# World Journal of *Clinical Cases*

World J Clin Cases 2021 December 16; 9(35): 10746-11121





Published by Baishideng Publishing Group Inc

W J C C World Journal of Clinical Cases

#### Contents

Thrice Monthly Volume 9 Number 35 December 16, 2021

#### **REVIEW**

10746	Management of acute kidney injury in gastrointestinal tumor: An overview
	Su YQ, Yu YY, Shen B, Yang F, Nie YX

10765 Application of vascular endothelial cells in stem cell medicine Liang QQ, Liu L

#### **MINIREVIEWS**

10781 Application of traditional Chinese medicine in treatment of Helicobacter pylori infection Li RJ, Dai YY, Qin C, Huang GR, Qin YC, Huang YY, Huang ZS, Luo XK, Huang YQ

#### **ORIGINAL ARTICLE**

#### **Case Control Study**

10792 Impact of cytomegalovirus infection on biliary disease after liver transplantation - maybe an essential factor

Liu JY, Zhang JR, Sun LY, Zhu ZJ, Wei L, Qu W, Zeng ZG, Liu Y, Zhao XY

10805 Blood tests for prediction of deep endometriosis: A case-control study Chen ZY, Zhang LF, Zhang YQ, Zhou Y, Li XY, Huang XF

#### **Retrospective Cohort Study**

10816 Association between neutrophil-to-lymphocyte ratio and major postoperative complications after carotid endarterectomy: A retrospective cohort study

Yu Y, Cui WH, Cheng C, Lu Y, Zhang Q, Han RQ

10828 Application of MAGnetic resonance imaging compilation in acute ischemic stroke Wang Q, Wang G, Sun Q, Sun DH

#### **Retrospective Study**

10838 Ninety-four thousand-case retrospective study on antibacterial drug resistance of Helicobacter pylori Zhang Y, Meng F, Jin J, Wang J, Gu BB, Peng JB, Ye LP

10850 Adjacent segment disease following Dynesys stabilization for lumbar disorders: A case series of mid- and long-term follow-ups

Chen KJ, Lai CY, Chiu LT, Huang WS, Hsiao PH, Chang CC, Lin CJ, Lo YS, Chen YJ, Chen HT

10861 Identification of independent risk factors for intraoperative gastroesophageal reflux in adult patients undergoing general anesthesia

Zhao X, Li ST, Chen LH, Liu K, Lian M, Wang HJ, Fang YJ



World Journal of Clinical Cases		
Conter	Thrice Monthly Volume 9 Number 35 December 16, 2021	
10871	Value of the controlling nutritional status score and psoas muscle thickness per height in predicting prognosis in liver transplantation	
	Dai X, Gao B, Zhang XX, Li J, Jiang WT	
10884	Development of a lipid metabolism-related gene model to predict prognosis in patients with pancreatic cancer	
	Xu H, Sun J, Zhou L, Du QC, Zhu HY, Chen Y, Wang XY	
10899	Serum magnesium level as a predictor of acute kidney injury in patients with acute pancreatitis	
10077	Yu XQ, Deng HB, Liu Y, Qu C, Duan ZH, Tong ZH, Liu YX, Li WQ	
10000	De diele complex tions flag transfor for a construction of dualizated through with one coult size	
10909	Pedicle complex tissue flap transfer for reconstruction of duplicated thumbs with unequal size Wang DH, Zhang GP, Wang ZT, Wang M, Han QY, Liu FX	
	mung D11, Zhung O1, mung Z1, mung M, Hun Q1, Elu I X	
10919	Minimally invasive surgery vs laparotomy in patients with colon cancer residing in high-altitude areas	
	Suo Lang DJ, Ci Ren YZ, Bian Ba ZX	
	Observational Study	
10927	Surgery for chronic pancreatitis in Finland is rare but seems to produce good long-term results	
	Parhiala M, Sand J, Laukkarinen J	
10937	Association of overtime work and obesity with needle stick and sharp injuries in medical practice	
	Chen YH, Yeh CJ, Jong GP	
10948	Serum gastrin-17 concentration for prediction of upper gastrointestinal tract bleeding risk among peptic ulcer patients	
	Wang JX, Cao YP, Su P, He W, Li XP, Zhu YM	
10956	Predictive risk scales for development of pressure ulcers in pediatric patients admitted to general ward and intensive care unit	
	Luo WJ, Zhou XZ, Lei JY, Xu Y, Huang RH	
100/0	META-ANALYSIS	
10969	Clinical significance of signet ring cells in surgical esophageal and esophagogastric junction adenocarcinoma: A systematic review and meta-analysis	
	Wang YF, Xu SY, Wang Y, Che GW, Ma HT	
10979	Percutaneous biliary stent combined with brachytherapy using <sup>125</sup> I seeds for treatment of unresectable malignant obstructive jaundice: A meta-analysis	
	Chen WY, Kong CL, Meng MM, Chen WQ, Zheng LY, Mao JT, Fang SJ, Chen L, Shu GF, Yang Y, Weng QY, Chen MJ, Xu M, Ji JS	
	CASE REPORT	

