

# World Journal of *Gastrointestinal Endoscopy*

*World J Gastrointest Endosc* 2019 January 16; 11(1): 1-67





### EDITORIAL

- 1 Routine surveillance endoscopy before and after sleeve gastrectomy?  
*Kassir R, Kassir R, Deparseval B, Bekkar S, Serayssol C, Favre O, Garnier PP*

### REVIEW

- 5 Difficult biliary cannulation: Historical perspective, practical updates, and guide for the endoscopist  
*Berry R, Han JY, Tabibian JH*

### MINIREVIEWS

- 22 Pancreatography: An update  
*De Luca L, Repici A, Koçollari A, Auriemma F, Bianchetti M, Mangiavillano B*
- 31 Role of digital single-operator cholangioscopy in the diagnosis and treatment of biliary disorders  
*Karagyzov P, Boeva I, Tishkov I*

### ORIGINAL ARTICLE

#### Retrospective Study

- 41 Early *vs* late endoscopic retrograde cholangiopancreatography in patients with acute cholangitis: A nationwide analysis  
*Mulki R, Shah R, Qayed E*

### CASE REPORT

- 54 Truth lies below: A case report and literature review of typical appearing polyps yet with an atypical diagnosis  
*Fisher A, Yousif E, Piper M*
- 61 Tertiary stent-in-stent for obstructing colorectal cancer: A case report and literature review  
*Vanella G, Coluccio C, Di Giulio E, Assisi D, Lapenta R*

**ABOUT COVER**

Editor-in-Chief of *World Journal of Gastrointestinal Endoscopy*, Bing Hu, MD, Professor, Department of Gastroenterology, West China Hospital, Sichuan University, Chengdu 610041, Sichuan Province, China

**AIMS AND SCOPE**

*World Journal of Gastrointestinal Endoscopy* (*World J Gastrointest Endosc*, *WJGE*, online ISSN 1948-5190, DOI: 10.4253) is a peer-reviewed open access (OA) academic journal that aims to guide clinical practice and improve diagnostic and therapeutic skills of clinicians.

*WJGE* covers topics concerning gastroscopy, intestinal endoscopy, colonoscopy, capsule endoscopy, laparoscopy, interventional diagnosis and therapy, as well as advances in technology. Emphasis is placed on the clinical practice of treating gastrointestinal diseases with or under endoscopy.

We encourage authors to submit their manuscripts to *WJGE*. We will give priority to manuscripts that are supported by major national and international foundations and those that are of great clinical significance.

**INDEXING/ABSTRACTING**

*World Journal of Gastrointestinal Endoscopy* (*WJGE*) is now abstracted and indexed in Emerging Sources Citation Index (Web of Science), PubMed, PubMed Central, China National Knowledge Infrastructure (CNKI), and Superstar Journals Database.

**RESPONSIBLE EDITORS  
FOR THIS ISSUE**

Responsible Electronic Editor: Han Song

Proofing Editorial Office Director: Jin-Lei Wang

**NAME OF JOURNAL**

*World Journal of Gastrointestinal Endoscopy*

**ISSN**

ISSN 1948-5190 (online)

**LAUNCH DATE**

October 15, 2009

**FREQUENCY**

Monthly

**EDITORS-IN-CHIEF**

Bing Hu, Anastasios Koulaouzidis, Sang Chul Lee

**EDITORIAL BOARD MEMBERS**

<https://www.wjgnet.com/1948-5190/editorialboard.htm>

**EDITORIAL OFFICE**

Jin-Lei Wang, Director

**PUBLICATION DATE**

January 16, 2019

**COPYRIGHT**

© 2019 Baishideng Publishing Group Inc

**INSTRUCTIONS TO AUTHORS**

<https://www.wjgnet.com/bpg/gerinfo/204>

**GUIDELINES FOR ETHICS DOCUMENTS**

<https://www.wjgnet.com/bpg/GerInfo/287>

**GUIDELINES FOR NON-NATIVE SPEAKERS OF ENGLISH**

<https://www.wjgnet.com/bpg/gerinfo/240>

**PUBLICATION MISCONDUCT**

<https://www.wjgnet.com/bpg/gerinfo/208>

**ARTICLE PROCESSING CHARGE**

<https://www.wjgnet.com/bpg/gerinfo/242>

**STEPS FOR SUBMITTING MANUSCRIPTS**

<https://www.wjgnet.com/bpg/GerInfo/239>

**ONLINE SUBMISSION**

<https://www.f6publishing.com>

## Truth lies below: A case report and literature review of typical appearing polyps yet with an atypical diagnosis

Aaron Fisher, Edward Yousif, Marc Piper

**ORCID number:** Aaron Fisher (0000-0001-8905-2306); Marc Piper (0000-0003-1180-6221); Edward Yousif (0000-0002-5003-3922).

