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A Model of Net Amino Acid Absorption and Utilization by the Portal-Drained Viscera of the Lactating Dairy Cow. *By Hanigan et al., page 4247.* In cows infused abomasally with graded amounts of casein, portal appearance of amino acids indicates that net use of amino acids by the portal-drained viscera is a linear function of amounts absorbed and supplied by arterial blood. Tissue affinity for amino acids was relatively low, allowing most of the absorbed amino acids to reach the portal vein, although larger amounts were utilized from arterial blood. Stimulating amino acid usage for milk protein synthesis would reduce amino acid catabolism by the gut and liver and improve the efficiency of nitrogen usage by the lactating cow.