

AMERICAN DOCTOR TO SAVE GERMANS

James J. Hogan Goes to Europe to Use His Gelatin Solution on Wounded Soldiers--Increases Blood Pressure--Effect Continues Long Enough to Give Patient a Better Chance of Rallying From an Operation.

Dr. James J. Hogan, M. R. C. S., of San Francisco, who has devoted years to the work of perfecting a gelatin solution which may be injected into the veins of persons suffering from shocks and loss of blood, and thus make possible operations which otherwise would have little or no chance of a successful outcome, has gone to Europe to aid in saving the lives of soldiers wounded in battle. He sailed on Saturday on the Bergensfjord for Bergen, Norway, and will proceed probably to Germany. He took with him several trunks full of material and formulae.

Once his work is started, Dr. Hogan is confident of saving many lives, as he feels that there are thousands of cases daily in the war zone in which his discovery can be put into use. He was going to Europe, he said, because he felt that he would find there the opportunity to do more good for humanity than on this side of the Atlantic. His experiments and the results obtained are pretty well known in this country and, according to Dr. Hogan, his solution has been used in many cases with great success.

Dr. Hogan talked freely about his experiments and his plans just before he sailed, and much detailed information about his discovery and the work he has done here is given in an article he wrote, under the heading "The Intravenous Use of Colloidal (Gelatin) Solutions in Shock," for the Journal of the American Medical Association of Feb. 27.

Solution Not Quickly Absorbed
The great merit of Dr. Hogan's discovery according to his article, is that it remains in the veins of the person weakened by loss of blood and does not, like the various salt solutions, lose its effect soon after injection by being absorbed by the tissues or by passing off in other ways. In part, Dr. Hogan wrote:

Periodically in medical and surgical practice we are brought face to face with a series of signs and symptoms that are in essence the expression of an abnormally low blood pressure, and which, when sufficiently marked, serve to kill a patient.

Not alone is the list of pathologic states in which a low blood pressure is observed very long, but the explanations given by different authors, as to why the low blood pressure exists in any given state are very different. From a therapeutic point of view, however, this ground is held in common by all authors: They are agreed that a saving of life is intimately associated with or rendered possible only by our success in raising the blood pressure and keeping it up until such time as the patient himself succeeds in overcoming the conditions which are responsible for the low blood pressure.

Simple as it would seem to attain this end, its accomplishment practically is still a matter of debate. The problem involved is perhaps best presented if we consider the effects of simple hemorrhage. If by accident or otherwise one of the large vessels in a man or a laboratory animal is opened, we observe following each other in rapid succession and in the course of a very few minutes all those alarming signs which reach their climax in death.

Problems to be Solved
When now we try to say why this occurs it is quickly brought home to us that the most serious mischief done by the hemorrhage does not reside in a great loss of red blood corpuscles or in the loss of certain of the chemical constituents found in the blood, hemoglobin or certain salts, but in a diminution in the volume of the circulating blood.

Dr. Hogan then gives in detail the effects of the injection of several of the salt solutions which increase the

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blood pressure temporarily, but even when continued are absorbed by the tissues or pass off. The problem, he pointed out, was to find a solution which would remain in the veins. It became evident he said, that only a proper colloidal solution could be injected intravenously with the hope that it would remain in the blood vessels and so maintain any rise in blood pressure gained by such means over any considerable period of time.

Continuing he wrote:
After what has been said it must be self-evident that the best transfusion fluid is whole blood. But the obvious difficulties and dangers attendant on the carrying out of a man-to-man blood transfusion limits its usefulness. The liquid of next choice for perfusion is that which most nearly approaches blood, namely, blood serum. Human blood serum, however, is difficult to obtain.

