

2023-11-16

# Search Strategies for Nursing Interventions for the Prevention, Monitoring, and Management of Cytokine Release Syndrome and Neurotoxicity in Patients Receiving CAR-T Therapy and Blinatumomab: A Scoping Review from the Children's Oncology Group

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PubMed

1.

"Precursor B-Cell Lymphoblastic Leukemia-Lymphoma"[Mesh] OR ((Precursor[tw] OR pre[tw] OR acute[tw]) AND (B[tiab] OR "b cell"[tw] OR B-acute[tw]) AND (Lymphoblastic [tw] OR Lymphoid[tw]) AND (Leukemia[tw] OR Leukaemia[tw] OR Leukaemias[tw] OR Leukemias[tw] OR leukemic[tw] OR Leukaemia[tw] OR Leukaemias[tw])) OR B-ALL[tw]

2.

"blinatumomab" [Supplementary Concept] OR "MT-103" [tw] OR MT103[tw] OR "MT 103"[tw] OR Blincyto[tw] OR MEDI-538[tw] OR MEDI538[tw] OR "MEDI 538"[tw] OR blinatumomab[tw] OR "amg 103"[tw] OR amg103[tw] OR "Immunotherapy, Adoptive"[Mesh] OR "Receptors, Antigen, T-Cell"[Mesh:NoExp] OR "Receptors, Chimeric Antigen"[Mesh] OR "Antigens, CD19"[Mesh] OR "Chimeric antigen receptor"[tw] OR "Chimeric t-cell receptor"[tw] OR "CAR-T"[tw] OR "CAR T"[tw] OR "T-Cell Antigen Receptor"[tw] OR "T Cell Antigen Receptor"[tw] OR "T-Cell Receptors"[tw] OR "T Cell Receptors"[tw] OR "T-Cell Receptor"[tw] OR "T Cell Receptor"[tw] OR "T-Cell Antigen Receptors"[tw] OR "chimeric antigen receptor"[tw] OR "chimeric immunoreceptor"[tw] OR "chimeric immunoreceptors"[tw] OR Adoptive[tw] OR CD19[tw] OR Kymriah[tw] OR "tisagenlecleucel"[Supplementary Concept] OR Tisagenlecleucel[tw] OR Yescarta[tw] OR "axicabtagene ciloleucel"[Supplementary Concept] OR "axicabtagene ciloleucel"[tw]

3.

"Cytokine Release Syndrome"[Mesh] OR "Drug-Related Side Effects and Adverse Reactions"[Mesh:NoExp] OR "Dyskinesias"[Mesh:NoExp] OR "Dyskinesia, Drug-Induced"[Mesh] OR "adverse effects" [Subheading] OR "Side effects"[tw] OR "Side effect"[tw] OR Adverse[tw] OR Dyskinesia[tw] OR Dyskinesias[tw] OR Cytokine\*[tw] OR Hypercytokinemia\*[tw] OR neurotoxic\*[tw] OR cytotoxicity[tw] OR cytotoxicities[tw]  
357012

1 AND 2 AND 3

Limits: English

Embase (Elsevier)

1.

'acute lymphoblastic leukemia'/exp OR (((Precursor OR pre OR acute) AND (B OR 'b cell' OR B-acute) AND (Lymphoblastic OR Lymphoid OR Lymphocytic) AND (Leukemia OR Leukaemia OR Leukaemias OR Leukemias OR leukemic)) OR B-ALL)

2.

