್ಕೆ ತೆಗೆದುಕೊಳ್ಳಿ.
- * ನೀವು ರಕ್ತದಲ್ಲಿನ ಸಕ್ಕರೆ ನಿಯಂತ್ರಣದಲ್ಲಿಲ್ಲದಿದ್ದರೆ, ವೈದ್ಯರನ್ನು ಕೇಳದೆ ಸ್ಟೀರಾಯ್ಡ್ ತೆಗೆದುಕೊಳ್ಳುವುದನ್ನು ನಿಲ್ಲಿಸಬೇಡಿ.
- * ಮೂರು ವಿಷಯಗಳು ಬಹಳ ಮುಖ್ಯ ಮೊದಲ ಸಕ್ಕರೆ ನಿಯಂತ್ರಣವು ತುಂಬಾ ಉತ್ತಮವಾಗಿರಬೇಕು, ಎರಡನೆಯದಾಗಿ ನಾವು ಯಾವಾಗ ಸ್ಟೀರಾಯ್ಡ್ಗಳನ್ನು ನೀಡಬೇಕು, ಈ ಎಚ್ಚರಿಕೆ, ಮೂರನೇ ಡೋಸ್ ಸ್ಟೀರಾಯ್ಡ್ಗಳನ್ನು ನೀಡಬೇಕು.
- * ಸಕ್ಕರೆ ನಿಯಂತ್ರಣ ರಕ್ತದಲ್ಲಿನ ಸಕ್ಕರೆ ಮಟ್ಟವನ್ನು ಹೆಚ್ಚಿಸಲು ಬಿಡಬೇಡಿ.
- * ಮಧುಮೇಹ ಹೊಂದಿರುವ ಜನರು ತಮ್ಮ ರಕ್ತದಲ್ಲಿನ ಸಕ್ಕರೆಯನ್ನು ನಿಯಂತ್ರಿಸಲು ಹೆಚ್ಚುವರಿ ಪ್ರಯತ್ನ ಮಾಡಬೇಕು.
- * ಮಧುಮೇಹವಿಲ್ಲದ ಆದ್ರೆ, ನಿಯಮಿತವಾಗಿ ಸ್ಟೀರಾಯ್ಡ್'ಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳುತ್ತಿರುವವರು ಯಾವಾಗಲೂ ತಮ್ಮ ರಕ್ತದಲ್ಲಿನ ಸಕ್ಕರೆಯನ್ನು ಪರೀಕ್ಷಿಸುತ್ತಿರಬೇಕು.
- * ಸ್ಟೀರಾಯ್ಡ್ ಮಾರ್ಗಸೂಚಿಗಳನ್ನು ಕಟ್ಟುನಿಟ್ಟಾಗಿ ಪಾಲಿಸುವುದು.
- * ಸ್ಟೀರಾಯ್ಡ್ ಗಳನ್ನು ನೀಡಲು ಹೊರಡಿಸಿದ ಮಾರ್ಗಸೂಚಿಗಳ ಪ್ರಕಾರ, ಅದಕ್ಕೆ ತಕ್ಕಂತೆ ಸ್ಟೀರಾಯ್ಡ್ ನೀಡಬೇಕು.
- * ಸ್ಟೀರಾಯ್ಡ್ಗಳ ಬರಡಾದ ಬಳಕೆಯನ್ನು ತಪ್ಪಿಸುವುದು -ಸ್ಟೀರಾಯ್ಡ್ಗಳನ್ನು ನೀಡುವುದನ್ನು ತಪ್ಪಿಸಿ.
- * ಅಗತ್ಯವಿದ್ದರೆ, ಕಡಿಮೆ ಪ್ರಮಾಣವನ್ನು ನೀಡಿ ಮತ್ತು ಹೆಚ್ಚು ಅಲ್ಲ.
- * ಈ ರೀತಿಯ ಇತರ ಔಷಧಿಗಳನ್ನು ಸಹ ಅಗತ್ಯವಿದ್ದಾಗ ಮಾತ್ರ ನೀಡಬೇಕು



- * ಮೂಗಿನ ಸಮಸ್ಯೆ
- * ತಲೆನೋವು
- * ನಿಮ್ಮ ಮುಖದ ಒಂದು ಭಾಗದಲ್ಲಿ ನೀವು ನೋವು ಅನುಭವಿಸಬಹುದು
- ಿ ಮುಖ ನಿಶ್ಚೇಷ್ಟಿತವಾಗಿದೆ
- * ಮುಖದ ಬಣ್ಣವನ್ನು ಬದಲಾಯಿಸುವುದು
- * ಹಲ್ಲುಗಳು ನಡುಗಲು ಪ್ರಾರಂಭಿಸುತ್ತವೆ





ಕಪ್ಪು ಶಿಲೀಂಧ್ರ ಎಷ್ಟು ಅಪಾಯಕಾರಿ, ಚಿಕಿತ್ಸೆ ಏನು?

