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ORIGINAL ARTICLE

Experience in colorectal surgery at a quaternary care hospital in Bogotá, Colombia *



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KEYWORDS

Colon cancer; Rectal cancer; Surgical intervention; Risk factor

Abstract

Introduction and aims: Colorectal cancer is among the three most common cancers worldwide. Knowledge and identification of suboptimal outcome-associated factors enable comprehensive patient management. The aim of the present study was to present the results of the surgical management of colorectal cancer at a quaternary care university hospital. Materials and methods: An observational, analytic, cross-sectional study was conducted. Information was collected on a retrospective cohort of patients diagnosed with colorectal cancer from 2013 to 2017 at the Hospital Universitario Mayor Méderi, Bogotá, Colombia. Results: Data on 452 patients, within the study period, were collected. A total of 48.5% of the patients were men, the overall complication rate was 24%, the surgical site infection (SSI) rate was 15.38%, anastomotic dehiscence occurred in 4.18% of the patients, bleeding required reoperation in 1.32%, and the intrahospital mortality rate was 7.47%. Conclusion: Colorectal cancer management at a university hospital was as beneficial as that provided by other types of hospitals, showing a direct association with complete R0 dissections; low complication rates, according to international reports; and reduced overall morbidity. © 2021 Asociación Mexicana de Gastroenterología. Published by Masson Doyma México S.A. This is an open access article under the CC BY-NC-ND license (http://creativecommons.org/licenses/ by-nc-nd/4.0/).

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PALABRAS CLAVE

Cáncer de colon; Cáncer de recto; Intervención quirúrgica; Factor de riesgo

Experiencia en cirugía colorrectal en un hospital de cuarto nivel de complejidad en Bogotá, Colombia

Resumen

Introducción y objetivos: El cáncer colorrectal se encuentra dentro de los 3 primeros cánceres a nivel mundial, el conocimiento e identificación de los factores asociados a los desenlaces no óptimos permiten realizar un manejo integral del paciente. El objetivo de este estudio es presentar los resultados del manejo quirúrgico de enfermedad oncológica colo-rectal en un hospital universitario de cuarto nivel.

Materiales y métodos: Se realizó un estudio observacional, analítico de corte transversal, se recolectó la información de una cohorte retrospectiva de pacientes con diagnóstico de cáncer colorrectal entre el año 2013 al año 2017 en el Hospital Universitario Mayor Méderi, Bogotá, Colombia.

Resultados: Se recolectaron 452 pacientes durante el periodo de estudio, de estos el 48.5% fueron varones. El porcentaje global de complicaciones fue del 24%, infección del sitio operatorio (ISO) en el 15.38%, dehiscencia de la anastomosis en el 4.18%, sangrado que origina reintervención en el 1.32% y mortalidad intrahospitalaria en el 7.47%.

Conclusión: El manejo del cáncer colorrectal en un hospital universitario mostró beneficios y resultados similares y comparables con otros tipos de hospitales con manejo frecuente de esta enfermedad, mostrando una asociación directa en disecciones completas R0, con bajas tasas de complicaciones según lo reportado a nivel mundial y disminución de morbilidad global.

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Introduction and aim

Colorectal cancer is one of the most frequent tumors worldwide¹. Dietary habits, and certain genetic, occupational, and lifestyle aspects influence its incidence¹⁻³. The risk for developing colorectal cancer throughout life in the general population is calculated at around $5\%^4$. Recent studies indicate that nutritional supplements rich in probiotics and prebiotics can function as chemopreventive agents, and play an important role in removing mutagenic and carcinogenic agents produced by specific bacteria of the gastrointestinal tract. They also aid in the prevention of colon cancer, through their role in reducing intestinal pH and their immunomodulatory effects³.

The histopathology in the majority of cases of colorectal cancer is adenocarcinoma. It is generally preceded by an adenoma (accepted as occurring in 95% of cases) that progresses to carcinoma^{5,6}. When more than one primary tumor is simultaneously diagnosed at the time of initial presentation, it is known as synchronous colorrectal cancer and its incidence ranges from 1 to 7%; metachronous disease is when a second primary tumor is diagnosed during follow-up⁴. The anatomic distribution of colorectal cancer corresponds to 30% in the rectum, 20% in the sigmoid colon, 20% in the right colon, and 10% in the left colon or the transverse colon⁵. Better quality screening has contributed to more efficient detection of precursor lesions and early tumors. The treatment of choice is curative, as well as palliative, surgery 5 . Optimal patient selection and adequate surgical intervention impact the final surgical result and the 5-year survival rates.