**Author contributions:** Fisher A wrote and edited the manuscript; Yousif E and Piper M edited the manuscript; Fisher A is the article guarantor.

**Informed consent statement:** Informed consent was obtained from the patient.

**Conflict-of-interest statement:** Dr. Aaron Fisher, Edward Yousif, and Marc Piper have no relevant conflicts of interest to disclose.

**CARE Checklist (2016) statement:** Information for writing case report has been adopted.

**Open-Access:** This article is an open-access article which was selected by an in-house editor and fully peer-reviewed by external reviewers. It is distributed in accordance with the Creative Commons Attribution Non Commercial (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: <http://creativecommons.org/licenses/by-nc/4.0/>

**Manuscript source:** Unsolicited manuscript

**Received:** November 20, 2018

**Peer-review started:** November 20,

**Aaron Fisher,** Department of Internal Medicine, University of Michigan Medical School, Ann Arbor, MI 48109, United States

**Edward Yousif, Marc Piper,** Department of Internal Medicine, Division of Gastroenterology, Providence-Providence Park Hospital, Michigan State University College of Human Medicine, Southfield, MI 48075, United States

**Corresponding author:** Aaron Fisher, DO, Doctor, Hospitalist, Department of Internal Medicine, University of Michigan Medical School, F4323 UH South Unit 4, 1500 E Medical Center 5220, Ann Arbor, MI 48109, United States. [aaronsethfisher@gmail.com](mailto:aaronsethfisher@gmail.com)

**Telephone:** +1-734-9365582

**Fax:** +1-734-6479443

### Abstract

#### BACKGROUND

Enteropathy associated T-cell lymphoma (EATL) is a rare form of peripheral T-cell lymphoma and makes up less than 5% of gastrointestinal lymphomas. EATL can be divided into type 1 which is associated with celiac disease, and monomorphic epitheliotropic intestinal T-cell lymphoma (MEITL), formally type 2, which is not associated with celiac disease.

#### CASE SUMMARY

We present a 60-year-old African American female, without celiac disease, who presented with abdominal pain, diarrhea, and 30 lb. weight loss over a 3 month period. She was subsequently diagnosed with EATL throughout her entire gastrointestinal tract. She is currently undergoing chemotherapy with EPOCH (Etoposide, Oncovin, Cyclophosphamide, and Hydroxydaunorubicin). EATL is most common in the Asian and Hispanic population yet the incidence in African Americans is uncertain and emphasizes the rarity of this case. A literature review was included to further emphasize similarities and differences between our case and previously reported cases of MEITL.

#### CONCLUSION

The patient was diagnosed with EATL, immunochemical testing was not conclusive for MEITL however was suggestive of the disease.

**Key words:** Enteropathy associated T-cell lymphoma; Monomorphic epitheliotropic intestinal T-cell lymphoma; Peripheral T-cell lymphoma; Gastrointestinal lymphoma; Endoscopy; Case report; Literature review

2018

First decision: December 9, 2018

Revised: December 27, 2018

Accepted: January 8, 2019

Article in press: January 8, 2019

Published online: January 16, 2019

©The Author(s) 2019. Published by Baishideng Publishing Group Inc. All rights reserved.

**Core Tip:** The purpose of this case is to highlight an unusual presentation and demographic of monomorphic epitheliotropic intestinal T-cell lymphoma (MEITL). A comprehensive literature review of MEITL is included in the case to further emphasize similarities and differences between our case and previously reported cases of MEITL.