- ಿ ವೈದ್ಯ ಟ್ರಿಹನ್, 'ಇದು ಮೂಗು ಅಥವಾ ಬಾಯಿಯ ಮೂಲಕ ದೇಹವನ್ನು ಪ್ರವೇಶಿಸುತ್ತದೆ.
- ಿ ಎರಡನೇ ಹಂತದಲ್ಲಿ ಅದು ಕಣ್ಣಿನ ಮೇಲೆ ಪರಿಣಾಮ ಬೀರುತ್ತದೆ ಮತ್ತು ಮೂರನೇ ಹಂತದಲ್ಲಿ ಅದು ಮೆದುಳಿನ ಮೇಲೆ ದಾಳಿ ಮಾಡುತ್ತದೆ.
- ಿ ನಾಲ್ಕರಿಂದ ಆರು ವಾರಗಳವರೆಗೆ medicines ಷಧಿಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳಬೇಕಾಗುತ್ತದೆ. ತೀವ್ರತರವಾದ ಪ್ರಕರಣಗಳಲ್ಲಿ, ಚಿಕಿತ್ಸೆಯು ಮೂರು ತಿಂಗಳವರೆಗೆ ಇರುತ್ತದೆ.

ಕಪ್ಪು ಶಿಲೀಂಧ್ರವು ಶ್ವಾಸಕೋಶದ ಮೇಲೆ ಆಕ್ರಮಣ ಮಾಡಿದ್ದರೆ, ಈ ಲಕ್ಷಣಗಳು ಕಂಡುಬರುತ್ತವೆ..!

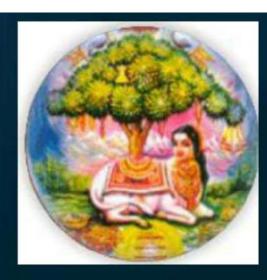
- " mg d
- ್ ಉಸಿರಾಟದ ಸಮಸ್ಯೆ
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- ್ರಕ್ತ ಹೆಪ್ಪುಗಟ್ಟುವಿಕೆ
- ಿ ಎದೆ ನೋವು
- ್ ಕಣ್ಣು ಮಸುಕಾಗುವುದು

ಈ ರೋಗಲಕ್ಷಣಗಳನ್ನು ನೀವು ನೋಡಿದರೆ, ತಕ್ಷಣ ವೈದ್ಯರನ್ನು ಸಂಪರ್ಕಿಸಿ

Prerana



canara college Mangalore



BLACK FUNGUS AWARENESS CAMPAIGN

What is mucormycosis It is an aggressive and invasive fungal infection that can affect various vital organs such as the brain and cause internal damage to the ear, nose, throat, and mouth. It is not contagious but can be fatal if not detected early

Prevalence: The Center for Disease Control and Prevention, U.S., calls it a serious but rare disease. A computational model by Arunaloke Chakrabarti et al. estimated a prevalence of 0.14 cases per 1,000 individuals in India

Underlying cause: Diabetes mellitus is the most common underlying cause. According to doctors, "an indiscriminate use of a high dose of steroids in patients" could trigger the disease post-COVID-19 infection

Cure: The main line of treatment is an anti-fungal drug called Amphotericin B, which is given over an extended period of time under strict observation. Surgery might also be warranted

RATHAN SHETTY 1 B COM C 1446

Black fungus infection or Mucormycosis Disease

It is a serious disease but rare fungal infection, it can become fatal if not treated quickly. It is affecting people whose immune systems have been damaged by the Coronavirus, viral diseases, and other medical conditions



Causes, Symptoms, Diagnosis and Treatment

NATIONAL SERVICE SCHEME CANARA COLLEGE MANGLORE





How does one catch black fungus?

Primarily, fungal spore floating in the environment give people this infection. One may also catch it when the fungus "enters the skin through a cut, burn, or other types of skin trauma."

On coming in touch, the fungus can stick to a body part, and after a point travel inward through the nose, sinus or lungs.

What are the symptoms of mucormycosis?

Some early signs of the condition include "sinus pain or nasal blockage on one side of the face, one-sided headache, swelling or numbness, toothache and loosening of teeth," says the Indian Council of Medical Research (ICMR).

