No. 21 COOD HEALTH

November 1955

MADRAS-7 (S. INDIA)

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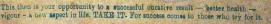


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# DEAD BROUGHT TO LIFE

The Conquest of Shock

- 9 -

George Washington Crile, one of the greatest surgeons of all time, was born in 1864, the son of a prosperous farmer in Chili, Ohio. At 18 he was reading medicine with the village doctor, later he worked his way through Wooster Medical School.

One of the blood-pressure stimulants Orie had experimented with in the early 1900's was adrenalin, discovered only a few years before. Intrigued by its unique power to touch off an explosion of energy in the heart muscle, he asked: Why could not a heart that had stopped beating be made to beat again?

A hushed group of assistants gathered in Crile's laboratory for the first experiment in 'resurrection.' A dog was given an overdose of chloroform; heartbeat and respiration ceased. Five minutes ticked by. Then Dr. Crile injected adrenalin into a blood vessel leading to the heart? In ten seconds the dead heart leaped into action; artificial respiration wasapplied and a few minutes later thecanine Lazarus fluttered its cyclids. It was one of the supreme scientific thrills of all time.

Crile had no way of knowing how adrenalin would act on a human heart. Then one dayhe was finishing a brain operation on a 12 years-old girl when suddenly her heart and respiration ceased Byevery midical definition she was dead.

Dr. Crile injected adrenalin. Five and a half minutes after "death," the motionless heart surged back to life. The "resurrected girl made an uneventful recovery.

Further investigation set limits to the restorative power of adrenalin. Orile found that consciousness could not return if the heart had stopped for more than ten minutes six anh a half minutes was the average. Adrenalin, however is till a powerful weapon in certain emergencies.

One day in 1887 william Lyndman, a fellow medical student, was hit by a street car. He was rushed to hospital where both

legs were amputated. He lost little blood and no vital organ was injured, yet that night he died of shock. Dr. Crile, sat by his friend's bed-side, appalled that medical science could do nothing. Today, thanks to Dr. Crile, doctors know how to prevent or treat it.

Working with anesthetized dogs and cases, he noted that the severity of shook was proprtionate to the number of nerve endings in the area of injury. What was needed was an anesthetic road block, that would bar not only pain but the impluses of shook as well.

For his "block anesthesia" Crile turned to cocaine. The first major test came when a boy was brought into the hospital, his lower leg hopelessly crushed. Dr. Crile injected cocaine around the large nerves of the thigh and performed the amputation. The youngster talked about baseball throughout the operation and exhibited no symptoms of shock.

George Crile had won his first battle. He now turned to the problem of treating shock once it existed.

A primary symptom of shock is rapidly falling blood pressure. The blood vessels expand and much plasma fluid seeps our through the capillary walls. A diminished volume of blood is left, pulsing sluggishly through enlarged vessels. When the pulsations become too sluggish, the brain fails to receive enough blood and the patient dies.

Orile knew that if blood pressure could be maintained at a safelevel until the body's compensatory reactions took effect the sheek patient would live. He started looking for a fluid that could be injected into the blood stream to raise pressure-a fluid that would not vanish rapidly through the blood-vessel walls (as salt solutions always did), would cause no injury and would be readily available.

197939 TH

# Forest King

is the giant sequoia or California
big tree "After 30 centuries of growth
Sequoia gigantea is practically a geological
phenomenon.

The home of the giant sequoia lies between 6000 and 8000 feet altitude on the western slopes of the Sierra Nevada. Those who know the species best, maintain that it never dies of disease or senility. If it survives predators in its infancy and the hazard of fire in youth only a bolt from heaven will end its centuries of life.

To see "big trees" you must travel far and climb high. It is a day's run by car from San Francisco or Los Angeles. Your car engine will be boiling by the time you see the red fits and white of the upper forests. Then come the Jeffrey pines, clad in great orange plates of bark like the leathern shields of Homeric soldiers. Somber Douglas firs darken the late afternoon as with oncoming night. At last the sugar pines with rugged purple trunks, the mightlest pines in all the world, close about you.

