Ask Parents to Follow Do's, Don'ts To Help in Prevention of Infection

By KEN W. MacTAGGART

As hot, steamy weather sets the stage for the ideal conditions under which outbreaks of polio usually occur, Canadian medical authorities are urging parents to follow the few known do's and don'ts that can help to prevent infection. These are:

often, especially after visiting

the bathroom;

Compel all persons handling food (and this especially includes mothers) to wash their hands

ticularly the private type in which water is not changed often; age war on flies Avoid small swimming pools, par-

Wage war on flies.

Although polio is the subject of one of the biggest research drives in all medical history, it is still one of the most controversial medical subjects. Though research has almost opened the door which will reveal the secret of successful long-term immunization, top authorities will admit there is much they still do not know about the affliction.

Yet all agree that parents should not become unduly alarmed; that few children are crippled of those who undergo active infection, and that far more have undergone natural immunization by mild, lowgrade attacks and never even knew

So, they urge, do not become too alarmed. Because it is generally agreed that the main method of infection is by transference of bowel discharge, they urge the practices mentioned above. Children should wash their hands often; so should mothers. So should all handlers of food.

If infection breaks out in serious degree, what then? Active immunization—long-term immunization by vaccine — is still under study. Doctors think they are very

close to its perfection.

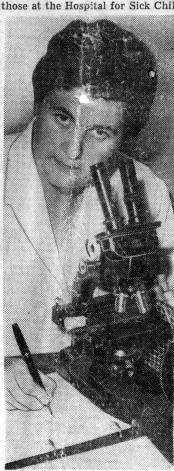
Passive immunization - shortterm prevention-has been tried, with very good results, but it can't be available generally. There is not enough gamma globulin, which is made from blood and requires one pint of blood for one average

Gamma globulin produced in Canada by Connaught Laboratories is wholly controlled by the Federal Department of Health, under the guidance of a committee which includes provincial officials and top polio doctors. In the U.S. all gamma globulin has also been

frozen by U.S. public health au-dren, thorities.

serious outbreaks with a three-youngsters. fold purpose: An effort to confine the outbreak to its local area, an attempt to reduce infection of g.g. is not available, that it is usetion existing at present.

were available months ago before went into effect. U.S. officials seized all g.g. These intimated to some mothers that they had some g.g. Word flew around that g.g. could be obtained.



Dr. Ann Peach,

Edinburgh-trained head of hospital's polio ward, studies under miscroscope condition in tube. Laboratory process can reveal if child has immunity to polio, or can reveal type of three viruses which have attacked victim.

had countless mothers clamoring for assurance that g.g. These stock will be available for would be available for their

children in that area, a test of the less to inject it into children img.g. to add to the fund of informa- mediately because it only lasts on existing at present.

The very development of g.g. wears off, and that little actually Make children wash their hands has caused doctors a headache. In is known of the real value of the Toronto, for instance, a few doctors stocks which some doctors bought bought modest supplies when these from drug firms before the freeze

Instead, doctors now want mothers to know that if a serious outbreak occurs, some will be available probably from the pitifully small stocks Thanks to the Connaught Laboratories, more was produced in Canada than was originally thought possible.

Yet it could be wasted in a day if casually released. It will be made available only on a carefully planned basis for use where it is

drastically required. Further, doctors know a lot more about diagnosis and treatment. At the Hospital for Sick Children, for instance, research projects, wholly apart from the vaccine search pressed for many months in col-laboration with the Connaught Laboratories, are continuing constantly.

There the laboratories have evolved a diagnosis method using monkey tissue. Early diagnosis of doubtful cases is important, so this is a distinct contribution.

In a doubtful case, a spinal puncture to seek polio virus is made. If this proves nothing conclusive, a sample of the child's bowel dis-charge is concentrated by centrifuge and added to a solution containing live and growing tissue. Under carefully controlled conditions this is watched. If tissue is destroyed by polio virus, the child

The same process, by addition of a serum compounded from a child's blood, will reveal if the youngster has antibodies in its blood-in other words, has a polio resistance.

This work, carried on under a federal aided health grant by Dr. George McNaughton, chief of the hospital's infectious diseases division, and Mrs. Darlene Duncan as chief of the laboratory work, is important apart from its immediate service to patients.

It is also classifying the types of polio encountered in Canada. There are three known: Types 1 and 3 have been found so far, with type 1 by far the commoner.