INTRODUCTION

In Vietnam, 7.8 million people are living with hepatitis B and nearly one million people are living with hepatitis C. This means that one out of nine people in Vietnam is infected with hepatitis B (HBV) or hepatitis C (HCV) infection. Hepatitis B and C cause nearly 80,000 liver cancer cases and 40,000 deaths each year. One study found that nearly 90% of people with liver cancer have been or are infected with the hepatitis B and / or C virus. Today, we can prevent and treat this disease. The hepatitis B vaccine is highly effective when the first dose is given to a baby within 24 hours of birth and three doses thereafter. People with chronic hepatitis B can be treated with highly effective drugs to stop the virus from progressing and reduce the risk of developing liver cancer. People infected with hepatitis C can now be cured within three months using new oral medications called direct antivirals. However, many people with hepatitis do not know they are infected and so do not seek treatment. In Vietnam, only about 10% of people with hepatitis B and C are diagnosed and only about 30% are diagnosed with treatment.

POPOPULARITY OF HEPATITIS B

Since people who suffer from liver disease cannot immediately detect the early signs and symptoms of hepatitis B, most of them are in the chronic stage when they start to get sick, therefore, the treatment of hepatitis B also becomes more difficult, the patient needs to take medicines to cure hepatitis B. The number of infected people is constantly increasing, Vietnam is one of the countries with a high number of infected people, with about 20% of the population (Figure 1).

Mechanism of infection

First is sexually transmission. The HBV virus found in male semen or female vaginal secretions can be transmitted through small cuts during sex. To prevent it, it is necessary to use safety measures, do not have indiscriminate sex or use unsanitary tools. Second is transmission from mother to child. Pregnant women infected with HBV virus have a very high chance of transmitting to the fetus, up to 90%, if there is no good protection after giving birth, infants and young children would be infected with HBV virus quickly. The likelihood of cirrhosis and chronic hepatitis B in adulthood are very high. Third is through blood transfusion. Many medical incidents lead to the transmission of HBV virus through blood such as using non-sterile medical equipment, sharing toothbrushes, needles, razors, nail tools, tattoos, etc.

After infection, the incubation period of HBV virus is from 3 to 6 months. Then, the active virus causes acute hepatitis B. If the human body is not autoimmune against the virus, the disease turns to chronic hepatitis B, the patient can only recover and prevent complications.

Stages of hepatitis B

At acute stage, the patient may have clinical symptoms such as loss of appetite, jaundice, fatigue, nausea, liver pain, dark urine, etc. Abnormal symptoms include elevated bilirubin, especially direct bilirubin, high liver enzyme index (AST, ALT), HBsAg (+). Chronic stage Patients may have clinical symptoms but often do not manifest as fatigue, weakness, jaundice, jaundice, loss of appetite, loss of appetite, digestive disorders, low-grade fever, pain in the liver, etc. Rather abnormal symptoms include liver enzymes index (AST, ALT) increased continuously or in 6 months, HBsAg (+), visible damage to liver.
TREATMENT BY MODERN METHODS

After an incubation period of about 6 months, the hepatitis B virus starts to work and multiplies in numbers. This process disturbs the activity of liver cells, causes chronic hepatitis, cirrhosis, etc.

There are several effective treatments for hepatitis B. Currently, medicine has not found a method to eliminate hepatitis B virus completely.7 Current treatments only help control and inhibit virus activity, return the virus to a state of inactivity, prevent dysfunction, and restore liver damage. Depending on the medical condition and economic condition, the patient may be treated with the following methods.1

Using medication such as Interferon combined with Tenofovir, Lamivudine, and Entecavir is to prevent the intracellular regeneration of the virus. Currently, the cost of treatment with Interferon is quite high, few patients have access. Drugs that reduce patient viral activity require lifelong use. Medicines are still the most common treatment for hepatitis B today.3

For the treatment of hepatitis B with western medicine, this method mainly uses antiviral drugs, immunomodulatory agents, and autologous reverse infusion therapy. Also in the method of treating hepatitis B by male medicine, people mainly use herbs in nature. In general, the following measures are used to protect, enhance liver function and detoxify the liver.4 The first is an antiviral drug. In the treatment of hepatitis B, the main direction of treatment in western medicine is to use drugs to fight the hepatitis B virus. The main drugs used are those containing α interferon, β interferon, γ interferon, vidarabine, ribivirin, polyinosinic-polycytidylic acid, etc. The second is immunomodulatory drugs: For the purpose of strengthening the body’s immune system to eliminate hepatitis B virus, immunomodulating drugs are also one of the main drugs used to treat hepatitis B in western medicine.10 Types that can be used are adrenalin, azathioprin, penicillinam, hydrochlorid, etc. suitable for patients with active chronic hepatitis B with clear autoimmune manifestations, not recommended for patients with chronic hepatitis. Whatever method of treatment for hepatitis B, the patient should follow the doctor’s instructions to get the best results. At the same time, the improper use of drugs by the patient can also cause many adverse liver effects. Hepatitis B is an early stage disease with unclear signs. Therefore, many patients are often subjective, late detection, causing difficulties in treatment.1

Traditional Treatment of hepatitis B can help strengthen and cool the liver, strengthen liver function, then protect the liver without causing side effects.7 However, the treatment of hepatitis B with Oriental medicine is still limited, traditional oriental medicine only enhances liver function and it is difficult to eliminate hepatitis B virus from the body. Therefore, many people choose to treat hepatitis B with the combination of oriental medicine and western medication. The combination of hepatitis B treatment with Western medicine, might be one of the best hepatitis B which is rather effective. It is preferred by many people with this disease. Western medicine, to a certain extent, will increase the burden and damage to the liver, therefore, we can combine it with traditional medicine to enhance the detoxifying function of the liver, support the liver to increase efficiency and eliminate the virus faster.11