It will be dusk, no doubt, when you reach the giant groves. And the forest will be still, yet watchfully alive. A deer may put an inquisitive black muzzle in your outheld hand. It will be a long moment before you realize the vast shadow behind the little doe is not shade but a tree trunk so gigantic that you cannot comprehend at first that this is a living thing. Were a cross section of that great bole put down in a city street, it would block it from curb to curb. That mighty bough, the lowest one, is still so high, above the ground that its would stretch out over the top of a 12 story building. If it were cut off and stood in the ground, that bough would appear as a tree 70 feet high and seven feet in diameter at the base. The "big tree's craggy crown is as lost to accurate measurement as your head would be to beetle at your shoe.

The "big trees" of Calaveras North Grove were discovered one spring day in 1852 by a miner, A. T. Dowd, who pursued a grizzly bear far up into tall timber. When he encountered the "big trees," his astonishment was so great that he allowed the bear to get away. His fellow miners came, incredulous, and beheld 50 acres of what we now call the Calaveras North Grove, covered with trees as tall as 325 teet-

The General Sherman is usually considered the all-round exemplary giant sequoia. It is 273 feet high, has a basal circumference of more than 102 feet; at 16 feet above the ground it is better than 24 feet in diameter, and raises a clean shaft clear of any boughs for a height of 130 feet. In the Calweras North Grove lies prone the tree called Father of the Forest; inside its holtow trunk a man once rode horseback without having to bend his head. Though the crown of this tree is gone, the taper of the trunk indicates that the Father of the Forest stood 400 feet high-which would have made it the tallest tree in the world.

A gaint segucia waits 175 or 200 year.

A gaint segucia waits 175 or 200 year.

It comes, the trees are loaded with millions of male and female conclets from November to late in February. The greeny-gold pollen showers all over the gaint's body and drifts in swirls upon the snow. A single tree will bear hundreds of thousands ocones when in the full vigor of its life.

The sap of the "big trees" is nonresinous. hence only slightly inflammable. Though fire is a deadly peril to the thin-harked young sequoias, when bark has formed on the old specimens it may be a foot or more thick and practically as fireresistant as asbestos. The only way that fire can penetrate is when some more inflammable tree falls as a brand against a giant sequoia and, fanned to a blowtorch by the mountain wind, sears its way through to the wood. Even then fire seems never to consume a great old specimen. The repair of fire damage begins at once, even if the wound is so wide that it would take a thousand years to cover it. The high tannin content of the sap has the same healing action that tannic acid has on our flesh when we apply it to a burn. More it is highly antiseptic, deadly to the spores of infecting fungus growth.

LIS MILLINSH MYSZ

#### ICE-HOCKEY EXCITEMENT

Canadians have learned to be fond of the imported games of football and baseball, but their first love is their own game: ice hockey, Much of that love is lavished on one star-French Canadian Maurice ("the Rocket") Richard, the best professional player on skates and the man with the hothest kenues:

Just about the only record that has aluded the Rooket in his 13 year career with Les Canadians is the single-season point-scoring championship (which includes points for both goals and assists). The eason, with only three games left, that final honor seemed to be histen last week, in a game against the Boston Bruins, Rooket Richard exploded into one the most splendid flare-ups of his career. Clipped in the head by Boston Forward Hall Laycoe's high - swinging stick, the Rooket hardly bothered to brush the blood out of his syes before he flattened Laycoe. He also managed to give Linesman Cliff Thomson a soke in the eye.

Put out of the game the Rocket went to a Montreal hospital to be patched up. Then he appeared at National Hockey League headquarters to explain his conduct to President Clarence Campbell. This time, Campbell decided, a line was not punishment enough for the man who holds the record for fines paid in the N. H. L. He suspended the Rocket for the rest of the season, forbade him to play in the Stanley Cup Games as well.

A Matter of Honor To the Rocket's tans the sentence was intolerable. The kindest words they had for Campbell were profane assurances that he did not have long to live. The league president not so many threats that

it became a matter of honor for him to appear in the Montreal Forum next evening when the Rocketless Cauadiens took on the Detroit Red

Wings All afternoon, tension built up in the city (pop 1,046,000) Gangs of young hoodlums brought standing-room tickets and packed the

brought standing-room blokets and packed the brought standing-room blokets and packed the brought standings began to book away the game, the mob's mood blackened. Campbell's cocky arrival, just before the first period ended (with Les Canadians babind, 3-0), touched off a barrage of peanute, rotten fruit galoshes and programs—One spectator pushed pass Campbell's police guard and walloged him twice across the face.

