

Miscellaneous.

Liebig says: "The vivifying agency of the blood must ever be considered to be the most important condition in the restoration of a disturbed equilibrium. The blood, therefore, must be constantly considered and kept in view as the ultimate and most powerful cause of a lasting vital resistance, as well in the diseased as in the normal portions of the body."

Purity of the blood is thus recognized by Liebig as a vital necessity, if it is to be able to vivify the body. Purity of the blood depends upon the due performance of those functions that furnish it with the proper material to replace those portions exhausted by use. Said material is supplied by the food taken, properly *assimilated* or digested.

Vegetables, including bread, enter most largely into the average diet of the human, and as this class of food contains a large amount of starch, it is of first importance that *all* this starch is converted from an insoluble, innutritious body to a soluble and nutritious one. As you well know, this is intended by nature to be accomplished by a

peculiar ferment, *Ptyalin*, contained in the saliva, which has intense activity and if in a healthy state changes starch into sugar or maltose, which is always the result of starch hydrolyzed by either the ferment of the saliva or the pancreas. These sugar products are easily absorbed, and have besides important physiological significance. Schiff states that when the albumen of egg, or other insoluble food, was given to fasting animals, no digestion took place, as no pepsine was secreted; but if certain soluble foods were given at the same time, pepsine was produced and digestion took place.

Ptyalin, or Diastase, is readily absorbed and diffused, and there are strong reasons for believing that it goes with the starchy food through the alimentary tract, to complete its action and expend its force, as is shown in the *fæces* after taking *Morse's* Diastase.

Mr. Hazen Morse, of International Bridge, Ontario, desires to hear from the profession regarding his preparations of malt, viz.: Diastase plain, Diastase with Essence of Pepsine, and Diastase Ferrated. These preparations are made from the

[OVER.]

ROTHERHAM HOUSE

Dr. Holford
Walker

Announces to the Profession, that having taken Dr. WILLIAM NUTTALL into partnership, it is their intention to enlarge the Hospital, to permit the admission of men. A separate building will be devoted to that branch of the work.



APART from the special work of Nervous and Surgical Diseases of Women, general non-contagious diseases of men and women will now be admitted. The application of the various forms of electricity is resorted to in all suitable cases.

Medical Men can obtain Nurses and Masseuses for outside work on application. * For Terms, or other information desired, address

DR. HOLFORD WALKER, Isabella St., TORONTO.