**Citation:** Fisher A, Yousif E, Piper M. Truth lies below: A case report and literature review of typical appearing polyps yet with an atypical diagnosis. *World J Gastrointest Endosc* 2019; 11(1): 54-60

**URL:** <https://www.wjgnet.com/1948-5190/full/v11/i1/54.htm>

**DOI:** <https://dx.doi.org/10.4253/wjge.v11.i1.54>

## INTRODUCTION

Peripheral T-cell lymphoma (PTCL) is a small subset of aggressive non-Hodgkin lymphomas (NHL)<sup>[1]</sup>. One of the rarer entities of PTCL is enteropathy associated T-cell lymphoma (EATL). In general, EATL is diagnosed upon immunophenotype of small intestine biopsy and is only associated with approximately 5% of gastrointestinal (GI) lymphomas and less than 1% of NHL<sup>[2]</sup>. EATL is most commonly found in adult populations with a high incidence of celiac disease<sup>[3]</sup>. However, EATL can be divided into type 1 disease, which is associated with celiac disease, and monomorphic epitheliotropic intestinal T-cell lymphoma (MEITL), formally type 2, which is not associated with celiac disease<sup>[1]</sup>. MEITL is unique upon its immunophenotypic features compared to type 1 EATL<sup>[4]</sup> and has a higher incidence in Asian and Hispanic populations<sup>[5]</sup>. Ideal treatment of EATL consist of combination chemotherapy and hematopoietic cell transplantation (HCT)<sup>[6]</sup>. Here we present a unique case of EATL, in an African American patient without celiac disease.

## CASE PRESENTATION

### Chief complaints

A 60-yr-old African American female with a remote medical history of breast cancer, status post double mastectomy, presented with 1 wk of bilateral lower abdominal pain that was associated with diarrhea, early satiety, and a 30 lb. weight loss (over 3 mo).

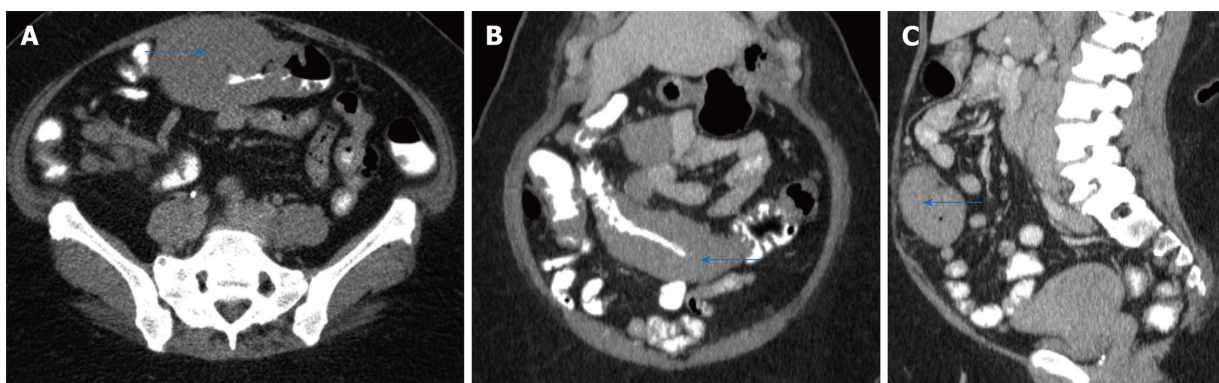
### Diagnostic evaluation

A computed tomography (CT) scan revealed a large circumferential mass involving the transverse colon which extended approximately 14 cm in length (Figure 1 A, B, and C). On physical exam, her vitals were stable. Her abdominal exam was soft and non-distended, with mild pain to palpation to her lower abdomen. Her laboratory work-up was notable for a mild leukocytosis (white blood count 13.4 bil/L, hemoglobin 15.7 g/dL, platelets 404 bil/L), hyponatremia and acute kidney injury (sodium 123 mmol/L and creatinine 2.52 mg/dL (baseline creatinine was normal)). Her liver function tests (including albumin and protein level), lactic acid, lipase, infectious stool studies (*i.e.*, *Clostridium difficile* infection, ova and parasites, Shiga toxin producing *Escherichia coli*, *Salmonella*, *Shigella*, *Campylobacter*, or *Escherichia coli* O157) were all normal.

