

Does not include blinatumomab

Managing ICANS

General Principles

- Consider neurologic consult for grade ≥1 ICANS
- Assess for concurrent symptoms of CRS (can treat concurrently with ICANS)
- Levetiracetam 500 mg PO/IV twice daily for seizure prophylaxis for grade ≥2 (consider earlier for grade 1)
- Assess for alternative causes of symptoms – consider CT head, MRI, EEG, or LP, as appropriate
- For recurrent grade 3, grade ≥3 seizure, or any grade 4 ICANS, discontinue agent permanently

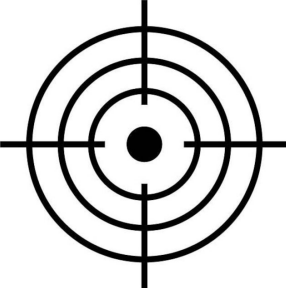
ICANS	Pharmacologic
Grade 1	<ul style="list-style-type: none"> • Observation can generally be considered • Consider dexamethasone 10 mg (PO/IV) once, especially if patient at high risk for complications or high tumor burden; may schedule daily for persistent symptoms
Grade 2	Dexamethasone 10 mg PO/IV every 8 to 12 hours <ul style="list-style-type: none"> • May consider increasing dexamethasone dose to 20 mg if no improvement
Grade 3	Dexamethasone 10 to 20 mg IV every 6 hours <ul style="list-style-type: none"> • May consider increasing dexamethasone dose to 20 mg if no improvement <small>(could consider high-dose methylprednisolone 500-1000 mg every 24 hours, or divided doses)</small>
Grade 4	Dexamethasone 20 mg IV every 6 hours <small>(could consider increasing to methylprednisolone 1000 mg IV every 24 hours)</small>

Tocilizumab does NOT cross the blood brain barrier (so should not be used for ICANS)

Consider anakinra for refractory ICANS - if used, add levofloxacin and anti-mold coverage due to increased risk of infections

For tarlatamab & tebentafusp: May consider lower dexamethasone doses within the range provided; for grade 2, recommend one-time dexamethasone dose for initial management

19



On Target, OFF TUMOR

Uveal melanoma (HLA-A*02:01-positive; Example: Tebentafusp)

- **Target** = GP100 - expressed weakly by melanocytes
- **Toxicity:** Rash

Small cell lung cancer (Example: Tarlatamab)

- **Target** = DLL3 - expressed intracellularly
- **Toxicity:** ?

Lymphoma (Example: Glofitamab)

- **Target** = CD20- expressed on B-cells
- **Toxicity:** Hypogammaglobulinemia

20

GPRC5D Expression in Keratinized Tissue

GPRC5D protein is expressed on CD138+ multiple myeloma cells

- However, it is also normally expressed in hair follicles and keratinized tissue (e.g., hair, skin, tongue, nails)

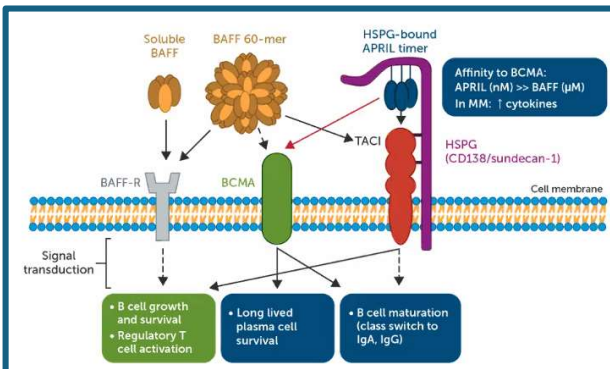
On-target, OFF TUMOR inhibitory effects of GPRC5D therapy, including talquetamab:

- Skin: palmar-plantar erythrodysesthesia (hand foot syndrome), skin discoloration, desquamation, fissure, rash
- Nails: hypertrophy, nail changes
- Oral toxicity/weight loss: Dysgeusia, dry mouth, dysphagia, stomatitis (80%)



