

Inside the Issue: Managing Ocular Toxicities Associated with Antibody-Drug Conjugates and Other Cancer Therapies

A CME/MOC-Accredited Live Webinar

Thursday, July 17, 2025

5:00 PM – 6:00 PM ET

Faculty

Rebecca A Dent, MD, MSc

Hans Lee, MD

Neel Pasricha, MD

Tiffany A Richards, PhD, ANP-BC, AOCNP

Moderator

Neil Love, MD

Faculty



Rebecca A Dent, MD, MSc
Senior Consultant
National Cancer Centre Singapore
Singapore



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Nurse Practitioner
Department of Lymphoma/Myeloma
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MODERATOR
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University of California, San Francisco
San Francisco, California

Commercial Support

This activity is supported by educational grants from AstraZeneca Pharmaceuticals LP, Daiichi Sankyo Inc, and GSK.

Dr Love — Disclosures

Dr Love is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following companies: Aadi Bioscience, AbbVie Inc, ADC Therapeutics, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Arvinas, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeOne, Black Diamond Therapeutics Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol Myers Squibb, Clovis Oncology, Coherus BioSciences, CTI BioPharma, a Sobi Company, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, Exact Sciences Corporation, Exelixis Inc, Genentech, a member of the Roche Group, Genmab US Inc, Geron Corporation, Gilead Sciences Inc, GSK, Hologic Inc, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Jazz Pharmaceuticals Inc, Johnson & Johnson, Karyopharm Therapeutics, Kite, A Gilead Company, Kura Oncology, Legend Biotech, Lilly, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Mural Oncology Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Nuvalent, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Rigel Pharmaceuticals Inc, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Syndax Pharmaceuticals, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, and Tesaro, A GSK Company.

Research To Practice CME Planning Committee Members, Staff and Reviewers

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Prof Dent — Disclosures

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Dr Lee — Disclosures

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Dr Pasricha — Disclosures

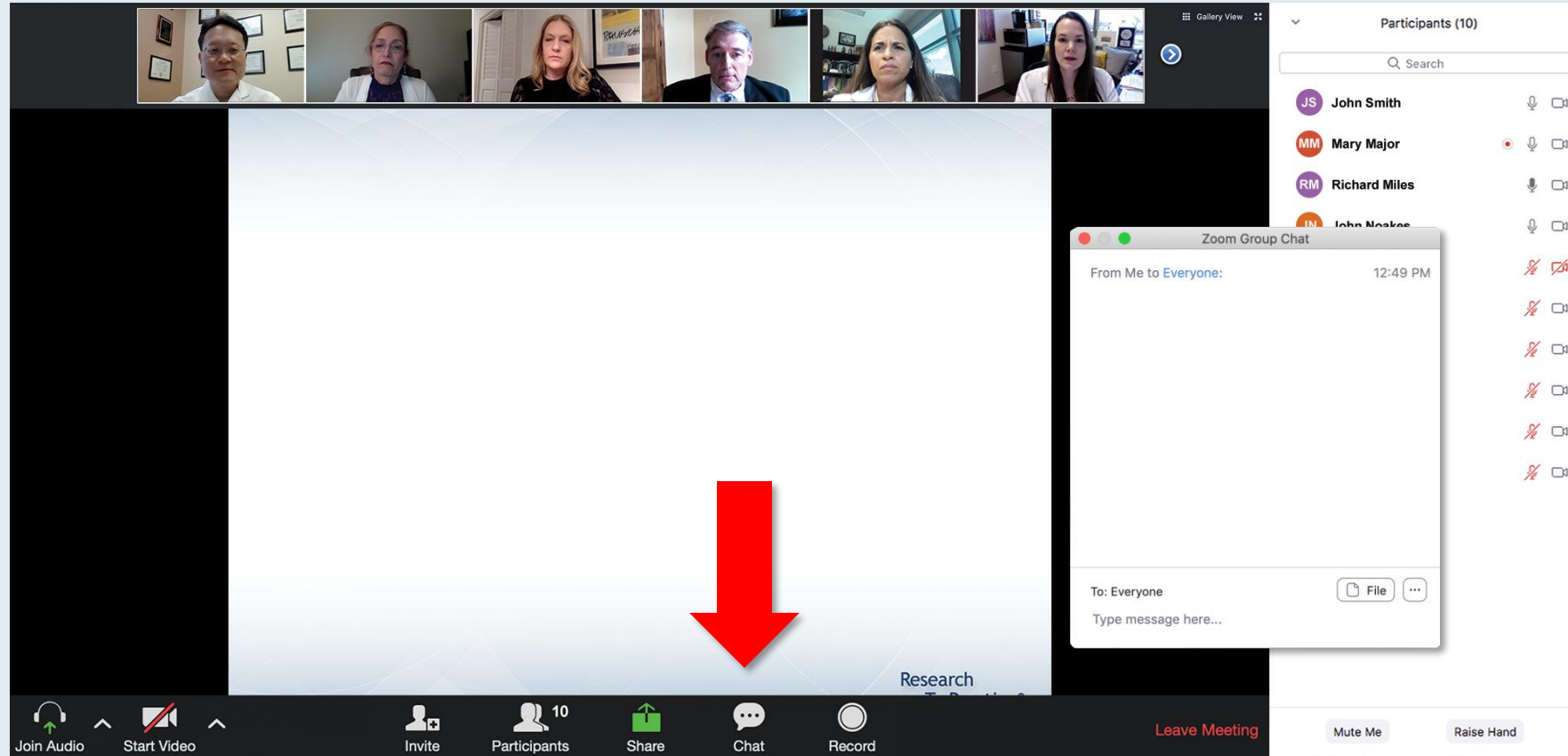
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Dr Richards — Disclosures