According to reports from various top hospitals across India, patients are reporting "blurred vision, discoloration or blackening of tissue on nose and cheeks and black lesions inside the mouth or discharge from nose."



Who kind of people are more at risk?
According to medical science, diabetes patients are majorly vulnerable to fungal infections such as mucormycosis. So are immuno-suppressed people who have been recently cured of Covid.

Particular care is required for Covid patients who are also diabetic. ICMR says that controlling diabetes is among the best preventive measures for this disease.

The disease is being majorly seen in people who have recovered from Covid. or are recovering, the Union Health ministry said.

Without treatment, it can lead to lethal bloodstream infection.

now are black fungus cases treated?
After infecting a person, the fungus doesn't remain static but spreads through the nose, attacks the eyes, and eventually reaches the brain, at which point it becomes potentially deadly. This necessitates multi-discipline expertise to treat it.

In a majority of cases, especially if undetected for long, a number of different parts end up getting affected by mucormycosis. So it calls for a combined team of microbiologists, internal medicine specialists, intensivist neurologists, ENT specialists, ophthalmologists, dentists, surgeons, etc.

As part of life-saving procedures, all infected tissues have to be surgically removed. Some patients end up losing the eye/s and, in some cases, the upper jaw.

Patients might need an intravenous anti-fungal procedure spanning four to six weeks.

How risky is this condition?
The fatality rate in mucormycosis cases is very high.

As per data available thus far, mortality is as high as 80% if a patient goes untreated, or remains untreated long. If treated, it is still 40–50%. In cases where the infection is caught at the the sinus stage itself, patients mostly completely recover.

Besides, according to doctors, drugs used for treating this condition come with strong side-effects. That can, in some cases, lead to "kidney issues, neurological dysfunction and stroke".

Pranav Bhat 1435 1st Bcomc

BLACK FUNGUS

infection



'BLACK FUNGUS' IN COVID-19 PATIENTS

Mucormycosis (previously zygomycosis), a rare but serious fungal infection, is affecting some COVID-19 patients. The disease manifests in the skin, affects lungs and brain, and can lead to loss of the upper jaw or eye. It's been declared a notified disease in Haryana, the national COVID-19 task force has issued an advisory, and the Union health ministry has asked states/UTs to declare Black Fungus as an epidemic

- It is caused by a group of fungus called micromycetes
- patients having diabetes, HIV/ AIDS, cancer and those on prolonged use of steroids in high doses fall in highrisk category
- Found in one individual in 8 lakh but frequent after Covid

outbreak

- Treated with antifungal drugs
- include sinusitis, nasal congestion, facial pain or numbness, blackish discoloration over the bridge of the nose, toothache, blurred or double vision, and chest pain

os

- Control hyperglycaemia
- Monitor blood glucose level post COVID-19 discharge & in diabetics
- Use steroid judiciously
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/ anti fungal judiciously

Don'ts

- Do not miss warning signs & symptoms
- Don't consider all cases of blocked nose as cases of bacterial sinusitis, especially in the cases of immunosuppression and/ or COVID-19 patients on immunomodulator
- Don't hesitate in seeking aggressive investigations as appropriate for detecting fungal etiology
- Don't lose crucial time to initiate treatment for mucormycosis

BLACK FUNGUS & KEY FACTS

- Scientifically known as mucormycosis, black fungus is not infectious and does not spread from person to person
 - Occurs mostly in immuno-compromised patients
- Patients who have been on O₂ supply or on steroids during Covid-19 treatment are most vulnerable
 - Itching, redness and heaviness in eye not be ignored



POOJA 1ST BCOM 'C' 1429



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Deepika Nayak 1st Bcom 'A' 1218

BLACK FUNGUS: A QUICK GUIDE

PREVENTION



0

Use masks if you are visiting dusty construction sites



0

Wear shoes, long trousers, long sleeve shirts, gloves while handling soil (garbening), moss or manure



8

Maintain personal hygiene including thorough scrub bath

DOs

- · Control hyperglycemia
- Monitor blood glucose level post COVID-19 discharge, also in diabetics
- Use steroid judiciously correct timing, correct dose and duration
- Use clean, sterile water for humidifiers during oxygen therapy
- Use antibiotics/antifungals judiciously

DON'Ts

- Do not miss warning signs, symptoms
- Do not consider all cases with blocked nose as bacterial sinusitis
- Do not hesitate to seek aggressive investigations
- Do not lose crucial time to initiate treatment for mucormycosis

CANARA COLLEGE MANGALORE, KARNATAKA NATIONAL SERVICE SCHEME

AWARENESS CAMPAIGN ON BLACK FUNGUS

WHAT IS BLACK FUNGUS?

