

cuerpo y cola, así como datos de pancreatitis aguda y crónica, bazo sin alteraciones.

Existen muy pocos casos descritos en la literatura de pancreatitis aguda secundaria a MAVP. El tratamiento debe ir orientado a evitar la recurrencia de la pancreatitis, así como futuras complicaciones. En nuestro caso, la combinación de cirugía previa embolización selectiva fue muy satisfactoria, presentando el paciente una evolución favorable y encontrándose a día de hoy asintomático.

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Emma Martínez-Moneo\* y Ana Belén Fernández Laso

*Hospital Universitario de Cruces, Barakaldo, Vizcaya, España*

\* Autor para correspondencia.

Correo electrónico: [emmamoneo@gmail.com](mailto:emmamoneo@gmail.com)

(E. Martínez-Moneo).

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## Severe acute colitis induced by ipilimumab



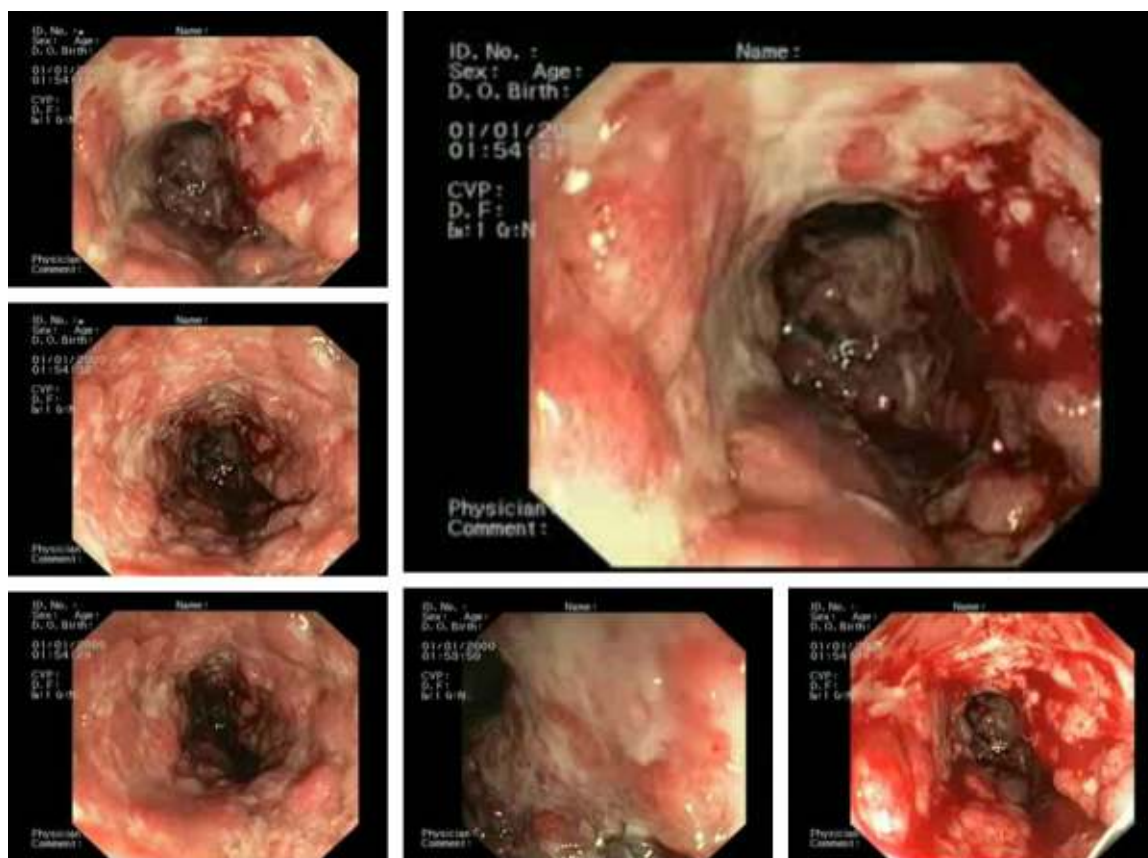
### Colitis aguda grave consecuyente a ipilimumab

Ipilimumab (Yervoy®) is a humanized IgG monoclonal antibody that specifically blocks the inhibitory signal of cytotoxic T lymphocyte antigen 4 (CTLA-4) which results in T cell activation, proliferation and lymphocyte infiltration into tumors, leading to tumor cell death. Since its approval, by the Food and Drug Administration (2011), ipilimumab became a new tool for the treatment of metastatic melanoma leading to an improvement in survival rates worldwide.<sup>1,2</sup> Thereafter, new types of toxicities have been described with ipilimumab (and related agents), the so called “immune-related adverse events” (irAEs). The most frequent irAEs affect the skin and gastrointestinal tract, in up to two-thirds of the patients.<sup>3–5</sup> In November 2013, the European Commission has approved its use as a first-line agent for the treatment of advanced melanoma. Due to the widespread use of this agent, clinicians should be aware and familiarized with the adverse events related to ipilimumab.

