

### **WELCOMING REMARKS**

EMPOWERING MYELOMA PATIENTS: STRATEGIES FOR MANAGING SIDE EFFECTS

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### **DISCLOSURES**

EMPOWERING MYELOMA PATIENTS: STRATEGIES FOR MANAGING SIDE EFFECTS

Dr. Noffar Bar Consulting: Sanofi

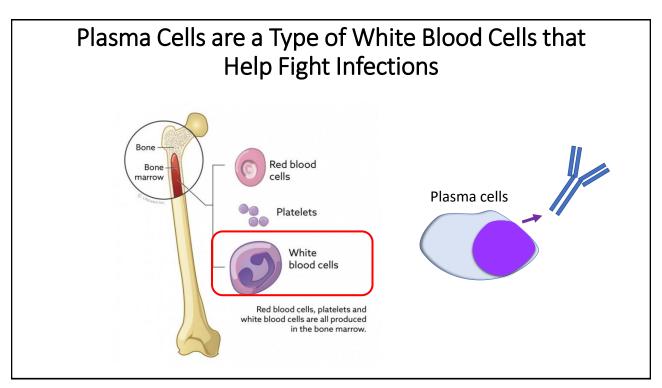


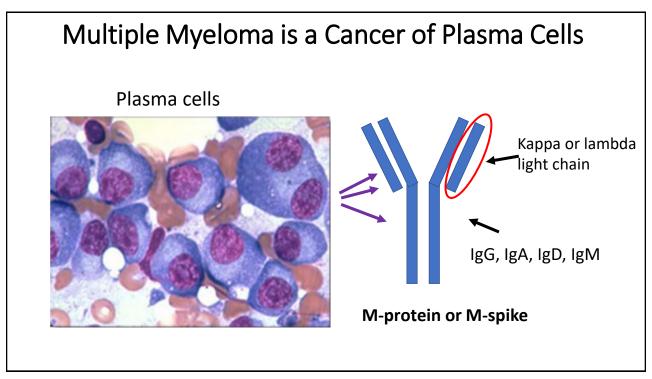
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# Structure of Today's Talk

- Brief overview of myeloma diagnosis and goals of treatment
  - What is new in treatment of newly diagnosed myeloma
  - What is new in treatment of relapsed refractory myeloma

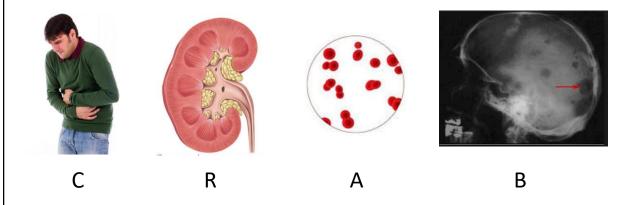
As patients with myeloma are living longer, we must continue to work on maintaining and or improving quality of life





# How Does Multiple Myeloma Affect the Body?

High calcium, Kidney (renal) damage, anemia and bone pain/lesions



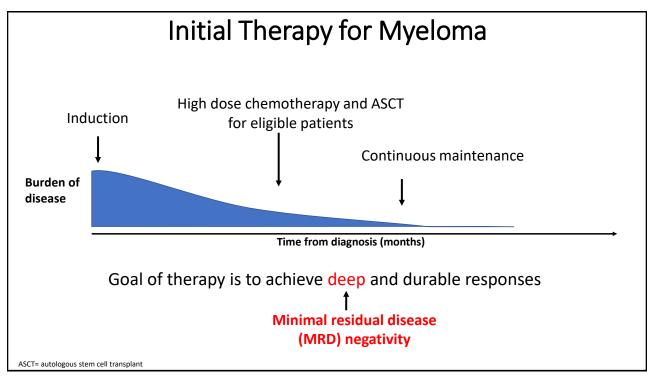
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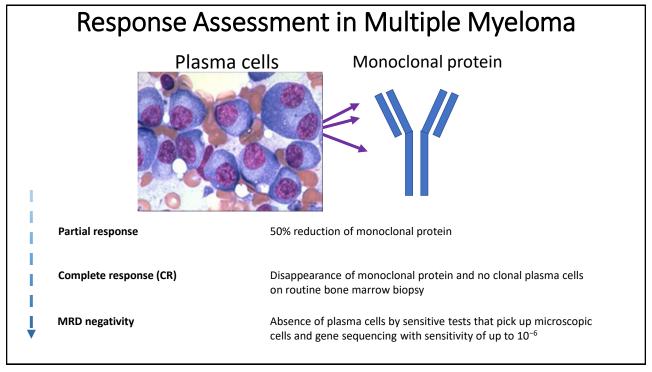
# Myeloma Diagnosis: Impact on Quality of Life