A Mob of Hoodlums. Riot was just a breath away when someens touched off a tear gas bomb. Blinded, and choking on the thick smoke, spectators groped their way out of the Forum. Outside, the mob grew. Some 8,000 atrong, it flowed down St. Catherine Street, blocked traile and cheered when a truckload of kids shouted "Vive te Rocket" Soon the hoodlums took over. Rocks arched through the yellow haze of street lights and store windows shattered Jowelry shops were looked. Street ears took a pasting It was 3:30 am. before the Montreal come had the site back under control.

Then, people who took the trouble to ask discovered that Campbell had awarded the game to the red wings, and Les Canadiens had been knocked out of the lesgue lead. As for Rackst Richard, he had watched the game and the start of the riot from a box seak. Next day he appeared on radio and TV, to make an appeal for calm in both French and English-He would take his punishment, the Rocket said, and he would be back next year.

# PRISONER OF LOVE

In Cook Country Jail languished Alma Ferguson, whom the newspapers labeled Prisoner of love. In 1949 she met Roy Ferguson. He was already married but they moved in together anyway. Mrs. Theresa divorce on grounds of cruelty. without naming Alma as correspondent, than sued her (Alma) for alienation of affections and won a dollar twenty-five thousand judgment. We have not got the money said Ferguson, who had married Alma by then. But the first Mrs. Ferguson had other means open to exact payment for her lost love.

In Illinois, a defendant who loses a tort suit and does not pay the damages can be jailed if malice is the gist of the action. And as charged in Thoreas's suit, Alma malticusly alienated Roy Ferguson's affections. She could thus be Jailed at the wronged women's discretion, and she was. Willingly the first Mrs Ferguson paid the jail fees for incarcerating the second Mrs. Ferguson.

"This whole thing is silly!" waited Almawho can be kept in jail for six months. Sung at home, the former Mrs. Fergerson trilled gaily: "I honestly don't know if I'll keep her there for six months. I've been through a lot, but I can still laugh. Give her my love."

# Deadly Snake Bite Need Not be Fatal

On that dark winter morning it was hard to see the mottled shapes on the grav floor of the snake-house in the Bronx Zoo. And perhaps the routine of the job had dulled Toomey's caution. As he pushed his cleaning tool into a cage, a big rattler struck from the shadows, deep into Toomey's hand,

As the swelling mounted, the man, seemto face certain death. Then sheer luck intervened A visitor mentioned the name and address of the only man in the world who might save his life. He was phoned for and a little later a stocky man walked into the hospital room where Toomey lay writhing. "What type was the snake?" he asked. Told it was a rattler, he selected a vial from his bag, drew its liquid into a syringe and jabbed a needle into Toomey's chest. Within two hours the man was out of danger.

Without specific anti-ven-ins one fourth of those bitten would die. But early treatment with the proper serum virtually assures recovery.

grown it to the worlds' No. I snake-serum center-Butantan Institute, wish 40 buildings and a staff of 368. It is the greatest tourist magnet in Brazil; it drew 13,870 visitors one month. They came to see thousands of snakes basking, squirming, swimming in an encircling moat, festooning trees, gliding in and out of dome-shaped concrete shelters.

Not all are venemous. Only about one third of some 2000 known varieties of snakes have poison sacs. Many are useful to man. For instance, the institute breeds and distributes the lightning-fast mussurana, a shiny black snake that is treated like a prized hunting dog on hundreds of back woods farms. The mussurana, immune to the poison of the deadly jararaca, attacks, strangles and eats this prolific cousin of the rattlesnake.

But four fifths of Butantan's snakes are poison producers. Smallest is the coral snake, a variety of which is found in the southern United states-a venemous but beautiful creature of black, red and yellow bands. Largest is the bushmaster, one of the viper group that includes rattlers, moccasins and connerheads. At its full growth of 12 feet. the bushmaster is the most lethal snake in the Americas, packing enough venom to kill 100 men

The keepers at Butantan treat their The little laboratory at Sao Paulo has collections of gliding death like so many herds of cows. At intervals each serpent is 'milked'. Spectators watch fascinated as handlers grasp a snake deftly behind the head, then press the poison glands slowly until the venom drops from its bared fangs into a glass dish.

