



Glutamine in Clinical Nutrition (Nutrition and Health)

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Glutamine is the most abundant amino acid and is a major contributor to whole body nitrogen metabolism and is considered to be “conditionally essential.” *Glutamine in Health and Disease* presents the application of current nutritional knowledge by physicians and dietitians and incorporates emerging fields of science and important discoveries. Section 1 covers glutamine structure and function, glutamine synthetase, glutamine binding protein, glutamine transport, glutamine-rich activation domains and transcription, glutamine transaminase and cell biochemistry. Section 2 covers glucose-independent glutamine metabolism, intestinal barrier function, thyroid-stimulating hormone, glutamine resonances, focal ischemia, plasma glutamine, metabolic stress, cancer and absorption. Section 3 covers dipeptide-bound glutamine, DNA protection, oxidative stress, NF-KB, the inflammatory response, the lung, kidney, GI tract and liver, autophagy, ethanol and diabetes. Finally, Section 4 covers the use of glutamine in preoperative states, enteral and parenteral nutrition, pulmonary infections, cancer, hypoxic injury, arginyl-glutamine, paediatrics, pancreatic surgery, the elderly, gastric emptying gastric bypass and use glutamine cocktails. Written by authors of international and national standing, leaders in the field and trendsetters, *Glutamine in Health and Disease* is essential reading for nutritionists and dietitians, public health scientists, physicians, epidemiologists, policy makers, and health care professionals of various disciplines.

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