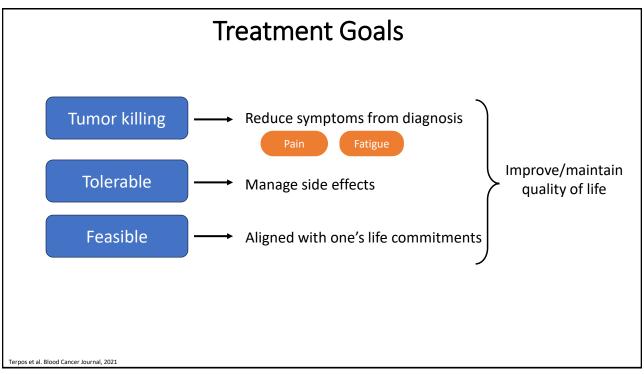
- Increased health system interaction: physician visits, treatment visits
- Mental burden of taking anti-myeloma treatment for years
- Side effects from anti-myeloma treatments
- Pain from myeloma bone disease: physical therapy and multidisciplinary care with neurosurgeon and pain management is important

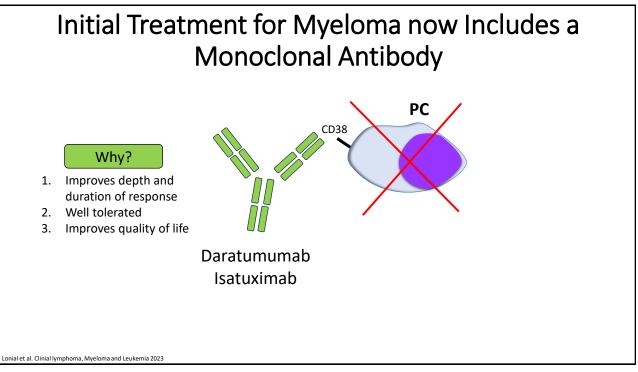
Pain

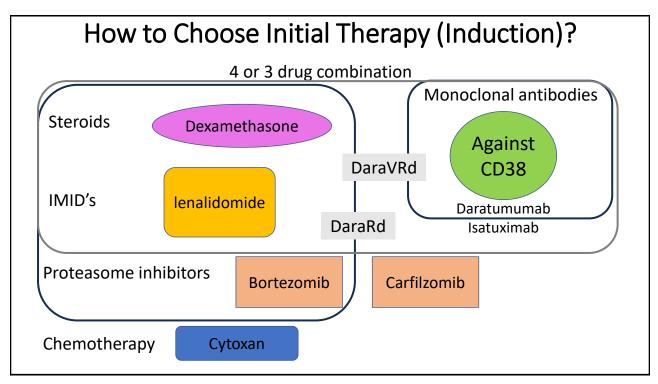
**Fatigue** 

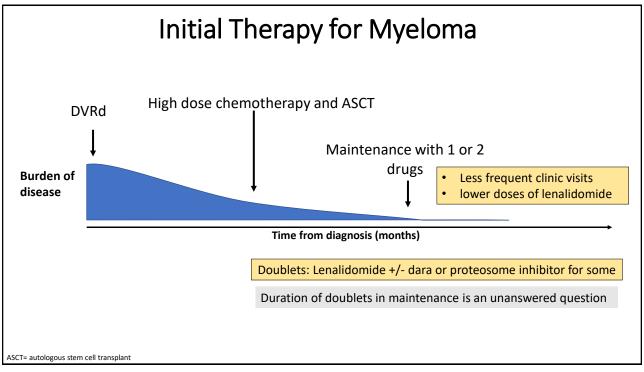






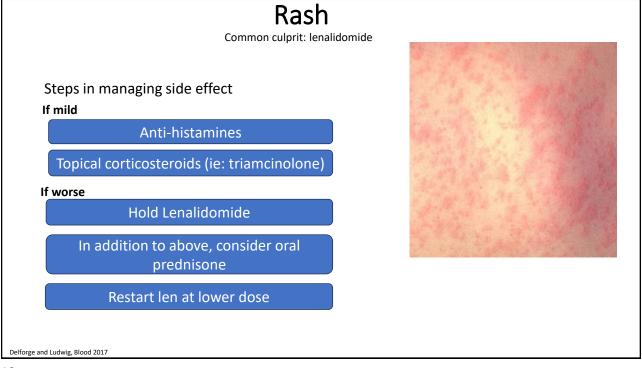






# Rash Neuropathy Fatigue GI side effects Common culprit lenalidomide bortezomib lenalidomide Diarrhea: lenalidomide lenalidomide Steroid related side effects

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# Peripheral Neuropathy

Common culprit: bortezomib

Higher risk

- · Twice weekly dosing
- IV formulation

Steps of managing side effect

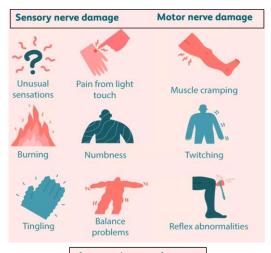
Monitoring for symptoms and adjusting dose for mild symptoms

Holding dose when neuropathy involves pain or more than mild

Gabapentin, pregabalin or anti-depressant to improve pain

Very limited data for electroacupuncture

Garcia et al. journal of hematology and oncology 2014; Richardson et al Leukemia 2012



Autonomic nerve damage

Dizziness after standing up

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# Diarrhea

Common culprit: lenalidomide



- · Lenalidomide has small amount of lactose
- · Lenalidomide can lead to bile acid malabsorption

Managing side effect

Fluid intake

Imodium trial

Low fat diet

Bile acid binders like colesevelam (welchol)

Dose reduction depending on severity and response to initial steps

Taken in the AM, at least 4 hours apart from lenalidomide

Hultcrants, et al, Blood Caner Journal, 2024; Pawlyn et al, Blood 2014; Smith et al. Clinical Journal of Oncology Nursing, 2008

# Constipation

Common culprit: bortezomib

Other factors that can contribute to constipation

- Opiates
- Anti-nausea medication like zofran

Managing side effect

Increase water intake

Mobility

Fiber

Stool softener/laxative colace/senna/miralax



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# Dexamethasone

Dexamethasone is given as part of anti-myeloma therapy and as a pre-medication prior to daratumumab

Fluid retention- leg swelling

High blood pressure

High blood sugars

Cataracts

Insomnia-> fatigue

Mood changes

Bone density loss

Muscle weakness

Infections

Some toxicities occur in the short term and others over time

Dose reduction of dex does not appear to worsen outcomes in induction using double and triplets (prior to addition of Daratumumab in upfront therapy).

