WORLD TO BENEFIT BY WAR MEDICINE

New Methods and Discoveries Will Save Lives Henceforth---Some Marvels of Up-to-date Surgery

This is a statement made by Major George A. Stewart of the War Demonstration Hospital of the Rockefeller Institute for / Medical Research, who believes that out of the agony and will come benefits to humanity that will compensate to a large extent for the lives that were lost and the blood that was shed. Medicine and surgery have taken glant strides during the more than four years of war, and the pressing necessity born through the world's travail has, in the estimation of Major Stewart, developed medical science to such an extent that mankind will be a gainer rather than a loser in the years to come.

in this war have advanced our science technique of 'chlorination'-or the use of some combination of chlorine for the good excuse for persistence of pus.

to surgeons the world over.

" Out of forty-five patients in the War Demonstration Hospital suffering from empyema we returned thirty-five to the front. Empyema is pus in the chest cavity. It often follows pneumonia, and hitherto has been highly fatal. There has been an unusual amount of empyema in New York this year of a very serious type. But the death rate has been lessened by the modern treatment.

"Other wonderful advances have been made, for example, in X-ray work, in knowledge of the gas bacillus which causes a form of gangrene, in the scrum treatment for prevention or cure of such diseases as typhoid fever, lockjaw, pneumonia, meningitis, &c. These lessons will save far more lives in the long rur than the war has cost."

Nor is Major Stewart the only man of repute to hold such views. Josephus Daniels, Secretary of the Navy, also be lieves that innumerable blessings wil arise from the lessons that have been taught by stern necessity in time of storm and stress.

"One of the compensations for the tragedy of the war," he said recently " is the fact that an enlightened opinion is behind the organized campaign to protect the youth against contagious dis-

"The campaign begun in war to insure the military fitness of men for fighting is quite as necessary to save men for civil efficiency."

Sir Almroth Wright, in The London Lancet, the most famous medical journal in the world, says that "the Carrel-

HE war has taught us how to Dakin method (of treating infected save more lives than the war wounds) is far the most important contribution to surgical technique since the beginning of the war."

But this is only one of countless other epoch-making methods that have arisen triumphant over the blood and brutality of the boche. There is the famous ambrine treatment for burns that was so successfully administered in the Amsuffering of the recent great struggle brine Hospital for the French wounded at Compiègne by Miss Elsie de Wolfe and other nurses-a treatment that proved a godsend for agonized poilus suffering from flammenwerfer wounds. Nor should one forget the marvelous anaesthetic discovered by Gordon Edwards, a young American humanitarian, which could be sprayed upon gaping raw wounds and burns, relieving the exquisite agony of the patient and enabling physicians to apply and remove bandages without the wounded man feeling the slightest pain.

Before this war the doctors didn't know much about the habits and habi-"The countless improvements of prac- tats of that pest, the louse, which has tice, both in medicine and surgery, made probably been with us since the first creature another name, and it wasn't half a century in four years," says Ma- long before all the world was talking of jor Stewart. In surgery, the values and the "cootie," which became the familiar of the soldier in the trench and helped make war even more like Sherman said it was. The "cootie," at first taken destruction of malignant germs which somewhat as a joke, became a serious gave rise to pus-have been learned as menace, for physicians discovered that never before. There is no longer any he was the greatest little disease carrier on earth, compared with which the "The development of the 'Carrel- New Jersey mosquito was as nothing. It Dakin' method of treating all manner is now generally admitted that the of infected wounds by periodic irriga- "cootie" transmitted more disease durtion with Dakin fluid (a non-caustic hy- ing the war than any other single pochlorite) marked an extraordinary ad- agency. But now the doctors know all vance. And in this the method is as im- that is to be known about this pest, and portant as the fluid. It is being taught have learned to muzzle the "cootie," so to speak.