COVID-19-associated nucormycosis, commonly referred to as black fungus, is the association of mucormycosis with COVID-19.

It has been reported around the nose, eyes and brain – a clinical nanifestation sometimes referred to as 'rhino-orbital-cerebral mucormycosis'.

HOW DOES IT EFFECT?

Black fungus commonly affects
the sinuses or lungs after a person
inhales fungal spores in the air,
and can also affect the skin
following a surface injury like a
cut or burn. Symptoms depend on
where in the body the fungus is
growing, but can include facial
swelling, fever, skin ulcers and
black lesions in the mouth.

PREVENTION OF BLACK FUNGU

Wearing masks is compulsory.
Fungal spores found in air can
easily enter the body through the
nose. This makes masking up
doubly important, in preventing
infection. People who work at or
visit construction sites should
specifically pay attention to this.

"People with coronavirus cases are getting black fungus. Patients if not taken precautions and are already diabetic one and used steroids have mostly the chances of being infected by black fungus. It can be fatal if not diagnosed early and treated as early as possible."



DISHA Y 1st Bcom 'A' 1250



Canara college manglore



NATIONAL GERVICE GCHEME

awarness camping on black fungus

It's caused by a group of molds, called mucormycetes. Individuals are infected after inhaling fungal spores found naturally in India's environment and soil. "For most people with a healthy immune system, exposure to the fungus really won't matter," he says. 13-May-2021

The prevalence of mucormycosis is around 70 times higher in India than that in global data.

Due to the spotlight on Coronavirus, the black fungus remains lurking in its shadow.



Greeshma VM 1bcomA 1251

If the fungus goes in through a cut or a burn, it can cause local infections. But if it goes in through the sinus, it can affect the eyes and eventually, the brain, leading to a fatal situation



Canara college Mangalore



Black fungus

Infections is caused by mucormycetes a group of moulds fungus abundant in environmeny It mainly affects sinuses lungs of people

Symptoms

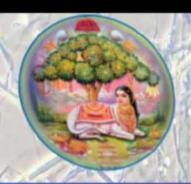
- *Bloody vomits
- *Pain redness around eyes
- *Fever
- * Headache coughing
- * Shortness of breath

Treatment for black fungus

As black fungus is infection are on rise There has a sudden rise in demand for anti fungal drug Ampho B which is commonly used for treatment



Ankitha 1st Bcom A 1244





MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME



CANARA COLLEGE

MANGALORE, KARNATAKA

BLACK FUNGUS AWARNESS CAMPAIGN

WHAT IS BLACK FUNGUS THREAT TO LI

Alife-threatening infection known as imucormycosis (colloquially as black fungus) which, if untreated, results in blindness followed by death

BRAIN

LUNGS







WHAT MAKES YOU

Exposure to mucor mould which is commonly found in soil, plants, manure etc

Name:Parashuram Roll no:1261

TREATMENT

Doctors say most patients arrive late, when they are already losing vision, & doctors have to surgically remove the eye to stop the infection from reaching the brain It affects the sinuses, the brain and the lungs and can be life-threatening in diabetic or severely immunocompromised patients, such as those with cancer or HIV/AIDS