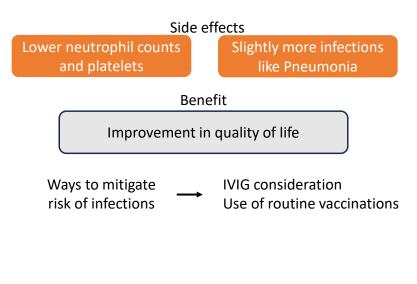


Dex is not needed as pre-med after first few cycle of daratumumab

Goals: Lower dose for toxicity + Minimizing unneeded steroids

Lonial et al. Clinial lymphoma, Myeloma and Leukemia 2023; Aaron Rosenberg, Leukemia & Lymphoma 2023; Banerjee et al, Blood 2024

# What About the Addition of Daratumumab in Induction

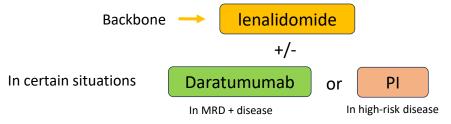


Facon et al Lancet Oncology 2021; Sonneveld et al, NEJM 2024; Perrot et al, JCO 2021

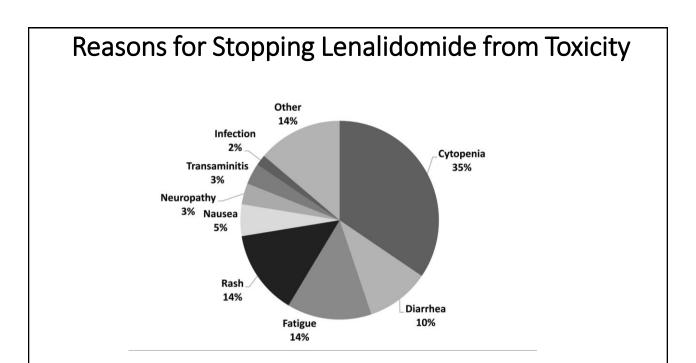
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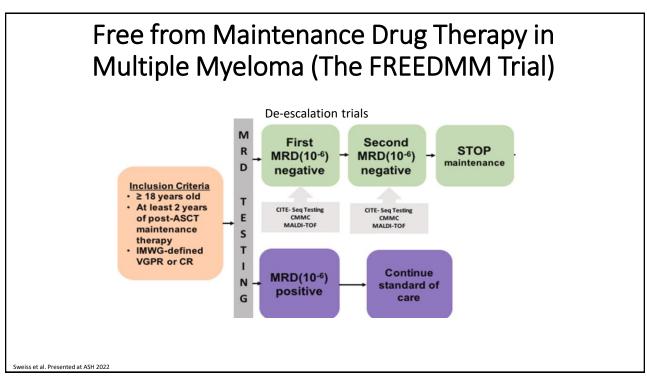
# Maintenance: Continuous Therapy Usually for Several Years

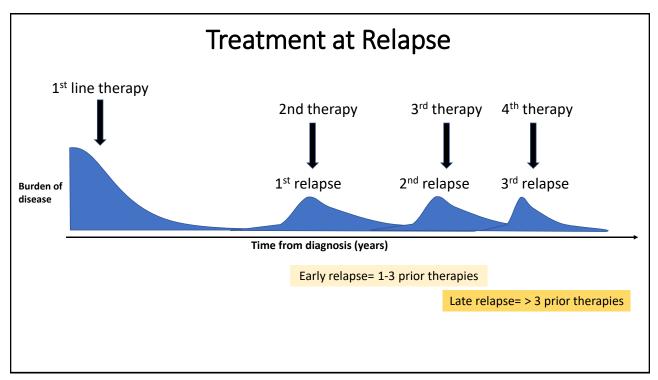
Maintenance should be individualized to the patient

