

# Hypertension:

## Is a Natural ACE Inhibitor A Key Factor Fighting High Blood Pressure?



As per the estimation of World Health Organization (WHO), globally more than 1.13 billion people are affected with Hypertension.

Unhealthy diets, lack of physical exercise, consumption of alcohol & tobacco, and excess stress are the main contributing factors of Hypertension.<sup>[1]</sup>

In addition to the dangers of COVID-19, antihypertensive drugs have become a daily necessity for patients. A primary mechanism of action of antihypertensive drugs that are commonly used in middle-aged and elderly hypertensive patients is the ACE inhibitor. However, many synthetic ACE inhibitors (e.g. captopril) may cause side effects such as taste alterations, dry cough, and skin rashes. In addition, poor bioavailability and insufficient effectiveness have also become major drawbacks of antihypertensive drugs. The question now to ask is: Is it possible to find a natural and ACE inhibitor in the easily accessible dietary supplement form?

### ClamBP™: A 100% Natural ACE Inhibitor Discover from the Ocean

At Chenland, we have found the answer to this question in the ocean. The Chenland R&D team has recently focused on this potential source to help alleviate hypertension by balancing blood pressure, increasing vascular endothelial factors, and promote overall heart and kidney health.

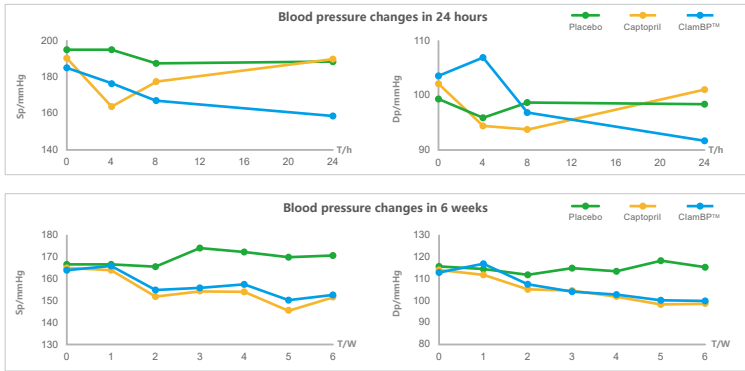
To understand ClamBP™, we need to start with the concept of “peptides” . Marine peptides are made from high-protein fish species and shellfish in the ocean as main raw materials. Studies indicate that the peptides acquired after hydrolysis of clams exhibited various bioactivities such as antioxidant, anticancer, antibacterial and anti-hypertension properties. As these ingredients hold pure natural active properties of marine peptides, functional beverages, and health foods whose peptides are used as ingredients have been favored by customers all over the world, with a continuously increasing market demand.

Perhaps you have only heard of marine peptides made from fish or shellfish, but you may have never heard of bioactive peptide made from clam. The brand-new patent extract ClamBP™ is a natural marine active peptide derived from high quality clam meat by our eco-friendly patented bionic enzymolysis technology. A number of studies have confirmed that ClamBP™ can effectively inhibit ACE activity in the body, achieve a mild reduction of high blood pressure, and maintain a healthy daily blood pressure level. ClamBP™ also has a great protective effect on kidney, blood vessel, and heart damage caused by high blood pressure, and utilizes a natural marine ingredient so as to avoid the risk of excess side effects caused by heavy medications.

[1] Diab, E., 2021. Hypertension 2020 - Market Analysis. [online] Diversityhealthcare. imedpub.com. Available at: <<https://diversityhealthcare.imedpub.com/hypertension-2020-market-analysis.php?aid=26209>>

## Moderately Lowers Blood Pressure Rapidly and for the Long-term

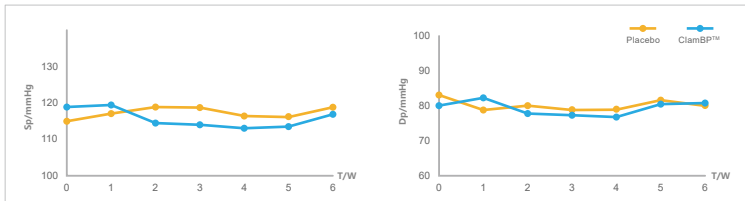
In order to test the effectiveness of ClamBP™, we tested the blood pressure of SHR rats 7 times at baseline and every four hours a day for 6 weeks at a clinical dosage of 2g. The results showed that ClamBP™ can effectively lower blood pressure as quickly as in 9 hours with a similar trend found in the positive group.