#### **CASE REPORT**

Prenatal ultrasonographic findings in Klippel-Trenaunay syndrome: A case report 10994 Pang HQ, Gao QQ



<b>.</b> .	World Journal of Clinical Cases
Conten	ts Thrice Monthly Volume 9 Number 35 December 16, 2021
10999	Immunoglobulin G4-related lymph node disease with an orbital mass mimicking Castleman disease: A case report
	Hao FY, Yang FX, Bian HY, Zhao X
11007	Treatment for subtrochanteric fracture and subsequent nonunion in an adult patient with osteopetrosis: A case report and review of the literature
	Yang H, Shao GX, Du ZW, Li ZW
11016	Early surgical intervention in culture-negative endocarditis of the aortic valve complicated by abscess in an infant: A case report
	Yang YF, Si FF, Chen TT, Fan LX, Lu YH, Jin M
11024	Severe absence of intra-orbital fat in a patient with orbital venous malformation: A case report
	Yang LD, Xu SQ, Wang YF, Jia RB
11029	Pulmonary Langerhans cell histiocytosis and multiple system involvement: A case report
	Luo L, Li YX
11036	Complete androgen insensitivity syndrome caused by the c.2678C>T mutation in the androgen receptor gene: A case report
	Wang KN, Chen QQ, Zhu YL, Wang CL
11043	Ultrasound guiding the rapid diagnosis and treatment of perioperative pneumothorax: A case report
	Zhang G, Huang XY, Zhang L
11050	Chronic colchicine poisoning with neuromyopathy, gastric ulcers and myelosuppression in a gout patient: A case report
	Li MM, Teng J, Wang Y
11056	Treatment of a giant low-grade appendiceal mucinous neoplasm: A case report
	Xu R, Yang ZL
11061	Thoracoscopic resection of a large lower esophageal schwannoma: A case report and review of the literature
	Wang TY, Wang BL, Wang FR, Jing MY, Zhang LD, Zhang DK
11071	Signet ring cell carcinoma hidden beneath large pedunculated colorectal polyp: A case report
	Yan JN, Shao YF, Ye GL, Ding Y
11078	Double-mutant invasive mucinous adenocarcinoma of the lung in a 32-year-old male patient: A case report
	Wang T
11085	Acute myocarditis presenting as accelerated junctional rhythm in Graves' disease: A case report
	Li MM, Liu WS, Shan RC, Teng J, Wang Y
11095	Lingual nerve injury caused by laryngeal mask airway during percutaneous nephrolithotomy: A case report
	Wang ZY, Liu WZ, Wang FQ, Chen YZ, Huang T, Yuan HS, Cheng Y



Contor	World Journal of Clinical Cases
Conter	Thrice Monthly Volume 9 Number 35 December 16, 2021
11102	Ventricular fibrillation and sudden cardiac arrest in apical hypertrophic cardiomyopathy: Two case reports
	Park YM, Jang AY, Chung WJ, Han SH, Semsarian C, Choi IS
11108	<i>Rhizopus microsporus</i> lung infection in an immunocompetent patient successfully treated with amphotericin B: A case report
	Chen L, Su Y, Xiong XZ
11115	Spermatocytic tumor: A rare case report
	Hao ML, Li CH



#### Contents

Thrice Monthly Volume 9 Number 35 December 16, 2021

#### **ABOUT COVER**

Editorial Board Member of World Journal of Clinical Cases, Luca Morelli, FACS, FASCRS, MD, Associate Professor, Division of General Surgery, Department of Traslational Research and of New Surgical and Medical Technologies, University of Pisa, Pisa 56124, Italy. luca.morelli@unipi.it

#### **AIMS AND SCOPE**

The primary aim of World Journal of Clinical Cases (WJCC, World J Clin Cases) is to provide scholars and readers from various fields of clinical medicine with a platform to publish high-quality clinical research articles and communicate their research findings online.

