A 53-year-old man presented with fatigue, syncope, and splenic rupture. Diagnostic evaluation revealed hypercalcemia with leukocytosis ($23.2 \times 10^3$ cells/µL). Peripheral smear showed 39% lymphocytes with clonal plasmacytosis. These findings, in addition to a negative skeletal survey, suggested a diagnosis of plasma cell leukemia (PCL). The patient was started on carfilzomib and dexamethasone after relapse following an initial regimen of cyclophosphamide, bortezomib, and dexamethasone. Then, 3 days into treatment, he developed profound anemia from hematochezia requiring multiple transfusions. Colonoscopy revealed numerous polypoid growths from the transverse colon to the cecum. A wide-based discoid polypoid lesion in the transverse colon. A solitary polypoid lesion in the transverse colon. Clusters of polyps in the cecum.

Histology of a representative polyp revealed sheets of cells with high nuclear to cytoplasmic ratios, prominent nucleoli, and mitotic figures infiltrating the colonic mucosa (Fig. 2). These cells were positive for CD138 (Fig. 3a), negative for CD20 and CD5, and were lambda light chain restricted (Fig. 3b). This was consistent with colonic mucosal infiltration by a plasma cell neoplasm originally identified in peripheral blood. Plasma cell dyscrasias include multiple myeloma, solitary plasmacytoma, and PCL, among others. Solitary plasmacytoma is relatively rare. Extramedullary solitary plasmacytoma typically develops in the upper respiratory tract but can rarely appear in the gastrointestinal tract [1]. PCL can be a primary leukemic process or secondary to multiple myeloma leukemic transformation. There are few cases of gastrointestinal plasmacytomas in the literature, but these either resulted from multiple myeloma or developed without any prior systemic plasma cell neoplastic disease [2–4]. To the best of our knowledge, this patient represents the first reported case of multiple colonic polyps from primary PCL infiltrating the gastrointestinal tract. As PCL is an extremely aggressive malignancy, its gastrointestinal invasion may be underreported since not all patients develop hematochezia requiring colonoscopy.

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Competing interests: None

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Fig. 3  a The neoplastic plasma cells were positive for CD138. b From lambda light chain RNA in situ hybridization, the neoplastic plasma cells were lambda light chain restricted.

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