## WXPost Clot Traveled Like

By Stuart Auerbach Washington Post Staff Writer

as if it were a piece of debris clot. carried along by a fast-moving stream.

It formed in Mr· Nixon's left thigh—at the same time or inflation that characterized phlebitis. Most of the clot refrom the thigh to the heart.

a stream can break off a piece of its branches.

of debris and carry it down-The blood clot that lodged (which circulates through the pulmonary right lung arrived there just seconds) tore off a piece of the

According to medical experts here, the piece of clot—described by Mr. Nixon's physician, Dr. John C. Lungren,

mained in his leg, probably in the deep femoral vein under the muscles, where the area of inflammation is.

Like a piece of debris in a stream, the clot probably stopped along the way as it lodged against the side of the vein or consist temporarily in one.

stream, the fast-moving blood through the heart and into the body would have been clogged in former President Nixon's entire body in 10 to 12 from the heart to the lung— alternate route. without getting caught and permanently clogging that all- passes through the pulmonary important blood vessel.

To block the pulmonary artery, the clot would have to be the lung until finally it can go the size of a big thumb, said Dr. John M. Keshishian, assist-wedged in the artery, comjust after the beginning of the as the size of a dime—tumbled Dr. John M. Keshishian, assistant professor of surgery at pletely clogging it.

George Washington University
Medical Center and a specialsome lung tissue, called a pul-Medical Center and a specialist in blood-vessel surgery.

And if the clot had been big

It was small enough to get, pathway of blood through the artery-leading at a point where there is no

> A smaller clot, however, artery and through the evernarrowing arteries deeper in

monary infarction by doctors. ne muscles, where the area of ped along the way as it lodged against the side of the vein or But just as rushing water in stream can break off a piece of its branches.

And if the clot had been big enough to block that artery, Mr. Nixon would have died almost immediately. The main ing. Lungren said the former

## ris in a Rushing Stream

President did not even feel blood that triggers a series of pain from the infarction. The irregular, potentially doctor also did not report other signs of an infarction: a sudden drop in blood pressure irregular beating of the heart

And the coughing up of blood.

Nevertheless, experts here said that small infarctions in the lung are potentially fatal. For reasons not known to medical science, patients have died from clots that destroyed small amounts of lung tissue. The most dangerous time is the first 24 hours after the clot gets to the lung.

known as arrhythmias; fast heartbeats known as tachycardia, or shock. Some scientists have theorized that the dead lung tissue releases a chemical that acts as the trigger.

The danger that Lungren cited, then, is that another piece of the clot in the thigh will break off and either will be large enough to block the

events in the heart.

These can include the wild, and the coughing up of blood. known as arrhythmias; fast

clot gets to the lung.

Researchers postulate that the dead area of lung causes changes in the circulation of action.

Researchers postulate that the large enough to block the entire pulmonary artery or will trigger the irregular heart action.

ries of Most doctors believe that If more clots break off, his fatal, the clot in Mr. Nixon's lung doctors may want surgery that presents no further danger to him because it will remain where it is lodged and probably will not break apart.

Would take one of three forms: tying off the interior

bly will not break apart.
The anti-coagulants that he is receiving will not dissolve either the clot in his lung or the one in his thigh. But the medicine will prevent further clotting and stop the existing clots from growing.

Once a clot stops growing, it will generally attach itself to the wall of the blood vessel and become a stringy, thread-like substance that shows lit-tle evidence that it ever existed.

would prevent them from tray-

vena cava (a major vein from the leg to the heart) above the area of inflamation, which would force the body to find alternate pathways to carry blood from the leg to the heart; clipping the interior vena cava so that blood could flow through but clots would be stopped, or inserting an umbrella-like device through the jugular vein (in the neck) into the vena cava to screen out clots.