WJCC mainly publishes articles reporting research results and findings obtained in the field of clinical medicine and covering a wide range of topics, including case control studies, retrospective cohort studies, retrospective studies, clinical trials studies, observational studies, prospective studies, randomized controlled trials, randomized clinical trials, systematic reviews, meta-analysis, and case reports.

#### **INDEXING/ABSTRACTING**

The WJCC is now indexed in Science Citation Index Expanded (also known as SciSearch®), Journal Citation Reports/Science Edition, Scopus, PubMed, and PubMed Central. The 2021 Edition of Journal Citation Reports® cites the 2020 impact factor (IF) for WJCC as 1.337; IF without journal self cites: 1.301; 5-year IF: 1.742; Journal Citation Indicator: 0.33; Ranking: 119 among 169 journals in medicine, general and internal; and Quartile category: Q3. The WJCC's CiteScore for 2020 is 0.8 and Scopus CiteScore rank 2020: General Medicine is 493/793.

#### **RESPONSIBLE EDITORS FOR THIS ISSUE**

Production Editor: Jia-Hui Li; Production Department Director: Xiang Li; Editorial Office Director: Jin-Lei Wang,

NAME OF JOURNAL	INSTRUCTIONS TO AUTHORS
World Journal of Clinical Cases	https://www.wjgnet.com/bpg/gerinfo/204
<b>ISSN</b>	GUIDELINES FOR ETHICS DOCUMENTS
ISSN 2307-8960 (online)	https://www.wjgnet.com/bpg/GerInfo/287
LAUNCH DATE	GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH
April 16, 2013	https://www.wignet.com/bpg/gerinfo/240
FREQUENCY	PUBLICATION ETHICS
Thrice Monthly	https://www.wjgnet.com/bpg/GerInfo/288
<b>EDITORS-IN-CHIEF</b>	PUBLICATION MISCONDUCT
Dennis A Bloomfield, Sandro Vento, Bao-Gan Peng	https://www.wjgnet.com/bpg/gerinfo/208
EDITORIAL BOARD MEMBERS	ARTICLE PROCESSING CHARGE
https://www.wjgnet.com/2307-8960/editorialboard.htm	https://www.wjgnet.com/bpg/gerinfo/242
PUBLICATION DATE December 16, 2021	<b>STEPS FOR SUBMITTING MANUSCRIPTS</b> https://www.wjgnet.com/bpg/GerInfo/239
COPYRIGHT	ONLINE SUBMISSION
© 2021 Baishideng Publishing Group Inc	https://www.f6publishing.com

© 2021 Baishideng Publishing Group Inc. All rights reserved. 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA E-mail: bpgoffice@wjgnet.com https://www.wjgnet.com



W J C C World Journal Clinical Cases

# World Journal of

Submit a Manuscript: https://www.f6publishing.com

World J Clin Cases 2021 December 16; 9(35): 11071-11077

DOI: 10.12998/wjcc.v9.i35.11071

ISSN 2307-8960 (online)

CASE REPORT

## Signet ring cell carcinoma hidden beneath large pedunculated colorectal polyp: A case report

Jia-Ning Yan, Yong-Fu Shao, Guo-Liang Ye, Yong Ding

ORCID number: Jia-Ning Yan 0000-0002-8781-9021; Yong-Fu Shao 0000-0001-6256-1426; Guo-Liang Ye 0000-0003-0600-9981; Yong Ding 0000-0003-2697-560X.

Author contributions: Ye GL and Ding Y were the operators of the patient's colonoscopy; Yan JN interpreted the findings, reviewed the literature and contributed to manuscript drafting; Shao YF was responsible for the revision of the manuscript for important intellectual content; all authors issued final approval for the version to be submitted.

#### Informed consent statement:

Informed written consent was obtained from the patient for publication of this report and any accompanying images.

Conflict-of-interest statement: The authors declare that they have no conflicts of interest.

#### CARE Checklist (2016) statement:

The authors have read the CARE Checklist (2016), and the manuscript was prepared and revised according to the CARE Checklist (2016).

