

PUBLIC HEALTH

Present Sleeping Sickness Differs From Early Outbreaks

Rages in Summer Instead of Cool Weather, Attacks Older Persons Rather Than Young And Displays New Symptoms

THE ST. LOUIS sleeping sickness outbreak differs in several respects from those of past years. It came in high summer, whereas previous outbreaks occurred in winter or early spring. It is attacking middle-aged and old persons for the most part; in earlier epidemics the young have been the chief victims. Furthermore, the symptoms by which a physician may recognize the disease show some differences from those of previously recorded cases.

These points are brought out in detail in a statement which has been sent to all state, city and local health officers in the country by the U. S. Public Health Service. The statement, which was written by Dr. James P. Leake, who is senior representative of the Public Health Service in the afflicted St. Louis area, is in part as follows:

"From August 7 to 25, inclusive, there were reported in the metropolitan area of St. Louis 213 cases of epidemic encephalitis with 28 deaths, a case fatality of 13 per cent. so far. It is apparent that the incidence for this outbreak will reach at least 30 per one hundred thousand population. Some of the cases date back to the latter part of July for their onset. Cases of apparently the same inception have been reported from other cities in Missouri and neighboring States, but it is to be remembered that so-called epidemic or lethargic encephalitis, and encephalitis not otherwise designated, have a yearly incidence throughout the entire United States similar in magnitude to poliomyelitis as judged from mortality statistics, usually without the marked seasonal and yearly fluctuation of poliomyelitis.

"Cases of lethargic encephalitis occur yearly in St. Louis, the heaviest preceding incidence having been in 1919, 1924, and 1932. Relatively fewer epidemics of this disease have been reported in the United States than in other parts of the world, the disease in the United States being apparently sporadic or endemic. Such outbreaks as have occurred in this country have been, as is

usual elsewhere, in winter or early spring. Preliminary data on age incidence show 19 per cent. of the cases among the 25 per cent. of the population which is under 15 years of age, with 10 per cent. case fatality in this age group. The incidence in this age group is about equally divided between those under and those over 10 years, and all 3 of the deaths in the group were in the former sub-division. Twenty-one per cent. of the cases have been in the age group 15 to 34 years, which comprise 35 per cent. of the total population, and there has been only 3 per cent. case fatality in this age group. Thirty per cent. of the cases have been among the 27 per cent. of the population which is 35 to 54 years old with 20 per cent. case fatality. Another 30 per cent. of the cases have been among those over 55 years old, who comprise only 13 per cent. of the population, and the case fatality in this oldest age group has been 30 per cent. In this respect also, as in seasonal occurrence, this outbreak differs from ordinary epidemic encephalitis, in which the maximum incidence tends to be in youth and the early adult years.

"There have been about 83 male cases to each 100 female, while among the total population concerned there are 96 males to each 100 females. The excess in females has been in the ages over 35 years. (Turn to Page 172)

ETHNOLOGY

Arabs Credit Elijah With Changing Melons to Stones

CHANGING melons to stones as a stroke of poetic justice against surly and stingy farmers is the miracle credited to the prophet Elijah by Palestinian Arabs to account for the round hollow boulders, some of them broken open to show the seed-like crystals lining their interiors, that litter the fields in the neighborhood of Mt. Carmel.

The legend of Elijah's melons has been dug out of the mass of native

folklore by Dr. Ephraim Ha-Reuben of the Hebrew University in Jerusalem. It relates that once when the prophet and his disciples were walking along the highway in the noonday heat, Elijah asked some farmers if they might not have a few of the melons with which their fields are filled.

"Those are not melons, they are stones," replied a surly farmer.

"Let it be as you have said!" responded the prophet.

And the melons have been stones to this day.

Science News Letter, September 9, 1933

BIOLOGY

Life Checks Downhill Course of Energy

LIVING matter distinguishes itself from non-living matter most fundamentally in its ability to check the downhill course of energy, from higher forms to lower, toward a final dead level when there will be no energy differential at all in the universe and hence nothing happening at all. Entropy is what scientists have called this downhill rush of energy. Life arrests entropy, dams up the course of energy and makes use of it for its own ends, while the non-living is passive and helpless before it.

With this essential difference between living and non-living, Sir Frederick Gowland Hopkins, president of the Royal Society, introduced his presi-



ELIJAH'S MELONS

A "melon" is shown in its natural imbedded position at the top of the picture. The size of these peculiar boulders is indicated by comparison with the matchbox in the lower left corner.