The second step in serum making is to inject a horse with a tiny dose of venom. Larger injections follow periodically until the animal is immune. The serum then is extracted from the blood.

## DEAD BROUGHT TO LIFE (Continued)

The answer: human blood, In 1906 blood transfusion was virtually unknown. Early experiments had ended fatally. In drawing blood from the donor into a receptacle and injecting into the recipient's vein there was a moment of contact with air, which causes blood to clot. A clot, passing into circulation and lodging in heart or brain, could have fatal results.

Dr. Crile came up with a surgeon's answer-sew the donor's artery directly to the recipient's vein and by-pass the deadly air contact.

On August 8, 1906, Crile tested this technique on a young man deep in shock and near death. A donor's blood vessel was sutured to the patient's and the lifesaving fluid began to flow. Slowly the ashen features took on colour, blood pressure rose and in a dramatic few minutes consciousness returned.

Problems remained in transfusion: blood grouping, the invention of a connecting tube to replace Crile's difficult sewing technique, the dovelopement of anticoagulants to prevent clotting. But by the end of World War I, thanks largely to Dr. Crile's own front-line demonstrations, transfusion had become the standard treatment for shock and hemorrhage in every hospital in the world, by means of Blood-Banks. which make available various types of blood in a suitable form and in sufficient stocks to meet any emergency.

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# HOW EVERY SUFFERER CAN

# THROW SEX OFF MEANNES VIGOUR

Sexually weak men may try many things, for a lasting cure but only in sex-hormonegland—theraphy will they find the one

By Dr. J. Naughten, L. R. C. P.

genuine means to throw-off impotence completely and permanently.



Most men approaching the age of 40 begin to feel the decline of their virile powers, which may be she sarly signs of premature old age or a mild form of gland and nerve weakness. Other causes of impotence are disease, excess, youth's follies and poor aex development.

Impotence is mainly due to weak, wornout or deteriorated vital glands and actual nerves, and it results in partial or complete less of erection, premature climax during union, and loss of development of the organs, and it is the cause of many unhappy marriages.

Science proves more than ever before that impotence in most cases, is but a passing midisposition: if sufferers have the good sense to seek medical aid; use a genuire remedial product and have the perseverance to take the treatment properly. Unfortunately many sufferers dissipate their opportunity for a complete cure by using various speculed cure.

Sex-hormone-gland-theraphy is the form of treatment available in a genuine remedial product which every sufferer should use. The one great advantage of this treatment, which no other treatment can give, is that it nourishes and renews wom-out, somesimes partially destroyed wital glands nerves and tissues of the sexual system and thus makes good, the damage done by discuss, excess, youth's follies, and age, and so enables a complete and lasting cure.

Only this form of treatment of the formulae of Dr. Brown Sequard has this constructive action, which sufferers will nete as one by one their sexual weaknesses and defects, lessen and disappear.

Therefore, if you are partially or completely impotent you will find a course of this treatment the one dependable means to obtain a complete cure. It will restore full eractile vitality enable proper union and will cure smallness of the sex parts by restoring development of same.

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## ATOM BOMB TEST

(The Man Who Gives The Word)

He is Dr. Alvin Graves, a physicist who has lived in the strange world of atomic experiment most of his adult years. He has been at Los Alamos since 1943. Fut the reason he sepecially understands the extra need for caution during nuclear tests is a personal one. He once stood a foot from atomic death. In 1946 he was working at Los Alamas with a young physicist, Louis slotin. Something went wrong with slotin's experiment and he absorded 800 reontgens in a split second, dying seven days later. Graves, who was right behind him, absorbed 200 roentgens and survived. Today his left see is cloudy from a radiation estaract.

A stately B. 16 flew on a steady course more than 40,000 feet above the Newnda Wastelands. Miles ahead and 10,000 feet below. Sabre jets flashed back and forth aeross its path, laying down a grillwork of drifting smoke lines. Then the jets surned and sped out of danger. Two minutes later the bomber seleased a bomb triggered to explode six miles in the air. There was an orange white flash, then a fireball about a halfmile in diameter, a shock wave that danced to the ground 45 miles away, and a giant smoke ring in the sky.

smoke ring in the sky.