Supported by the National Natural Science Foundation of China, No. 81702367; and the Science and Technology Development Funds of Ningbo of China (Normal

Jia-Ning Yan, Yong-Fu Shao, Guo-Liang Ye, Yong Ding, Department of Gastroenterology, The Affiliated Hospital of Medical School of Ningbo University, Ningbo 315020, Zhejiang Province, China

Corresponding author: Yong Ding, PhD, Academic Fellow, Chief Doctor, Chief Physician, Department of Gastroenterology, The Affiliated Hospital of Medical School of Ningbo University, No. 247 Renming Road, Ningbo 315020, Zhejiang Province, China. dingy135@126.com

#### Abstract

#### BACKGROUND

Large pedunculated colorectal polyps are not frequent among colonic polyps. We present a clinical case of a large pedunculated colorectal polyp with signet ring cell cancer infiltrating the submucosa and lymph node invasion in a patient who ultimately underwent additional surgery. Clinicians should attach importance to pedunculated colorectal polyps and choose the most appropriate therapy.

#### CASE SUMMARY

A 52-year-old female farmer underwent routine screening colonoscopy and denied constipation, diarrhea, hematochezia, or other gastrointestinal symptoms. Her past medical history and general biochemical examination results were unremarkable. During the colonoscopy, a 25-mm pedunculated polyp in the sigmoid colon was identified. The superficial epithelium was macroscopically congestive, rough, and granular, showing characteristic features of adenoma. We first ligated the root of the pedunculated polyp using nylon loops as well as a titanium clip. Histopathological examination revealed high-grade intraepithelial neoplasia of the tumor surface and a negative margin with signet ring cell adenocarcinoma infiltrating the submucosal layer. The deepest infiltration was approximately 0.9 cm from the tumor surface and 0.55 cm from the stratum basale. We performed radical resection of the left colon with lymph node dissection after two weeks. The lesion was completely resected, and pathological assessment revealed signet ring cell adenocarcinoma infiltrating the submucosal layer as well as lymph node invasion (stage PT1N1M0 and grade IIIA in pathological grading, NRAS-, BRAF V600E-, KRAS-).

#### **CONCLUSION**

This case highlights the importance of paying attention to the malignancy of large pedunculated polyps. Polyps or adenomas removed via endoscopy must be



Program), No. 2020F028.

Country/Territory of origin: China

Specialty type: Gastroenterology and hepatology

#### Provenance and peer review:

Unsolicited article; Externally peer reviewed

#### Peer-review report's scientific quality classification

Grade A (Excellent): 0 Grade B (Very good): B Grade C (Good): C Grade D (Fair): 0 Grade E (Poor): 0

Open-Access: This article is an open-access article that was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution NonCommercial (CC BY-NC 4.0) license, which permits others to distribute, remix, adapt, build upon this work non-commercially, and license their derivative works on different terms, provided the original work is properly cited and the use is non-commercial. See: htt p://creativecommons.org/License s/by-nc/4.0/

Received: June 29, 2021 Peer-review started: June 29, 2021 First decision: July 26, 2021 Revised: July 28, 2021 Accepted: October 25, 2021 Article in press: October 25, 2021 Published online: December 16, 2021

P-Reviewer: Hasan A, Tadros M S-Editor: Wu YXI L-Editor: A P-Editor: Wu YXJ



evaluated histologically. Even if adenomas may be fragile, endoscopy doctors should still remove polyps as completely as possible and choose perpendicular sections through the stalk and base to fix by formaldehyde solution.

Key Words: Signet ring cell carcinoma; Colorectal cancer; Pedunculated colorectal polyp; Surgery; Pathology; Case report

©The Author(s) 2021. Published by Baishideng Publishing Group Inc. All rights reserved.

**Core Tip:** Pedunculated polyp itself is considered to have a low degree of malignancy. Herein, we present a rare case of a large pedunculated polyp that contains signet ring cells and infiltrates the submucosal layer. This case highlights the malignancy of pedunculated polyps, and even if adenomas may be fragile, endoscopy doctors should still remove polyps as completely as possible and choose perpendicular sections through the stalk and base for fixation.

Citation: Yan JN, Shao YF, Ye GL, Ding Y. Signet ring cell carcinoma hidden beneath large pedunculated colorectal polyp: A case report. World J Clin Cases 2021; 9(35): 11071-11077 URL: https://www.wjgnet.com/2307-8960/full/v9/i35/11071.htm DOI: https://dx.doi.org/10.12998/wjcc.v9.i35.11071

#### INTRODUCTION

Colorectal cancer (CRC) is the third most common malignant tumor worldwide, most of which develop from polyps, and the transition of polyps to carcinoma is a vital process in CRC development[1]. Large pedunculated polyps are polyps  $\geq$  10 mm in head diameter, and the degree of malignancy is always low[2]. Herein, we present a clinical report of a patient with signet ring cell colorectal adenocarcinoma in a long pedunculated colorectal polyp that is easily confused with benign polyps.

