## Immune-related Diarrhoea & Colitis

## Gloucestershire Hospitals NHS Foundation Trust

This treatment guideline is applicable to patients treated with **immune-checkpoint inhbitors (ICIs)**. Onset is usually within 12 weeks from start but can be up to 1 year after the LAST dose. ICIs include PD1/PDL1 inhibitors (**Nivolumab, Pembrolizumab, Atezolizumab, Cemiplimab, Avelumab, Durvalumab**) and CTLA-4 inhibiors (**Ipilimumab, Tremelimumab**). This guideline has been produced jointly by the Oncology and Gastroeneterology specialties.

Diarrhoea and GI tract inflammation are common side effects of immune checkpoint inhibitor therapy. Although they are typically mild to moderate in severity, if left unrecognised or untreated, they can become life-threatening. Prompt recognition of GI toxicity and, in many cases, rapid institution of corticosteroids (methylpred/pred) or biologic therapy (infliximab) or both is required to reverse these complications.

CTCAE Grading	Grade 1 (Mild)	Grade 2 (Moderate)	Grade 3 (Severe)	Grade 4 (Life threatenin
Diarrhoea	Increase of <4 stools per day over baseline or mild increase in stoma output	Increase of 4-6 stools per day over baseline or moderate increase in stoma output. Limiting instrumental ADLs	Increase in ≥7 stools per day over baseline or severe increase in stoma output. Limiting self-care ADLs	Life threatening consequences e.g haemodynamic collapse
Colitis	Asymptomatic; clinical or diagnostic observation only	Abdominal pain; mucous or blood in stool	Severe abdominal pain, fever, peritoneal signs	Life threatening consequences e.g perforation, ischaemia, necrosis, bleeding, toxic megacolon
	Mild (Grade 1)		Moderate	(Grade 2)
Investigations <ul> <li>Consider rep</li> </ul>	<b>s:</b> beating baseline bloods		Clinically Asse	ss Patient
<ul> <li>Consider stool microscopy and culture, C. difficile toxin and ova, cysts and parasites (OCP)</li> </ul>			<ul> <li>Investigations:</li> <li>Baseline bloods (FBC, U&amp;E, LFTs, Mg, TFTs &amp; CRP; random cortisol esp. in ipilimumab-treated</li> </ul>	
Treatment: • Encourage oral fluids			patients)	
Avoid high fibre and lactose			<ul> <li>Stool microscopy and culture, C. difficile toxin and ova, cysts and parasites (OCP)</li> </ul>	
Consider loperamide			Abdominal XR (consider urgent CT abdo/pelvis)	
Actions: • Telephone assessment within 3 days • Continue immunotherapy if systemically well			<ul> <li>Treatment:</li> <li>Oral prednisolone 40mg if average body weight (or 0.5mg/kg/day), consider PPI cover</li> <li>Consider IV steroids if oral route not appropriate</li> <li>Fluid balance and <i>electrolyte</i> replacement</li> </ul>	
Sympt	oms: <u>PERSIST</u> (≥5 d	ays) or	Actions:	
WORSEN			<ul><li>Omit next dose of immunotherapy</li><li>Patient to complete daily stool chart</li></ul>	
			<ul> <li>Telephone monitoring via he</li> </ul>	
Symp	toms: Resolve or Co Improving	ndition		
			$\checkmark$	
10mg, 5mg progress <i>(</i> o	nisolone: 40mg, 30mg, 20r each taken for 3-7 days do or if starting at higher dose, own to 10mg daily)	epending on	Symptoms: <u>PER</u> or <u>WORSEN</u> or	
Arrange for	outpatient follow up / mon	itoring and		
<ul> <li>fortnightly bloods</li> <li>Consider restarting immunotherapy under consultant guidance once symptoms improve to ≤ grade 1 and prednisolone ≤10mg daily</li> </ul>			Treat as per Grade 3 or 4 (see overleaf)	

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