Before giving the word that sets off the explosion Dr. Graves must be satisfied that all Atomic Energy commission safety requirements have been met. For example, the AEC has ruled that nearby towns such as Las Vegas. Tonopah, Indian Springs Caliente and Paradise Valley shall not re-

Caliente and Paradise Valley shall not receive more than 3.9 roetgens\* from radioactive fallout within any twelvemonth, a figure far below a commonly accepted danger point of 25.

Twentyfour hours before a test is scheduled, he meets with 100 members of the staff in a windowless, rectangular room.

A weather report on half the globe is read, then the weatherman narrows down to the continental U. S., finally gives a mile by-mile analysis of the weather expected over Yucca Flat at test time. Each forecast of precipitation, the wind up to 50,000 feet, and temperature is illustrated on charts and defended under a scientific inquisition. Its object to assess the danger from radioactive feet.

fallout. After the weather discussion, Graves questions scientists in charge of each phase of the prospective test "Are your experiments in order?" Are you satusfied your setups are O. K.?" Each node his answer and Graves makes his first decision: the test is scheduled for the next day.

While 30 to 35 meteorologists check and recheck the wind to see if there is any hint of a change, half a hundred safety officers in cars and helicopters search the was teland to shepher dilocks of sheep or lonely prospe-

ctors out of the danger area.

At 9,80 that night, 50 men meet with Graves for 45 minutes. More detailed weather reports are presented. The product of a battery of electronic calculating machines. which have been fed a vast assortment of statistics on weather, explosive force and other factors, are produced for digestion and decision. Each key man in the room gives his opinion. Then Graves turns to eight top level scientists in the first row-among them ballastic experts, meteorologists and health phycists, 'They usually mumble that they believe we should go," says Graves. Then I scratch my head, think a couple of minutes and turn to Jim Reeves, the test manager, and say something like 'Let's go."

Now the tension begins to grow. Graves can change his mind up to one second before the explosion deadline, but he has already given the word that sends between 30 and 160 aircraft up for blast observation and

cloud sampling.

This is the time to expect the unexpected. Desert jack rabbits like to feed on insulation. Once a kangaroo rat was found nesting in an essential instrument at the last minute. An atomic engineer tried to lure him out with cheese, but kangaroo rats don't eat cheese. Hundreds of nervous technicians waited until one found out how to catch a rat. In the lonely hours between midnight and 3 a.m., Graves is still checking, between catnaps and gin rummy games. To help predict the blast effects of each atomic explosion, World War II Navy depth charges containing 2,400 lbs. of TNT are exploded two hours and one hour befor zerohour In the morning, when Graves gives the order, eight scien-

# War-Thieves gold Mine

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The petty and grand larceny which the CID had to deal with were had enough. But owner furstrating was official mishandling of supplies, which gave thieves golden opportunities. I recall one instance when the 12th Air Force was awaiting a secret, high-priority shipment of packets to be worn by fliers and used in case they were forced down. Each contained maps, a compass and 75 dollars, the latter to be used to charm one's way out of difficulty with the natives. These packets were on the way, but the exact date of arrival was not known.

One afternoon Arab doek hands were unloading a ship at Algiers. Deep its hold were 50 large, unmarked bales. The Arabs trundled them to the ware house.

Later MPs found compasses, maps and leather packets strewn about. It was obvious what had happened. In the progress of unloding, a bale had been dropped to the ware house floor, spilling part of the contenes. A curious Arab had opened one of the leather packets, found the money and called in his friends. Fortunately only two bales had been ransacked with a loss of dollars 75 000 in cash But the entire consignment, worth five million dollars, had been jeopardized by someone's negligence in failing to mark the bales properly and to notify the air force of their exact date of arrival. Such incidents were by no means rare-

Far too many black marketeers were Americans. It was common for a G I driver to take a truck from the port of Oran to a rendezvous and sell its load sight unseen for 10,000 frame. The system of checking supplies out of the port was so faulty that this racket could go undetected for months.

