US005166189A

United States Patent [19]

Trimbo et al.

[11] Patent Number: 5,166,189

[45] Date of Patent: * Nov. 24, 1992

[54] ENTERAL DIET FOR PATIENTS WITH PULMONARY DISEASE

[75] Inventors: **Susan L. Trimbo**, Evanston; **W. Bruce Rowe**, Chicago, both of Ill.; **M. Umberto Bracco**, Vevey, Switzerland

[73] Assignee: **Clintec Nutrition Co.**, Deerfield, Ill.

[*] Notice: The portion of the term of this patent subsequent to May 26, 2009 has been disclaimed.

[21] Appl. No.: **853,948**

[22] Filed: **Mar. 19, 1992**

Related U.S. Application Data

[63] Continuation of Ser. No. 348,338, May 5, 1989, Pat. No. 5,116,819.

[51] **Int. Cl.**[5] **A61K 31/00**; A23C 11/02

[52] **U.S. Cl.** **514/2**; 514/21

[58] **Field of Search** 514/2, 21

[56] **References Cited**

U.S. PATENT DOCUMENTS

962,753	6/1910	Fischer et al. .
1,027,844	5/1912	Hoering .
2,194,188	3/1936	Supplee .
2,937,974	5/1960	Ferguson, Jr. .
3,698,912	10/1972	Winitz .
3,699,219	10/1972	Carlson, Jr. .
3,873,720	3/1975	Suzuki et al. .
3,920,838	11/1975	Flatt et al. .
4,438,144	3/1984	Blackburn .
4,497,800	2/1985	Larson et al. .
4,604,286	8/1986	Kawajiri .
4,670,268	6/1987	Mahmoud .
4,687,782	8/1987	Brantman .
4,690,820	9/1987	Simko .
4,711,953	12/1987	Roger et al. .

FOREIGN PATENT DOCUMENTS

0189160	7/1986	European Pat. Off. .
0246747	11/1987	European Pat. Off. .
0265772	5/1988	European Pat. Off. .
WO86/07262	12/1986	PCT Int'l Appl. .

OTHER PUBLICATIONS

Goldstein, S., The Metabolic, Ventilatory and Functional Effects of Refeeding Malnourished Patients With Emphysema, Ph.D. Thesis, Columbia University.

Wilson, D., et al, Nutrition and Chronic Lung Disease, Am Rev Resp Dis 1985; 132: 1347–1365.

Henderson, W. Eicosanoids and Lung Inflammation, Am Rev Respir Dis 1987; 135: 1175–1185.

Ensure HN High Nitrogen Liquid Nitrogen, pp. 38–42.

Pulmocare Specialized Nutrition for Pulmonary Patients, pp. 68–74.

Primary Examiner—Merrell C. Cashion, Jr.
Assistant Examiner—Choon P. Koh
Attorney, Agent, or Firm—Hill, Van Santen, Steadman & Simpson

[57] **ABSTRACT**

An enteral diet for patients with pulmonary disease comprising not less than 18% of said calories from a high quality protein source; from about 20 to 50% of said calories from a slowly metabolizable carbohydrate source derived from maltodextrin or other partially hydrolyzed polysaccharides; from about 40–55% calories from a mixture of lipids comprising medium and long chain triglycerides.

21 Claims, No Drawings