#### CASE PRESENTATION

#### Chief complaints

A 52-year-old female farmer underwent routine screening colonoscopy at our hospital.

#### History of present illness

She denied constipation, diarrhea, hematochezia, or other gastrointestinal symptoms.

#### History of past illness

The patient's previous medical history was uneventful.

#### Personal and family history

The patient and her family members had no previous episodes of similar diseases.

#### Physical examination

Her pulse rate, blood pressure, and respiratory rhythm were normal. No scleroma was observed on anal finger examination, and no positive nervous system signs were observed on physical examination.

#### Laboratory examinations

The general biochemical examinations were unremarkable.

#### Imaging examinations

Contrast-enhanced CT scans of the abdomen showed no specific abnormalities in the left colon in Figure 1. During colonoscopy, a 25-mm pedunculated polyp was identified in the sigmoid colon. The superficial epithelium was macroscopically





#### Figure 1 Contrast-enhanced computed tomography scans of the abdomen showed no specific abnormalities in the left colon.

congestive, rough, and granular, showing characteristic features of adenoma (Figure 2).

#### HISTOLOGICAL EXAMINATION

Histopathological examination showed high-grade intraepithelial neoplasia of the tumor surface and a negative margin, but a signet ring cell adenocarcinoma was found to infiltrate the submucosal layer of the first biopsy during colonoscopy. The deepest infiltration was approximately 0.9 cm from the tumor surface and 0.55 cm from the stratum basale (Figure 3A and B).

The second histopathological examination after operation showed signet ring cell adenocarcinoma infiltrating the submucosal layer as well as lymph node invasion (stage PT1N1M0 and grade IIIA in pathological grading, NRAS-, BRAF V600E-, KRAS-) (Figure 3C and D).

#### FINAL DIAGNOSIS

The final diagnosis was signet ring cell adenocarcinoma (stage PT1N1M0 and grade IIIA in pathological grading, NRAS-, BRAF V600E-, KRAS-).

#### TREATMENT

We first ligated the root of the pedunculated polyp using nylon loops as well as a titanium clip and then performed polypectomy using a snare and fixed it at once (Figure 2D). The patient had a definite surgical indication and required additional surgery. We performed radical resection of the left colon with lymph node dissection after two weeks. This patient subsequently received a chemotherapy regimen with XELOX.

#### **OUTCOME AND FOLLOW-UP**

The patient was referred to the oncology department for the assessment of chemotherapy. The xelox chemotherapy regimen was well tolerated and established 8 times.

#### DISCUSSION

The incidence of signet ring cell carcinoma in the colon and rectum is low; most cases are usually detected only at an advanced stage[3]. Meanwhile, it is difficult to identify



Yan JN et al. Signet ring beneath pedunculated colorectal polyp

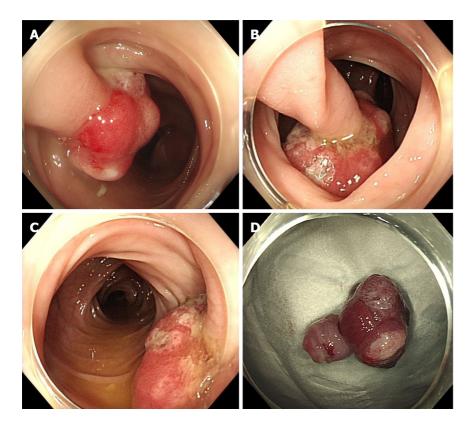


Figure 2 Multiangle photographs of the pedunculated polyp under colonoscopy. A-C: The pedunculated polyp shows the characteristic features of adenoma with unclear surface pattern; D: The pedunculated polyp was resected under colonoscopy.

the pit pattern because signet ring cell carcinoma produces a large amount of mucus, and the structure of the pits is always destroyed[4]. Recent studies have shown that signet ring cell adenocarcinoma is more frequently found in men in the left-sided colon with a more advanced tumor-node-metastasis stage and worse outcomes than in women; the median overall survival in patients with stage IV disease was found to be 14 mo, which was much shorter than the 23.4 mo at the same stage[5]. To the best of our knowledge, this is the first report of signet ring cell carcinoma with such a large pedunculated polyp.