'blinatumomab'/exp OR 'chimeric antigen receptor'/exp OR 'CD19 antigen'/exp OR 'tisagenlecleucel T'/exp OR 'axicabtagene ciloleucel'/exp OR ("MT-103" OR MT103 OR "MT 103" OR Blincyto OR MEDI-538 OR MEDI538 OR "MEDI 538" OR blinatumomab OR "amg 103" OR amg103 OR "chimeric immunoreceptor" OR "chimeric immunoreceptors" OR "Chimeric antigen receptor" OR "Chimeric t-cell receptor" OR "CAR-T" OR "CAR T" OR "T-Cell Antigen Receptor" OR "T Cell Antigen Receptor" OR "T-Cell Receptors" OR "T Cell Receptors" OR "T-Cell Receptor" OR "T Cell Receptor" OR "T-Cell Antigen Receptors" OR "chimeric antigen receptor" OR CD19 OR Kymriah OR Tisagenlecleucel OR Yescarta OR "axicabtagene ciloleucel" OR "ctl 019" OR ctl019)

3.

'cytokine release'/exp OR 'cytokine storm'/exp OR 'side effect'/lnk OR 'adverse drug reaction'/lnk OR 'neurotoxicity'/exp OR 'adverse drug reaction'/exp OR 'dyskinesia'/exp OR "Side effects" OR "Side effect" OR Adverse OR Dyskinesia OR Dyskinesias OR Cytokine\* OR Hypercytokinemia\* OR neurotoxic\* OR cytotoxicity OR cytotoxicities OR hypercytokinaemia

4.Cochrane Human

(('animal'/exp or 'nonhuman'/exp) NOT 'human'/exp)

(1 AND 2 AND 3) NOT 4

Limits: English

CINAHL Complete (EBSCO)

1.

MH "Lymphoma, B-Cell+" OR MH "Leukemia, Lymphocytic, Acute" OR (((Precursor OR pre OR acute) AND (B OR 'b cell' OR B-acute) AND (Lymphoblastic OR Lymphoid OR Lymphocytic) AND (Leukemia OR Leukaemia OR Leukaemias OR Leukemias OR leukemic)) OR B-ALL)

2.

"MT-103" OR MT103 OR "MT 103" OR Blincyto OR MEDI-538 OR MEDI538 OR "MEDI 538" OR blinatumomab OR "amg 103" OR amg103 OR "chimeric immunoreceptor" OR "chimeric immunoreceptors" OR "Chimeric antigen receptor" OR "Chimeric t-cell receptor" OR "CAR-T" OR "CAR T" OR "T-Cell Antigen Receptor" OR "T Cell Antigen Receptor" OR "T-Cell Receptors" OR "T Cell Receptors" OR "T-Cell Receptor" OR "T Cell Receptor" OR "T-Cell Antigen Receptors" OR "chimeric antigen receptor" OR CD19 OR Kymriah OR Tisagenlecleucel OR Yescarta OR "axicabtagene ciloleucel" OR "ctl 019" OR ctl019

1 AND 2 686

Limits: English

Cochrane Library

Search Name: COGEBP2

Date Run: 16/05/2022 21:53:04

ID	Search Hits
#1	MeSH descriptor: [Precursor B-Cell Lymphoblastic Leukemia-Lymphoma] explode all trees
42	
#2	(((Precursor OR pre OR acute) AND (B OR "b cell" OR B-acute) AND (Lymphoblastic OR Lymphoid) AND (Leukemia OR Leukaemia OR Leukaemias OR Leukemias OR leukemic OR Leukaemia OR Leukaemias)) OR B-ALL):ti,ab,kw 1820
#3	#1 OR #2 1820
#4	MeSH descriptor: [Immunotherapy, Adoptive] explode all trees 122
#5	MeSH descriptor: [Receptors, Antigen, T-Cell] this term only 60
#6	MeSH descriptor: [Receptors, Chimeric Antigen] explode all trees 7
#7	MeSH descriptor: [Antigens, CD19] explode all trees 40