She underwent an esophagogastroduodenoscopy (EGD) and colonoscopy. EGD was notable for non-erosive gastropathy and normal appearing duodenum for which biopsies were obtained. Colonoscopy was notable for nodular ileal and colonic mucosa with multiple colonic polyps (Figure 2). In addition, she had a 15 cm malignant appearing stricture in the transverse colon (Figure 3). The largest colonic polyp was approximately 2.5 cm in her rectum (Figure 4). Pathology results of her stomach, duodenum, terminal ileum, colon, transverse stricture and all of her colonic polyps were notable for MEITL (Figure 5). There was no evidence of celiac disease on duodenal biopsy. There was no evidence of adenocarcinoma throughout her colon.

For the patient's newly diagnosed high grade EATL, she underwent staging bone marrow biopsy and positron emission tomography (PET)/CT scan. Bone marrow biopsy was without overt morphologic or flow cytometry evidence of T-cell





**Figure 1** Computed tomography scan revealed a large circumferential mass involving the transverse colon which extended approximately 14 cm in length (arrows). A: Axial; B: Coronal; C: Transverse.

lymphoma or metastatic malignancy. PET/CT scan with abnormal F-18 fluorodeoxyglucose (FDG) activity associated with the transverse colonic mass, mesenteric lymphadenopathy, focal uptake within the rectum, intense uptake throughout the bone marrow, and portions of the spleen.

The patient was started on chemotherapy with EPOCH (Etoposide, Oncovin, Cyclophosphamide, and Hydroxydaunorubicin). She was not a candidate for HCT given her functional status. Unfortunately, despite her aggressive chemotherapy regimen, her disease persisted. At her 6-month follow-up, her repeat PET/CT scan with abnormal FDG activity associated with the transverse colon and rectum. Repeat colonoscopy noted a large lymphoma polypoid lesion.

## FINAL DIAGNOSIS

The patient was diagnosed with EATL, immunochemical testing was not conclusive for MEITL however was suggestive of the disease.

## TREATMENT

The patient underwent chemotherapy with EPOCH (Etoposide, Oncovin, Cyclophosphamide, and Hydroxydaunorubicin).

## OUTCOME AND FOLLOW-UP

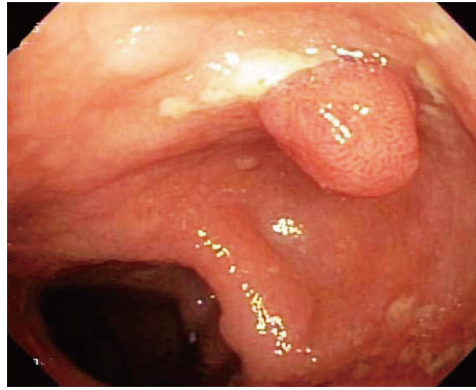
At her 6-mo follow-up, her repeat PET/CT scan with abnormal FDG activity associated with the transverse colon and rectum. Repeat colonoscopy noted a large lymphoma polypoid lesion.

## DISCUSSION

EATL is a rare form of PTCL that generally effects middle aged Caucasians. The majority of cases involve the small intestine (up to 90%), while the stomach and colon are less commonly involved (35% and 8% respectively)<sup>[3,4]</sup>. Additionally, many patients with EATL have celiac disease on histology<sup>[7]</sup>. Our patient is unique as she is an African American with involvement of entire GI tract, and no histological evidence of celiac disease.

Endoscopically, EATL often presents with nodularity, circumferential ulcers, and at times perforation. Identifiable masses or polyps are not generally appreciated<sup>[8]</sup>. In this case, the colonoscopy was notable for multiple large polyps (largest being 2.5 cm in the rectum) and a malignant appearing stricture.

Ideal treatment of EATL is consisted of combination chemotherapy and HCT. However, if patients are with poor functional status, HCT may not be an option. Sieniawski *et al*<sup>[6]</sup> demonstrated in a retrospective study that patients with EATL undergoing chemotherapy (ifosfamide, etoposide, epirubicin, and methotrexate) followed by HCT had progression free survival and overall survival (OS) at 5 yr of



**Figure 2** Colonoscopy with multiple polyps and nodularity throughout the colon.

52% and 60%, respectively. Chemotherapy alone has a much poorer prognosis with 5 yr OS of 10%-20%<sup>[8]</sup>.