It has been revealed that the incidence of carcinoma in flat and depressed lesions is higher than that in pedunculated polyps, and few studies have focused on the strategy for pedunculated polyps[6]. Although pedunculated polyps are generally considered to pose a lower risk of lymph node metastases, it is necessary to ascertain the distinction between the head and stalk in pedunculated polyps. The depth of invasion of the stalk is critical for estimating lymph node invasion, formulating therapeutic schemes, and determining distal prognosis. Factors such as the depth of submucosal invasion (SM invasion depth) and histological type (differentiated adenocarcinoma, signetring cell carcinoma) have been reported to be risk factors for regional lymph node metastasis in pT1 (SM) carcinoma[7]. It has been suggested that the long stalk may play a protective role and suppress the invasive progression of malignant cells because sessile polyps are closer, hence facilitating infiltration, but this has not been proven[2]. Haggitt et al[8] proposed a new method to distinguish the level of invasion in a pedunculated malignant polyp and summarized the methods as follows: Level 1, invasive adenocarcinoma limited to the polyp head; Level 2, neck involvement; Level 3, carcinoma cells in the stalk; and Level 4, carcinoma cells infiltrating the submucosa at the level of the adjacent bowel wall, in which levels less than 4 indicate a low risk of metastasis. The European Society of Gastrointestinal Endoscopy 2015 guidelines advocate using the Haggitt classification for pedunculated polyps, and the Japanese Society for Cancer of the Colon and Rectum 2016 guidelines suggest measuring from the Haggitt line only in pedunculated lesions[9,10]. The Japanese Society for Cancer of the Colon and Rectum 2019 indicates that the lymph node metastasis rate in patients with a depth of invasion of 1000 µm or greater is 12.5% [11]. Emerging cases have revealed associations among the Haggitt level, lymph node invasion risk, and longterm prognosis[12,13]. However, we could not define the Haggitt line clearly because in this case, the stem base and long, large stalk were smooth, lacking the typical



WJCC | https://www.wjgnet.com

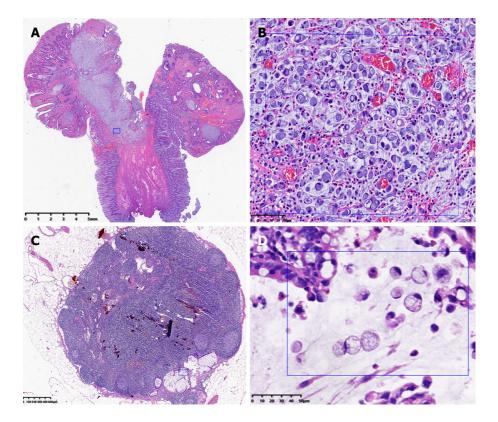


Figure 3 The pathologic results for pedunculated polyps and lymph nodes. A: The tumor was composed of signet ring cell carcinoma (dark rectangle, hematoxylin and eosin: 0.52 ×); B: The pathologic result in the rectangle clearly showed that the signet ring cells infiltrated the submucosa (hematoxylin and eosin: 40 ×); C: The lymph node was invaded by signet ring cell adenocarcinoma (blue rectangle, hematoxylin and eosin: 1.32 ×); D: The pathologic result in the rectangle clearly showed that the signet ring cells invaded a lymph node (hematoxylin and eosin: 40 ×).

characteristics of adenoma, such as swelling mucous and an unstructured or excavated surface according to Kudo's pit pattern classification[14]. Finally, we ensured that the Haggitt level was 4; this theory still deserves further study in larger patient cohorts for validation.

The principle of pT1 carcinoma treatment is intestinal resection with lymph node dissection. We refer to the treatment strategies for cTis and cT1 colorectal cancer from the Japanese Society for Cancer of the Colon and Rectum Guidelines shown in Figure 4 [11]. In the present case, the lesion was obscure, hidden, and easy to overlook. Fortunately, our ligation position and polypectomy were thorough, and the deep lesion was suitable for surgery (depth of SM invasion  $\geq$  1000 µm and signet ring cell carcinoma)[11].

Polyps or adenomas removed *via* endoscopy must be sent for histopathology examination to be carefully evaluated by the pathologists keeping in their minds the possibility of underlying malignancy in a benign looking lesion, they should examine the lesion from the muscularis mucosae to the submucosa and describe the position precisely as well[15,16].

#### CONCLUSION

This case highlights the importance of paying attention to malignancy of large pedunculated polyps. Polyps or adenomas removed *via* endoscopy must be evaluated histologically. Even if adenomas may be fragile, endoscopy doctors should still remove polyps as completely as possible and choose perpendicular sections through the stalk and base to fix by formaldehyde solution.

