

CASE AND CARRIER

Doctor Explains Typhoid Causes

"Where there's a case, there's a carrier." This statement, made in relation to typhoid fever, was not wholly supported by the physicians who made it, but the fact remains that the occurrence of typhoid fever in this part of the world can almost always be traced to a typhoid carrier.

While carriers are harmless to themselves, under certain conditions they are a real source of danger to others.

Typhoid carriers may be arbitrarily divided into convalescent or temporary carriers, and chronic or permanent carriers.

LINGERING INFECTION
Chronic typhoid carriers are those individuals who

continue to harbor the infective agent of typhoid (*Salmonella typhosa*) beyond a period of one year after contracting the disease. These individuals may continue to discharge the organisms in their bodily excretions for an indefinite time or for the rest of their lives.

The carriers, whether convalescent or chronic, may be broken down into three types, namely intestinal or fecal, urinary, and abscess or fistula. The intestinal carriers are by far the most important and the largest group.

UNKNOWN NUMBER
The actual number of chronic typhoid carriers in the general population is unknown. However, it is esti-

mated that from two to five per cent of all typhoid fever patients become chronic carriers of the typhoid bacilli.

It is well established that the carrier state is more common in persons over 40 years of age, and that it occurs more frequently in women than in men.

NO ILLNESS
It is also possible to be infected with typhoid organisms without becoming ill, and there are quite a few chronic carriers who are unaware that they have ever had the infection.

This is particularly true in the case of elderly people who were sometimes repeatedly exposed to the infection during the years when it was much more prevalent than now. These individuals come to the attention of health officers only when they transmit the disease to others.

TYPHOID MARY
The most famous chronic typhoid carrier of all time was Mary Mallon, a housemaid and cook known in medical annals as "Typhoid

Mary." Some 60 years ago, over 50 cases of typhoid fever in and around New York were traced to Mary's cooking; as a matter of fact, there is evidence that she was indirectly responsible for well over 1000 cases in a water-borne epidemic in Ithaca, New York, in 1903.

Seven cases of typhoid fever were reported within the jurisdiction of the Los Angeles County Health Department in 1960, and chronic carriers were responsible for most of them. To be more specific, three cases were traced to known carriers and one to a possible carrier, while two of the infections were contracted outside of California. The source of infection in the remaining case could not be determined.

KEEP TRACK
In order to keep track of known typhoid carriers, all local and state health departments maintain carrier registries. Some 39 typhoid carriers were listed in the registry of the Los Angeles County Health Department at the

end of 1960. During that year, five new names were added, and seven were deleted. Names are dropped from the list for various reasons including death, removal of residence to another area, or when surgical treatment of the carrier is successful.

All known carriers are kept under strict surveillance by health officials. None, under any circumstances, are permitted to work around food. Members of the carrier's household are immunized against the disease, and annual booster shots of the vaccine are administered as additional protection. Owing to the instruction and supervision received from health officials, known typhoid carriers usually present no hazard to the community or household.

TREATMENT
Certain medications have been used in the treatment of chronic typhoid carriers, but the results have been disappointing. Surgical removal of the gallbladder or a kidney may eliminate the reser-

Local Ministers Gain Appointment

Three ministers were appointed to the Methodist churches in Torrance, it was announced recently by Bishop Gerald Kennedy, Los Angeles, as he made 18 new minister appointments to churches in the Long Beach area.

Gilbert S. Zimmerman, is appointed to the First Methodist and Edward D. Goodell as associate at that church. Hans Holburn is appointed at Riviera and David O. Beadles at Walteria.

Appointed at Alondra Park is C. Leslie Palmer. W. Edward Ramsey received the Rolling Hills appointment. At Grandview in San Pedro Jack B. Harrison was appointed.

EFFECTIVE JULY 1
The appointments were read at the close of the 111th session of the Southern California-Arizona Conference on Sunday, June 25, at the University of Redlands, Redlands. They are effective July 1.

The Rev. Donald R. Locher, 33, pastor of the West Covina Methodist Church, will become minister of the Los Altos Methodist Church. A graduate of Boston University School of Theology, he has been minister of the West Covina Church for seven years.

The Rev. Raymond H. Firth, Los Altos, will serve Aldersgate Methodist Church in Phoenix, Ariz.

BREAKTHROUGH

The Communists use more than 2000 jamming transmitters trying to stop radio Free Europe's broadcasts. RFE breaks through this jamming screen by use of multi-frequency broadcasting.

minister of Echo Park Methodist Church, Los Angeles, will become minister of the California Heights Methodist Church, Long Beach. Dr. Woudenberg has served the Los Angeles church since 1954.

First Methodist Church of Redondo Beach will be pastored by the Rev. Robert J. Kersey, minister of the Westchester Methodist Church, Los Angeles. He has served churches at Alondra Park and La Crescenta and has been at Westchester since 1959.

The Hollypark Methodist Church, Gardena, will welcome the Rev. Charles L. Boss, 38, now serving Holbrook, Ariz., Methodist Church. Mr. Boss is a former missionary to Pakistan.

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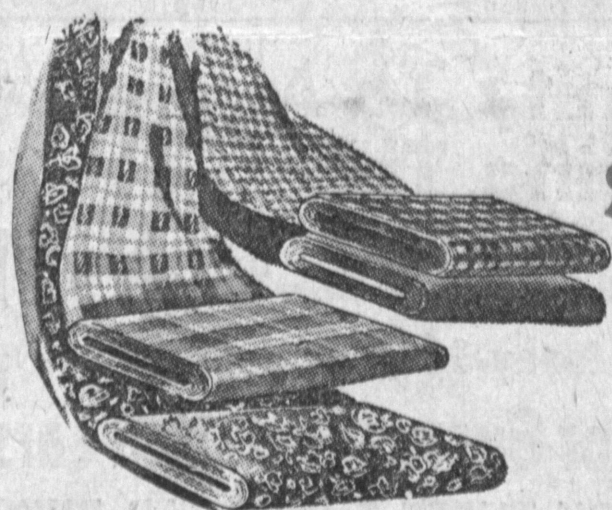
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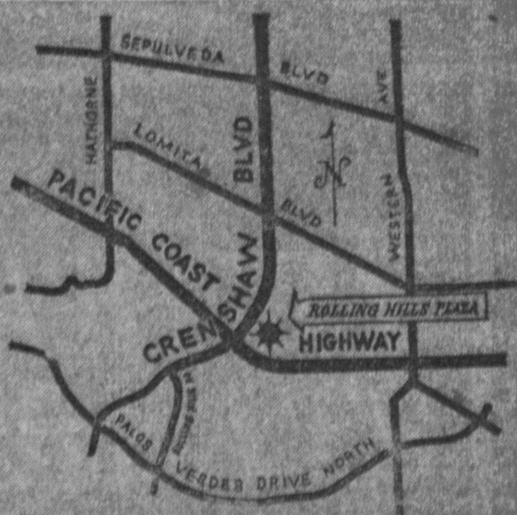
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