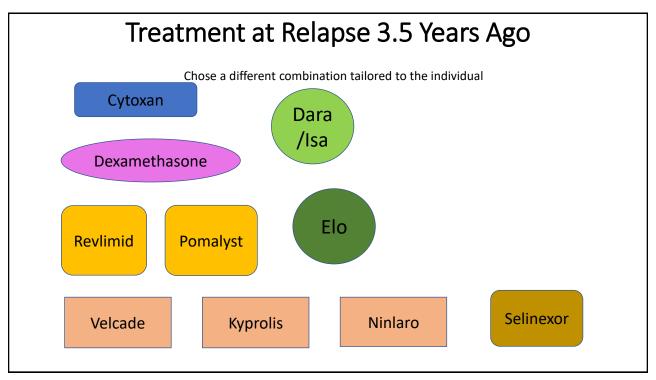


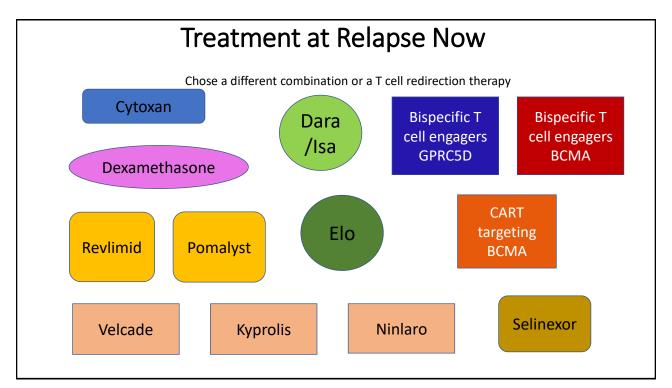
Clinical trials are looking at stopping maintenance based on sustained minimal residual disease negativity

