

Initial Order Set for Immune Effector Cell (IEC) Therapies including CAR-T

- ...Cytokine Grade 1 (Planned)
 - ...Cytokine Grade 2 (Planned)
 - ...Cytokine Grade 3 (Planned)
 - ...Cytokine Grade 4 (Planned)
 - ...ICANS Grade 1 (Planned)
 - ...ICANS Grade 2 (Planned)
 - ...ICANS Grade 3 (Planned)
 - ...ICANS Grade 4 (Planned)
 - **DL - PRE INTERVENTION (Planned)
 - ONC HAEM - Immune Effector Cell Therapy (Initiated)**
 - COMMON - Venous Thromboembolism (VTE) Prophylaxis (Modu
 - COMMON - Electrolyte Replacement (Module) (Initiated)
- Orders
- Admission
 - Resuscitation Status
 - Alerts
 - Diet
 - Activity
 - Vital Signs
 - Patient Care
 - Respiratory Orders
 - Continuous Infusions
 - Medications
 - Laboratory
 - Diagnostic Imaging
 - Other Diagnostic Testing/Treatment
 - Consults
 - Allied Health
 - Patient Education
 - Discharge Planning
 - Non Categorized

Offset	Component	Status	Dose ...	Details
ONC HAEM - Immune Effector Cell Therapy (Initiated)				
Last updated				
Alerts last ch				
Alerts				
<input checked="" type="checkbox"/>	Cytotoxic Hazardous Precautions	Ordered		
<input checked="" type="checkbox"/>	Reverse Isolation	Ordered		Immune Effector Cell Therapy
Diet				
<input checked="" type="checkbox"/>	Regular Diet (Regular Diet LHSC)	Ordered		
Activity				
<input checked="" type="checkbox"/>	Activity as Tolerated	Ordered		
<input checked="" type="checkbox"/>	Weight Bearing as Tolerated	Ordered		Affected side: Not applicable
Vital Signs				
<input checked="" type="checkbox"/>	Vital Signs	Ordered		q4 hours. for 7 day
<input checked="" type="checkbox"/>	+7 day Vital Signs	Ordered		q12 hours.
Patient Care				
<input checked="" type="checkbox"/>	Conditional If/Then	Ordered		If hemoglobin is less than or equal to 70 g/L, Then transfuse 1 units irradiated packed red blood cells
<input checked="" type="checkbox"/>	Conditional If/Then	Ordered		If platelets are less than or equal to 10 x10 ⁹ /L or less than or equal to 15 x10 ⁹ /L and febrile, Then transfuse 1 adult unit irradiated platelets
<input checked="" type="checkbox"/>	Group and Screen Nurse order when	Ordered		Nurse to draw group and screen every Tue, Thu, Sat.
<input checked="" type="checkbox"/>	Intake and Output	Ordered		q12 hours.
<input checked="" type="checkbox"/>	Weight	Ordered		daily.
<input checked="" type="checkbox"/>	Conditional If/Then	Ordered		If temp is greater than or equal to 38.0 C, Then order piperacillin-tazobactam 4.5g IV q6 hours, duration of 30 days
<input checked="" type="checkbox"/>	Blood Cultures Nurse order when	Ordered		Temperature equal to or greater than 38.0C. Order one peripheral and one central line draw. Repeat q72 hours if febrile.
<input checked="" type="checkbox"/>	Notify Provider Vital Signs/Urine Output	Ordered		Temp greater than 38
<input checked="" type="checkbox"/>	Conditional If/Then	Ordered		If WBC less than 1.0 x 10 ⁹ /L, Then order reverse isolation
<input checked="" type="checkbox"/>	Hickman Access and Deaccess	Ordered		As needed for IVs and blood work.
<input checked="" type="checkbox"/>	C Difficile Toxin Nurse order when	Ordered		Patient develops diarrhea with liquid stool.
<input checked="" type="checkbox"/>	Communication Order	Ordered		Immune Effector Cell reinfusion date [redacted] Total dose 1.2 x 10 ⁸ CD19 T cells in 68 mL. Time of infusion 1000 hours.
<input checked="" type="checkbox"/>	Conditional If/Then	Ordered		If IEC product axicabtagene ciloleucel (Yescarta), Then by 0800h on the day of infusion, completed the immune Effector Cell order in the EHR. Ensure the total cell dose and time of infusion is included in the order
Medications				