WJCC | https://www.wjgnet.com

Yan JN et al. Signet ring beneath pedunculated colorectal polyp

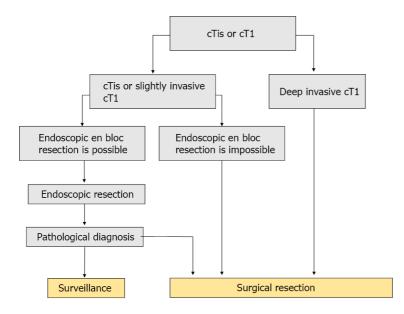


Figure 4 The treatment strategies for cTis and cT1 colorectal cancer from the Japanese Society for Cancer of the Colon and Rectum Guidelines

#### ACKNOWLEDGEMENTS

We are grateful to our colleagues from the Department of Imaging, Laboratory, Pathology, and Infection for providing diagnostic and therapeutic assistance.

#### REFERENCES

- Sung H, Ferlay J, Siegel RL, Laversanne M, Soerjomataram I, Jemal A, Bray F. Global Cancer 1 Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. CA Cancer J Clin 2021; 71: 209-249 [PMID: 33538338 DOI: 10.3322/caac.21660]
- Ciocalteu A, Gheonea DI, Saftoiu A, Streba L, Dragoescu NA, Tenea-Cojan TS. Current strategies for malignant pedunculated colorectal polyps. World J Gastrointest Oncol 2018; 10: 465-475 [PMID: 30595800 DOI: 10.4251/wjgo.v10.i12.465]
- 3 Ohnita K, Isomoto H, Akashi T, Hashiguchi K, Matsushima K, Minami H, Akazawa Y, Yamaguchi N, Takeshima F, To K, Takeshita H, Yasui H, Abe K, Nakao K. Early stage signet ring cell carcinoma of the colon examined by magnifying endoscopy with narrow-band imaging: a case report. BMC Gastroenterol 2015; 15: 86 [PMID: 26205810 DOI: 10.1186/s12876-015-0317-z]
- 4 Fu KI, Sano Y, Kato S, Saito H, Ochiai A, Fujimori T, Saito Y, Matsuda T, Fujii T, Yoshida S. Primary signet-ring cell carcinoma of the colon at early stage: a case report and a review of the literature. World J Gastroenterol 2006; 12: 3446-3449 [PMID: 16733868 DOI: 10.3748/wjg.v12.i21.3446]
- 5 Wei Q, Wang X, Gao J, Li J, Qi C, Li Y, Li Z, Shen L. Clinicopathologic and Molecular Features of Colorectal Adenocarcinoma with Signet-Ring Cell Component. PLoS One 2016; 11: e0156659 [PMID: 27300552 DOI: 10.1371/journal.pone.0156659]
- 6 Kudo S. Endoscopic mucosal resection of flat and depressed types of early colorectal cancer. Endoscopy 1993; 25: 455-461 [PMID: 8261988 DOI: 10.1055/s-2007-1010367]
- 7 Ueno H, Mochizuki H, Hashiguchi Y, Shimazaki H, Aida S, Hase K, Matsukuma S, Kanai T, Kurihara H, Ozawa K, Yoshimura K, Bekku S. Risk factors for an adverse outcome in early invasive colorectal carcinoma. Gastroenterology 2004; 127: 385-394 [PMID: 15300569 DOI: 10.1053/j.gastro.2004.04.022]
- Haggitt RC, Glotzbach RE, Soffer EE, Wruble LD. Prognostic factors in colorectal carcinomas arising in adenomas: implications for lesions removed by endoscopic polypectomy. Gastroenterology 1985; 89: 328-336 [PMID: 4007423 DOI: 10.1016/0016-5085(85)90333-6]
- 9 Pimentel-Nunes P, Dinis-Ribeiro M, Ponchon T, Repici A, Vieth M, De Ceglie A, Amato A, Berr F, Bhandari P, Bialek A, Conio M, Haringsma J, Langner C, Meisner S, Messmann H, Morino M, Neuhaus H, Piessevaux H, Rugge M, Saunders BP, Robaszkiewicz M, Seewald S, Kashin S, Dumonceau JM, Hassan C, Deprez PH. Endoscopic submucosal dissection: European Society of Gastrointestinal Endoscopy (ESGE) Guideline. Endoscopy 2015; 47: 829-854 [PMID: 26317585 DOI: 10.1055/s-0034-1392882]
- 10 Watanabe T, Muro K, Ajioka Y, Hashiguchi Y, Ito Y, Saito Y, Hamaguchi T, Ishida H, Ishiguro M, Ishihara S, Kanemitsu Y, Kawano H, Kinugasa Y, Kokudo N, Murofushi K, Nakajima T, Oka S,