#8 ("MT-103" OR MT103 OR "MT 103" OR Blincyto OR MEDI-538 OR MEDI538 OR "MEDI 538" OR blinatumomab OR "amg 103" OR amg103 OR "Chimeric antigen receptor" OR "Chimeric t-cell receptor" OR "CAR-T" OR "CAR T" OR "T-Cell Antigen Receptor" OR "T Cell Antigen Receptor" OR "T-Cell Receptors" OR "T Cell Receptors" OR "T-Cell Receptor" OR "T Cell Receptor" OR "T-Cell Antigen Receptors" OR "chimeric antigen receptor" OR "chimeric immunoreceptor" OR "chimeric immunoreceptors" OR Adoptive OR CD19 OR Kymriah OR Tisagenlecleucel OR Yescarta OR "axicabtagene ciloleucel"):ti,ab,kw 3638  
 #9 #4 OR #5 OR #6 OR #7 OR #8 3660  
 #10 #3 AND #9 157

Scopus (Elsevier)

((((Precursor OR pre OR acute) AND (B OR 'b cell' OR B-acute) AND (Lymphoblastic OR Lymphoid OR Lymphocytic) AND (Leukemia OR Leukaemia OR Leukaemias OR Leukemias OR leukemic)) OR B-ALL) AND ("MT-103" OR MT103 OR "MT 103" OR Blincyto OR MEDI-538 OR MEDI538 OR "MEDI 538" OR blinatumomab OR "amg 103" OR amg103 OR "chimeric immunoreceptor" OR "chimeric immunoreceptors" OR "Chimeric antigen receptor" OR "Chimeric t-cell receptor" OR "CAR-T" OR "CAR T" OR "T-Cell Antigen Receptor" OR "T Cell Antigen Receptor" OR "T-Cell Receptors" OR "T Cell Receptors" OR "T-Cell Receptor" OR "T Cell Receptor" OR "T-Cell Antigen Receptors" OR "chimeric antigen receptor" OR CD19 OR Kymriah OR Tisagenlecleucel OR Yescarta OR "axicabtagene ciloleucel" OR "ctl 019" OR ctl019)

Limits: English

Oncology Nursing Society <https://www.ons.org/>

- Search: ("Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors")
- Journals: <https://www.ons.org/journals>
  - Clinical Journal of Oncology Nursing (indexed for PubMed/MEDLINE)
  - Oncology Nursing Forum (indexed for PubMed/MEDLINE)
  - Magazine: ONS Voice

Society of International Pediatric Oncology <https://siop-online.org/>

- Search: ("Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors")
- Journal: <https://siop-online.org/journal/>  
<https://onlinelibrary.wiley.com/journal/15455017>
  - Pediatric Blood and Cancer (PBC) (indexed for PubMed/MEDLINE)

American Society of Clinical Oncology <https://www.asco.org/>

- Search: "Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors" site:asco.org
  - Filetype:pdf "Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors" site:asco.org filetype:pdf
- Journals: <https://ascopubs.org/>
  - Journal of Clinical Oncology (indexed for PubMed/MEDLINE)
    - <https://ascopubs.org/journal/jco>
    - "J Clin Oncol"[jour]
  - JCO Oncology Practice (indexed for PubMed/MEDLINE)

- JCO Global Oncology (indexed for PubMed/MEDLINE)
- JCO Clinical Cancer Informatics (indexed for PubMed/MEDLINE)
- JCO Precision Oncology (indexed for PubMed/MEDLINE)

**Association of Pediatric Hematology/ Oncology Nurses** <https://aphon.org/>

- Search: "Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors" site:aphon.org/ [1 results](#) (conference schedule)
- 
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**American Society of Pediatric Hematology/Oncology** <http://aspho.org/>

- Search : "Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors" site:aspho.org/
- Journal: same as Society of International Pediatric Oncology: Pediatric Blood and Cancer (indexed for PubMed/MEDLINE)

**Children's Oncology Group** <https://www.childrensoncologygroup.org/>

- Search: "Anaplastic lymphoma kinase inhibitors" OR "ALK inhibitors" OR "mitogen activated protein kinase inhibitors" OR "MEK inhibitors" site:childrensoncologygroup.org/
- No journal