

Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS) assessment tool

Complete this baseline assessment prior to starting treatment. It is recommended that ICANS assessments are completed at least twice daily. Increase frequency as clinically indicated.

ICANS grade is determined by the most severe event (immune effector cell-associated encephalopathy (ICE) score, level of consciousness, seizure, motor findings, raised intracranial pressure/cerebral oedema) not attributable to any other cause; for example, a patient with an ICE score of 3 who has a generalised seizure is classified as Grade 3 ICANS.

Hospital ID:	MRN:	
Surname:		
Given names:		
Date of birth:	Sex:	AMO:
Pronouns:		
Preferred names:		

Immune effector cell-associated encephalopathy (ICE) assessment

If the patient's ICE score is 9 or below, notify physician immediately.

Orientation	Orientation to year, month, city, hospital	4 points
Naming	Ability to name 3 objects (e.g. point to clock, pen, button)	3 points
Following commands	Ability to follow simple commands (e.g. "Show me 2 fingers" or "Close your eyes and stick out your tongue")	1 point
Writing	Ability to write a simple sentence (e.g. "The emu is an Australian animal")	1 point
Attention	Ability to count backwards from 100 by 10	1 point

Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS) assessment

Neurotoxicity Domain	Grade 1	Grade 2	Grade 3	Grade 4
ICE assessment score	7-9	3-6	0-2	0 (patient is unarousable and unable to perform ICE)
Depressed level of consciousness	Awakens spontaneously	Awakens to voice	Awakens only to tactile stimulus	Patient is unarousable or requires vigorous or repetitive tactile stimuli to arouse. Stupor or coma
Seizure	N/A	N/A	Any clinical seizure focal or generalized that resolves rapidly or nonconvulsive seizures on EEG that resolve with intervention	Life-threatening prolonged seizure (>5 min); or repetitive clinical or electrical seizures without return to baseline in between
Motor findings	N/A	N/A	N/A	Deep focal motor weakness such as hemiparesis or paraparesis
Elevated cerebral oedema	N/A	N/A	Focal/local oedema on neuroimaging	Diffuse cerebral oedema on neuroimaging; Decerebrate or decorticate posturing; or Cranial nerve VI palsy; or Papilledema; or Cushing's triad (irregular/decreased respirations, bradycardia and systolic hypertension)

Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS) assessment chart

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Date									
Time									
Orientation	4								
Naming	3								
Following commands	1								
Writing	1								
Attention	1								
Total score	/10								

Handwriting assessment

Date	Time	Patient handwriting sample

ICANS grading

Date									
Time									
ICANS Grade 1 - 4									
Assessors signature									

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Handwriting assessment

Date	Time	Patient handwriting sample

ICANS grading

Date									
Time									
ICANS Grade 1 - 4									
Assessors signature									

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