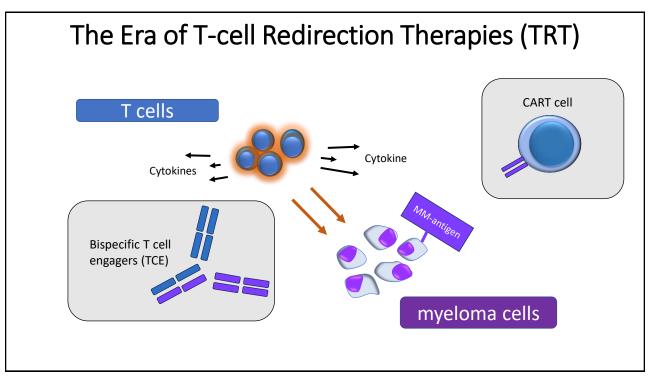


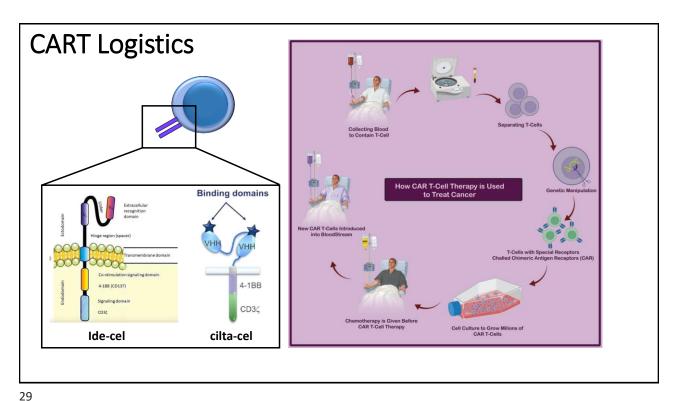


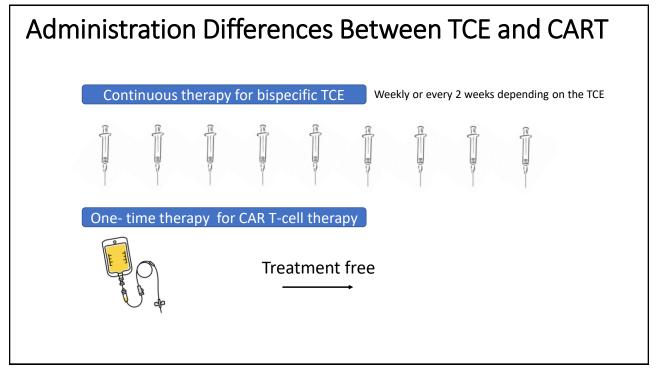








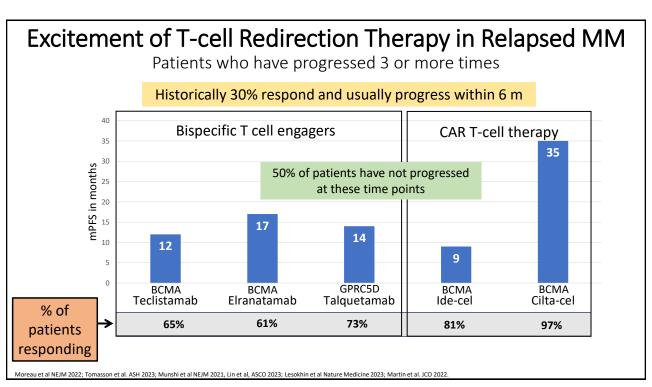


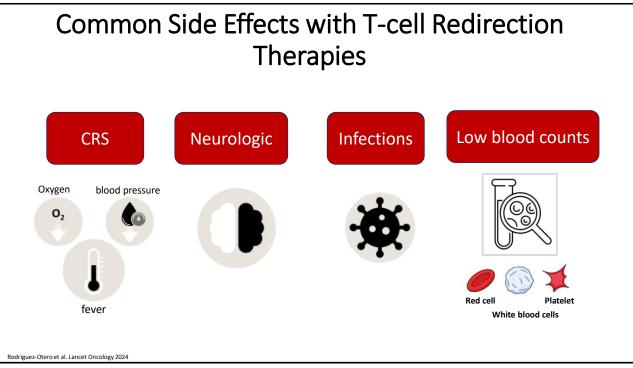


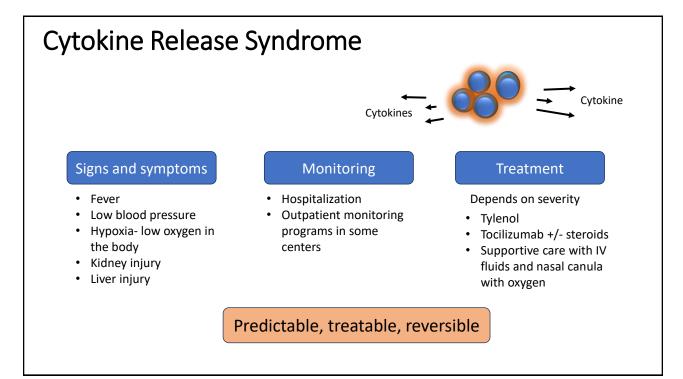
# Common Targets Used to Redirect the T-cell

- BCMA is expressed on myeloma cells and B cells. It promotes plasma cell survival and is induced during plasma cell differentiation
- GPRC5D is expressed on myeloma cells, eccrine glands and hair follicles. Its role is not clear.
- There are more in clinical development

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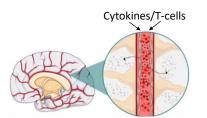




# **Neurologic Side Effects**

Cytokines and T-cells cross the blood brain barrier





### Signs and symptoms

- Headache
- Confusion
- Tremors
- Handwriting changes
- Attention changes
- Word finding difficulties
- Seizures (rare)

### Monitoring

- Hospitalization
- Outpatient monitoring programs in some centers
- · Questions regarding orientation, attention, speech, writing: ICE score