> Disease in time of war has always caused more deaths than shot and shell. This was the case during the brief Spanish-American war, and history has repeated itself during the war that has just ended. In this connection it is interesting to record the established fact that the total death roll of the United States forces in the war was just about one-half of the toll that was exacted of us by the recent epidemic of Spanish influenza. Nor should it be overlooked that, in times of peace, the deaths annually from industrial accidents in this country are estimated to be approximately 30,000. In many accidents where the patient is not killed, he or she emerges from the hospital a hopeless cripple. But the new surgery, the surgery developed during the war, will not only save many of these industrial victims, but will help to restore to usefulness the lame and the halt and the blind.

In a hospital in Milan, Italy, they have been experimenting successfully with a new apparatus which insures immobility of the mouth and jaws, and thus makes it possible for the physician to rebuild, reshape and even to accually

no movement of the mouth can distract capacity of New York. human face.

in Milan, where war remnants are made mately 180,000 are sick. Just stop to gate to \$391,341. As a result, some of the world. over into presentable human beings, is a factory where artificial palates, jaw bones and other parts are manufactured. Some of the products that come from this factory are said to be such astounding substitutes for nature's own handiwork that it is often difficult to tell where nature left off and modern science began.

Equally amazing strides have been made in the manufacture of artificial limbs, which are so cunningly substituted by the attending surgeons that the victim of war has all the appearance of being a whole man. In other words, the war has made it necessary for the surgeon to understand the human anatomy as the skilled mechanician understands a machine that he has helped to build from the ground up. And so familiar have the doctors become with every conceivable sort of disfigurement and mutilation. that a gruesome new art has grown up-an art that smacks of miracles and magic, but is based on common sense, observation of detail, and a supernormal skill.

The modern hospitals in New York and other cities will bring these benefits to the public. The wizardry of war has made men perform the seemingly unperformable, and wounded doughboys who have fought for world freedom will have every advantage that modern surgery can suggest in the treatment of their wounds by American surgeons, than whom there are no better.

But the war has affected the hospital service in New York very seriously on account of the great need for surgeons on the other side. The recent influenza epidemic proved that. It is a matter of

marvelous jaw-lock consists of two light it, and the United Hospital Fund is now tors' bills.

the interstices of the teeth. By means the United States and to New York and by the United Hospitals of New York, of this contrivance the wonder worker the result would show that, out of this as large numbers of the profession went in surgery can practically make over a country's population of 100,000,000, at to the front. Thirty-six out of the fortyleast 3,000,000 are sick, and out of New six United Hospitals closed the year

suffering from mouth wounds. This needs hospital care in New York gets wages alone, to say nothing of the doc- their free service.

restore, lost functions to men who were record that only one person in ten who think what that means in the loss of them have been compelled to reduce

This United Hospital Fund is the metal arcs, one of which is placed on trying hard to put New York hospitals The United Hospital Fund, which is war chest icea in hospital giving, for the outside of the lower range of teeth in a position to do more work for more starting a campaign for more money to it collects funds to pay in part for the and the other on the upper range, the people. As a matter of fact, the hospi- carry on and amplify the hospital work free work done by the forty-six hospitals whole being fastened to the teeth by tals provided by the city provide only in New York, collects and publishes full that are in the fund, and it is the hope metal ligaments in such fashion that 40 per cent of the total hospital bed and uniform statistics of the work and of those interested in this work that at finances of the hospitals, and this fund least \$1,000,000 will be raised during the the physician at work. And while It has been estimated that under nor- provides a way for every citizen of coming year for the fund. That hope the work goes on, the patient is fed by mal conditions about 3 per cent. of the means to perform a real public service, should be justified when one stops to means of liquid food inserted between people are sick. Apply these figures to The strain of war has been keenly felt think that New York is far behind Lonnumber of hospital beds in proportion to population. For contagious diseases. London, in 1913, had three beds to New And this shouldn't be so, for, in hospital facilities as well as in Connected with this amazing hospital York's population of 6,000,000 approxi- with deficits, amounting in the aggre- other facilities, New York should lead