

Amino Acids In Critical Care And Cancer.pdf

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[The 2017 Sir David P Cuthbertson lecture. Amino acids and ...](#)

Sat, 28 Jul 2018 13:00:00 GMT

The accelerated rate of muscle protein breakdown provides an abundant source of intracellular amino acids, which in turn stimulate muscle protein synthesis. However, some of the amino acids released from muscle protein breakdown are oxidized and thus not available for protein synthesis, and amino acids are released at an increased rate into plasma.

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The procedure known as Controlled Amino Acid Therapy (CAAT) seeks to combat cancer by depriving cancer cells of amino acids and other nutrients. Amino acids are essential to the human diet and are the building blocks of proteins used in the body.

[Amino acids and immune function | British Journal of ...](#)

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A deficiency of dietary protein or amino acids has long been known to impair immune function and increase the susceptibility of animals and humans to infectious disease. However, only in the past 15 years have the underlying cellular and molecular mechanisms begun to unfold. Protein malnutrition reduces concentrations of most amino acids in plasma.

[Proteins and amino acids are fundamental ... - Critical Care](#)

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However, proteins and amino acids are fundamental to recovery and survival, not only for their ability to preserve active tissue (protein) mass but also for a variety of other functions. Understanding the optimal amount of protein intake during nutritional support is therefore fundamental to appropriate clinical care.

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