GPRC5D = G protein-coupled receptor class C group 5 member D

21



Target = Toxicity



B-Cell Maturation Antigen (BCMA)

Examples: Elranatamab and teclistamab

Since BCMA found on plasma cells, expect decreased production of antibodies, or immunoglobulins

Toxicity: Hypogammaglobulinemia (75%)

- Infections: >80% (grade 3/4: >40-50%)
 - *Viral:* Hepatitis B Virus, Hepatitis C Virus (HCV), Cytomegalovirus (CMV), COVID-19, Herpes Simplex Virus (HSV), Varicella Zoster Virus (VZV), Respiratory Syncytial Virus (RSV)
 - *Bacterial:* Gram+/Gram-
 - Fungal infections

22

Blinatumomab in B-ALL

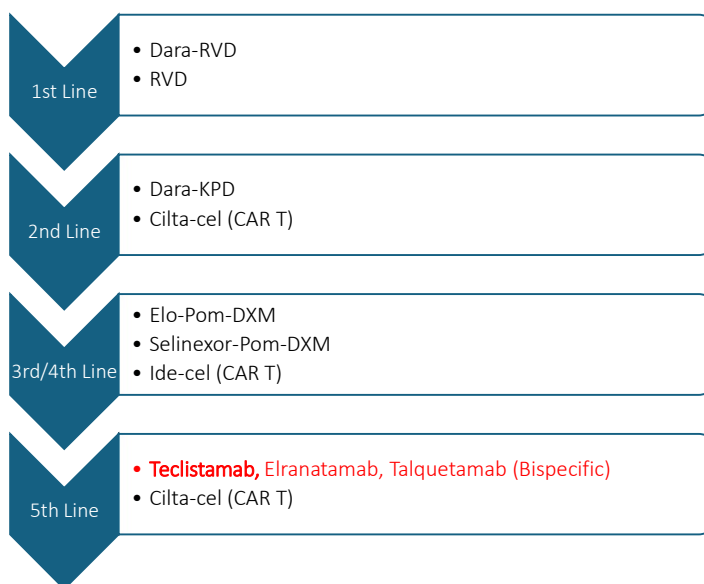
- Blinatumomab (CD19 BITE) should be used in most patients with B-ALL
- May be used in....
 - Frontline B-ALL in combination with reduced intensity chemotherapy and antibody therapy (Inotuzumab, rituximab) in older, frailer patients
 - Minimal residual disease (MRD) positivity (often as bridge to consolidation with alloBMT)
 - Relapsed/Refractory disease
 - MRD negative patients as consolidation to prevent relapse, in combination with standard chemoimmunotherapy
- Short duration hospital stay recommended for C1 and 2 (3-9 days)
- Lots of coordination needed with home infusion due to continuous pump administration

23

Myeloma Treatment



Bispecifics
Target=BCMA,
GPRC5D



Abbreviations: CAR T=chimeric antigen receptor CAR T-cell therapy; Cilta-cel=Ciltacabtagene autoleucel; Ide-cel=Idcabtagene vicleucel

