

so-called pernicious form. The patient could not swallow, injections of camphor had no effect on him, and as a last resort, apparently a hopeless one, transfusion was practised. The blood was taken from the patient's wife, defibrinated, and injected into the median vein to the amount of about 85 c.cm. Anæsthesia was not necessary. The patient's pulse and breathing improved slightly after the transfusion, but injections of ether and camphor were necessary throughout the following night. On the second day after that, strength gradually returned and the patient became convalescent. On the third day the blood showed 1,250,000 red corpuscles and 29 per cent. of hæmoglobin. There were few polynuclear leucocytes, no nucleated red corpuscles, very few eosinophile-cells. There were hemorrhages in the retina. The blood after two weeks showed 2,300,000 red corpuscles and 33 per cent. of hæmoglobin. Five months later the hæmoglobin was the same, the red blood-corpuscles 3,500,000 to the c.cm.

After discussing the clinical and pathological features of the case—which he does at some length—Ewald inclines to the opinion of Hunter, that pernicious anæmias are due to auto-intoxication caused by changes in the gastro-intestinal tract. In view of our present knowledge of auto-intoxication and antitoxins, Ewald raises the question whether, in such cases as the one just cited, the injected blood has not some antitoxic action, so that a poison circulating in the body becomes neutralized or destroyed by it, and so gives the body time to gain new strength.

In addition to the transfusion and after it, the patient was treated by arsenic in various forms, quinine, iron, hydrochloric acid, and a combination of resorcin, bismuth-salicylate, and benzonaphthol. Meat was but sparingly used in the diet.

### THE HYPODERMIC USE OF GUAIACOL IN ACUTE PULMONARY TUBERCULOSIS.

COGHILL (*British Medical Journal*, March 7, 1896, *Medicine*) has obtained encouraging results in acute pulmonary tuberculosis by the subcutaneous administration of guaiacol. In many of the cases in which the treatment was carried out, the injections were persevered in for some time before any impression was produced on the temperature. The fall of temperature was always comparatively gradual. The subsidence of the fever was invariably marked by increased appetite and weight, and diminished cough and expectoration. A moderate warm perspiration following the injection, a variable interval takes the place of the regular hectic night-sweats. In beginning the treatment, the minimum dose is given before the diurnal rise of temperature has passed above normal, and if the temperature is not reduced in a few days the dose is increased drop by drop to five or even seven minims, which rarely required to be exceeded. When the reactive sweating is excessive, two small injections are given daily. The buttock is the most favorable