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

thigh—at the same time or sician, Dr. John C. Lungren, hust 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 winflammation is.

a stream can break off a piece of its branches.

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

important blood vessel.

ant professor of surgery at pletely clogging it. George Washington University ist 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 breath-

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 artery-leading at a point where there is no

> A smaller clot, however, permanently clogging that all- passes through the pulmonary artery and through the ever-To block the pulmonary ar- narrowing arteries deepe in 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, com-

The causes the death of Medical Center and a special- some lung tissue, called a pulmonary infarction by doctors. And if the clot had been big But the amount of Mr. Nixon's most immediately. The main ing. Lungren said the former

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.

said that small infarctions in dia, or shock. Some scientists the lung are potentially fatal. have theorized that the dead 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 clot gets to the lung.

changes in the circulation of action,

pain from the infarction. The irregular, potentially fatal, the clot in Mr. Nixon's lung doctors may want surgery that

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

The danger that Lungren will break off and either will be large enough to block the Researchers postulate that entire pulmonary artery or

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 the one in his thigh. But the medicine will prevent furter

and become a stringy, threadisted.

If more clots break off, his 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 clotting and stop the existing blood from the leg to the clots from growing.

Once a clot stops growing, it 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) the dead area of lung causes will trigger the irregular heart the evidence that it ever ex- into the vena cava to screen out clots.