The order for ONC HAEM – Immune Effector-Cell Therapy is started in Oncology

- Cytokine Grade 1 (Planned)
 - Cytokine Grade 2 (Planned)
 - Cytokine Grade 3 (Planned)
 - Cytokine Grade 4 (Planned)
 - ICANS Grade 1 (Planned)
 - ICANS Grade 2 (Planned)
 - ICANS Grade 3 (Planned)
 - ICANS Grade 4 (Planned)
 - **DI - PRE INTERVENTION (Planned)
 - ONC HAEM - Immune Effector Cell Therapy (Initiated)**
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Medications					
		COMMON - Venous Thromboembolism (VTE) Prophy...	Initiated		
		COMMON - Electrolyte Replacement (Module)	Initiated		
<input checked="" type="checkbox"/>	60'	fluconAZOLE	Ordered	400 mg, tab, ORAL, daily, for: 28 day, Start: change to 400 mg IV q24h if patient unable to swallow non-CYTOTOXIC hazardous	
<input checked="" type="checkbox"/>	60'	acyclovir	Ordered	400 mg, tab, ORAL, q12 hours, for: 28 day, Start: If patient unable to swallow may change to acyclovir 250 mg, IV, q12 hours	T
<input checked="" type="checkbox"/>	60'	levoFLOxacin	Ordered	500 mg, tab, ORAL, daily, for: 28 day, Start: Discontinue if patient started on IV antibiotics	
<input checked="" type="checkbox"/>	+14 day 60'	sulfamethoxazole-trimethoprim (sulfamethoxazole-trimethoprim 800 mg-160 mg oral ...	Ordered	1 tab, tab, ORAL, daily Mon,Wed,Fri, for: 14 day, Start:	
<input checked="" type="checkbox"/>	60'	acetaminophen	Ordered	650 mg, tab, ORAL, on CALL, Start: Give 30 minutes prior to immune effector cell infusion. Max 4 g acetaminophen in 24 hr from all sources	
<input checked="" type="checkbox"/>	60'	diphenhydrAMINE	Ordered	25 mg, injection, IV direct, on CALL, Start: Give 30 minutes prior to immune effector cell infusion	
<input checked="" type="checkbox"/>	60'	diphenhydrAMINE	Ordered	50 mg, injection, IV direct, q4 hours, PRN for hypersensitivity reaction, for: 3 dose, Start: EDT, Stop: Limited # of times	
<input checked="" type="checkbox"/>	60'	famotidine	Ordered	20 mg, injection, IV direct, q30 minutes, PRN for hypersensitivity reaction, for: 2 dose, Start: Stop: Limited # of times	
<input checked="" type="checkbox"/>	60'	acetaminophen	Ordered	650 mg, tab, ORAL, q6 hours, PRN for fever, Start: max 4 g acetaminophen in 24 hr from all sources	
<input checked="" type="checkbox"/>	60'	levETIRAcetam	Ordered	500 mg, tab, ORAL, q12 hours, Start:	
<input checked="" type="checkbox"/>	60'	sodium chloride 0.9% (sodium chloride 0.9% flush)	Ordered	10 mL, syringe, IV direct, as directed, PRN for IV device maintenance, Start:	
<input checked="" type="checkbox"/>	60'	sodium citrate (sodium citrate 4% injectable solution)	Ordered	2.5 mL, injection, IV direct, as directed, PRN for Other: See Comments, Start: Block CVAD on Discharge	
<input checked="" type="checkbox"/>	60'	ondansetron	Ordered	8 mg, tab, ORAL, q8 hours, PRN for nausea or vomiting, Start:	
<input checked="" type="checkbox"/>	60'	ondansetron (ondansetron injection)	Ordered	8 mg, injection, IV, q8 hours, PRN for nausea or vomiting, Star	
<input checked="" type="checkbox"/>	60'	prochlorperazine	Ordered	10 mg, tab, ORAL, q6 hours, PRN for nausea or vomiting, Start	
<input checked="" type="checkbox"/>	60'	OLANZapine	Ordered	2.5 mg, tab, ORAL, q12 hours, PRN for nausea or vomiting, St	

Do not discontinue any medications without reviewing with CCTC Fellow/Consultant and Haematology-Oncology Fellow/Consultant

Syndrome Management Orders Based on Grading of CRS and ICANS

- Medical
 - ONC - Syndrome Management Immune Effector Cell
 - ... Cytokine Grade 1 (Planned)
 - ... Cytokine Grade 2 (Planned)
 - ... Cytokine Grade 3 (Planned)
 - ... Cytokine Grade 4 (Planned)
 - ... ICANS Grade 1 (Planned)
 - ... ICANS Grade 2 (Planned)
 - ... ICANS Grade 3 (Planned)
 - ... ICANS Grade 4 (Planned)
 - ... **DI - PRE INTERVENTION (Planned)

DO NOT DELETE THESE ORDERS

They are ordered at the time the Immune Effector Cell therapy is ordered. These stay in a planned state until the patient reaches the defined CRS and/or ICANS Grade (1-4) as identified.

Upon admission to CCTC, review all Haematology-Oncology orders with our Fellow/Consultant. Orders should be continued, but with discussion between the CCTC Fellow/Consultant and Haematology-Oncology Fellow/Consultant.

Upon admission, the patient may require activation of the next grade level in the sequence.

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Biweekly Labs						
<input checked="" type="checkbox"/>			INR - International Normalised Ratio	Ordered	AM Routine,	3:00:00 EDT, Blood, ANTICOAG Rx, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Protein, Total (PR)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Albumin, Serum, Plasma (ALB)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Calcium, Serum, Plasma (CA)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Glucose, Random (GLUR)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Ferritin, Serum (FER)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			C Reactive Protein (CRP)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Bilirubin, Total (BILT)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Aspartate Aminotransferase (AST)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Alkaline Phosphatase (ALP)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Alanine Aminotransferase (ALT)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Lactate Dehydrogenase (LD)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Phosphate (PHO)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Urate (UR)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Fibrinogen, Clauss (FIBC) (Fibrinogen, Plasma (FIB))	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
<input checked="" type="checkbox"/>			Triglycerides, Serum (TRIG)	Ordered	AM Routine,	3:00:00 EDT, Blood, Frequency: daily Mon,Thu a.m.
Allied Health						
<input checked="" type="checkbox"/>			Social Work Referral	Ordered	Routine,	EDT, Assess & Treat
<input type="checkbox"/>			Dietitian Referral	Completed	Routine, Implement nutrition education, Immune Effector Cell Therapy	
<input checked="" type="checkbox"/>			Physiotherapy Referral	Ordered	Routine, Assess & Treat	
<input checked="" type="checkbox"/>			Occupational Therapy Referral	Ordered	Routine, Assess & Treat	

Review previously ordered labwork and diagnostics. Ensure that any labs that were ordered as part of baseline or when patient reached a specific CRS or ICANS grade are continued (e.g. LFTs, Ferritin, Fibrinogen, C Reactive Protein, Triglycerides, urate). All other orders can be discontinued and ordered as part of CCTC routines.