How to Prepare Solution
Under the heading, "Preparation of Gelatin Solution for Intravenous Use," Dr. Hogan wrote:

Twenty-five gm. of the purest gelatin, 1.5 gm. of sodium chloride, and 100 c. c. of distilled water are placed in a flask and boiled for fifteen minutes. The resulting solution is filtered through heavy paper in a hot funnel and then autoclaved for an hour at 124 C. (255.2 F.). It is then chilled in an ice box. The gelatin has the proper colloidal qualifications if under these circumstances it solidifies. In this form the gelatine is kept until needed. In order to prepare the transfusion mixture the flask of gelatine is warmed until it melts when it is added to 1,000 c. c. 0.9 per cent. sodium chloride, to which have been added 2 gm. of sodium carbonate crystals, all warmed to body temperature. The instructions as here given must be carefully followed, otherwise

trouble will be encountered from the fact that, as ordinarily done, the heating necessary to sterilize properly the gelatin decomposes it and so destroys the very properties for which it is used. When heated in the presence of a sufficient concentration of salt this decomposition is practically avoided.

Dr. Hogan gives a number of cases in which the solution has been used with success.

WAR COST IN SOUTH AFRICA

Acquisition of Large Territory Cost British Empire Sum of \$67,000,000

Cape Town.—(Correspondence of the Associated Press.)—The cost to Great Britain of the war in South-west Africa, which resulted in the loss of that country to Germany, is estimated in official circles at \$67,000,000. The suppression of the rebellion at home was responsible for the expenditure of an additional \$20,000,000.

The close of the war in South-west Africa has led to a discussion as to the future of the conquered German colony. When General Botha was invited by the British Imperial government to undertake a campaign into South-west Africa last August, it was stipulated that any occupied territory should be held unreservedly at the disposal of the British government. The belief here is that the Imperial government will under no circumstances allow any of this territory to go back into German hands at the conclusion of peace, nor is it likely that Britain will care to add to its direct responsibility by creating it as a separate crown colony. It is generally regarded as inevitable therefore that the greater part of South-west Africa will ultimately be included as an additional province of the Union of South Africa, with the exception of the Caprivi strip, which may be added to the Chartered Company's territories in Central Africa.

Provisional Government.
For the immediate future, temporary arrangements will be made for the administration of the new territory during the remainder of the war under a governor appointed from Cape Town, with the approval of the London government.

Plans are already being discussed for the further development of certain parts of the conquered colony. The construction of a railway from Livingstone to the west coast, which would open up the rich cattle country of Northern Rhodesia by a shorter route to the sea, will apparently be the first big engineering work to be undertaken. Later will come the development of the great mineral wealth of the country, while it is expected that those parts which are suitable for pasture will be occupied by Boer trekkers from the Transvaal and Orange Free State.

APPEAL IS MADE TO ALL MINISTERS OF THE DOMINION

Toronto Ministerial Association Issues Stirring Call

Toronto, July 28.—The Toronto Ministerial association has given the Canadian press a recruiting appeal, signed by Rev. Byron H. Stauffer, of the Bond street Congregational church, Rev. W. W. Hincks, of the Broadway Methodist Tabernacle; Rev. Daniel Strachan, of the Rosedale Presbyterian church, and R. v. Andrew Robertson, of St. James Presbyterian church, representing the association. It is addressed to all church ministers of the Dominion and calls upon them to point out to their people the solemnity of the task confronting them.

"Therefore will not we fear though the earth be removed; the God of hosts is with us, and God of Jacob is our refuge." The very hour which we sought to avert is upon us. Our empire is engaged in the greatest struggle of the ages. The most sacred possessions that have been won only by travail and pain of the centuries are at stake. The priceless gift of liberty, with all that it means to a free citizen, is in the balance. These are threatened by armed invaders who are possessed of the very spirit of Satan.

The foe has thrown off every pretence of fairness and is using all his scientific skill to perpetrate the cruellest and most horrible atrocities, not only on our soldiers, but on the weakest and most defenseless citizens. As a nation we must see the thing through to victory. Whatever the cost, whatever the strain, whatever the sacrifice, the way must be travelled. To that end everyone must do his part. Our prayer is that we, as the Lord's prophets, may not be found wanting in the hour of national peril.

"We are told that the people are looking to us to-day for leadership. The truest leadership is that which can so impress the people with the solemn significance of the task that every soul will feel it the highest privilege to have some part and every eligible man will seek to bear the arms of his nation and the colors of his King. We believe it is the solemn duty of every Christian pulpit in Canada to create an atmosphere in which recruiting will be easy."

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