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Delivering Lung Cancer Care During the COVID-19 Pandemic

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Abstract

Early and timely diagnosis of any disease, especially cancer; Increases the chances of treatment and recovery; Therefore, it is better to be aware of the symptoms of lung cancer in the continuation of this article. It is advisable to first get acquainted with the causes of lung cancer so that we can assess our situation. The most important causes of lung cancer are smoking and other tobacco products, genetic mutations and family history. Second- and third-hand cigarette smoke and environmental pollutants such as air pollution also play a role in the development of this cancer. Of course, the role of colorless gas and the smell of radon and occupational exposure to compounds such as asbestos, arsenic and nickel should not be overlooked. Once we know the causes of lung cancer, we can look at its symptoms in our body. The most important symptoms of lung cancer are persistent cough, fatigue and lack of energy, and unexplained weight loss. Coughs such as coughing up blood and shortness of breath are other important symptoms of this cancer. Stomach, back, shoulder, and chest pain, as well as pain in the head, neck, and jaw, are other symptoms. In order to prevent lung cancer, special points should be considered, which we will mention in the following. The main advice is to avoid smoking and also not to be exposed to secondhand smoke; Therefore, avoid using any tobacco and quit if you smoke. People who are in work situations and exposure to things like asbestos should try to minimize this exposure and use breathing masks. Opening windows and covering cracks in walls and floors is important to reduce radon concentrations. It is recommended to eat more vegetables and fruits, especially cabbage, orange vegetables and garlic. It is important to note that awareness of the symptoms of the disease is very important for early diagnosis and thus increase the chances of treatment.

Keywords: Cancer; Cells; Tissues; Tumors; Prevention; Prognosis; Diagnosis; Imaging; Screening, Treatment; Management



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Introduction

Fear of the coronavirus has spread around the world and the increasing number of deaths from this disease has been devastating. Fear of this epidemic has made health a top priority for all, and nations have been forced to take some drastic measures to control the spread of the disease. Quarantine yourself is one of the main ways to prevent the attack of this threatening virus. Unfortunately, the quarantine situation in different parts of the world has led people to a sedentary lifestyle, which is gradually affecting the body's metabolism as well as the immune system in the long run. At a time when viral infections and airborne respiratory diseases are rampant, our bodies need to be strengthened to fight these destructive and dangerous cases. Things that make the lungs vulnerable Our lungs are prone to infections due to increased levels of infection, seasonal changes, exposure to chemicals or deadly viruses. An estimated 4 million people die from respiratory illnesses. The corona virus also affects the respiratory system, with most deaths worldwide due to respiratory problems caused by the virus being life-threatening. Another reason that the lungs are more prone to airborne diseases is due to smoking, which can also lead to lung cancer. Good friends' lungs However, there are natural ways to cleanse your lungs by following healthy habits and adding nutrients to your diet, which can also boost your immunity, some of which are discussed below. Turmeric In most respiratory illnesses, breathing is the hardest part because most people feel strangely heavy in their chests due to the constant and excessive production of mucus and inflammation in the airways. Daily consumption of turmeric helps reduce inflammation in the airways. In addition, the presence of a compound called curcumin in turmeric helps to naturally cleanse the lungs and detoxify the body, which is effective in

boosting the body's immune system. You can eat raw turmeric, or you can use powdered form with milk, or add some of it to your decoctions to prevent these diseases. Green tea green tea is one of the types of tea that is considered as an ointment for the lungs. Green tea has anti-inflammatory properties due to its polyphenols, which may help reduce inflammation in the lungs. Research has shown that there is a strong link between green tea and chronic obstructive pulmonary disease (COPD). There are several respiratory diseases, but there are primarily two main types of COPD: chronic bronchitis, which causes a prolonged cough and mucus, and emphysema, which damages the lungs over time. Both make it difficult to breathe. Studies have shown that drinking two cups of green tea a day is associated with a reduced risk of COPD. Mint and essential oil of mint is an old remedy for respiratory ailments. Many civilizations used mint for its medicinal properties. Fresh mint breath is not only pleasant for those around you, but also good for your body. Hot peppermint tea can cure sore throat by removing mucus deposits and inflammation caused by lung and chest infections. Research has shown that peppermint oil is also useful in treating lung disorders. It also helps athletes breathe better. An experiment found that athletes who drank water mixed with peppermint essential oils had improved respiratory levels, possibly due to the properties of peppermint, which dilate the bronchial tubes. Ginger One of the most widely used home remedies for coughs and colds is ginger, which is known for its anti-inflammatory properties and helps remove toxins from the respiratory tract. Ginger contains many vitamins and minerals, including potassium, magnesium, beta-carotene and zinc. As shown in several studies, certain extracts of ginger are also known to be useful in killing lung cancer cells. The best way to boost your immune system and fight off seasonal flu and



