United States Patent [19]

Coughlin

[11] **4,444,778**

[45] **Apr. 24, 1984**

[54] **METHOD AND COMPOSITION FOR TREATING ATHEROSCLEROSIS**

[76] Inventor: **Shaun R. Coughlin,** 130 Bowdoin St., Apt. 1006, Boston, Mass. 02108

[21] Appl. No.: **407,960**

[22] Filed: **Aug. 13, 1982**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 297,076, Aug. 27, 1981, abandoned.

[51] **Int. Cl.**[3] **A61K 31/475**

[52] **U.S. Cl.** **424/262;** 424/250; 424/251; 424/261; 424/267; 424/304; 424/319; 424/330

[58] **Field of Search** 424/262, 267, 250, 251, 424/261, 330, 319, 304

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,846,476 11/1974 Kaiser et al. ..... 424/300 X
3,852,338 12/1974 Kaiser et al. ..... 424/319 X
4,224,343 9/1980 Wurtman 424/319

OTHER PUBLICATIONS

Yamori, Y., et al., *J. Pharm. Pharmac.,* 1972, 24 (9), 690–695.
Goodman and Gilman's *The Pharmacological Basis of Therapeutics,* 6th Ed., Macmillan, New York, 1980, pp. 202–203.
Ross, R., et al., *New England J. Med.,* 295, 369–377 and 420–425 (1976).
Friedman, R., et al., *Prog. Hemostasis and Thromb.,* 4, 249–278 (1978).
Coughlin, S., et al., *Nature,* 288, 600–602 (1980).
Goldberg, I., et al., *Science,* 205, 920–922 (1979).
Shimamoto, T., *Acta Path. Jap.* 19 (1), 15–43 (1969).

Primary Examiner—Richard A. Schwartz
Attorney, Agent, or Firm—Richard P. Crowley

[57] **ABSTRACT**

A method of improving the arteriosclerotic condition in an animal having arteriosclerosis or having a high risk of developing arteriosclerosis, which method comprises administering an effective amount of a serotonin regulating agent, to inhibit the biological activity of serotonin within the blood vessels, thereby inhibiting the proliferation of smooth muscle cells, which has been found to cause or contribute to an arteriosclerotic condition.

31 Claims, No Drawings