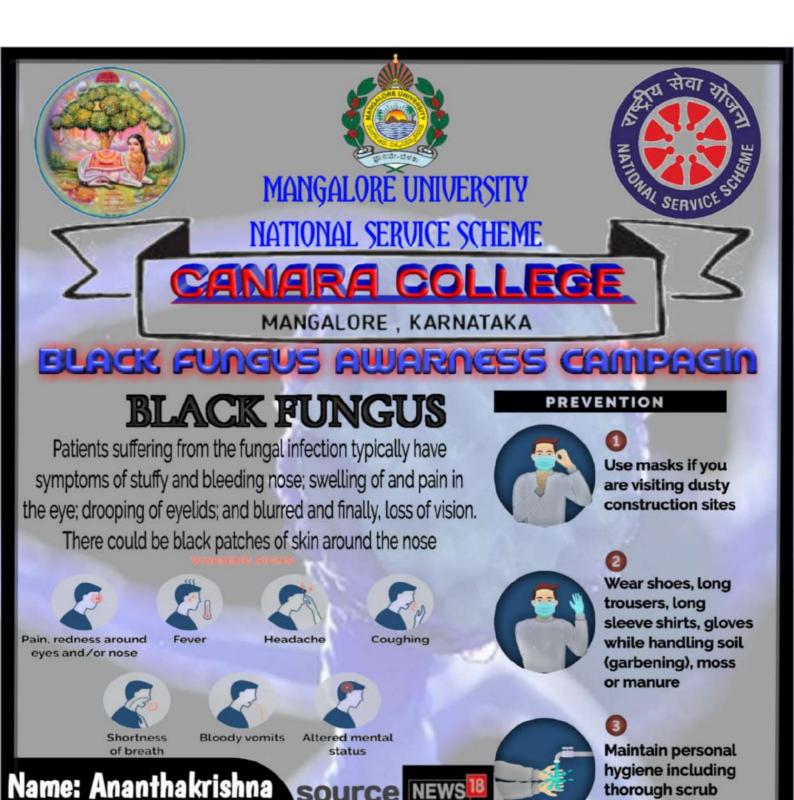
WHO IS AT RISK

People who are on medication for other health problems which reduces their ability to fight environmental pathogens

Some doctors believe it may be being triggered by steroids, a life-saving treatment for severe & critically ill Covid-19 patients

Source: NEWS





Roll no: 1243

bath



Canara college Mangalore National service scheme



Black fungus awareness campaign

Mucormycosis, informally referred to as black fungus, is a fungal infection caused by fungi. This disease can be potentially life-threatening in diabetic or severely immunocompromised individuals. It has been detected that many patients who are recovering or are recovered from Covid-19 are being infected with Mucormycosis or black fungus. People catch mucormycosis by coming in contact with the fungal spores in the environment. It can also develop on the skin after the fungus enters the skin through a cut, scrape, burn, or other type of skin trauma.

Mucormycosis frequently infects the sinuses, brain, or lungs. It begins to manifest as skin infection in the air pockets located behind our forehead, nose, cheekbones, and in between the eyes and teeth. It then spreads to eyes, lungs and can even spread to the brain. It leads to blackening or discoloration over the nose, blurred or double vision, chest pain, breathing difficulties and coughing of blood.

03 /7 Symptoms of black fungus



Common symptoms of black fungus include discolouration of the nose and tongue, blurry vision, breathing problems, chest pain, coughing along with blood, redness in the eyes, fever, cough, headache, black lesion inside the mouth and vomiting.

Krithik Kumar 1st Bcom A 1254



MANGALORE UNIVERSITY NATIONAL SERVICE SCHEME **CANARA COLLEGE** MANGALURU, KARNATAKA



ಬ್ಲ್ಯಾಕ್ ಫಂಗಸ್ ಬಗ್ಗೆ ಯಾರೂ ಆತಂಕಪಡಬೇಕಿಲ್ಲ; ಸುಧಾಕರ್ ಚಿಕಿತ್ವನೀಡಲು ಜಿಲ್ಲಾ ಆಸ್ಪತ್ರೆಗಳಿಗೆ ಸೂಚನೆ I ವರದಿ ನೀಡಲು ತಜ್ಜರ ಸಮಿತಿ ರಚನೆ I ತಪಾಸಣೆಗೆ ಒಳಗಾಗಲು ಸಚಿವರ ಸೂಚನೆ



ಹಾವೇರಿಯಲ್ಲಿ ಮರಣ ಪ್ರಮಾಣ ಆತಂಕಕಾರಿ ಚಿಗಟೀಂ ಆಸತ್ಯೆಗೆ ಭೇಟಿ



29 ಜಿಲ್ಲೆಗಳಲ್ಲಿ ಬ್ಲ್ಯಾಕ್ ಫಂಗಸ್

I ರಾಜ್ಯಾದ್ಯಂತ 446 ಪ್ರಕರಣ ಪತ್ತೆ

ರುಗಳೂರು, ಮೇ 24 ರಾಜ್ಯದ 29 ವಿಶ್ವಗಳಲ್ಲಿ ರಾಷ್ಟ್ರಿಕ ಪ್ರಗಣ ಪ್ರಕರಣಗಳು ಪಡ್ಡಿಯಾಗಿದ್ದು, ಎಟ್ಟು ಪ್ರಕರಣಗಳು 446ಕ್ಕೆ ಎರಡೆ. ಒಟ್ಟು 13 ಸೋಕಾರ್ವಿಕಿತವರ ಸಾವಿಗೀಪಾಗಿದ್ದು, 430 ರಾಜಕಿ ವಿಶ್ವರ व्यक्तिपर अन्य वर्षा व्यक्तिकार

CONTROL OF THE TOTAL OF THE TOT

ರೋಗಿಗಳ ಸಂಪ್ರೆಯೂ ಪತ್ತದೆ ಧಾರಪಾಡದಲ್ಲಿ ಸೂರರ ಸಮೀಪಕ್ಕೆ ಫಂಗನ್ ಪ್ರಕರಣಗಳು ವರವಿಯಾಗಿದ್ದು ಅತಂತ ಹೆಚ್ಚುದ

ಪ್ರತೀ ವಾರ 400 ಮಂದಿಗೆ ಸೋಂಕು?