A case of a 62-year-old man with a retroauricular melanoma is reported, in whom it was decided to initiate ipilimumab as second-line chemotherapy (after tumor progression with conventional first-line chemoradiation therapy). Twenty-four hours after first infusion, the patient reported a diffuse abdominal pain and a mild bloody diarrhea (3–4 bloody stools/day). Two days after a second scheduled administration, fever (38–39°C) and vomiting were added to the previous symptoms. At this point, it was decided to withdraw ipilimumab and the patient was given loperamide and reinforced oral hydration. Despite these measures, the patient remained symptomatic leading to an admission in our ward. At presentation he was febrile (38.9°C), hemodynamically stable, moderately dehydrated and in the abdominal examination he had a localized tenderness in the left iliac fossa. The laboratory results showed no anemia ([Hb] = 14 g/dL), no leukocytosis but a markedly elevated C-reactive protein (20 mg/dL; reference value: <0.5 mg/dL). Standard stool examinations for bacteria, *Clostridium difficile* (toxin), ova, cysts and parasites were negative. On using plain abdominal radiograph and



**Figure 1** Plain abdominal radiographs (A) and abdominal US (B and C): Gross dilation of the transverse colon (diameter of 6.4 cm). Abdominal US showed no intra-abdominal complications, revealing only a slight thickening of the sigmoid wall (5–6 mm).



**Figure 2** Endoscopic findings (left colonoscopy) showed a severe ulcerated, patchy and hemorrhagic colitis, involving the splenic flexure until the sigmoid colon.

abdominal ultrasound (US) no sign of perforation or collection was noticed. Following a discussion with his assistant oncologist it was decided to start intravenous steroids (prednisolone 40 mg/day). After seven days of treatment the symptoms improved significantly and the patient was discharged with 20 mg of prednisolone/day *per os*. Seventy-two hours after discharge, the patient returned to our clinic complaining about an increase in the bloody stool frequency (7–10 *per day*). At that time, he was hypotensive, normocardic and afebrile. Remaining physical examination was unremarkable. It was decided to reinstitute prednisolone at a dose of 40 mg/day, intravenously. Despite those measures, symptoms were refractory and the bloody diarrhea did not resolve so fast as it was expected to. On the seventh day of treatment, the patient had a massive hematochezia, with [Hb] drop (to 9 g/dL) and C-reactive protein rouse (30 mg/dL). Plain abdominal radiographs (Fig. 1A) showed a dilated transverse colon (with a diameter of 64 mm) consistent with a megacolon by radiological criteria. Abdominal US showed no intra-abdominal complications, revealing only a slight thickening of the sigmoid wall (5–6 mm; Fig. 1B and C). A left colonoscopy was performed (Fig. 2), demonstrating a patchy but extensive and deep ulceration of the left colon, from the splenic flexure until the sigmoid colon, sparing the rectum. The ulcers were covered with exudates and fresh blood. Histological findings were non-specific, demonstrating a mixed inflammatory component (with a lymphoplasmocytic infiltrate of B and T cells), lymphoid

aggregates and eosinophils, extensive ulceration and granulation tissue. On the base of the ulcerated tissue, aspects of fibrinoid necrosis of the vessels wall and fibrin clots were visible. Immunohistochemistry excluded the presence of cytomegalovirus inclusions. Broad spectrum antibiotics were promptly initiated and steroid therapy was optimized to 100 mg/day intravenously (prednisolone 1.5 mg/Kg/day). After 5 days, there was a significant clinical improvement, the patient had less than 3 bowel movements/day (without blood), no abdominal pain and was afebrile. Laboratory tests revealed a marked decrease in C-reactive protein (3.7 mg/dL), no leukocytosis and a stable [Hb] (10.8 g/dL). After ten additional days, the patient was discharged, medicated with 100 mg/day of prednisolone *per os* followed by a slow weaning course (lasting 8 weeks). Ipilimumab was permanently withdrawn and the patient remains asymptomatic after steroid stoppage.