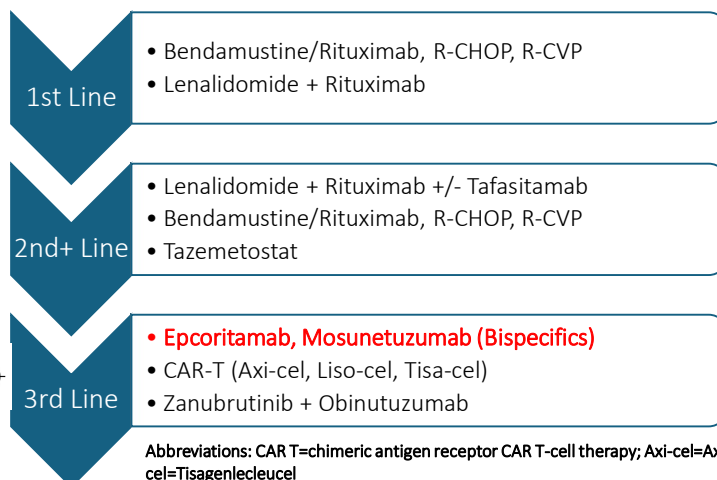
24


Bispecifics in Multiple Myeloma

- Very promising single agent activity with durable remissions in multiply R/R patients
- Hospitalization/observation for approximately 1 week while stepping up doses
- Multiple Bispecific targets in R/R MM space (BCMA, GPRC5D)
 - Current FDA approval in 5th line setting, triple class refractory
- CRS is common but rarely high grade. ICANS is uncommon (<10%) and rarely high grade.
- Caution using BCMA targeted Bispecifics in potential CAR-T candidates (antigen loss)
 - CAR T now approved as second line and is prioritized earlier in treatment

25

Follicular Lymphoma Treatment



 Bispecifics
Target=CD20

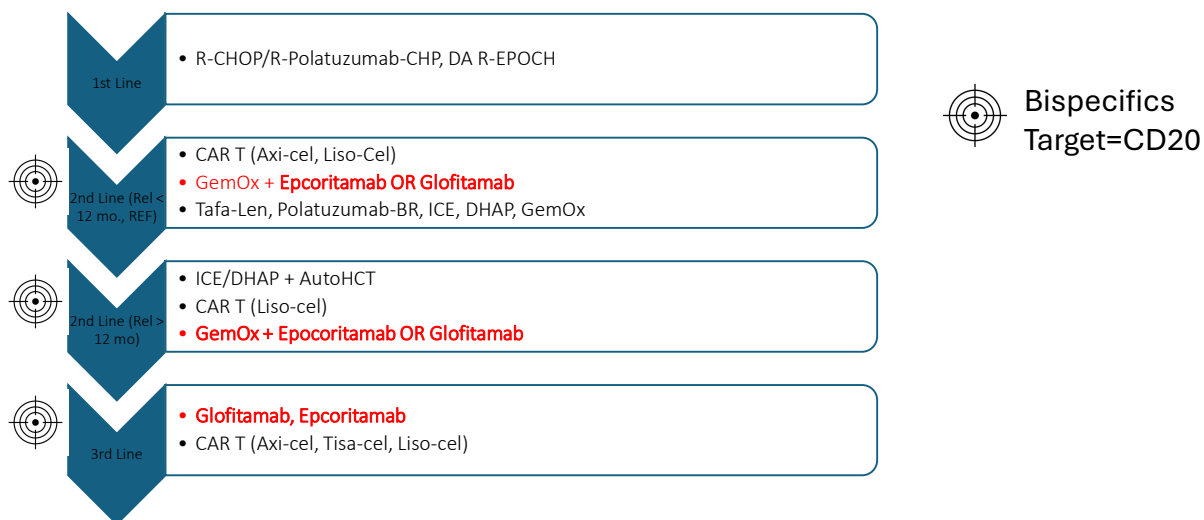
26

Bispecifics in FL

- FL bispecifics appear to have similar ORR and CR rates (~80% and 60%) in R/R setting, with durable remission
- Epcoritamab given until progression, whereas Mosunetuzumab given as fixed duration therapy 8-17 cycles
 - Potential for re-treatment with Mosunetuzumab upon progression
- CRS is common but almost all low-grade. Neurotox is uncommon.
- Hospitalization not required for Mosunetuzumab or Epcoritamab for FL
- Mosunetuzumab vs. CAR T – more neurotox with CAR-T. Overall similar response rates and durable remissions.