ರಾಜ್ಯದಲ್ಲಿ ಪ್ರತೀ ಪಾರ 400ಕ್ಕೂ ತೆಚ್ಚು ಮುಬಿ ಸ್ಕಾಕ್ ಫಂಗರ್ ಕಾಯಲಿಗೆ ತುತ್ತಗಲಮಲಿಯ ಅಂದಾಜನರಾಗಿದ್ದು ಆಂಫೋಟಿರಿಸಿನ್-ಆ ಚುತ್ತಮತ್ತನ 30 ಸಾವಿಶ ಪಯಣೆಗಳನ್ನು ಭಾರ್ಥವಣೆ ಕೇಂದ್ರಕ್ಕೆ ಮನ್ನು ಇಲ್ಲಿಸಲಾಗಿದೆ ಎಂದು ಡಾವ್ಯ ರ ಪ್ರಕಾರ್ಚಗೆ ಮಾಹಿತಿ ನೀಡಿದೆ.

प्रकारमान्य १०००व १३ देन असे हरकारेले व्यक्त स्था देश देश । ನೆಯಲ್ ಗಳಂತ ಪ್ರತೀ ರೋಗಿಗೆ ಒಟ್ಟು 30 ವಯಲ್ ಗಳ ಅಗತ್ಯ ಎದೆ. ಈ ಆಧಾರವಲ್ಲಿ 30 ಸಾವಿರ ವಯಲ್ ಗಳನ್ನು ಪೂರ್ವೆಬರಂತೆ ಕೇಂದ್ರಕ್ಕೆ ಶಿಂದು ಮಾಡಲಾಗಿದೆ ಎಂದು ಸಂಶಾರ ಹೇಳಿದೆ.

ಬಳ್ಳಾರಿ ಮತ್ತು ಬೆಂಗಳೂರು ತರು 3. ಮೈಸೂರುತ ಕೋರಾರ, ತಿರುವೊಗ್ಗ ಮತ್ತು ಜನಾಗಗಳು ತರು 1.

ಎಲ್ಲಿ ಎಷ್ಟುಮಂದಿಗೆ ಸೋಂಕು?

croma ex, director \$1, fourth
54, foruse may algorin due 11, dinim, buding may suments 14, unnutarid 16, unto 17, dvm2 16, Contrat 15, montants may there sin is, moreld shows still used ಜರ್ವಗಳಲ್ಲಿ ಬೆರಳಗಳ ಹೃತ್ಯಕರಣಗಳು ಅಧಿಕೃತವಾಗಿ

ರಾಜ್ಯಕ್ಕೆ 1,030 ವಯಲ್ ಔಷಧ

ಬ್ಯಾಕ್ ಘಂಗತ್ ಗೆ ನೀಡಲಾಗುವ ಅಂಘೇಟೆ ಎಟರ್ ಬ ಔಷಧವನ್ನು ಕೇಂದ್ರ ಸಂಕಾರ ರಾಜ್ಯಗಳಿಗೆ world and decisions the 19,420 ವಯಲ್ ಗಳನ್ನು ಹಂಚಿಕೆ ಮಾಡಲಾಗಿದ್ದು, ಕರ್ನಾ ಕಕ್ಷೆ 1,038 ವಯಲ್ ಲಭ್ಯವಾಗಿದೆ. ಹೆಚ್ಚು ಪ್ರಕರಣ ಳಿರುವ ಗುಬರಾತ್ ಗೆ 4,648. ಮಹಾರಾತ್ರ ಳಿಯದ ಗಯರಾತ್ ಗೆ 4,640. ಮದುವಾತ್ತ 4,660, ಅಂದ್ಯಕ್ಕೆ 1,840, ಮಧ್ಯ ಪ್ರದೇಶಕ್ಕೆ 1,474 ರಾಜನ್ಮಾಪಕ್ಕೆ 1,430, ಉತ್ತರ ಪ್ರದೇಶಕ್ಕೆ 1,340 ರಯರ್ ಅಂಪೂಚರಿಸಿನ್ ಬಿ ಔಷಧಗಳನ್ನು ಕಳ ಹಿಸರಾಗಿದೆ ಎಂದು ಕೇಂದ್ರ ಸಚಿವ ಡಿ.ವಿ. ಮಾನಂತ

