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## Cytokine release syndrome assessment for CAR-T cell therapy

Assessment and grading of CRS should be **done at least twice per day** and whenever a change in the patient's status is observed.

Date	Baselir	ıe									
Time											
Temperature ≥38°C					_					_	
Hypotension											
Hypoxia											
CRS grade											
				-		I			1	1	-
Date											
Time											
Temperature ≥38°C											
Hypotension											
Hypoxia											
CRS grade											
Date											
Time											
Temperature ≥38°C											
Hypotension											
Нурохіа											
CRS grade											

## Grading of cytokine-release syndrome (CRS)

CRS parameter	Grade 1	Grade 2	Grade 3	Grade 4
Fever <sup>1</sup>	Yes	yes	Yes	yes
			With	
Hypotension	None	Not requiring vasopressors	Requiring a vasopressor with or without	Requiring multiple vasopressors (excluding vasopressin)
			And/or <sup>2</sup>	
Нурохіа	None	Requiring low-flow nasal cannula <sup>3</sup> or blow-by	Requiring high-flow nasal cannula <sup>3</sup> , facemask, nonrebreather mask, or Venturi mask	Requiring positive pressure (eg, CPAP, BiPAP, intubation and mechanical ventilation)

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Organ toxicities associated with CRS may be graded according to CTCAE v5.0 but they do not influence CRS grading.

- Fever is defined as temperature ≥38°C not attributable to any other cause. In patients who have CRS then
  receive antipyretic or anticytokine therapy such as tocilizumab or steroids, fever is no longer required to grade
  subsequent CRS severity. In this case, CRS grading is driven by hypotension and/or hypoxia.
- 2. CRS grade is determined by the more severe event: hypotension or hypoxia not attributable to any other cause. For example, a patient with temperature of 39.5°C, hypotension requiring 1 vasopressor, and hypoxia requiring low-flow nasal cannula is classified as grade 3 CRS.
- Low-flow nasal cannula is defined as oxygen delivered at ≤6 L/minute. Low flow also includes blow-by oxygen delivery, sometimes used in paediatrics. High-flow nasal cannula is defined as oxygen delivered at >6 L/minute.

Surname	MRN	
Forename	D.o.B	
Address	NHS No.	

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			With					
Hypotension	None	Not requiring	Requiring a vasopressor	Requiring multiple				
		vasopressors	with or without	vasopressors				
			vasopressin	(excluding vasopressin)				
			And/or <sup>2</sup>					
Нурохіа	None	Requiring low-flow nasal cannula <sup>3</sup> or blow-by	Requiring high-flow nasal cannula <sup>3</sup> , facemask, nonrebreather mask, or Venturi mask	Requiring positive pressure (eg, CPAP, BiPAP, intubation and mechanical ventilation)				

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