

Service Priorities and Programmes Electronic Presentations

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Early feeding of, length of Stay(LOS) and mortality of Intensive Care Unit(ICU)

Patient

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Introduction

Critically ill patients are under a hyper-metabolic, catabolic depletion state. Timely nutrition support is crucial in reducing complications and promoting recovery. Evidence suggests early feeding, with feeds started within 48 hours after ICU admission, improves clinical outcomes, reduces LOS and mortality.

Objectives

1.To investigate the time lapse between ICU admission and starting of feed 2.To identify the group of patient in whom feeding was delayed. 3.To compare the LOS and mortality of patients who started feeds early vs late.

Methodology

A prospective cohort audit was conducted on 407 ICU patients. Pediatric patient and patients being seen by dietitians were excluded. Outcome measures include time(hours) to starting feed (oral, enteral and parenteral nutrition) after admission, LOS and mortality. Mean time-lapse and LOS were analyzed using student t-test and mortality was analyzed by using Chi square test with SPSS version16. The level of significance was set at p<0.05.

Result

1.Total of 257(63%) patients had feeds started during ICU stay. The mean time between admission and starting feed is 37hours for all patients.(Table 1) Table 1: Mean times lapse between admission and starting feed Admission Category N Mean time lapse(hrs) Surgical GI 37 63 (p-value0.001) Surgical non-GI 31 32 Neurology 53 30 Medical 98 34 Other 38 35 BMI Category BMI</br>
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protocol was revised to exclude these patients and to refer these patients for Dietitian for early nutrition assessment. Conclusion: Overall, early feeding is achieved in our ICU unit. However, a proportion of patients in whom initiation of feeding was delayed was found. Mortality and LOS are higher in these patients. Therefore early feeding should be promoted in ICU nutrition practice.