ಕರಾವಳಿಯಲ್ಲಿಬ್ಲ್ಯಾಕ್ ಫಂಗಸ್ ಆತಂಕ

montdeath, the 21: tile. ಜಿಲ್ಲೆಯಲ್ಲಿ ಕೊರೊನಾ ಸೋಚು ಎರಕೆಯ ನಡುವ ಬ್ಲಾಕ್ ಫಂಗರ್ ದೋಗ ಕಾಣಸಿಕೊಳ್ಳುತ್ತಿರುವುದು ಆತಂಕಕ್ಕೆ

ಜಿಲ್ಲೆಯಲ್ಲಿ ಈವರೆಗೆ 7 ಮಂದಿಯಲ್ಲಿ ಬೇರುವ ಮೂಗಿನ ಸ್ರಾವ್ಯ ಮೂಗಿನ ಬಗಿತ giorist ದೃತವಾಗಿದ್ದು ಒಬ್ಬರಲ್ಲಿ ತಂಕತ ಪತರಣ ಎಡಿಮಾ, ಕಣ್ಣು ಕಂಪಾಗಾಭಿಕ ಯಾವುದೇ ಪತ್ರಯಾಗಿದೆ. ಇಬ್ಬರು ಆಪ್ತ್ರಯಲ್ಲಿ ದೃಷ್ಟಿ ದೇಂದವುಂಜಾಗುವಕ್ಕೆ ಲಕ್ಷಣಗಳು ಇವರನ್ನುವಾರೆ. ಇಬ್ಬರಿಗೆ ಈಗಾಗಲೇ ಕಂಡು ಬಂದಲ್ಲಿ ತಶಕ್ಷಣವೇ ಸಮೀಪರ ಕ್ಯಾಚಿಕ್ಕ ಗಡಿಸಲಾಗಿದೆ ಈ ನಿಟ್ಟಾಲ್ನ ಎಲ್ಲ ಆರೋಗ್ನ ಕೇಂದ್ರಗಳನ್ನು ಸಂಪರ್ಕಿಸಬೇಕು ಹೊಸೂಪಾ ರೋಗಿಗಳ ಮೇಲೆ ವಿಶೇಷ ಎಂದು ದೇಕ ಜಿಲ್ಲಾಧಿಕಾರಿ ಡಾ ರಾಷೇಂದ್ರ ಸರ್ಕಾಶ ಮಾಡ್ ಮಿತಿ ಕಿ.ಎ ಆರಂಭ ಕ್ರಾಮಿಕಿಸಿದ್ದರೆ adraid.

ದ್ದಾಕ್ ಫುಗರ್ ಖಾಯಲೆಯನು Demonstrati

ವರ್ತನೆಯನ್ನು ಪಾಲಿಸಿಕೊಂಡು ಸಹಕರಿಸಬೇಕು ಎ ಆರೋಗ್ಯದ ಬಗ್ಗೆ ನಿಗಾವಹಿಸಬೇಕು. **ಔಷಧ ಕೊರತೆ** ಮುಖ್ಯವಾಗಿ ಗೃಹ ನಿಗಾವಣಿಯಲ್ಲಿರುವ ಬ್ಲ್ಯಾಕ್ ಫಂಗಸ್ ರೋಗಕ್ಕೆ ತುತ್ತಾದ ಡಿಷದಕ್ಕೆ ಬೇಡಿಕೆ ಕೇಂಬರುತ್ತಿದೆ ಎಂದು ಹಾಗೂ ಗುಣಮುಖರಾದ ಕೋವಿಡ್ ರೋಗೀಸ್ ಇದೀಗ ಔಷಧ ಕೊರತೆ ಅಧಿಕಾರಗಳು ತಿಳಿಸಿದ್ದಾರೆ.

7 ಮಂದಿಗೆ ದೃಢ. ಇಬ್ಬರ ಸಾವು

ಸೋಂಕಿತ ವ್ಯಕ್ತಿಗಳು ಮುಖದ ನೋವು/ ಜಿಲ್ಲಡಳಿತದ ಮಾಹಿತಿಯಂತೆ ರ.ಕ. ಕೆನ್ಸೆಯನೋವು ರಕ್ಷಸಕ್ತಮತ್ತುರುರ್ವಾಸನೆ ಪ್ರಕರಣಗಳು ಮತ್ತು ಕಣ್ಣಿನ ಲಕ್ಷಣಗಳು (ಕಣ್ಣುಗುಡ್ಡಯ

