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## Carcinoma located in a right-sided sigmoid colon: A case report

Liang-Jing Lyu, Wei-Wu Yao

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### Abstract

#### BACKGROUND

A right-sided sigmoid colon is an extremely rare anatomic variation that should be considered as a possibility by surgeons and radiologists before surgery. Here, we report the first clinical case of a carcinoma in a right-sided sigmoid colon revealed by a preoperative computed tomography (CT).

#### CASE SUMMARY

A 56-year-old Chinese man was admitted to the hospital with abdominal pain. CT revealed a redundant sigmoid colon with a mass on the right side of the cecum and ascending colon. Laparoscopy confirmed an abnormal course in the descending colon and sigmoid colon. Subsequently, hemicolectomy was performed in an open manner after laparoscopic exploration. Pathological examination revealed an infiltrative mucinous adenocarcinoma with two lymph node metastases. The patient was discharged without any complications after a week. There were no signs of recurrence or metastasis during the 3-month follow-up period.

#### CONCLUSION

We report a rare anomaly of a right-sided sigmoid colon with carcinoma, which should be differentiated from ascending colon cancer and periceal hernia to prevent errors and other surgical complications.

**Key Words:** Right-sided sigmoid colon; Sigmoid colon; Colon carcinoma; Redundant sigmoid colon; Periceal hernia; Case report

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**Core Tip:** The right-sided sigmoid colon was first described by a few cadaveric studies and may not have been fully recognized by clinicians in recent years due to its relative rarity. Recognizing this variation is essential for interventional and diagnostic colonoscopy and associated surgeries. This is the first clinical case of a carcinoma located in a right-sided sigmoid colon.

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## INTRODUCTION

Recognizing variations in the sigmoid colon is of key importance to surgeons and radiologists. Here, we report an atypical anatomic variation of a right-sided sigmoid colon with carcinoma, which was incidentally observed during an emergency computed tomography (CT) scan for abdominal pain. To the best of our knowledge, this is the first clinical case of a carcinoma located in a right-sided sigmoid colon detected by a preoperative CT scan. We present the following case in accordance with the CARE Reporting Checklist.

## CASE PRESENTATION

### Chief complaints

A 56-year-old Chinese man was admitted to our hospital with abdominal pain in the right lower quadrant for 3 days.

### History of present illness

The patient had experienced irregular and formless bowel movements for three months prior to presentation at our hospital. The patient also had right lower quadrant abdominal pain, which could not be relieved after defecation. The patient had no other accompanying symptoms, including any obvious symptoms of bowel obstruction.

### History of past illness

The patient had no previous surgical history.

### Personal and family history

The patient did not have a history of smoking or drinking. There was no personal or family history of acute or chronic diseases.

### Physical examination upon admission

The patient was 169 cm tall and weighed 65 kg. Physical examination revealed tenderness in the right lower quadrant, but no palpable mass was found.

### Laboratory examinations

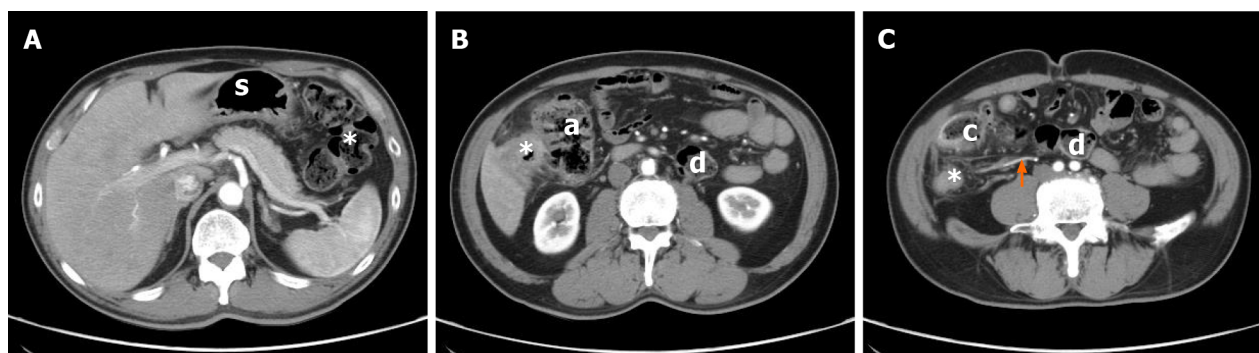
Laboratory tests showed moderate increases in platelets and CA724, and normal levels of white blood cells and CA199. No abnormal results were found in other biochemical tests.

### Imaging examinations

CT showed an atypical location of the redundant sigmoid colon with heterogeneously enhanced circumferential wall thickening on the right side of the cecum and ascending colon (Figures 1 and 2). We reported the atypical location of the sigmoid colon with a mass, suspected the presence of a pericecal hernia, and informed the surgeons accordingly.

Colonoscopy showed an annular stricture of the sigmoid colon caused by a tumor 28 cm from the anus. Subsequent biopsy indicated malignancy.





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**Figure 1** A 56-year-old man with right-sided sigmoid colon carcinoma. A: Axial post-contrast computed tomography (CT) scan in the arterial phase demonstrates that the stomach (s) and splenic flexure of colon are normal (\*); B: Axial post-contrast CT scan in the arterial phase shows the descending colon entering the peritoneum. The sigmoid colon with the tumor (\*) is located on the right side of the ascending colon (a); C: Axial post-contrast CT scan in the arterial phase shows the descending colon (d) crossing to the right at the level of the L4 vertebra and continuing as the sigmoid colon (s) on the right. The tumor (\*) is located in a redundant right-sided sigmoid colon. The cecum (c) is displaced toward the left at the level of the L4 transverse process instead of the right pelvic region. The inferior mesenteric artery (arrows) is shown running to the right instead of its normal left-sided course.