Laparoscopy is the most frequent approach and has become standard care, given that it is shown to be safe and provide good short-term results. Among its advantages are less blood loss, shorter hospital stay, and faster bowel function recovery⁷. The open technique is the second-place approach and the transnasal technique is the third-place approach. The choice of approach should be based on the principles of oncologic surgery⁵. The most common procedure-related complications are anastomosis dehiscence and surgical site infection; organized fistulas and contiguous organ lesions, among others, are less frequent⁸.

Adjuvant therapy is offered after surgery to reduce the possibility of disease recurrence and to increase survival. Candidates for that management are patients with stage II and stage III disease, that have follow-up utilizing clinical, pathologic, and molecular biomarkers¹.

Outcomes can be conditioned by the preoperative characteristics of the patient, including disease involvement, comorbidities, nutritional status, and others⁹. There is scant knowledge about the risk factors for morbidity and mortality after right oncologic colectomy for colon cancer. Such information would be useful for developing prevention and intensive follow-up strategies for at-risk patients⁹.

Knowing the outcome-related factors is decisive in terms of complications, morbidity, and mortality in patients that undergo colorectal cancer surgery in the local context and encompasses the specific characteristics of the Colombian population. Close to 100 colectomies are performed annually at the institution described in the present study, providing important data.

Methods

Population

An observational cross-sectional study was conducted, with retrospective data collection. The study population was made up of patients that underwent surgery for colorectal cancer at the coloproctology service of the *Hospital de Méderi*, in Bogotá Colombia, from 2013 to 2017.

Data collection

Data from the 5-year study period were collected on patients that were surgically managed for colorectal cancer. The patients were above 18 years of age, had a histopathologic diagnosis of colorectal cancer, and were operated on at our health institution. Patients that had been treated or followed at another institution were excluded. All the study patients received multidisciplinary management by the general surgery (colorrectal surgery) service and were operated on by a colorectal surgeon.

The information collected included the sociodemographic variables of age and sex, as well as body mass index (BMI), preoperative nutritional evaluation, comorbidities, and the American Society of Anesthesiologists (ASA) classification. The tumor-related aspects analyzed were primary site, histology, final tumor staging, and regional lymph node classification. The procedure-related variables were procedure intention, surgical approach, blood loss volume, number of resected lymph nodes, compromised organs, resection margins, need for postoperative drain, need for endoanal tube, and hospital stay duration. Regarding the follow-up, the variables of adjuvant therapy and relapse were analyzed. Complications and outcomes were reviewed.

Statistical analysis

The statistical analysis was carried out, utilizing the SPSS[®] v22 program, under the license of the *Universidad del Rosario*. In the univariate analysis, the qualitative variables were expressed as percentages and absolute frequencies and the quantitative variables as measures of central tendency and dispersion. The bivariate analysis utilized the Pearson chi-square test as a hypothesis test, and statistical significance was set at a $p \le 0.05$. The present study is considered a no-risk analysis, according to Resolution 8430 of 1993.

Ethical considerations

This study was approved by the ethics committee of our institution. The protocol was carried out, according to the guidelines of the World Medical Association Declaration of Helsinki - Ethical Principles for Medical Research Involving Human Subjects, adopted by the 18th WMA General Assembly, Helsinki, Finland, June 1964, and revised in Tokyo 2004.

Table 1Preoperative characteristics n = 452.

Comorbidities n (%)	
High blood pressure ^a	182 (40)
Diabetes mellitus ^a	61 (13.41)
Chronic obstructive pulmonary	31 (6.9)
disease ^a	
Corticoid use ^a	4 (0.9)
ASA classification n (%)	
ASA I ^a	39 (10)
ASA II ^a	190 (18.6)
ASA III ^a	160 (40.9)
ASA IV ^a	2 (0.5)
Overall nutritional evaluation n (%)	
Normal ^a	80 (20.3)
Mild acute malnutrition ^a	53 (13.4)
Moderate/severe acute	51 (12.9)
malnutrition ^a	
Chronic malnutrition ^a	44 (11.1)
Overweight/obesity ^a	31 (7.8)
No datum ^a	196 (43.08)
^a Absolute frequency (relative frequency)	

^a Absolute frequency (relative frequency).

Results

Data from January 2013 to December 2017 were collected, resulting in 452 patients, of whom 48.5% were men and 51.5% were women. The mean patient age was 67 years (SD of 12.5 years). A specialized nutritional evaluation was carried out on 282 patients and showed that 52% had some grade of malnutrition. Table 1 shows the comorbidities, ASA classification, and nutritional status of the patients.

Preoperative staging could be verified in 77.58% (n = 353) of the patients and lymph node classification in 71%. Table 2 describes the tumor characteristics.

Regarding the procedure, curative-intent treatment was carried out in the majority of patients (74.5%) (n = 339), median hospital stay was 5 days (minimum of one day and maximum of 353 days), and the laparoscopic approach was the most widely utilized (75% versus 25% with the open approach). Table 3 shows the variables related to the procedure.