Sakai Y, Tsuji A, Uehara K, Ueno H, Yamazaki K, Yoshida M, Yoshino T, Boku N, Fujimori T, Itabashi M, Koinuma N, Morita T, Nishimura G, Sakata Y, Shimada Y, Takahashi K, Tanaka S, Tsuruta O, Yamaguchi T, Yamaguchi N, Tanaka T, Kotake K, Sugihara K; Japanese Society for Cancer of the Colon and Rectum. Japanese Society for Cancer of the Colon and Rectum (JSCCR) guidelines 2016 for the treatment of colorectal cancer. Int J Clin Oncol 2018; 23: 1-34 [PMID: 28349281 DOI: 10.1007/s10147-017-1101-6]

- 11 Hashiguchi Y, Muro K, Saito Y, Ito Y, Ajioka Y, Hamaguchi T, Hasegawa K, Hotta K, Ishida H, Ishiguro M, Ishihara S, Kanemitsu Y, Kinugasa Y, Murofushi K, Nakajima TE, Oka S, Tanaka T, Taniguchi H, Tsuji A, Uehara K, Ueno H, Yamanaka T, Yamazaki K, Yoshida M, Yoshino T, Itabashi M, Sakamaki K, Sano K, Shimada Y, Tanaka S, Uetake H, Yamaguchi S, Yamaguchi N, Kobayashi H, Matsuda K, Kotake K, Sugihara K; Japanese Society for Cancer of the Colon and Rectum. Japanese Society for Cancer of the Colon and Rectum (JSCCR) guidelines 2019 for the treatment of colorectal cancer. Int J Clin Oncol 2020; 25: 1-42 [PMID: 31203527 DOI: 10.1007/s10147-019-01485-z]
- 12 Matsuda T, Fukuzawa M, Uraoka T, Nishi M, Yamaguchi Y, Kobayashi N, Ikematsu H, Saito Y, Nakajima T, Fujii T, Murakami Y, Shimoda T, Kushima R, Fujimori T. Risk of lymph node metastasis in patients with pedunculated type early invasive colorectal cancer: a retrospective multicenter study. Cancer Sci 2011; 102: 1693-1697 [PMID: 21627735 DOI: 10.1111/j.1349-7006.2011.01997.x]
- 13 de Freitas Pinheiro N Junior, da Silva NDF. Diverging Ways of Determining Depth of Invasion in Pedunculated pT1 Colon Carcinomas. Arch Pathol Lab Med 2020; 144: 671 [PMID: 32459531 DOI: 10.5858/arpa.2019-0568-LE]
- 14 Park W, Kim B, Park SJ, Cheon JH, Kim TI, Kim WH, Hong SP. Conventional endoscopic features are not sufficient to differentiate small, early colorectal cancer. World J Gastroenterol 2014; 20: 6586-6593 [PMID: 24914381 DOI: 10.3748/wjg.v20.i21.6586]
- 15 Kang SH, Chung WS, Hyun CL, Moon HS, Lee ES, Kim SH, Sung JK, Lee BS, Jeong HY. A rare case of a signet ring cell carcinoma of the colon mimicking a juvenile polyp. Gut Liver 2012; 6: 129-131 [PMID: 22375184 DOI: 10.5009/gnl.2012.6.1.129]
- 16 Hasan A, Nafie K, Aldossary MY, Ismail A, Monazea K, Baheeg M, Rady K, Elhawary R, Ibrahim AA. Unexpected histopathology results following routine examination of cholecystectomy specimens: How big and how significant? Ann Med Surg (Lond) 2020; 60: 425-430 [PMID: 33251000 DOI: 10.1016/j.amsu.2020.11.019]



WJCC | https://www.wjgnet.com



### Published by Baishideng Publishing Group Inc 7041 Koll Center Parkway, Suite 160, Pleasanton, CA 94566, USA Telephone: +1-925-3991568 E-mail: bpgoffice@wjgnet.com Help Desk: https://www.f6publishing.com/helpdesk https://www.wjgnet.com