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**Figure 2** A 56-year-old man with right-sided sigmoid colon carcinoma. A: Coronal post-contrast computed tomography (CT) scan in the arterial phase demonstrates that the descending colon (d) crosses to the right and continues as the sigmoid colon (s). The tumor (\*) is located in a redundant right-sided sigmoid colon occupying the subhepatic region. The ascending colon (a) and the cecum (c) have been displaced; B: Maximum Intensity Projection (MIP) demonstrates that the tumor (\*) is located in the right abdomen. The inferior mesenteric artery (arrows) is shown running to the right instead of its normal left-sided course; C: Volume Rendering Technique (VRT) demonstrates abnormal positions of both the sigmoid colon and descending colon. The descending colon (d) is shown crossing to the right and continuing as the sigmoid colon (s). The tumor (red part) is located in a redundant right-sided sigmoid colon. The ascending colon (a) and cecum (c) have been displaced. The ileocecal junction (blue part) is at the L4 level, indicating that the cecum was undescended during embryogenesis.

## FINAL DIAGNOSIS

Due to inconclusive radiological signs, the patient underwent laparoscopic exploration. Intraoperatively, the surgeons detected atypical positions of both the sigmoid colon and descending colon. They converted the surgery to an open operation for safety considerations.

The surgeons found a mass that almost completely blocked the lumen of the sigmoid colon. The redundant sigmoid colon was located on the right side of the ascending colon and cecum and was supplied by the branches of the inferior mesenteric artery, which ran to the right instead of its standard left-sided course. The descending colon started at the splenic flexure and crossed to the right at the level of the L4 vertebra, and occupied the subhepatic region to continue as the sigmoid colon. The small intestine was normal. Pathological examination revealed an infiltrative mucinous adenocarcinoma with two lymph node metastases, pT4N1M0 stage IIIB (UICC-TNM: 8<sup>th</sup> edition).

## TREATMENT

The surgeons performed a hemicolectomy with regional lymphadenectomy during laparotomy. No bowel perforation was observed.

## OUTCOME AND FOLLOW-UP

The patient was discharged on postoperative day 7 without any complications. Moreover, there were no signs of recurrence or metastasis during the 3-month follow-up period.

## DISCUSSION

The sigmoid colon shows the greatest variation in length and position[1]. The variation in length is mainly related to racial differences and a high-fiber diet[2], the position of the sigmoid colon loop is a means of adapting to the general length of the sigmoid colon[2]. A study by Saxena *et al*[3] suggested that the sigmoid colon of young children (age < 5 years) is often situated entirely on the right side for redundancy; this is not the case in adults. The presence of a right-sided sigmoid colon is very rare in adults and may be related to fixation anomalies[1], redundancy of the colon, or secondary rotation of the colon during embryogenesis[4].

In most cases of right-side colon carcinoma, the carcinoma is observed to be located in the ascending colon. In our case, circumferential wall thickening of the colon occupied the subhepatic region on the right of the ascending colon, and the ileocecal junction was displaced toward the left at the level of the L4 transverse process instead of the right pelvic region, indicating that the cecum was undescended due to midgut malrotation during embryogenesis[4]. Colonoscopy revealed a stricture 28 cm from the anus, demonstrating a sigmoid colon other than the ascending colon. The identification of the tumor location is crucial for determining the appropriate clinical course because the sigmoid colon and ascending colon have different embryological origins[5], and a recent study[6] demonstrated that right-sided colon carcinomas exhibit exophytic pathological behavior and poorer overall survival than left-sided colon carcinomas.

In the present case, the colon with wall thickening on the right side of the ascending colon was similar to a rare type of internal hernia occurring near the cecum, namely, pericecal hernia[7]. However, pericecal hernia usually involves a small bowel other than the sigmoid colon; such pericecal hernias usually produce acute intestinal obstruction, which can be confirmed by CT. In addition, it is expected that the descending colon and sigmoid colon should be observed in the standard position relative to the pericecal hernia and the inferior mesenteric artery. On CT images of the present case, no small bowel herniation or obvious dilation was observed. The descending colon crossed to the right side at the level of the L4 vertebra, where it entered the peritoneal cavity and continued as the sigmoid colon on the right side. Notably, the inferior mesenteric artery ran to the right instead of its normal left-sided course.

Shrivastava *et al*[8] first described the right-sided sigmoid colon in a cadaveric study in 2013. Flores-Ríos *et al*[9] reported a case of secondary right-sided descending and sigmoid colon caused by a wandering spleen due to laxity or abnormal development of the peritoneal ligaments, which was different from our case. Subsequently, there were two case reports[1,10] of right-sided sigmoid colons, which were discovered incidentally during surgery.

To the best of our knowledge, this is the first clinical case of carcinoma located in the right-sided sigmoid colon revealed by a preoperative CT scan and confirmed by surgery. Surgeons and radiologists should be aware of this rare variation when examining patients experiencing abdominal pain in the right lower quadrant.

The limitation of our case was the lack of appropriate intraoperative images compatible with the volume rendering image (Figure 2C), which could have provided readers with an intuitive understanding.

## CONCLUSION

We report a rare anomaly of the right-sided sigmoid colon with carcinoma that could be detected by careful examination with a preoperative CT scan. This is a major congenital colon anomaly that should be recognized preoperatively and needs to be differentiated from the ascending colon and pericecal hernia to prevent errors and other surgical complications.

## FOOTNOTES

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