TREATMENT OF PHYLLANTHUS URINARIA

Scientific composition of phyllanthus urinaria

This herb grows wild everywhere in Vietnam as well as in parts of the tropics. This wild-growing tree is found mainly in tropical countries such as India, Laos, Indonesia, Taiwan, Nepal, Japan, Thailand, China, Bhutan, South America and Vietnam. Chemical composition includes Flavonoid, phyllanthin alcaloid and hypophyllanthin, niranthin, phylteralin compounds.6 In Vietnam, a lot of researches on the treatment effects of phyllanthus urinaria hepatitis have been conducted, such as Hepamarin product from Phyllanthus amarus, Phyllanthin powder (Figure 2).

The effect on the immune system of this herb is quite good. In 1992, Japanese scientists also discovered the effect of inhibiting HIV-1 development from Phyllanthus niruri through the inhibition of HIV replication. In 1996, the Bristol Meyers Squibb Research Institute of Pharmacy also extracted from phyllanthus urinaria an active ingredient with this effect and named it Nuruside.12

The second is the detoxifying effect. The Vietnamese, Indian, and Chinese people use phyllanthus urinaria to treat pimples, ulcers, snake bites. According to Malaysian old people, phyllanthus urinaria can be used to treat dermatitis, urinary tract infections, vaginitis, etc. Research works at the Institute of Medicinal Materials - Vietnam (1987-2000) showed that when using a dose of 10 - 50g / kg, phyllanthus urinaria had acute anti-inflammatory effect in mice.

The third is the treatment of gastrointestinal diseases. This medicinal plant has the ability to stimulate appetite (Figure 3). The Indians used to treat hepatitis, jaundice, dysentery, constipation, typhoid, colitis. People in Haiti, Java use this medicinal plant to treat stomach pain, digestive disorders, etc.7

Fourth is respiratory disease. The Indians use phyllanthus urinaria to treat cough, bronchitis, bronchial asthma, tuberculosis, etc.

Fifth is analgesic effect. Kenneth Jones and Brazilian researchers have discovered the strong and sustainable analgesic effects of some Phyllanthus species, including Phyllanthus niruri. The analgesic effect of phyllanthus urinaria is 4 times stronger than indomethacin and 3 times stronger than morphine. This effect is demonstrated by the presence of gallic acid, ethyl ester and a mixture of steroids (beta sitosterol and stigmasterol) present in the phyllanthus urinaria.13

Next is diabetes treatment. The hypoglycemic effect of phyllanthus urinaria was concluded in 1995, when blood sugar was significantly reduced in diabetics when this drug was given for 10 days.

Each part of this herb contains different chemical ingredients. For example, leaves contain large amounts of bitter active ingredients such as phylthalin and hypophylthalin. In the body of this herb, there are substances such as Nirtetralin, Niranthin, Flavonoid, Phylteralin, Alcaloid of securinin type such as niruroidin and isosubialin, Lignan, organic acids such as geraninic acid, ascorbic acid, repandusinic A and amaranic acid (Figure 4).
Side effects of phyllanthus urinaria

Phyllanthus niruri can purify the liver. However, if used in overdose for a long time, it can cause cirrhosis. Phyllanthus niruri does not help with the cure, but makes the condition worse. How to use this medicine is quite simple. Take 100 grams of cooking with water until concentrated and drink with a period of 30-40 days of disease treatment. To eliminate this human disease, hospitals need to invest in hepatitis testing and treatment services. In addition to being the right thing to do for everyone’s health, this is a very smart and effective investment as it will save money from much more expensive cancer treatments.

Globally, we are aiming for a 90% reduction in new hepatitis virus infections and chronic hepatitis deaths. To achieve this goal in Vietnam, hepatitis services must be readily available and affordable for people living with hepatitis B and C. Another important action is to raise awareness about the disease. Simply put, if people are unaware of hepatitis, they will not take precautions to avoid infection, or will not go for testing and treatment.

Instead, their health will be compromised and they may unintentionally infect others. In some countries, misunderstanding of hepatitis has resulted in stigma and discrimination against people with it, which also means that people with hepatitis are reluctant to access their treatment. Lack of awareness of the health effects of hepatitis also means that resources are not being fully allocated to prevent the disease. Let’s educate ourselves and others about the risk of viral hepatitis and how to be tested. We can also participate in local advocacy events to raise awareness in the community and show our support in investing more to eradicate the disease.

CONCLUSION

Early detection and treatment of acute hepatitis B can completely cure the disease. The disease has few obvious symptoms in the early stages, so few patients detect and treat it. Testing for hepatitis B in people at high risk who have symptoms is the earliest way to detect the disease. There are also many effective traditional herbal remedies in the treatment of chronic hepatitis B. However, the remedy only helps restore liver function, reduce damage and activity of the virus. Patients still need initial treatment with more aggressive drugs or methods. Phyllanthus niruri brings many good effects to health. However, the patient should not overdo it, to avoid the case of drugs causing side effects affecting health.

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CONFLICTS OF INTEREST

None.

ETHICAL CLEARANCE

The author ensures the quality and integrity of my research. The ideas and opinions expressed in this paper are my effort.

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