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Abstract

Gastric cancer, also known as stomach cancer is a prevalent malignancy with significant global impact. It arises from the abnormal growth of cells in the lining of the stomach and is associated with substantial morbidity and mortality. The development of gastric cancer involves a complex interplay of genetic, environmental, and lifestyle factors. In recent years, there has been growing recognition of the role of obesity in gastric cancer development. Obesity, characterized by excessive body fat accumulation, contributes to chronic infammation, hormonal imbalances, insulin resistance, and other metabolic dysregulations, creating a favorable environment for cancer initiation and progression. Epidemiological studies consistently demonstrate an increased risk of gastric cancer in individuals who are overweight or obese, particularly for the adenocarcinoma subtype. Adipose tissue-derived hormones, chronic infammation, and disrupted insulin signaling pathways are proposed mechanisms linking obesity to gastric cancer. Furthermore, obesity is often associated with other risk factors such as gastroesophageal refux disease (GERD) and unhealthy dietary habits, which further contribute to the development of gastric cancer. Understanding the complex relationship between

Keywor ds: Ga ic cance ; Obe i $_{v}$; Weigh ; eigh $_{\mu}$ anage $_{\mu}$ en

Introduction

The obesity epidemic

Obe i i cha ac e i e d b e ce i e acc a i n f b d fa, e ing f y an ene g i bayance be een ca ie c n ed and ca ie e endeen e W d Hea h O gani a i n (WHO) e i a e ha e 1.9 bi i n ad d ide a e e eigh, i h e han 650 i i n ca i Ned a be e. Obe i i a ifac ia c n di i n enced b gene ic, en i n en a, and beha i a fac . Seden a ife e, high-ca ie die, and an be genicen i n en c n ib e i y e a ence [1-3].

Unveiling **d**e connection

Re ea ch gge ha be i ignificant inceae e he i f de e ing ga ic cance, a ic ya he aden ca cin a b e, hich acc n f he ai i f cae. Se e a echani a e ed e ain hi a ciai n

Chronic inflammation: Obe i ead a a e fch nic -g ade in a a i n, cha ac e i ed b e e a ed e e f -in a a a e ce e in a a a y i i e c n ib e ce a da age and gene ic a e a i n, y i ng cance de e en [4].

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ide, e ea che, ic a e, and he c ni i e en ia de e c e en i e a egie ha add e he c e e a i n hi be een be i and ga ic cance.

Liter atur e Review

The connection be een being and gate cance it and a ear of the single each, hedding ight in the iface ed pechanish the ing his a ciain [6]. At he being eide ice it, it is compared to economic economic

Epidemiological evidence

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Adipose tissue and cancer promotion

Adi e i e, c p in the first far in the gap. I ec e e a i y by the second y consists y consists y by the second y consists y consists y by the second y consists y