CAR T-Cell Grading and Management: ICANS

ICANS Grading				
ICANS	Grade 1	Grade 2	Grade 3	Grade 4
Parameter				
ICE Score*	7 -9	3 – 6	0 – 2	0
Level of	Awakens	Awakens to voice	Awakens to tactile	Unarousable or
Consciousness	spontaneously		stimuli	difficult to arouse;
				stupor or coma
Seizure			< 5 minutes	≥ 5 minutes
Motor				Hemiparesis or
findings				paraparesis
Elevated ICP /			Focal edema seen	Diffuse edema on
Cerebral			on imaging	imaging;
edema				posturing;
				Cushing's triad
Management				
ICANS Grade	Grade 1	Grade 2	Grade 3	Grade 4
Diagnostic	MRI, CT; neuro consultation; EEG; diagnostic LP to rule out infection			
Supportive	upportive IV fluids, NPO; avoid CNS depressants;		Supportive care as in grade 1/2; ICU	
	prophylactic levetiracetam; may consider		level care	
	low doses of lorazepam or haloperidol for			
	agitation			
Anti-CAR T-	Dexamethasone 10 mg IV x1		Dexamethasone 10 mg IV x1;	
cell Therapy			dexamethasone 20 mg IV x1 if seizure	
			pre	sent

ICANS: immune effector cell-associated neurotoxicity syndrome; ICE: immune effector cell-associated encephalopathy EEG: electroencephalogram; LP: lumbar puncture