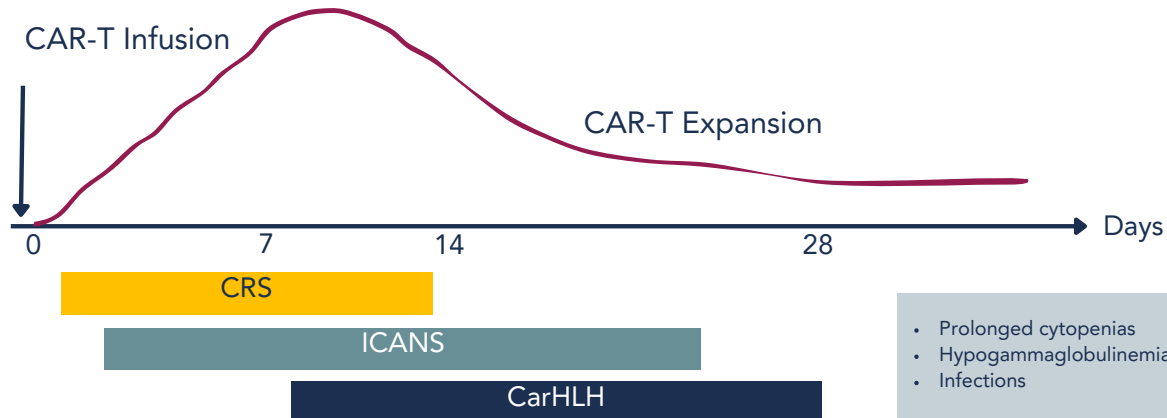


## Timing of CAR T-cell Toxicities



CRS, cytokine release syndrome; ICANS, Immune effector cell-associated neurologic syndrome; HLH, hemophagocytic lymphohistiocytosis

### SYMPTOMS

- **CRS:** fever, hypotension, tachycardia, hypoxia, chills; may be associated with cardiac, hepatic, and/or renal dysfunction
- **Neurologic:** can be transient and heterogenous; includes encephalopathy, delirium, aphasia, lethargy, headache, myoclonus, dizziness, motor dysfunction, ataxia, anxiety, signs of psychosis
- **HLH/MAS:** rapidly rising and high ferritin (>5000 ng/mL) with cytopenias in the context of fever, especially if accompanied with grade  $\geq 3$  increase in: serum bilirubin, AST, ALT, or serum creatinine or pulmonary edema