To review previous cases, we also performed a PubMed literature search. The search was conducted using the phrase “case report” and “monomorphic epitheliotropic intestinal T-cell lymphoma”. Six articles were identified between 2016 and 2018, involving nine patients. The majority of cases reported were in Southeast Asia. The patient’s ages ranged from 40 to 83 yr old and the majority of cases were male (66%). The most common presenting symptoms were diarrhea (44%) and weight loss (33%). Interestingly, one patient presented with severe dyspnea. The patient was noted to have a pleural effusion secondary to MEITL. Treatment regimens mainly consisted of various chemotherapy regimens with 33% of patients receiving stem cell transplants. Unfortunately, survival after diagnosis was poor and ranged from 5 d to 3 yr despite therapy ([Table 1](#))<sup>[9-14]</sup>.

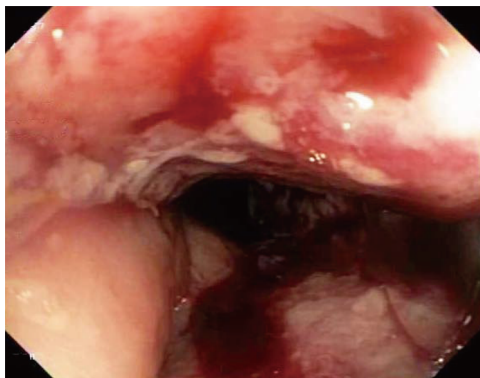
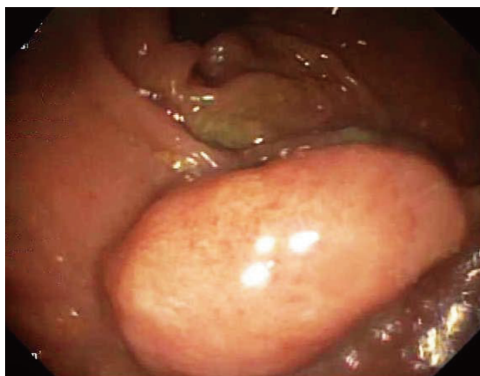
## CONCLUSION

In conclusion, our patient continues to undergo therapy. Her subsequent PET scan and endoscopy have identified persistent disease. Our case is limited in that the patient has yet to complete chemotherapy. At her 6-mo follow-up, her repeat PET/CT scan with abnormal FDG activity associated with the transverse colon and rectum. Repeat colonoscopy noted a large lymphoma polypoid lesion. There is no gold standard for monitoring EATL and repeat endoscopies can be decided on a case-by-case basis with guidance from oncology and further repeat imaging.

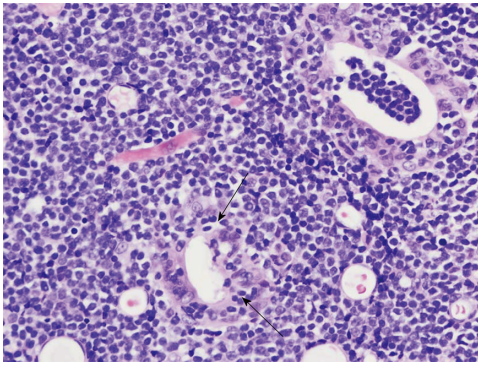
**Table 1 Literature review of case reports of monomorphic epitheliotropic intestinal T-cell lymphoma**

Author	Year and Location	Patient Age and Gender	Presenting symptom	History of celiac disease?	Treatment	Prognosis after diagnosis
Chen <i>et al</i> <sup>[9]</sup>	2016, Singapore	60 y/o, Male	Abdominal pain	No	CHOP + IVE/MTX + autologous stem cell transplant	Deceased at 2 wk
Ishibashi <i>et al</i> <sup>[10]</sup>	2016, Japan	60 y/o, Male	Persistent diarrhea and weight loss	No	CHASE and autologous stem cell transplant	Deceased at 3 yr
Ishibashi <i>et al</i> <sup>[10]</sup>	2016, Japan	40 y/o, Female	Diarrhea and weight loss	Not stated	THP-COP	Deceased at 2 mo
Ishibashi <i>et al</i> <sup>[10]</sup>	2016, Japan	50 y/o, Female	Abdominal distention	Not stated	CHOP + high dose MTX/cytarabine + allogeneic stem cell transplant	Deceased at 9 mo
Ishibashi <i>et al</i> <sup>[10]</sup>	2016, Japan	70 y/o, Male	Nausea	Not stated	SMILE	Deceased at 9 mo
Aiempanakit <i>et al</i> <sup>[11]</sup>	2017, Thailand	67 y/o, Male	Chronic diarrhea and weight loss	Not stated	Anthracycline based chemotherapy	Deceased at 2 mo
Antoniadou <i>et al</i> <sup>[12]</sup>	2016, Greece	76 y/o, Male	Severe dyspnea	Not stated	Unable to tolerate treatment and deceased	Deceased at Day 5
Aoyama <i>et al</i> <sup>[13]</sup>	2018, Japan	83 y/o, Male	Fever and diarrhea	Not stated	CHOP followed by DeVIC	Deceased yet no timeframe stated
Pan <i>et al</i> <sup>[14]</sup>	2018, Taiwan	76 y/o, Female	Intermittent abdominal pain	No	CEOP	Deceased at 3.7 mo