### treatment

Depends on severity

- Steroids
- Anti-seizure prophylaxis

Predictable, treatable, reversible

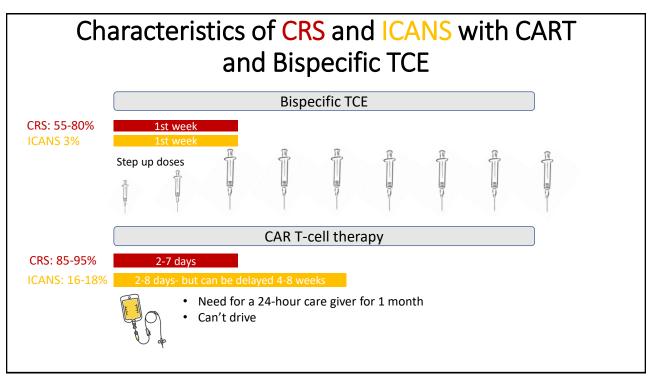
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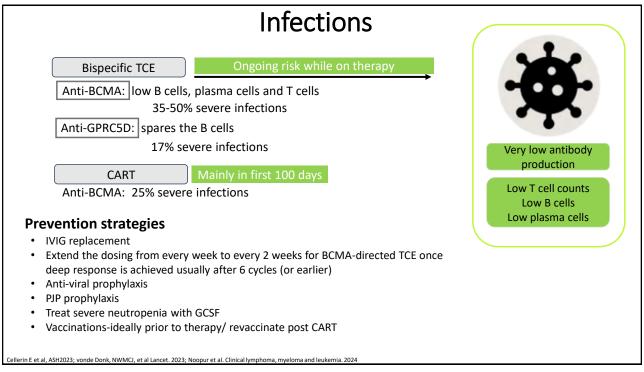
**ICANS** 

# Other Rare Neurologic Side Effects Seen with **CAR T-cell Therapy**

- NMT's- movement and neurocognitive changes that might not be reversible: seen in about 5%
- Cranial nerve palsy- about 6%

Cohen et al. Blood Cancer journal, 2022





# **Low Blood Cell Counts**

**Bispecific TCE** 

In the first 1-2 months

Platelets < 50 Neutrophils < 1000

Anti-BCMA 20-25% 50-65% Anti-GPRC5D 11-23% 32-60%







**CART** 

Most recover after 2 months

Can persist past 2 months (< 30%)

White blood cells Particularly neutrophils and lymphocytes

Platelets < 50: 50-60% Neutrophils < 1000: 95%

### Management

- Blood/plt transfusions
- · Growth factors like GCSF
- · Anti-infective prophylaxis when neutrophils are low

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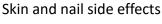
## Common GPRC5D-Related Side Effects

Oral side effects



Taste change/loss Dry mouth

Skin peeling/Rash





**Nail changes** 

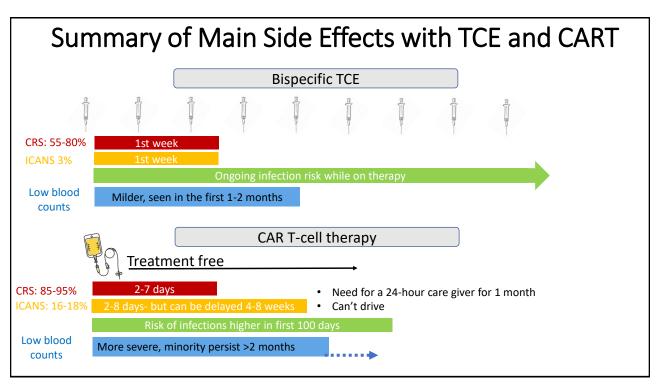
### Management

Biotin, hydration, salivary stimulants Oral steroid solution Referral to a nutritionist

Topical moisturizers Topical corticosteroids.



Dose reduction, holding or modification to every 4 weeks instead of 2 weeks improves side effects without negatively impacting duration of response



# Other Considerations to Improve Side Effects

### CAR T-cell therapy

- Better bridging therapy to control disease prior to CART
- Giving CART earlier now approved for early relapse (lower rates of CRS and ICANS)

### **Bispecific TCE**

- Extend intervals between doses:
- ☐ Improve infectious risk
- ☐Improve GPRC5D related side effects
- ☐ Reduced clinic visits
- Future studies looking at fixed duration of dosing

Cohen et al. Blood Cancer journal, 2022: San Miguel et al NEJM 2023: Chakraborty et al. Blood Cancer Journal 2024

### How to Choosing Therapies for Relapsed Myeloma? The more effective the treatment **Tumor killing** the longer disease control CRS and ICANS are temporary, but Dose modification can improve side effects Tolerable GPRC5D side effects might not be without affecting the tolerable by some tumor killing Need for care giver, no driving, time Feasible out of work for CART QOL Need for hospitalization and small potential for more severe side effects with CART (< 5%) consideration