27

Diffuse Large B-cell Lymphoma Treatment



28

Bispecifics in DLBCL

- Glofitamab and Epcoritamab both received accelerated FDA approval in R/R DLBCL. Response rates ~50-60% with CR rates ~40%. Responses can be durable
- Epcoritamab given until disease progression; Glofitamab given as fixed duration for 12 cycles
- 24-hour hospitalization is recommended for 1st dose of glofitamab (day 8) and 1st full dose of epcoritamab (day 15)
- Bispecifics can be combined safely with chemotherapy (Gem-Ox) in salvage setting as second line, although data for CAR T in refractory or REL < 12 mo is strongest and thus preferred

29

Tarlatamab for Small Cell Lung Cancer

- Bispecific targeting DLL3 (~85% of SCLC overexpress DLL3) PJ2
- FDA accelerated approval for 2nd line in extensive stage SCLC (2024)
- Phase II DELPHI 301 study established 10 mg as maximally effective dose, given every 2 weeks
- IV infusion given over 1 hour
- Per NCCN, one of preferred treatments for chemo-free interval (CTFI) ≤6 months
 - Consider rechallenging with platinum-based doublet if CTFI >3-6 months

Tarlatamab Dosing²

Dosing and Schedule

Tarlatamab:

- Step-Up: 1 mg C1D1, 10 mg C1D8, 10 mg C1D15
- Maintenance: 10 mg on day 1 & 15 of C2+
- Premeds: 1L NS over 4-5 hours after all doses in C1, DXM 8 mg IV prior to C1D1 and D8

Recommended Post Infusion Monitoring

- Administer 1st 2 step-up doses in AHCI outpatient infusion center and then admit to bedded outpatient status for 24 hours
- If well tolerated, further monitoring in outpatient setting
- C1D15 & C2: observe for 6-8 hr
- C3 & 4: observe for 3-4 hr
- C5 onwards: observe for at least 2 hr post infusion
- Recommend that patient remain within 1 hr of a healthcare facility

[Tarlatamab tip sheet.pdf](#)

30

PJ1 Our tip sheet says the following: Administer the first 2 step-up doses in AHCI Infusion, then admit to inpatient oncology unit under Bedded Outpatient status* for cytokine release syndrome (CRS) and neurotoxicity/ICANS monitoring. • C1D1 and C1D8: 22-24 hour observation from the start of the infusion • The manufacturer recommends a 22-24 hour observation period when resuming therapy after experiencing CRS or ICANS \geq grade 2 Administer subsequent doses and monitor in an AHCI infusion center: • Cycle 1, day 15 and cycle 2: 6-8 hour post infusion observation • Cycles 3-4: 3-4 hour post infusion observation • Cycles 5+: 2 hour post infusion observation .

Dexamethasone 8 mg IV prior to C1D1 and C1D8 doses • 1 liter of NaCl 0.9% over 4-5 hours after all doses in cycle 1

Preedit, Justine, 2025-02-17T20:21:32.787

PJ2 It doesn't look like NCCN prefers tarlatamab over topotecan, lurbinectedin, or irinotecan - also can consider rechallenge of platinum doublet for CTFI 3-6 months

Preedit, Justine, 2025-02-17T20:23:02.808

FDA-Approved Agents for Relapsed ES-SCLC

Study	N	ORR, %	mDoR, Mo	mPFS, Mo	mOS, Mo	6-Mo Survival, %	IC Activity Reported
Topotecan ¹	101	21.7	7.6	2.8	5.4	-	Y
Lurbinectedin ^{2,3}	105 ²	35.2 ²	5.3 ^{2,3}	3.5 ²	9.3 ²	67.1 ²	N
Tarlatamab (10 mg)^{4,5}	100 ⁵	40 ⁵	9.7 ⁵	4.3 ⁵	15.2 ⁵	73.4 ⁵	Y (10/16) ⁶

1. Ardizzoni. JCO. 1997;15:2090. 2. Trigo. Lancet Oncol. 2020;21:645. 3. Peters. Lung Cancer. 2024;188:107448. 4. Ahn. NEJM. 2023;389:2063. 5. Sand. WCLC 2024. Abstr OA10.03. 6. Dowlati. JCO.

31