y/o = years-old; CHOP = cyclophosphamide, doxorubicin, vincristine, and prednisone; IVE = ifosfamide, vincristine, and etoposide; MTX = methotrexate; CHASE = cyclophosphamide, cytarabine, etoposide, and dexamethasone; THP-COP = pirarubicin, cyclophosphamide, vincristine, and prednisolone; SMILE = dexamethasone, methotrexate, ifosfamide, L-asparaginase, and etoposide; DeVIC = etoposide, doxorubicin, oncovin, and prednisolone; CEOP = cyclophosphamide, epirubicin, vincristine, and prednisolone.

**Figure 3** Colonoscopy with 15 cm malignant appearing stricture in the transverse colon.**Figure 4** Colonoscopy. 2.5 cm in her rectum polyp.





**Figure 5** The infiltrate is composed of small to intermediate-sized lymphocytes with round nuclei, inconspicuous nucleoli and lacks an inflammatory background. Prominent intraepithelial lymphocytosis is present (arrows; Hematoxylin and Eosin, 500 ×). Pathology results of her stomach, duodenum, terminal ileum, colon, transverse stricture and all of her colonic polyps are consistent with enteropathy associated T-cell lymphoma.

## REFERENCES

- 1 Swerdlow SH, Campo E, Pileri SA, Harris NL, Stein H, Siebert R, Advani R, Ghielmini M, Salles GA, Zelenetz AD, Jaffe ES. The 2016 revision of the World Health Organization classification of lymphoid neoplasms. *Blood* 2016; **127**: 2375-2390 [PMID: [26980727](#) DOI: [10.1182/blood-2016-01-643569](#)]
- 2 Zettl A, deLeeuw R, Haralambieva E, Mueller-Hermelink HK. Enteropathy-type T-cell lymphoma. *Am J Clin Pathol* 2007; **127**: 701-706 [PMID: [17511112](#) DOI: [10.1309/NW2BK1DXB0EQG55H](#)]
- 3 Cellier C, Delabesse E, Helmer C, Patey N, Matuchansky C, Jabri B, Macintyre E, Cerf-Bensussan N, Brousse N. Refractory sprue, coeliac disease, and enteropathy-associated T-cell lymphoma. French Coeliac Disease Study Group. *Lancet* 2000; **356**: 203-208 [PMID: [10963198](#) DOI: [10.1016/S0140-6736\(00\)02481-8](#)]
- 4 Delabie J, Holte H, Vose JM, Ullrich F, Jaffe ES, Savage KJ, Connors JM, Rimsza L, Harris NL, Müller-Hermelink K, Rüdiger T, Coiffier B, Gascoyne RD, Berger F, Tobinai K, Au WY, Liang R, Montserrat E, Hochberg EP, Pileri S, Federico M, Nathwani B, Armitage JO, Weisenburger DD. Enteropathy-associated T-cell lymphoma: clinical and histological findings from the international peripheral T-cell lymphoma project. *Blood* 2011; **118**: 148-155 [PMID: [21566094](#) DOI: [10.1182/blood-2011-02-335216](#)]
- 5 Deleuw RJ, Zettl A, Klinker E, Haralambieva E, Trottier M, Chari R, Ge Y, Gascoyne RD, Chott A, Müller-Hermelink HK, Lam WL. Whole-genome analysis and HLA genotyping of enteropathy-type T-cell lymphoma reveals 2 distinct lymphoma subtypes. *Gastroenterology* 2007; **132**: 1902-1911 [PMID: [17484883](#) DOI: [10.1053/j.gastro.2007.03.036](#)]
- 6 Sieniawski M, Angamuthu N, Boyd K, Chasty R, Davies J, Forsyth P, Jack F, Lyons S, Mounter P, Revell P, Proctor SJ, Lennard AL. Evaluation of enteropathy-associated T-cell lymphoma comparing standard therapies with a novel regimen including autologous stem cell transplantation. *Blood* 2010; **115**: 3664-3670 [PMID: [20197551](#) DOI: [10.1182/blood-2009-07-231324](#)]
