ood Clot Traveled Like

By Stuart Auerbach Washington Post Staff Writer

The blood clot that lodged (which circulates through the pulmonary in former President Nixon's entire body in 10 to 12 from the heart to the lung- alternate route. right lung arrived there just seconds) tore off a piece of the without getting caught and A smaller clot, however, as if it were a piece of debris clot. carried along by a fast-moving

thigh at the same time or sician, Dr. John C. Lungren, just after the beginning of the as the size of a dime-tumbled inflation that characterized along the ever-widening veins phlebitis. Most of the clot re- from the thigh to the heart. mained in his leg, probably in the deep femoral vein under stream, the clot probably stopthe muscles, where the area of ped along the way as it lodged dnflammation is.

a stream can break off a piece of its branches.

of debris and carry it down- It was small enough to get pathway of blood through the stream, the fast-moving blood through the heart and into the body would have been clogged

According to medical experts here, the piece of clot-"It formed in Mr. Nixon's left described by Mr. Nixon's phy-

> Like a piece of debris in a against the side of the vein or

permanently clogging that all- passes through the pulmonary important blood vessel.

tery, the clot would have to be the lung until finally it can go the size of a big thumb, said no futher; the clot becomes Dr. John M. Keshishian, assist- wedged in the artery, comant professor of surgery at pletely clogging it. George Washington University Medical Center and a specialist in blood-vessel surgery.

enough to block that artery, lung that was killed was not But just as rushing water in got caught temporarily in one Mr. Nixon would have died al- enough to restrict his breathmost immediately. The main ing. Lungren said the former

artery-leading at a point where there is no

artery and through the ever-To block the pulmonary ar- narrowing arteries deepe in

The causes the some lung tissue, called a pulmonary infarction by doctors. And if the clot had been big But the amount of Mr. Nixon's

bris in a Rushing S

President did not even feel blood that triggers a series of doctor also did not report events in the heart. other signs of an infarction: a sudden drop in blood pressure irregular beating of the heart and the coughing up of blood. known as arrhythmias; fast

said that small infarctions in dia, or shock. Some scientists the lung are potentially fatal. have theorized that the dead the one in his thigh. But the For reasons not known to lung tissue releases a chemical medical science, patients have that acts as the trigger. died from clots that destroyed small amounts of lung tissue. cited, then, is that another The most dangerous time is piece of the clot in the thigh the first 24 hours after the will break off and either will clot gets to the lung.

changes in the circulation of action.

pain from the infarction. The irregular, potentially fatal,

These can include the wild, Nevertheless, experts here heartbeats known as tachycar-

The danger that Lungren be large enough to block the Researchers postulate that entire pulmonary artery or the dead area of lung causes will trigger the irregular heart tle evidence that it ever ex- into the vena cava to screen

Most doctors believe that him because it will remain eling to the lung. where it is lodged and probably will not break apart.

is receiving will not dissolve medicine will prevent furter clotting and stop the existing clots from growing.

Once a clot stops growing, it and become a stringy, thread-

If more clots break off, his the clot in Mr. Nixon's lung doctors may want surgery that presents no further danger to would prevent them from trav-

This could take one of three forms: tying off the interior The anti-coagulants that he vena cava (a major vein from the leg to the heart) above the either the clot in his lung or 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 will generally attach itself to flow through but clots would the wall of the blood vessel be stopped, or inserting an umbrella-like device through like substance that shows lit- the jugular vein (in the neck) out clots.