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
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
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A tracer method for measuring rate of urea synthesis in normal and cirrhotic subjects.

Author(s) : Rypins, E. B. (</cabdirect/search/?q=au%3a%22Rypins%2c+E.+B.%22>) ; Henderson, J. M. (</cabdirect/search/?q=au%3a%22Henderson%2c%2c%2c%22>) ; Fulenwider, J. T. (</cabdirect/search/?q=au%3a%22Fulenwider%2c%2c%2c%22>) ; Moffitt, S. (</cabdirect/search/?q=au%3a%22Moffitt%2c+S.%22>) ; Galambos, J. T. (</cabdirect/search/?q=au%3a%22Galambos%2c%2c%2c%22>) ; Warren, W. D. (</cabdirect/search/?q=au%3a%22Warren%2c+W.+D.%22>) ; Rudman, D. (</cabdirect/search/?q=au%3a%22Rudman%2c+D.%22>)

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Journal article : *Gastroenterology* (</cabdirect/search/?q=do%3a%22Gastroenterology%22>) 1980 Vol.78 No.6 pp.1419-1424 ref.21

Abstract : Urea synthesis in 5 normal subjects and 8 cirrhotics was studied with a kinetic tracer method. Urea synthesis was stimulated by infusion for 12 h of a 5% solution of crystalline amino acids at amino acid nitrogen 115 mg/kg W0.75 h. Simultaneously, urea kinetics were studied with a constant infusion of [14C]urea. Plasma urea and urea specific activity were monitored hourly and plasma alpha -amino N was measured every 3 h. Because specific activity stabilized 6 to 8 h after the infusion began, rate of urea synthesis during hours 8 to 12 could be calculated as [14C]urea infusion rate divided by urea specific activity. In normal subjects alpha -amino N reached a plateau by 6 h at about 12 mg/100 ml, and average urea synthesis rate during hours 8 to 12 was urea N 95 mg/kg W0.75 h, range 81 to 107. In 6 cirrhotics, average alpha -amino N increased to 20 mg/100 ml by the 12th h, and average urea synthesis rate during hours 8 to 12 was urea N 68 mg/kg W0.75, range 60 to 82.

ISSN : 0016-5085 (</cabdirect/search/?q=sn%3a%220016-5085%22>)

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Indexing terms for this abstract:

Organism descriptor(s) : Man

Descriptor(s) : cirrhosis, urea

Identifier(s) : liver cirrhosis, urea formation in normals or cirrhotics

Broader term(s) : Homo, Hominidae, primates, mammals, vertebrates, Chordata, animals, eukaryotes

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