As ipilimumab administration has shown a survival benefit in metastatic melanoma,<sup>1,2</sup> more patients are likely to receive this therapy, and therefore, it is expected that ipilimumab induced gastrointestinal irAEs will be encountered more often. In such scenarios (severe hemorrhagic diarrhea), the performance of a lower endoscopy is recommended<sup>6</sup> to confirm or rule out other possible etiologies (e.g., opportunistic infections); however, one must bear in mind that the risk of perforation has been reported to be as high as 20%.<sup>1</sup> Our case underlines some important clinical aspects and therapeutic quandaries when facing

these situations, first, the importance of offending drug withdrawal and second, optimal steroid dose administration as recommended by the manufacturer, as well as a slow steroid tapering in order to avoid an early and, sometimes, steroid-refractory recurrence.<sup>7,8</sup> In cases of steroid-refractory colitis, infliximab therapy (5 mg/kg, usually a single dose), as a second-line treatment, should be considered.<sup>9,10</sup>

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## Ethical approval

Informed consent was obtained from the patient.

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Pedro Magalhães-Costa

*Gastroenterology Department, Hospital Egas Moniz, Centro Hospitalar Lisboa Ocidental, Rua da Junqueira 126, 1349-019 Lisboa, Portugal*

*E-mail address: pmagalhaescosta@gmail.com*

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## Hemorragia digestiva alta secundaria a un proceso linfoproliferativo infrecuente



### Upper gastrointestinal bleeding due to an uncommon lymphoproliferative process

Los tumores gástricos representan el 3% de las causas de hemorragia digestiva alta<sup>1</sup>, siendo la neoplasia más frecuente el adenocarcinoma gástrico, muy por delante de otro tipo de tumores como los linfomas. Habitualmente, los linfomas gástricos son de estirpe B, fundamentalmente los tipo MALT (linfoma de tejido asociado a la mucosa) y los linfomas B difusos de células grandes. Por el contrario, los linfomas derivados de células T son excepcionales en esta localización<sup>2</sup>.

Presentamos el caso de un paciente varón de 86 años que ingresó en nuestro servicio por deposiciones melénicas de 15 días de evolución, sin repercusión hemodinámica. Entre los antecedentes personales destacaba una cardiopatía isquémica tipo infarto agudo de miocardio, estando doblemente antiagregado con ácido acetilsalicílico y clopidogrel. Recibía tratamiento gastroprotector con omeprazol 40 mg/día. El examen físico era irrelevante y en los datos de laboratorio destacaba una anemia moderada de perfil ferropénico con hemoglobina de 10,2 g/dL.

Se realizó una gastroscopia que objetivó la presencia de una lesión ulcerada y friable al roce, de unos 5 cm de

diámetro y aspecto submucoso, que se localizaba en curvatura mayor de cuerpo gástrico bajo. Tras la toma de biopsias y ante la sospecha de una neoplasia gástrica, se solicitó el estudio de extensión mediante una TAC toracoabdominopélvica que mostró una tumoración de la pared anterior del antro gástrico de 5,7 × 15 cm. Así mismo, se detectaron adenopatías en el epiplón mayor y en la ventana aortopulmonar consideradas patológicas por sus características radiológicas, y por presentar una captación similar a la masa primaria en la gammagrafía realizada posteriormente (fig. 1).

El informe anatomopatológico de las biopsias de la masa gástrica describió una mucosa con proliferación de células atípicas distribuidas en sámana ocupando la lámina propia. La relación núcleo-citoplasma era elevada y se distinguían núcleos hiper cromáticos e irregulares así como frecuentes figuras de mitosis, muchas de ellas atípicas. El resultado de las técnicas de inmunohistoquímica resultó positivo para CD3, CD4, CD43, CD79a y negativo para CD19, CD20, CD30, CD56 y CD2. El índice de proliferación Ki67 fue muy elevado, cercano al 100% de la celularidad. No se detectó presencia de *Helicobacter pylori* (HP) ni tampoco del virus de Epstein-Barr. En conjunto, el estudio inmunohistoquímico era compatible con linfoma primario gástrico T.

El paciente fue derivado al servicio de hematología del mismo centro, quien amplió el estudio con aspirado de médula ósea, y citometría de flujo de médula ósea y sangre periférica. No se determinó la serología para HTLV-1. El estadio del paciente fue IIIE según la clasificación de Ann Arbor. Se detectó como hallazgo casual una leucemia