CHAPTER V



CONCLUSION

Vitamin B₁₂ content in human milk, fresh cow's milk and its various preparations, i.e., pasteurized milk, condensed milk, powdered milk, evaporated milk, cheese and butter, were determined by the radioisotape dilution method.

A mean value of vitamin B_{12} in 220 human milk samples was 502 ± 503 pg./ml. This value was in accordance with results reported by other authors. Supplementation of vitamin B_{12} tablets of 150 and 300 µg. per day to lactating mothers for 3 to 5 days showed no significant increase in vitamin B_{12} in their milk samples.

Vitamin B content of fresh cow's milk (1.52 µg./l.) and pasteurized cow's milk (1.35 µg./l.) was nearly identical while vitamin B content in sterilized milk (0.85 µg./l.) was significantly lower than these of fresh and pasteurized milk (P<0.05).

The mean values of vitamin B_{12} content of various kinds of preparations of cow's milk bought from the market were as follow: pasteurized milk, $1.64 \pm 0.44 \, \mu g./1.$; powdered milk, $20.8 \pm 17.8 \, \mu g./kg.$; condensed milk, $3.33 \pm 0.71 \, \mu g./1.$; evaporated milk, $0.26 \pm 0.15 \, \mu g./1.$; cheese, $1.07 \pm 1.6 \, \mu g./kg.$; and butter, $0.51 \pm 0.13 \, \mu g./kg.$

Vitamin B content in human milk, fresh cow's milk, powdered milk, condensed milk (except evaporated milk) seemed to supply adequate vitamin B_{12} requirement for the infants fed on these milk preparations.