

عنوان مقاله:

Evaluation of Circulating Leptin and Its Receptor (Ob-R) Tissue Expression in Colorectal Cancer, a Report From North of Iran

محل انتشار:

فصلنامه آسیب شناسی ایران, دوره 18, شماره 3 (سال: 1402)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Masoume Mahmoudi-Nesheli - Gastrointestinal Cancer Research Center, Non-Communicable Diseases Institute, Mazandaran University of Medical Sciences, Sari, Iran

Reza Alizadeh-Navaei - Gastrointestinal Cancer Research Center, Non-Communicable Diseases Institute, Mazandaran University of Medical Sciences, Sari, Iran

Laleh Vahedi - Department of Pathology, School of Medicine, Mazandaran University of Medical Sciences, Sari, Iran

Omolbanin Amjadi - Gastrointestinal Cancer Research Center, Non-Communicable Diseases Institute, Mazandaran University of Medical Sciences, Sari, Iran

Tarang Taghvaei - Gut and Liver Research Center, Department of Gastroenterology, Imam Hospital, Mazandaran University of Medical Sciences, Sari, Iran

.Iradj Maleki - Gut and Liver Research Center, Department of Gastroenterology, Imam Hospital, Mazandaran University of Medical Sciences, Sari, Iran

Ramin Shekarriz - Gastrointestinal Cancer Research Center, Non-Communicable Diseases Institute, Mazandaran University of Medical Sciences, Sari, Iran

Arash Kazemi - Gut and Liver Research Center, Department of Gastroenterology, Imam Hospital, Mazandaran University of Medical Sciences, Sari, Iran

Versa Omrani-Nava - Gastrointestinal Cancer Research Center, Non-Communicable Diseases Institute, Mazandaran University of Medical Sciences, Sari, Iran

Maryam Alizadeh-Forutan - Gastrointestinal Cancer Research Center, Non-Communicable Diseases Institute, Mazandaran University of Medical Sciences, Sari, Iran

خلاصه مقاله:

Background & Objective : Leptin is an adipocyte-derived hormone with a critical role in energy balance. As demonstrated by previous investigations, leptin acts as a proliferative and angiogenic factor in cancer cells. However, results regarding its role in colorectal cancer are still inconclusive. We aimed to evaluate serum leptin and tissue expression of leptin receptor (Ob-R) in normal and malignant samples of colorectal. **Methods :** Serum and tissue samples from pathology-confirmed colorectal cancer patients and normal controls referring to a university hospital of Mazandaran were obtained during 2019-2021. ELISA and immunohistochemistry were applied to determine leptin and Ob-R expression respectively. **Results :** A total of 90 samples belonging to 46 normal and 44 CRC patients were enrolled. Normal and CRC groups included 32 (69.56%) and 21 (47.72%) female subjects respectively. The average leptin concentration in the normal group was 115.80 and, in the patient, group was 124.47 ng/mL ($P=0.897$). CRC cases showed an insignificantly higher Ob-R

detection rate ($P=0.086$). Conclusion: There was no significant difference in leptin and Ob-R expression between CRC patients and normal subjects. Thus, leptin and its receptor may not be useful as a biomarker of CRC

کلمات کلیدی:

Colorectal cancer, Immunohistochemistry, Leptin, Leptin receptor, LEP, LEPR, Phenotype

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1752973>

