

INTESTINAL PERFORATION AFTER CRS AND ICANS IN A CAR-T TREATED PATIENT: A CLINICAL CASE REPORT

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A relapsed-refractory mantle cell lymphoma patient treated with brexucabtagene autoleucel developed Cytokine Release Syndrome (CRS), Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS). Since day+3 he has been administered 4 doses of tocilizumab 8mg/kg, followed by subsequent administration of dexamethasone 10mg every 6 hours. On day +34 he developed intestinal perforation.

On day 34, the patient complained about acute abdominal pain. Imaging revealed and acute diverticulitis complicated by perforation and perivisceral collection

Figure-Histopathological slide from surgery material: diverticulosis with focal acute diverticolitis with suppurative inflammation and adiponecrosis

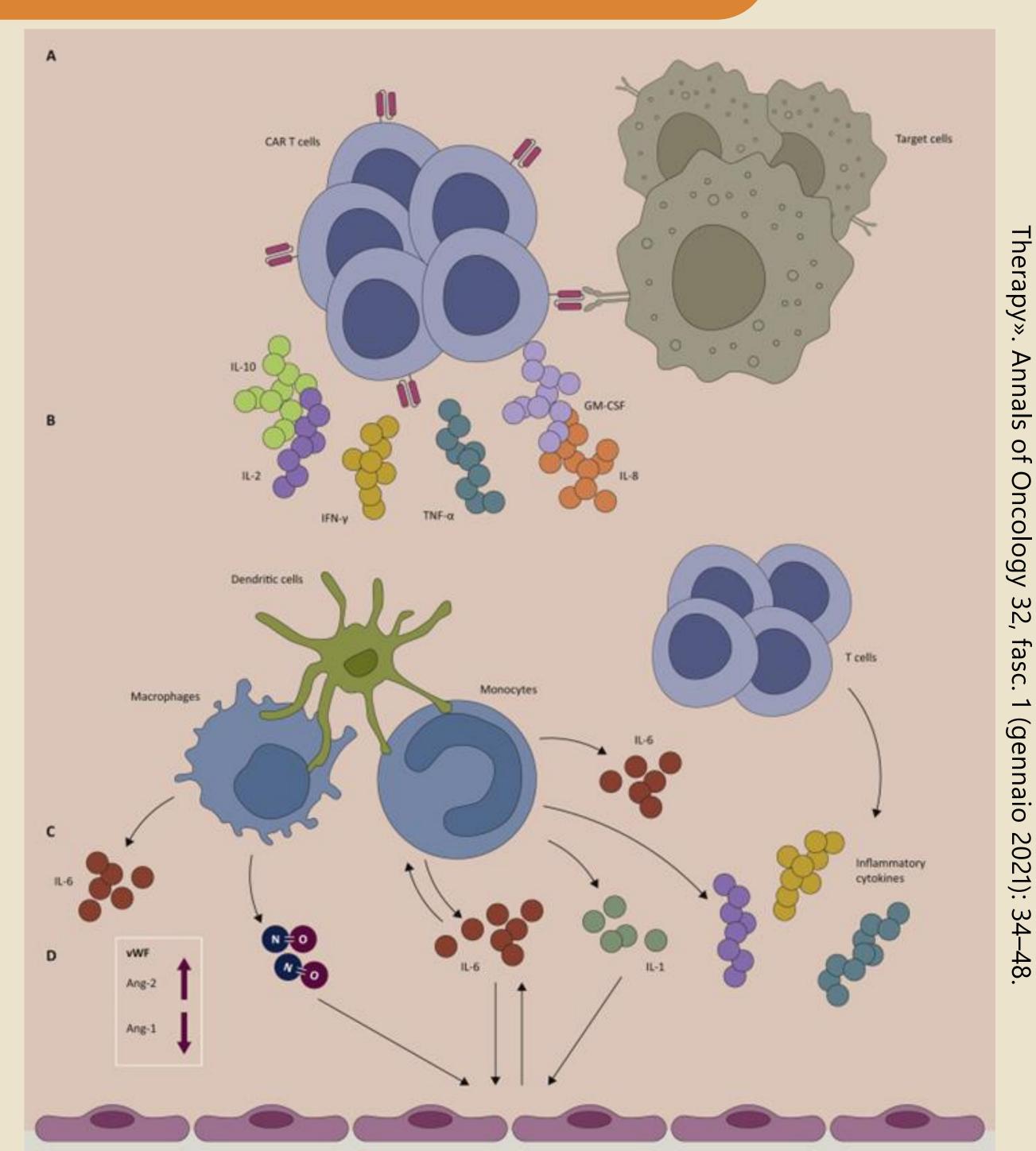
The patient had to undergo urgent exploratory laparotomy and colic resection with colostomy packing, lavage and drainage of the cavity

Analyses ruled out the presence of lymphoma B cells and infiltrating CAR-T cells, whereas it was clearly evident a significant neutrophil infiltration associated with CMV inclusion.

The patient discharged on day 40 with the indication to maintain oral prednisone, interrupted on day 56 without ICANS recurrence. Anti-CMV therapy was suspended on day +59.

Treated with Valganciclovir for 20 days with occasional neutrophil support with G-CSF. IGIV supplementation was done on day + 39 according to CAR-T management indications and to minimized the infection risk.

No brexucabtagene autoleucel related intestinal perforation were reported, and this was the first signalling about this type of reaction in the Italian pharmacovigilance authority (1-4 on the Naranjo's scale). Intestinal perforation in CAR-Ttreated patients is mentioned in the ESMOguidelines for the management of Immune Effector Cell-Associated Hypersensitivity(ICAH) and a correlation between tocilizumab and intestinal perforations has been suggested (5-8 Naranjo's scale score), as observed in clinical trials and postmarketing analysis among patients with rheumatoid arthritis. This case underscores the importance of meticulous monitoring and understanding **CAR-T** therapy intricacies and toxicity management.



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