infections is to make a healthy ginger tea. Honey is known for its antibacterial properties, which help reduce the discomfort caused by respiratory problems. Research shows that honey has antiviral and antibacterial properties. In addition, a study conducted to investigate the treatment of respiratory problems in children examined how buckwheat honey works compared to dextromethorphan as a treatment for cough due to upper respiratory tract infection in children. This study showed that children who were given only one dose of honey 30 minutes before bedtime; They are consumed, relieve cough and help treat sleep problems. Just be careful not to give honey to children under one year old. Garlic You may not like the taste of garlic; But its unique properties allow you to swallow it without a moment's hesitation. Garlic contains a compound called allicin, which, like an antibiotic, helps to cure respiratory infections that lead to duct obstruction and inflammation. Garlic also improves asthma and reduces the risk of lung cancer. Eucalyptus incense Add a few drops of eucalyptus oil to boiling water and smoke with it. Close your eyes and breathe slowly for 10 minutes. This method is effective in reducing the symptoms of respiratory infections, rhinitis and sinusitis due to the antibacterial, antiviral and anti-inflammatory properties of eucalyptus oil. Vitamin D People who are deficient in vitamin D are more likely to develop respiratory infections. To the extent that even some researchers believe that sunlight vitamins can be a cure for asthma; So, ask your doctor to write you a test to see if you are deficient in this vitamin. You may need to take supplements under a doctor's supervision. black tea A study published in the journal *Inflammation* found that consuming black tea in guinea pigs prevented the dangerous effects of smoking, such as oxidative stress, inflammation, programmed cell death, and lung disease. Like many foods that play a role in lung health, tea seems to have high levels of antioxidants. Apple Daily consumption of an apple can eliminate lung problems. According to a study of 2,500 people who ate five or more apples a week, their lung function was better than the rest. Quercetin is an antioxidant found

in apples that protects the lungs from tobacco and other contaminants. Blueberries and other berries There is a lot of research on berries today. Studies linking berries to improved heart health, sharper brains and even slimmer waists! Studies have shown that these foods also help reduce the harmful effects of air pollution. Flavonoids are the main cause of these beneficial effects in the body. Other sources include cocoa, grapes, cranberries, apples, etc. [1-567].

Results and Discussion

It is one of the most common and serious types of cancer and one of its most common symptoms is a persistent cough. But the symptoms of lung cancer often do not appear until they have spread to other parts of the body. Subsequently, patients experience some symptoms that they may not think are due to the disease. Here are some of these strange symptoms. Back pain or pain in the shoulder and scapula area is a very common symptom of lung cancer, usually caused by a specific type of lung cancer known as a pancreatic tumor. These cancerous tumors grow in the upper part of the lungs and subsequently spread to the ribs, nerves, or spine. About 15% of all lung cancer patients have too much calcium in their body, which can lead to stomach pain or nausea. Patients often avoid eating and drinking. Constipation is a symptom of calcium accumulation in the body and may be linked to lung cancer. Lung cancer can affect the nervous system, which is essential for maintaining balance.

Conclusions

Small lung cancer cells may tell the immune system to attack the nervous system, which in turn can affect muscle function. It may be difficult to stand after sitting, or the person may feel unstable. Some lung cancer patients may find that their face, neck, or arms are swollen beyond normal. It is caused by a blockage of blood vessels by a tumor that the blood has nowhere to go. As a result, the face begins to



swell due to excess fluid. In some patients, the skin of the chest turns reddish-blue.

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Diffraction (XRD), Powder X-Ray Diffraction (PXRD), Wide-Angle X-Ray Diffraction (WAXD), Grazing-Incidence X-Ray Diffraction (GIXD) and Energy-Dispersive X-Ray Diffraction (EDXRD) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Oncol Res Rev.* 1: 1-10.

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