

Advances in Colon Cancer Treatment: Surgical Techniques, Chemotherapy and Immunotherapy

Zorin Desie*

Department of Clinical & Internal Medicine, Wrocław Medical University, Wrocław, Poland

Introduction

Colon cancer, also known as colorectal cancer, is a serious and prevalent form of cancer that develops in the colon or rectum. It is the third most common cancer worldwide and a leading cause of cancer-related deaths. Colon cancer typically begins as small, noncancerous growths called polyps that can develop into cancer over time. Detecting and treating colon cancer early is crucial for improved outcomes and survival rates. The symptoms of colon cancer may vary depending on the location and stage of the tumor. Common signs include changes in bowel habits, such as persistent diarrhea or constipation, blood in the stool, abdominal pain or cramps, unexplained weight loss, fatigue, and a feeling of incomplete bowel emptying. However, it is important to note that some individuals with early-stage colon cancer may not experience any noticeable symptoms [1].

Description

Diagnosing colon cancer typically involves a combination of screening tests and diagnostic procedures. Common screening methods include colonoscopy, Fecal Occult Blood Tests (FOBT), and stool DNA tests. If abnormalities are detected during screening or if symptoms are present, further diagnostic tests may be performed, such as Computed Tomography (CT) scans, Magnetic Resonance Imaging (MRI), or biopsy. A biopsy involves the removal of a small tissue sample for examination under a microscope to confirm the presence of cancer cells. The treatment of colon cancer depends on several factors, including the stage and location of the tumor, overall health, and individual preferences. The primary treatment modalities for colon cancer include surgery, chemotherapy, radiation therapy, targeted therapy, and immunotherapy [2].

The mainstay of treatment for colon cancer involves surgical removal of the tumor and nearby lymph nodes. In some cases, minimally invasive techniques, such as laparoscopic or robotic-assisted surgery, may be utilized to reduce recovery time and minimize scarring. Chemotherapy may be used before or after surgery to kill cancer cells and prevent recurrence. It involves the use of powerful drugs that are administered orally or intravenously. Radiation therapy is sometimes used in combination with surgery and chemotherapy, particularly for rectal cancer. It involves the use of high-energy radiation to target and destroy cancer cells. Targeted therapies are medications that specifically target genetic mutations or proteins present in cancer cells. These drugs work by interfering with the growth and spread of cancer cells while minimizing harm to healthy cells. Immunotherapy harnesses the body's immune system to fight cancer. It stimulates the immune response to recognize and destroy cancer cells. While still under investigation, immunotherapy has shown promising results in the treatment of advanced colon cancer [3,4].

***Address for Correspondence:** Zorin Desie, Department of Clinical & Internal Medicine, Wrocław Medical University, Wrocław, Poland, E-mail: zorindesie76@gmail.com

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After completing treatment, individuals with colon cancer require long-term follow-up care. Regular check-ups, imaging tests, and blood work are conducted to monitor for any signs of recurrence. Additionally, survivorship programs provide support and resources to help individuals manage the physical, emotional, and practical aspects of life after cancer treatment [5].

Conclusion

Colon cancer is a significant health concern, but advancements in screening, diagnosis, and treatment have improved outcomes for many individuals. Recognizing the symptoms, seeking timely medical attention, and undergoing appropriate screening can aid in early detection. With a multidisciplinary approach that may include surgery, chemotherapy, radiation therapy, targeted therapy, and immunotherapy, individuals with colon cancer can receive personalized treatment plans tailored to their specific needs. Ongoing research and advancements in medical knowledge continue to expand treatment options and improve outcomes for individuals affected by this disease.

Acknowledgement

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Conflict of Interest

None.

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