

PERSPECTIVE

Recommendations for the Management of Individuals with Increased Risk of Pancreatic Cancer

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ABSTRACT

People who smoke have almost doubled the chance of developing pancreatic cancer as individuals who have never smoked. Cigarette smoking is considered to be responsible for around 25% of pancreatic cancers. Cigar smoking and the usage of smokeless tobacco products raise the risk as well. Pancreatic tumours that are inherited are less prevalent. They develop when gene mutations or alterations are handed down from generation to generation, increasing the risk of pancreatic cancer. These are also referred to as germline mutations. Specific hereditary disorders that raise a person's chance of pancreatic cancer.

INTRODUCTION

Epidemiology of Pancreatic Cancer

In the United States, acute pancreatitis is one of the most common gastrointestinal reasons for hospitalisation. Although chronic pancreatitis is less common, it has a substantial impact on patients' quality of life. Pancreatic cancer has a significant mortality rate and is one of the top five cancer-related causes of death. The prevalence of pancreatic illnesses is predicted to rise in the next years. Pancreatitis risk and causation vary with age and gender, and all pancreatic illnesses affect the black population more than any other race. Gallstones are the most prevalent cause of acute pancreatitis, and cholecystectomy prevents subsequent episodes. The single most important risk factor for chronic pancreatitis is alcohol. Smoking is a risk factor for both acute and chronic pancreatitis, and its effects may interact with those of alcohol. Smoking and non-O blood types are significant risk factors for pancreatic cancer. Smoking cessation and alcohol abstinence can slow the evolution of pancreatitis and prevent recurrence; smoking cessation is the most effective approach for lowering the risk of pancreatic cancer [1].

Trend and Risk Factors

Despite tremendous breakthroughs in current medical

technology and major increases in cancer survival rates, pancreatic cancer remains a deadly gastrointestinal disease with a poor 5-year survival rate and difficulties in early identification. Pancreatic cancer incidence and mortality rates are growing globally, whether in the United States, Europe, Japan, or China. Globally, the incidence of pancreatic cancer is expected to rise to 18.6 per 100,000 people in 2050, with a 1.1 percent yearly increase, implying that pancreatic cancer would represent a considerable public health burden. Because of the unique anatomical placement of the pancreas, pancreatic cancer is frequently detected at a late stage with evident clinical signs. As a result, a thorough understanding of the risk factors for pancreatic cancer is critical for successful pancreatic cancer prevention. The epidemiological features, developmental patterns, and risk factors of pancreatic cancer are reviewed and evaluated in depth in this work [2].

Pancreatic cancer is a prominent cause of cancer mortality globally, with the global burden more than doubling in the last 25 years. Pancreatic cancer is most common in North America, Europe, and Australia, and while part of this growth is attributable to an ageing global population, there are major modifiable risk factors for pancreatic cancer such as cigarette smoking, obesity, diabetes, and alcohol use. The frequency of these risk factors is growing in many worldwide locations, resulting in higher age-adjusted pancreatic cancer incidence rates, although the relative impact of these risk factors differs internationally due to differences in underlying prevalence and preventative methods. Although not directly modifiable, inherited genetic variables are a significant component of pancreatic cancer risk, and include pathogenic variations in hereditary cancer genes,

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genes linked with hereditary pancreatitis, and common variants discovered in genome-wide association studies. The discovery of the genetic mutations that underpin pancreatic cancer not only sheds light on the disease's genesis, but also offers the potential to drive early detection measures. The purpose of this Review is to offer a current review of the known modifiable and hereditary risk factors for pancreatic cancer [3].

Recommendations

The advancement of molecular profiling, both germline and somatic, and the favourable effects of adjuvant treatment, pancreatic cancer outcomes are becoming less gloomy. The NCCN Guidelines for Pancreatic Adenocarcinoma reflect these improvements, recommending that doctors undertake germline testing for all patients with pancreatic cancer and a molecular study for those with metastatic illness. The recommendations also urge that practitioners try adjuvant treatment with modified FOLFIRINOX for those who can tolerate it [4].

Pain Management

Pain is common in pancreatic cancer patients and contributes to the disease's morbidity. Pain might be caused by a lack of pancreatic enzymes, a blockage, or a direct mass action on nerves in the celiac plexus. Proper supportive care to reduce pain is a crucial element of these patients' overall therapy. There is a scarcity of evidence

on the treatment of pain induced by pancreatic cancer. We analyse the research and make suggestions about the various pain treatment techniques accessible to these individuals [5].

CONCLUSION

Each year, around 60 000 new instances of PDAC are identified, patients having advanced illness at the time of diagnosis. PDAC is becoming more common. Cytotoxic treatments for advanced illness that are now accessible are only marginally successful. Multidisciplinary management, complete germline testing, and integrated supportive care are suggested for all patients.

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