

What the Farm Has Contributed to Medicine.

In the year 1765, Edward Jenner, an English surgeon, observed that those who milked cows suffering from cowpox (kine-pox) did not really contract smallpox. By a series of experiments on the lower animals for a period of thirty years, Mr. Jenner became convinced that the poisons of kine-pox and smallpox were of the same general nature. In 1796 Jenner performed his first vaccination on the human subject. This was rapidly followed by numerous other applications of the virus, and in 1800 vaccination was introduced into France, Germany and the United States. Of course, as is the case with all investigators, Jenner met with a great deal of opposition, and there are yet a great many people who do not admit that vaccination is beneficial. One hundred years of success, however, has so changed conditions that once where smallpox slayed its thousands many people now, from the rarity of the disease, never see a case. The farm cow furnished the cue, and today is still the means of propagating the virus.

Another very important addition to the armamentarium of the physician is the use of blood serum to combat disease. The most generally employed of these serums is "antitoxin," or anti-diphtheria serum. The germs of diphtheria do not of themselves poison the system, but these germs produce a poison known as toxin. The same is true, also, of other germ diseases. These toxins, or poisons, are the cause of illness and often of death. Nature provides the system with an antidote, or "anti-toxin," to counteract the effect of the disease toxins. In a great many cases nature is unable to cope with the disease. It is in such cases that the artificial anti-toxins come to the rescue.

The method of obtaining diphtheria anti-toxin is about as follows: After injecting into the blood of the horse the diphtheria toxin, the horse's economy immediately sets about to manufacture anti-toxin in sufficient amount to neutralize the toxin injected. By repeating these injections the horse becomes proof against the toxin and is then called immune.

The serum of the horse's blood, which is then loaded with anti-toxin, is withdrawn, preserved by various methods, and when injected into the system of a diphtheria patient is often of great benefit in combating diphtheria. The serum is also used as a preventive. This time the horse is the means of aiding the medical profession.

Singing School.

Rev. H. Pontius, of Opal Flat, will meet the people of Madras and vicinity next Saturday night at the Madras school house with a view to organizing a singing school. All are cordially invited to be present.

HAY CREEK ITEMS.

The farmers are all busy putting in their fall crops.

Mrs. White returned home last week from a business trip to Portland.

Miss Jessie Andrews is teaching a very successful school with a good attendance.

Ed Baldner is erecting a very neat cabin on his homestead south of Ed Kuteher's.

Charles Parrish and Ralph Allen have returned from Shaniko with loads of hardware for McTaggart & By, of Madras.

Leo Curtis is breaking about thirty acres of land on Ed Baldner's homestead.

Mrs. John McTaggart and little daughter, Ruth, who have been visiting at R. Parrish's, left for their new home at Madras last week.

Mr. and Mrs. Rbincamer have moved into the Haycreek hotel, where they now have charge.

DOINGS AT LAMONTA.

Walter Helfrich, who was married a few weeks ago to Miss Viola Cox, is building a new barn, fencing more land and is preparing to make himself felt in the upbuilding of Lamonta and vicinity.

George Hendricks has bought a new chopper, which he expects to run this winter on a custom basis. George does good work and is able to do lots of it.

Lorenzo Thomas, who has been hauling wheat for J. H. Horney, is now building an addition to his barn on his homestead and is also preparing to put in a large crop for the 1905 harvesting.

William Sand and wife bought a new two-seated carriage the other day and gave it a trial by driving down to Madras and back. They were agreeably surprised at the progress that city is making.

Oscar Cox is busy sowing his fall grain. He is stubbling in some wheat and thinks he would rather risk that than spring grain.

Lon Patterson is making some improvements on his place, and the neighbors are wondering if Lon isn't getting ready for a cook. The cook, whoever she is, might do worse, for Lon is a splendid worker and a good fellow.

Several orchards were planted here last spring and they have made a splendid growth. If the trees are cared for this winter and all the time thereafter we shall soon have plenty of fruit to sell.

Telephone to Forest.

H. E. Ellis, of the Deschutes Telephone Company, returned Sunday from his trip to Prineville and Forest in the interest of a telephone line between these points. He made arrangements for the construction of the line and the poles are already delivered along the route of 13 1/2 miles. Upon completion of the auto road the telephone will be closed between Forest and Bend, thus giving two lines between Bend and Prineville.—Bend Bulletin.

WARM SPRING NOTES.

On Wednesday evening the school gave a Thanksgiving entertainment consisting of songs and recitations which were creditably rendered.

On Thanksgiving the children were treated to a turkey dinner. As usual on such occasions the employees acted as waiters, thus allowing all the children to sit down and enjoy the good things that were provided. After the children had been served about eighty old Indians, who had gathered in anticipation, were invited in and given their dinner. Not content with getting a square meal, many of the "kioochmen" brought along a sack, into which they surreptitiously passed all that they could lay their hands on.

Miss Dunn, of Simnasho, has been the guest of Miss Montgomery during the Thanksgiving festivities.

John H. Stranch, of Toledo, Ohio, arrived recently to take the position of electrician, which has been temporarily filled by Peter Kalwina.

FOR SALE—One white walnut Bookcase desk and dresser combined, \$10; one feather bed, live geese feathers, price per pound, half market rate; 12 barred Plymouth Rock chickens, 50c each. W. W. Gordon, Warm Springs, Ore.

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Notice to Creditors.

Notice is hereby given that the undersigned has been, by the County Court of the State of Oregon for Crook county, duly appointed administrator of the estate of John Hastings, deceased, and all persons having claims against said estate are hereby requested to present the same, duly verified, to said Administrator at the office of M. E. Brink, in Prineville, Ore., within six months from the date of the first publication of this notice.

Date of first publication of this notice Nov. 17, 1904. ED KUTCHER, Administrator of the Estate of John Hastings, deceased.

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