

THE SPEED OF FAT ABSORPTION IN VITRO BY THE JEJUNAL ABSORPTIVE EPITHELIUM OF THE WHITE RAT

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Experiments were conducted in order to find out the speed with which fat visible by light microscopy is taken into and travels through the absorptive epithelial cells of villi in excised jejunum at 37°C. Fat was offered to the mucosa of the fasting jejunum in the form of chyme obtained from the intestine of a fat fed rat. It seems that the initial appearance of fat droplets in the cytoplasm and their subsequent transport from under the terminal web, through the apical Golgi vesicles, into the basal cytoplasm and out of the cells into the lamina propria, is a rhythmic process. At least three cycles of this process are completed within the first minute of exposure to chyme.

INTESTINAL BACTERIAL FLORA IN NORMAL HEALTHY ADULTS OF EAST PAKISTAN.

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During the Hajj season of 1967-68, a total of 5908 people were swabbed prior to their departure for Saudi Arabia. These people represented a collection from most of the Thanas of the 17 Districts of East Pakistan. All of them were normal adults representing an age group of 40—60 years and a few persons over sixty years age.

Though main objective of culturing was to find out the presence of vibrios in their stool, a section of the people were cultured to enumerate the other bacterial flora (pathogenic and non-pathogenic) present in the gut.

Results obtained so far indicates that all the cultures were negative for Vibrios. Of the 850 specimens examined for total bacterial flora, 290 specimens showed 1 or 2 types of non-lactose fermenting colonies along with *Escherichia coli*. Other 560 specimens showed pure growth of *Escherichia coli*...

All the non-lactose fermenters from the 290 specimens were classified according to the scheme outlined by the Reference Laboratories. Among important pathogens isolated are *Salmonella typhi* 2, *Shigella*- 18, *Shigella AD-10 Enteropath.* *E. Coli*-14. Seven cultures resembles *shigella*-biochemically but did not agglutinate. The results have been tabulated and discussed.

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