- 7 Isaacson PG, O'Connor NT, Spencer J, Bevan DH, Connolly CE, Kirkham N, Pollock DJ, Wainscoat JS, Stein H, Mason DY. Malignant histiocytosis of the intestine: a T-cell lymphoma. *Lancet* 1985; **2**: 688-691 [PMID: [2863677](#) DOI: [10.1002/path.1711470311](#)]
- 8 Gale J, Simmonds PD, Mead GM, Sweetenham JW, Wright DH. Enteropathy-type intestinal T-cell lymphoma: clinical features and treatment of 31 patients in a single center. *J Clin Oncol* 2000; **18**: 795-803 [PMID: [10673521](#) DOI: [10.1200/JCO.2000.18.4.795](#)]
- 9 Chen Y, Tan SY, Petersson BF, Khor YM, Gopalakrishnan SK, Tan D. Occult recurrence of monomorphic epitheliotropic intestinal T-cell lymphoma and the role of MATK gene expression in diagnosis. *Hematol Oncol* 2017; **35**: 852-855 [PMID: [26948059](#) DOI: [10.1002/hon.2288](#)]
- 10 Ishibashi H, Nimura S, Kayashima Y, Takamatsu Y, Aoyagi K, Harada N, Kadowaki M, Kamio T, Sakisaka S, Takeshita M. Multiple lesions of gastrointestinal tract invasion by monomorphic epitheliotropic intestinal T-cell lymphoma, accompanied by duodenal and intestinal enteropathy-like lesions and microscopic lymphocytic proctocolitis: a case series. *Diagn Pathol* 2016; **11**: 66 [PMID: [27457239](#) DOI: [10.1186/s13000-016-0519-x](#)]
- 11 Aiempantakit K, Amatawet C, Chiratikarnwong K, Auepemiakate S, Kayasut K, Suwiwat S, Apinatriyo B. Erythema multiforme-like cutaneous lesions in monomorphic epitheliotropic intestinal T-cell lymphoma: a rare case report. *J Cutan Pathol* 2017; **44**: 183-188 [PMID: [27862162](#) DOI: [10.1111/cup.12864](#)]
- 12 Antoniadou F, Dimitrakopoulou A, Voutsinas PM, Vrettou K, Vlahadami I, Voulgarelis M, Korkolopoulou P, Kafasi N, Mikou P. Monomorphic epitheliotropic intestinal T-cell lymphoma in pleural effusion: A case report. *Diagn Cytopathol* 2017; **45**: 1050-1054 [PMID: [28681573](#) DOI: [10.1002/dc.23772](#)]
- 13 Aoyama Y, Tsunemine H, Zushi Y, Maruoka H, Goto Y, Kodaka T, Itoh T, Takahashi T. Colonal monomorphic epitheliotropic intestinal T-cell lymphoma with novel phenotype of cytoplasmic CD3 expression. *J Clin Exp Hematop* 2018; **58**: 102-106 [PMID: [29657256](#) DOI: [10.3960/jslrt.18002](#)]
- 14 Pan ST, Ko YH, Tan SY, Chuang SS. Primary cutaneous peripheral T-cell lymphoma with a late relapse solely in the ileum mimicking monomorphic epitheliotropic intestinal T-cell lymphoma. *Pathol Res Pract* 2018; **214**: 2106-2109 [PMID: [30477646](#) DOI: [10.1016/j.prp.2018.10.002](#)]

P- Reviewer: Elzanan MHE, Jha AK





Published By Baishideng Publishing Group Inc  
7901 Stoneridge Drive, Suite 501, Pleasanton, CA 94588, USA  
Telephone: +1-925-2238242  
Fax: +1-925-2238243  
E-mail: [bpgoffice@wjgnet.com](mailto:bpgoffice@wjgnet.com)  
Help Desk: <https://www.f6publishing.com/helpdesk>  
<https://www.wjgnet.com>