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# Ways to Improve Quality of Life During the Myeloma Journey

- Talk to your oncologist about what your values and preferences in therapies
- Discuss new symptoms when they arise
- You have choices at relapse and important to fully understand the options
- Multi-disciplinary approach to pain management- palliative care team, physical therapy, neurosurgeon in some cases
- Social support- myeloma support groups, social work

# Conclusion

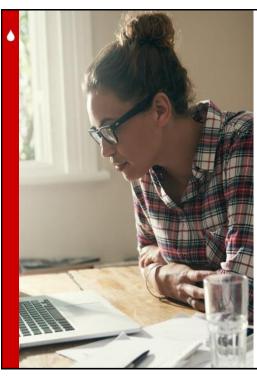
Myeloma therapy is improving

People are living longer

Individualized treatment strategies and modifications are important to minimize side effects and improve quality of life

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# EMPOWERING MYELOMA PATIENTS: STRATEGIES FOR MANAGING SIDE EFFECTS?

Ask a question by phone:

Press star (\*) then the number 1 on your keypad.

Ask a question by web:

Click "Ask a question"

Type your question

Click "Submit"

Due to time constraints, we can only take one question per person. Once you've asked your question, the operator will transfer you back into the audience line.



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### LLS EDUCATION & SUPPORT RESOURCES



### **HOW TO CONTACT US:**

To contact an **Information Specialist** about disease, treatment and support information, resources and clinical trials:

Call: (800) 955-4572

Monday to Friday, 9 a.m. to 9 p.m. ET

### Chat live online:

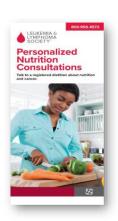
www.LLS.org/InformationSpecialists Monday to Friday, 10 a.m. to 7 p.m. ET

### Email: www.LLS.org/ContactUs

All email messages are answered within one business day.

### **CLINICAL TRIAL SUPPORT CENTER**

Work one-on-one with an LLS Clinical Trial Nurse Navigator who will help you find clinical trials and personally assist you throughout the entire clinical-trial process. www.LLS.org/Navigation



### NUTRITION CONSULTATIONS

Our registered dietitian has expertise in oncology nutrition and provides free one-on-one consultations by phone or email. www.LLSNutrition.org



### LLS EDUCATION & SUPPORT RESOURCES



### Online Chats

Online Chats are free, live sessions, moderated by oncology social workers. To register or for more information, please visit <a href="https://www.LLS.org/Chat">www.LLS.org/Chat</a>



### **Education Videos**

View our free education videos on disease, treatment, and survivorship. To view all patient videos, please visit www.LLS.org/EducationVideos



### **Patient Podcast**

**The Bloodline with LLS** is here to remind you that after a diagnosis comes hope. To listen to an episode, please visit **www.TheBloodline.org** 



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### LLS EDUCATION & SUPPORT RESOURCES

LEUKEMIA 6
SYMPHOMA
SOCIETY

Helpo With Finances
The Leukemia & Lymphoma Society (LLS) offers financial assistance\* to help individuals with blood cancer.

The LLS Patient Alk Program provides financial assistance in blood control patients in active treatment. Eighte patients will receive a \$00 septem. Visit www.LLS on phetation in active treatment Eighte patients will receive a \$00 septem. Visit www.LLS on phetation in active treatment Eighte patients will receive a \$00 septem. Visit www.LLS on phetation will receive a \$00 septem. Visit www.LLS on phetation will receive a \$00 septem. Visit www.LLS on phetation will receive a \$00 septem. Visit www.LLS on purpose patients who are enrolled in clinical bids, with each financial need. The program provides blood cancer. A will receive a \$00 septem. Visit www.LLS on purpose a \$00 s

The Leukemia & Lymphoma Society (LLS) offers the following financial assistance programs to help individuals with blood cancers: www.LLS.org/Finances



To order free materials: www.LLS.org/Booklets