A crate of costly, desperately needed surgical instruments disappeared. The lives of wounded men in a Army hospital dopended on those instruments. But the driver, a young Idaho GI who didt know or care what his load was, sold it for 10,000 france with the casualness of someone trading a few bushels of potatoes. As a result of the CID's disclosure of such cases, a rigid system of checking was instituted by which shipments could be directly traced to individual drivers. Many of the soldiers caught were former convicts, granted paroles by state and federal boards on the plea that they wished to enlist.

We cut losses from theft sharply in Algiers merely by replacing the Arab dock laborers with Italian prisoners of war. Powerty and environment has established a kind of larcenous tradition among the Arab dock workers. But the Italians, suffering from mass guilt feelings were cager to assist in the Allied war effort. They worked well and honestly, and our losses at the port began dwindling away. Hordes of military police were released for duty elsewhere. This switch was eventually adopted at other ports and military installations.

It was a young Egyptian informer who led us into the most sensational robbery case of all. He told us to investigate a certain quartermaster company in Algiers that was drawing supplies from the port to be distributed to fighting units.

Two CID agents went out to the company area and stalked with the commanding officer, a youthful major. His company records seemed quite in order: requests for supplied had been properly signed, deliveries were regular and without incident. Over a period of several months large quantities of clothing, food, arms, ammunition and vehicles, including trucks, staff cars and jeeps, had been handed over by supply— (cond.i on page 13)

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Take care of your health and your health will take care of you. The skeptic who sneers at medicine, gains nothing (except worries) and usually dies early-

# HEARD THIS ONE

House wife: 'Is your husband the type who plays golf and tries to break 80 on the golf

Neighbour: No. Mine is a hypochondriac who tries to break 104 on the thermometer.

When you plan to dine out these days, take a long just half your appetite-but double wour cash.

How long was your last cook with you?"

She never was with us. She was against us from the start. \*

Then there was the collage graduate who ran up to his smiling mother after the commencement exercises and blurted: Look, ma, Iam an aluminium.

There goes an author who makes crime

But I happen to know that he doesnt writ detective stories.

No-he murders the English language.

## WAR-THIEVES GOLD MINE (Continued)

Officials at the port. The company roster

listed a normal complement of men. Everything was as it should be except that the four rows of huts on the company grounds were strangely deserted. Each bed was made up, equipment was neatly arranged on the shelves, quarters were clean. But there were no GIs in sight. The agents inquired about this and the major told them that a higher schelon had ordered the company into the field for special maneuvers. It was curious that a quartermaster company should have to leave their regular duties to take such training and the major himself said as much, but that was Army for you.

When the agents reported these facts, we consulted the records of the port authorities and made a few calls to units which had supposedly received supplies from the quartermaster company. To our astonishment, no one had ever heard of the company no one had received so much as a handkerchief from it.

I got ten men together and went to call on the young major. He smiled affably when we showed him our CID credentials. We told him about the calls we had made and then asked if she had anything to say. The polite mask dropped from his futures and he shrugged his shoulders wearily. His account of his exploits was extraordinary.

The quartermastar company actually totaled six men, all deserters. The highest-ranking, man among them was a sergeant, the pseudomajor himself. They all had assumed new ranks and aliases, and had created on paper an entire quarter master company, complete to minutest detail. They had drawn supplies from various depot and sold them on the black market. Altogether they had made more than a million franks and for months had led luxurious and exciting lives.

So successful was their pose that on one occasion they were invited to review a battalion of French colonial troops.

#### ATOM BOMB TEST (Continued)

tists ride an elevator up the tower to the device cabin to arm the explosive device. They Teport each move by telephone to Graves in the command post. A checklist of from three to eight pages long his read aloud in the 20 minutes it takes to get the device ready-and the eight men can ride down the elevator to safety. Sirens echo over the desert, and, all slone. Graves makes the last decision. He gives the word to push the button. Machines take over. A cam closes a switch and power is fed to cameras test instruments and power plants. and green lights on the control pane action from sequence to sequence.

Nothing is left to human error. Even the voice that intones the final count over the loudspeakers on Yucca Flat has been recorded on a tape that cannot blow its lines from human emotion. Electric current travels a full 15 minutes through a maze of relays, switches. condensers, coils, filaments and generators. There are safety checks along the way, fuses and other devices that can take back Dr. Graves' decision up to half a second before the zero second, but if all goes well, the current at last rams into the device, and a mushroom cloud stands miles high over the concrete bunker where Dr. Graves gave the word.

