



P-126. UNUSUAL CECAL PRESENTATION OF BLASTOID MANTLE CELL LYMPHOMA INVOLVING PERIPHERAL BLOOD AND CREATING A CONFUSING CONDITION OF ACUTE LEUKEMIA: A CASE REPORT

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INTRODUCTION

Blastoid mantle cell lymphoma (B-MCL) is an aggressive variant of MCL characterized by medium-sized lymphoid cells with high mitotic and proliferative index. It can arise de novo or as a transformation from classic MCL. It is challenging to diagnose based on morphology features alone as it mimics other neoplasms. Hence, immunophenotyping and molecular studies are of great importance.

B-MCL as an isolated cecal mass is a diagnostic challenge given that it is fairly rare presentation.

Herein, we describe an interesting case of B-MCL presenting as a solitary cecal mass in elderly patient with history of chronic renal impairment and hypertension.

CASE PRESENTATION

We describe a case of a 76-year-old Algerian Arabic man who presented to emergency department with acute-onset diffuse abdominal pain and melena. The pain was intermittently radiating to the suprapubic area. On examination, the abdomen was soft and diffusely tender on light palpation but without peritoneal signs. The patient appeared in mild distress due to pain. No recent history of nausea, vomiting, diarrhea or recent weight loss.

An extensive combination of laboratory, imaging and histopathology work-up was planned in order to explain his acute progressive pain.

RESULTS AND DISCUSSION

Table 1. Laboratory testing results		
LABORATORY	VALUE	NORMAL RANGE
CBC RESULTS		
Hb	121	13-17 g/dL
WBC	245	4-10 g/L
Neutrophils	1.4	1.5-7 g/L
Platelets	54	150-400 g/L
BIOCHEMISTRY		
Creatinine	246	60-120 μmol/L
eGFR (CKD-EPI)	23	≥ 90 mL/min/1.73m ²
BRB	58	3-20 μmol/L
ALP	650	26-88 IU/L
Serum LDH	718	90-180 IU/L
Uric acid	2.5	0.24-0.51 mmol/L

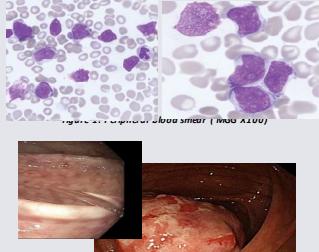


Figure 1. Endoscopy showing a large, pale, non-ulcerated, partially obstructing mass in the cecum (a).

Colonoscopy revealed nodular mucosal images in the ascending colon and the cecum with an ulcerated and partially obstructing large mass in the theca (Fig 2).

Figure 2. Endoscopy showing a large, pale, non-ulcerated, partially obstructing mass in the cecum (b).

Cell marker studies identified a CD5+ lymphoproliferative disorder in a patient with a high leucocyte count, lymphadenopathy and splenomegaly.

The differential diagnosis included CLL, MCL and MZL. The immunophenotype was not indicative of CLL (CLL score 1/5). MZL was unlikely in view of the morphology and marker lymphocytosis.

Given the previous cytological, immunophenotyping-immunostaining and imaging results, the most likely diagnosis was MCL in its blastoid variant and this was confirmed by cyclinD1 positivity and the presence of t(11;14) (q13;q32) which translocates the CCND1 gene (11q13) so that it is adjacent to the IgH gene (14q32).

Histopathology of the cecal biopsy and immunostaining: revealed MCL with a blastoid morphology and a high proliferation index of 64%, a Cyclin D1 overexpression, resulting from the t(11;14) which is a hallmark confirming and distinguishing MCL from other lymphomas.

Flow analysis: was positive for CCND1/IGH (t(11;14)) gene rearrangement, supporting the MCL diagnosis.

CONCLUSION

Mantle cell lymphoma of the cecum is a rare and aggressive malignancy that often presents with nonspecific GI symptoms including abdominal pain, altered bowel habits, and GI bleeding. Diagnosis relies on endoscopic evaluation, histopathological analysis, and molecular studies, with all main findings, such as cyclin D1 overexpression and t(11;14) translocation.

Despite advancements in immunotherapy and targeted therapies, such as BTK inhibitors and CAR-T cells, the prognosis remains poor, particularly for aggressive blastoid variants.

After successfully removing the obstructive cecal mass, the patient received 4 cycles of palliative chemotherapy with a BR regimen and was transitioned to comfort care because of worsening clinical status. Unfortunately, he died due to septic shock from CD1 and that illustrates how disease aggressiveness and treatment toxicity can combine to produce fatal infectious complications.

This case underscores the need for early recognition, prompt intervention, and a multidisciplinary approach to improve outcomes in patients with such unusual presentation of MCL of the GI tract.

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