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The changing rates of serum Cu and the estimated Cu requirements in inpatients with enteral liquid foods

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Abstract:

The almost elderly inpatients with enteral liquid foods of tube feeding were divided into 5 groups of I to V. In this study 60 inpatients (28 men, 32 women) aged mean 78.8 years were given with Cu - poor conventional liquid foods such as MA-8, PN-Hi and Isocal plus for mean 145 days in I, 4 (2, 2) aged 84 years with slightly Cu - rich ISO-CZ for 93 days in II, 18 (5, 13) aged 80.9 years with one pack of Cu - rich L-6PM plus (Asahi-Kasei Pharma) substituted for one pack of conventionals for 103 days in III, 13 (7, 6) aged 76.3 years with two packs of L-6PM plus substituted for two packs of conventionals for 106 days in IV, and 6 (1, 5) aged 74 years only with 5 - 6 packs of L-6PM plus for 52 days in V. Then in III and IV serum Cu levels were measured in the periods for 120 to 340 days. The decreasing rates were shown in I and the increasing rates were shown in II to V. The grades of the increasing rates were II < III < IV significantly. In III 50 % of cases were improved to normal serum Cu from hypocupremia, showing daily Cu intake of 0.35 mg as an estimated average requirements. In IV all cases were improved to normal serum Cu from hypocupremia, showing 0.63 mg of Cu intake as an adequate intake. Recommended allowance was calculated from average requirement plus 2 standard deviations, indicating 0.4 mg of Cu intake.

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