The resection margins were analyzed, according to tumor location, in the colon or in the rectum (Table 4).

In reference to follow-up, 80 patients received neoadjuvant therapy and 64 received complete neoadjuvant therapy, depending on the criterion of the treating surgeon (Table 5).

Twenty-four percent (n = 108) of the patients presented with complications, which are described in Table 6.

According to the bivariate analysis, the postoperative complications were high blood pressure and the need for drain placement (Table 7).

Discussion

In the Western world, colorectal cancer is one of the most common cancers, in order of frequency, and is a disease that has a determining influence on lifestyle habits. Early detection through the screening of precursor lesions, in this

Table 2 Tumor characteristics n = 452.	
Primary site n (%)	
Rectum	139 (34.2)
Descending colon and sigmoid colon	112 (27.6)
Right colon	112 (27.6)
Transverse colon	39 (9.6)
Appendix	3 (0.7)
Anus	1 (0.2)
Histology n (%)	
Well-differentiated adenocarcinoma	328 (72.09)
Poorly differentiated adenocarcinoma	34 (7.47)
Neuroendocrine tumor	2 (0.44)
Squamous cell carcinoma	1 (0.22)
Lymphoma	1 (0.22)
No datum	89 (19.56)
Final tumor staging n (%)	
Stage I	46 (10.11)
Stage IIa	66 (14.51)
Stage IIb	55 (12.09)
Stage IIc	21 (4.62)
Stage IIIa	22 (4.84)
Stage IIIb	51 (11.21)
Stage IIIc	25 (5.49)
Stage IVa	54 (11.87)
Stage IVb	26 (5.71)
No datum	89 (19.56)
Regional lymph node classification n (%)	
Non-resected	6 (1.32)
NO	214 (47.03)
N1a	34 (7.47)
N1b	13 (2.86)
N1c	4 (0.88)
N2a	30 (6.59)
N2b	15 (3.30)
N3	7 (1.54)

Table 2 Tumor characteristics n = 452

Table 3Procedure-related variables (n = 452).

Median (range)	
Intraoperative blood loss (cc)	150 (100-200)
Number of resected lymph nodes	13 (7-19)
Number of compromised organs	1 (1-2)

case, adenomas, is possible^{1,6,10}. Colorectal cancer is 2times more frequent in men than in women and presents with associated inflammatory bowel diseases and polypoid Table 4Resection margins (n = 360).

n (%)			
	RO	R1	R2
Colon (n = 234)	201 (85%)	18 (7%)	15 (6%)
Rectum (n = 126)	104 (86%)	7 (6%)	9 (7.5%)

Table 5Treatment (n = 452).

	n (%)
Complete neoadjuvant therapy	64 (14.07)
Adjuvant therapy	207 (45.49)
Adjuvant therapy cycles ^a	6 (2 - 6)
Relapse	71 (15.60)
Postoperative drain	234 (51.43)
Endoanal tube	41 (9.01)
^a Median (Q1, Q3).	

Table 6Intrahospital outcomes (n = 452).

	n (%)
Postoperative ileus ^a	84 (18.46)
Superficial, deep, organ-space SSI ^a	70 (15.39)
Mortality ^a	34 (7.47)
Anastomosis dehiscence ^a	19 (4.18)
Pulmonary thromboembolism ^a	7 (1.54)
Bleeding ^a	6 (1.32)
^a Median.	

lesions³. The risk of developing or progressing to colorectal cancer is associated with genetic, socioenvironmental, and exposure factors, leading to the decision to carry out interdisciplinary management of the tumor^{1,6}.

According to the figures from the international agency for the study of cancer, there was an estimated 9.7% prevalence of colorectal cancer in 2015 worldwide, among all cancer cases¹, whereas according to data from the 2012 GLOBO-CAN project, incidence varied widely, from 3-4/100,000 inhabitants in the African Northeast to 40/100,000 inhabitants in European studies, with better screening systems^{3,11}. Recently, a decrease in the number of expected cases in adults over 50 years of age has been calculated. Nevertheless, an increase of said incidence is expected for 2030³. Surgery is the therapeutic intervention with the possibility of cure in patients with stages I, II, and III of the disease,

 Table 7
 Procedure comorbidities and characteristics versus complications.

Variables	With complication n = 108 n (%)	Without complication n = 334 n (%)	p value
High blood pressure	60 (55.56)	119 (35.63)	0.000
Diabetes mellitus	12 (11.11)	48 (14.37)	0.390
Chronic obstructive pulmonary disease	8 (7.41)	23 (6.89)	0.854
Corticoid use	2 (1.85)	2 (0.60)	0.232
Drain placement	72 (66.67)	161 (48.20)	0.001
Endoanal tube placement	6 (5.56)	34 (10.18)	0.145

^a p value using the chi-square test.

and must adhere to the principles of oncologic surgery, conserving wide resection margins in both the laparoscopic and the open techniques¹⁰. A retrospective cohort of patients that underwent colorectal surgery was analyzed in the present study, showing the characteristics and outcomes at an important health institution in Colombia.