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This educational activity contains discussion of non-FDA-approved uses of agents and regimens. Please refer to official prescribing information for each product for approved indications.

We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.

Familiarizing Yourself with the Zoom Interface

Expand chat submission box

The screenshot shows a Zoom meeting interface. At the top, there's a header bar with participant names: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below this is a slide titled "Meet The Professor Program Participating Faculty" featuring six faculty members with their photos and titles. To the right, a chat window is open, showing messages from "Me to Panelists" and "Me to Panelists and Attendees". A red arrow points to the white line above the chat submission box, indicating how to expand it.

Meet The Professor Program Participating Faculty

 Nancy L Bartlett, MD Professor of Medicine Koman Chair in Medical Oncology Washington University School of Medicine St Louis, Missouri	 Jonathan W Friedberg, MD, MMSc Samuel E Durand Professor of Medicine Director, James P Wilmot Cancer Institute University of Rochester Rochester, New York
 Carla Casulo, MD Associate Professor of Medicine Division of Hematology/Oncology Director, Hematology/Oncology Fellowship Program University of Rochester Wilmot Cancer Institute Rochester, New York	 Brian T Hill, MD, PhD Director, Lymphoid Malignancy Program Cleveland Clinic Taussig Cancer Institute Cleveland, Ohio
 Christopher R Flowers, MD, MS Chair, Professor Department of Lymphoma/Myeloma The University of Texas MD Anderson Cancer Center Houston, Texas	 Brad S Kahl, MD Professor of Medicine Washington University School of Medicine Director, Lymphoma Program Siteman Cancer Center St Louis, Missouri

Chat

Me to **Panelists** 4:31 PM

Welcome and thank you for attending! To access the slides from today's session please use the link below.
http://images.researchtopractice.com/2021/Meetings/Slides/MTP_ToGo_CLL_2021_April1.pdf