Additionally, we tracked the long-term effect of ClamBP™ in lowering blood pressure for 6 weeks. Long-term intake of ClamBP™ can maintain a more stable blood pressure level, which has a similar effect to the hypotensor Captopril.

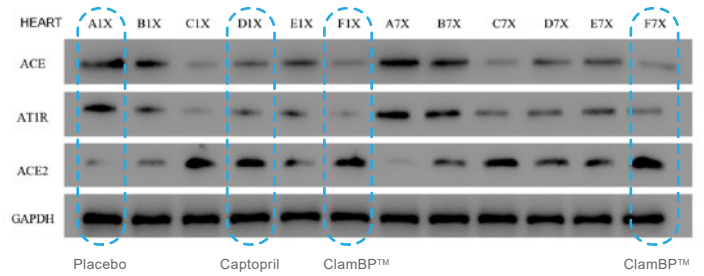
## No Effect on Normal Blood Pressure

Taking ClamBP™ continuously for 6 weeks will not cause a decrease in normal blood pressure. The blood pressure of healthy rats remained normal at a clinical dose of 2g/day. The results show that ClamBP™ is a safe solution to hypertension problems and has no effect on normal blood pressure.



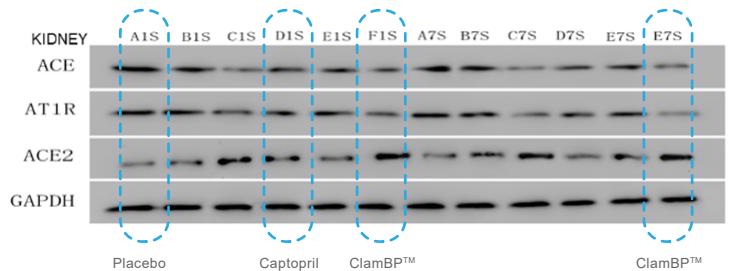
## Protects Heart Health

Hypertension is one of the main causes of cardiovascular disease. ClamBP™ provides a natural and effective heart health solution by controlling abnormal blood pressure.



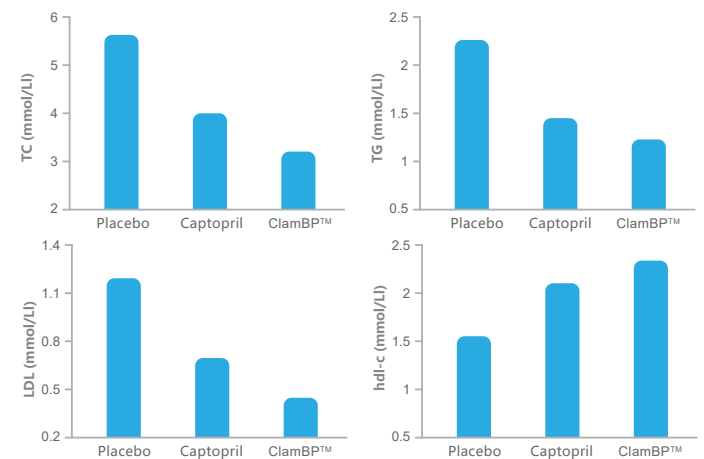
## Protects Kidney Health

Kidney damage is also a complication of hypertension. Under the influence of long-term high pressure, the glomerulus will have a continuous high filtration state, which will damage the glomerular filtration membrane and renal tubules—a side effect that can be caused medicated ACE inhibitors. ClamBP™ plays a natural ACE inhibitor role by lowering blood pressure as it can expand blood vessels to reduce the occurrence of kidney damage without the nasty side effects.



## Regulates Blood Lipids

High blood lipids can lead to atherosclerosis of the arteries and increase blood pressure. The following results showed that ClamBP™ can regulate the blood lipid by reducing the concentration of Serum total cholesterol (TC), Triglyceride (TG), Low-density lipoprotein (LDL) and increases the concentration of high-density lipoprotein (HDL).



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