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# Effects of early enteral nutrition in combination with probiotics on nutritional status, immune function and clinical outcomes in patients with stroke

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**Background**: Malnutrition is common in patients with stroke in the acute phase and has been associated with unfavorable short- and long-term outcomes. Whether early enteral nutrition combined with probiotics would improve patients' nutritional status, immune function and clinical outcomes remains largely elusive..

Materials and Methods: In this single-center prospective study, a total of 112 patients were randomized to receive parenteral nutrition (n=37), early enteral nutrition (n=38), or early enteral nutrition + probiotics (n=37) within 2 days after admission. Evaluated nutritional and immune function measures included prealbumin, albumin, transferrin, triceps skinfold thickness, total lymphocyte count, and CD4+ and CD8+ T cell count at discharge. Clinical outcomes included in-hospital mortality rate and functional outcome as evaluated by the modified Rankin scale at 1-year post-discharge.

**Results**: The 3 groups were comparable with regard to demographics, stroke characteristics and baseline nutritional and immune function measures. At discharge, the prealbumin, transferrin, triceps skinfold thickness, total lymphocyte count, and CD4+ and CD8+ T cell count were comparable between the early enteral nutrition + probiotics group and the early enteral nutrition group, but were significantly higher than those of the parenteral nutrition group. The in-hospital mortality rates (6/37 vs 9/38 vs 5/37, P=0.49) and percentages of patients with modified Rankin scale > 2 were comparable (14/31 vs 11/29 vs 10/32, P=0.52) between the 3 groups at 1-year post-discharge.

**Conclusions**: Although early enteral nutrition in combination with probiotics could improve nutritional status for stroke patients, it did not seem to reduce in-hospital mortality rate and improve functional status at 1-year post-discharge.

Keywords: early enteral nutrition, probiotics, nutritional status, immune function, stroke

### **Biography**

Tan Shilling, female, born on December 26,1980, bachelor's degree, mainly engaged in rehabilitation and nursing work, has more than 20 years of clinical experience.

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