Baharbu hast

ಕೊಂದಿಡ್ ಕೊಎಂದ ಕಾಯ್ದರು ಕಲಂ 7ವ ಪಡೆಯುತ್ತಿರುವ ಸೋಂಕತ ವ್ಯಕ್ತಿಗಳು ಆಡಿ ಅಭಿಸಂಚಿತ ರೋಗ ಎಂದು ಮುಂಜಾಗ್ರತಾ ಕ್ರಮಗಳನ್ನು ಪಾಲಿಸಬೇಕು. ಪಂಗಣಿಸಲಾಗಿದೆ. ಇವರ ಚಿಕಿತ್ರೆಯನ್ನು ಸಾರ್ವಜನಿಕರು ಯಾವುದೇರೋಗ ಭೀತಿಗೆ ಮಂಗಳೂರಿನ ಜಿಲ್ಲಾವರ್ನಾಕ್ ಆಸ್ತ್ರಕೆಯಲ್ಲಿ ಒಳಗಾಗದ ಕೋವಿಡ್ ನಿಯಂತ್ರಗಕ್ಕೆ ನೀಡಲಾಗುತ್ತಿದೆ. ಸಂಬಂಧಿಸಿ ಜಿಲ್ಲಾಡಳಿತವು ಕಾಲಕಾಲಕ್ಕೆ 'ಈ ರೋಗದ ಬಗ್ಗೆ ಸಾರ್ವಜನಿಕರು ನೀಡುವ ನಿರ್ದೇಶನಗಳನ್ನು ತಪ್ಪದೇ ಭಯಪಡದ ಕೋವಿಡ್ ಸಮುಚಿತ ಪಾರಿಸಿಕೊಂಡು ಜಿಲ್ಲಾರಕತರೊಂದಿಗೆ ಪಾಲಿಸಿಕೊಂಡು ಸಹಕಂಸದೇಕು ಎಂದಿದ್ದಾರೆ.

ಉಡುಪಿ: ಇಬ್ಬರಲ್ಲಿ ಸೋಂಕು ಪತ್ರೆ

राज्येक केर 11: राज्यक ಚರ್ಧೆಯಲ್ಲಿ ಇಬ್ಬರಲ್ಲಿ ಬ್ಯಾಕ್ ಘಂಗಸ್ ಸೋಂಕು ಪತ್ರೆಯಾಗಿದೆ. ಸಂಕಕಟ್ಟೆಯ 60 ವರ್ಷ ಶ್ರಾಯದ ಮಹಿಳೆ ಹಾಗೂ ಕಾಪು ನಂದಿಕೊರಿನ 45 ವರ್ಷದ ಪ್ರಸುವರೋರ್ವರಿಗೆ ಸೋಂಕು ತಗಲಿದೆ ಉಡುಕಿಯ ಆದರ್ಶ ಆದತೆಯಲ್ಲಿ ಚಿತ್ರವೇಗಳನ್ನು ನಡೆ ಈ ಪ್ರಕ ಮಹಿಳೆ ವಂಟಲೇಟರ್ನಲ್ಲಿದ್ದಾರೆ. ಉಡುಪಿ ಜಿನ್ನೆಯಲ್ಲಿ ಕಂಡುಬಂದ ಮೊದಲ ಎರಡು ಪಕರಣ ಇದಾಗಿದೆ. ಕಳೆದ ಕೆಲವು ದಿನಗಳ ಹಿಂದೆ ಅನ್ನ ಜಿಲ್ಲೆಯಿಂದ ಆಗಮಿಸಿದ 7 ಮಂದಿಗೆ ಮಣಿಪಾಲದ ಕನ್ನೂರ್ಯಾ ಅಸ್ತಕ್ಷೆಯಲ್ಲಿ ಸೋಂಕು ದೃಢಪಟ್ಟಿತ್ತು ಚಿಕಿತ್ಸೆಗೆ ಸ್ಪಂದಿಸುತ್ತಿದ್ದಾರೆ ಎಂದು ಜಿಲ್ಲಾ ಆರೋಗ್ಯ ಇಲಾಖೆಯ ವೈದ್ಯಾಧಿಕಾರಿ

ಎದುರಾಗಿದೆ ಎದುರಾಗಿದೆ ಈ ರೋಗಕ್ಕೆ ಪಲ್ಲಾ ವರ್ನ್ಯಾ ಆಸಕ್ಷೆಯಲ್ಲಿ ಔಷಧ ಅವ್ಯವಿದೆ ಹೀಗಾಗಿ, ಖಾಸಗಿ ಆಸ್ಪತ್ರೆಗಳಿಂದಲೂ ಈ



NAME: DEEPA **ROLL NO: 1248**