#### HOW TO CHOOSE A WIFE

As the first signs of spring began to appear across the countryside a U.S. farm magazine turned young farmers thoughts to the problems of taking a wife. In its spring issue warned the young farmer to be careful to select the proper strain. Its recommendation, with some adjustments were thought-provoming for city consists to.

When a farmer buys a cow, he looks at her long and carefully, goes over her point by point, and weighs his pocket-book against her virtues and her faults. He should be no less calculating when he takes a wife.

Romance is only a minor consideration in selecting a farm wife. After he has married her, love will likely come along, in the field while she is pitching hayup to him, or in the barn when she wacks Daisy the cow for stepping on her feet.

The farmer often uses very slipshod methods in selecting a wife, The eligible bachelor farmer falls victim of a moonlight night, or a dulcet voice or a sniff of My Sin, never giving a thought as to whether or not the creature in his arms can strip a cow dry or hoist the back-end of a wagon.

A young farmer who must make his way should select a type I wife. She should be

Dog's Lung used for Heart Operation

Minneapolis surgeons had been getting good results with their 'cross-reirculation technique for delicate urgary inside the heart-using another human beings heart and lungs to take the load off the patients while they operated But it was a tricky business, and they would have liked to cut out the danger to a second human being. Why not a mechanical heart and lungs, which several research teams have tried? For one thing the Minneapolis doctors reasoned strange things can happen to human blood in a mechanical oxygenating system; it may undergo mysterious changes. Last week they thought they had an answer to the complex problem, in the lung of a dog.

Calvin Richmond, 13, had been badly crushed when he fell under a truck near Pine Bluff. Arn: In themembranes separating the chambers of his heart were three holes which allowed the blood to flow inefficiently back and forth. The university of Minnesots's team of heart repairman, headed by Dr. Clarence Walton Lillehei, needed a 'ary field. (the heart drained of blood) if they were to operate succes fully. A Toronto-born colleague, Dr. Gilbert Campbell, 31 offered them the dog's lung to attain this. (He had already used lungs in 100 experimental operations with animals.)

An hour before Calvin was to be ready, sur

sound of wind and limb, should not have more than a high-school education and should not be disturbed by muddy boots in her kitchen, nor the continious parads of newborn pigs and lambs in bnahel baskets by the kitchen stove. She should be farm reared... It takes a woman a long time to learn how to get her weight properly under a bale of hay.

Since a Type I wife is a rare flower, as likely atternative is Type II... a much commoner species. Protty, educated and even sensitive, she adds to rather than fits into the farm seene, is more suitable for the farmer who inherited his land from grandpa than for the poor but ambitious tiller of the soil. For her, intelligence and education are not necessarily handicaps; she "should be able to carry on a couversation with either the hired hand or a banker whose 'tote' due. She should look well in blue jeans. It's not good if she runs to him.

Unable to find a rare Type I, how can the young farmer at least run a test on Type II?

"Take your candidate to the fields and the barns. Escort her across a mudiy feed lot, lead her through poison ivy and, poison and all, take her to a dance. She'll complain...but if she comes hack for more, she's your pigeon.

geons anesthetized a big dog (what breed, if any, is a secret) and removed an entire lung. The animal was then painlessly put do death with more anesthetic. The doctors put the lung ina plastic cylinder, where it was hooked up to plastic hoses and to a mechanical pump.

When Calvin's chest was opened, Drs. Lillebei and Richard Varco clamped off the great voins carrying the blood toward the heart, inserted a tube, and led the blood out to the input tube of the dog's hung. Inside its cylinder the lung was kept supplied with fresh oxygen. As the boy's blood coursed through the lung tissue, it gave up carbon dioxide and picked up fresh oxygen. Then it fell to the bottom of the cylinder. From the pool that formed there, another tube led the blood to a pump which boosted it back to Patient Richmond's aorta—the great artery in chest,

Calvin Richmond was hooked up with the dead dog's lung for 20 minutes. The surgeons spent 15 of these performing delicate repair work Inside the heart, which would have been impossible if they had been operating in a surging pool of blood. This week Calvin was sitting up and ling stronger.

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