Unlike that described in the international literature, we found a slightly higher number of women that were operated on, congruent with the results of Agudelo et al., who reported that 57% of the procedures were performed on women⁸. However, the incidence of colorectal cancer worldwide is higher in men^{1,9}. In their study, Frasson et al. found that 60% of the patients undergoing colorectal surgery were men and 40% were women. Forty percent of the patients had a risk for ASA III, similar to that reported in other studies¹².

The most prevalent comorbidity in the patients with colon cancer was high blood pressure, at 40%, similar to that reported by Pellino et al., who documented it in 52.8% of the patients included in their study¹³.

In the study by Frasson et al., they included 3,193 patients from 52 European hospitals. The location of the tumors was similar, with around 30% involving the right colon and less than 10% involving the transverse $colon^{12}$. Thirty-four percent of the tumors were located in the rectum.

In the statistics previously reported by Agudelo et al., those authors found a frequency of operated patients with stage IV, disease of 26.2% in 2012^8 , compared with 11.7% in the present study. That could reflect improved screening strategies in Colombia, is relevant, given the different studies that describe a decrease of up to 67%, with respect to the colorectal cancer mortality rate, through adequate screening systems^{14–16}. Nevertheless, in international studies, the surgery rate for patients in stagehas been reported from 8.5 to $10.5\%^{9,12}$.

In addition, there has been an increase in the performance of laparoscopic interventions. In 2014, it was used in 60% of cases⁸, and in our study, rose to 75%. Numerous studies support the lower complication rate, thanks to the less invasive nature of the laparoscopic procedure⁷, as concluded by Bedrikovetski et al., in their comparative study on the open technique versus the minimally invasive technique in colorectal cancer surgery¹⁷.

With respect to intervention outcomes, we found that the main complication was postoperative ileus, followed by surgical site infection, in 15.39% of the patients, which was higher than the 13.4% described in the prospective ANACO study in 2015. The most dreaded complication in the context of surgical treatment of colon cancer is dehiscence¹⁸, whose rate was 4.18%. Local researchers have reported dehiscence rates of 4.6%⁸, whereas the ANACO researchers reported a rate of 8.4% and found obesity, intraoperative complications, low preoperative serum protein levels, and male sex to be associated factors.

The ANACO study group brought together the prospective data of 52 countries, with a sample of 3,193 patients. They characterized the patients that underwent cancer-related resection of the colon and analyzed the risk factors for dehiscence. They documented a 3% mortality rate, which was low, compared with our mortality rate of $7.47\%^{12}$. The overall complication rate in our study was 23.7%, which was lower than the 27% established worldwide at centers of excellence in multicenter studies⁹.

Evaluating the nutritional condition of patients is an aspect that needs to be improved, given that only 61% of the patients from the entire cohort had such an assessment, and it was carried out more rigorously and frequently during the last years of the study period. An ever-increasing number of reports are supporting the importance of adequate nutritional status for obtaining better perioperative outcomes^{12,13}.

Achieving complete R0 dissections is associated with a reduction in overall morbidity and recurrence rates. In our study, the recurrence rate decreased in direct proportion to the number of dissected lymph nodes. Importantly, the mean for lymph node dissection (13 lymph nodes) at our institution is higher than the number established in the literature as the minimum for favoring an increase in survival rates⁹.

The main limitation of our study was the fact that it is a comparative observational study with no randomization, and thus, is subject to selection bias.

The results of the present study provide valuable information on the characteristics of the Colombian population operated on for colon cancer, for detecting strengths and aspects to improve, as well as for consolidating information to make comparisons, with both national and international references.

Conclusions

The sociodemographic characteristics of the patients operated on for colon cancer at our health institution were similar to those of the worldwide population.

Our hospital has a low dehiscence rate and overall complication rate, compared with international statistics. Complete R0 dissection decreased the morbidity and mortality of the hospitalized patient. It is important to evaluate the causes of overall mortality, which should be done through prospective studies, so that the associated factors can be more deeply explored, resulting in opportunities for improvement.

The preoperative evaluation of nutritional condition should be a *sine qua non* to aid in having better results, during and after the intervention.

According to the results of the present study, special caution should be exercised, regarding patients with high blood pressure and those with intraoperative drains, given that they are aspects associated with complications, which should be analyzed in depth, through prospective studies.

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Conflict of interest

The authors declare that there is no conflict of interest.

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