National Cancer Institute common terminology criteria for adverse events

Successful management of treatment-related toxicities requires understanding standardized adverse event symptom grading.

Symptom	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Alanine aminotransferase increase	 >ULN -3.0 × ULN if baseline normal 1.5-3.0 × baseline if baseline abnormal 	 >3.0-5.0 × ULN if baseline normal >3.0-5.0 × baseline if baseline abnormal 	 >5.0-20.0 × ULN if baseline normal >5.0-20.0 × baseline if baseline abnormal 	 >20.0 × ULN if baseline normal >20.0 × baseline if baseline abnormal 	N/A
Aspartate aminotransferase increased	 >ULN -3.0 × ULN if baseline normal 1.5-3.0 × baseline if baseline abnormal 	 >3.0-5.0 × ULN if baseline normal >3.0-5.0 × baseline if baseline abnormal 	 >5.0-20.0 × ULN if baseline normal >5.0-20.0 × baseline if baseline abnormal 	 >20.0 × ULN if baseline normal >20.0 × baseline if baseline abnormal 	N/A
Colitis	AsymptomaticClinical, diagnostic observations onlyIntervention not in- dicated	Abdominal painMucus or blood in stool	Severe abdominal painPeritoneal signs	Life-threatening consequencesUrgent intervention indicated	Death
Diarrhea	 Increase of <4 stools per day over baseline Mild increase in ostomy output compared to baseline 	 Increase of 4 to 6 stools per day over baseline Moderate increase in ostomy output compared to base- line Limiting instrumen- tal ADL 	 Increase of ≥7 stools per day over baseline Hospitalization indicated Severe increase in ostomy output compared to baseline Limiting self-care ADL 	 Life-threatening consequences Urgent intervention indicated 	Death
Pneumonitis	 Asymptomatic Clinical, diagnostic observations only No intervention in- dicated 	SymptomaticMedical intervention indicatedLimiting instrumental ADL	Severe symptomsLimiting self-care ADLOxygen indicated	 Life-threatening respiratory compromise Urgent intervention indicated (tracheotomy or intubation) 	Death
Pruritis	 Mild or localized Topical intervention indicated 	 Widespread and intermittent Skin changes from scratching (edema, papulation, excoriations, lichenification, oozing/crusts) Oral intervention indicated Limiting instrumental ADL 	 Widespread and constant Limiting self-care ADL or sleep Systemic corticosteroid or immunosuppressive therapy indicated 	N/A	N/A
Rash (Maculopapular)	• Macules/papules covering <10% BSA with or without symptoms (pruritus, burning, tightness)	 Macules/papules covering 10% to 30% BSA with or without symptoms (pruritus, burning, tightness) Limiting instrumental ADL Rash covering >30% BSA with or without mild symptoms 	 Macules/papules covering >30% BSA with moderate or severe symptoms Limiting self-care ADL 	N/A	N/A