Me to **Panelists and Attendees** 4:32 PM

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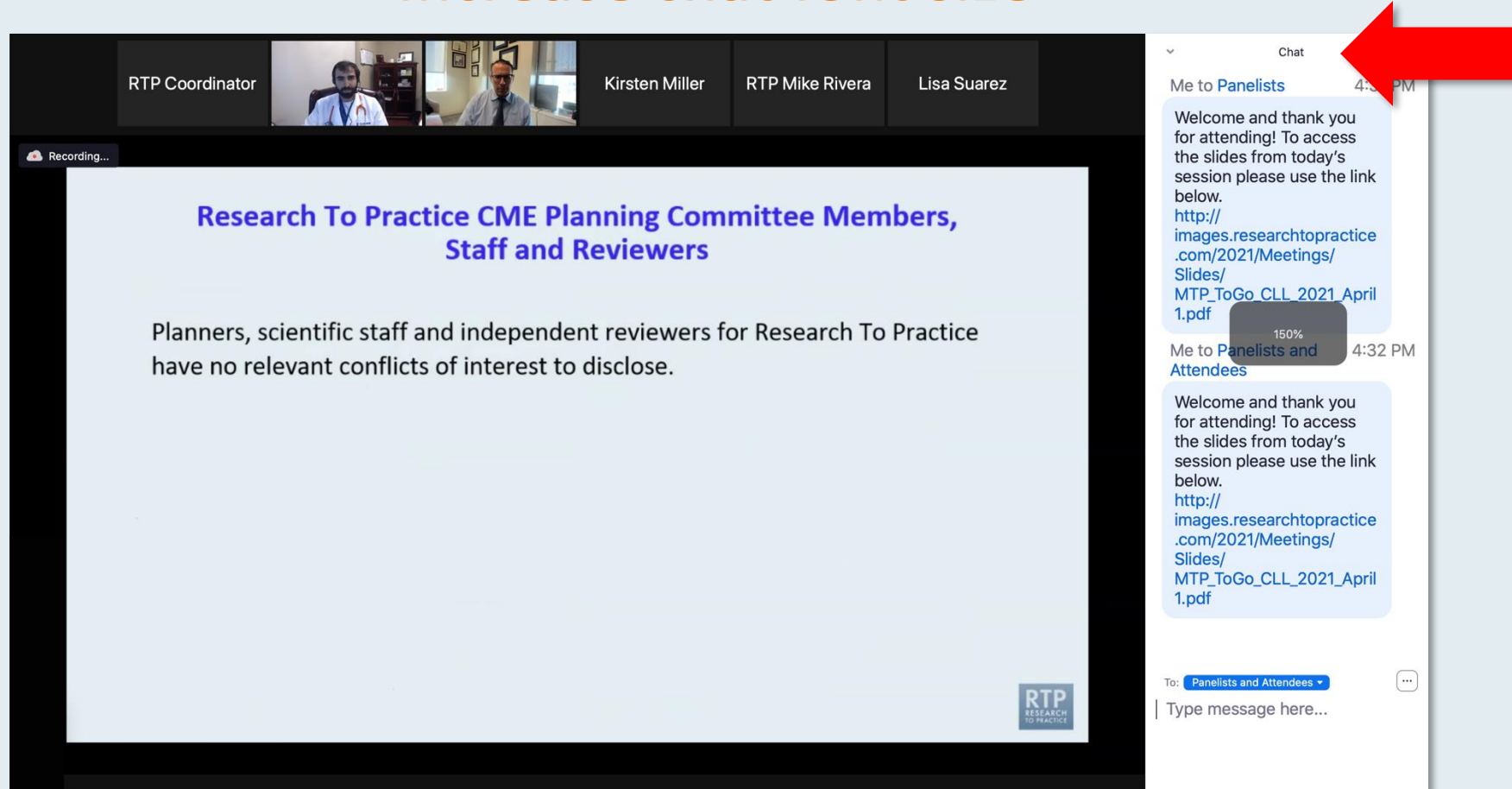
To: **Panelists and Attendees**

Type message here...

Drag the white line above the submission box up to create more space for your message.

Familiarizing Yourself with the Zoom Interface

Increase chat font size



The screenshot displays a Zoom meeting interface. At the top, a video bar shows participants: RTP Coordinator, Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. The main area shows a presentation slide titled "Research To Practice CME Planning Committee Members, Staff and Reviewers" with the text: "Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose." The bottom right corner of the slide features the RTP Research To Practice logo. On the right side, the chat window is open, showing a message from "Me to Panelists" with a link to a PDF. A red arrow points to the font size icon (a small square with a plus sign) in the chat window's header area, which is currently set to 150%.

**Press Command (for Mac) or Control (for PC) and the + symbol.
You may do this as many times as you need for readability.**

Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting interface. At the top, a gallery view displays seven participants. The main content area features a presentation slide with the following text:

Meet The Professor
Optimizing the Selection and Sequencing of Therapy for Patients with Metastatic Gastrointestinal Cancer
Wednesday, August 25, 2022
5:00 PM – 6:00 PM EST
Faculty
Wells A Messersmith, MD
Moderator
Neil Love, MD

A "Quick Survey" pop-up is displayed over the slide, listing treatment options with radio buttons for selection:

- ☐ Certizomab +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Certizomab + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + lenalidomide +/- dexamethasone
- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isaxomib + Rd
- ☐ Other

The "Submit" button is at the bottom of the survey. To the right, a "Participants (10)" list shows names and status icons. The bottom toolbar includes "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and "Leave Meeting".

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Regulatory and reimbursement issues aside, what would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic (PS 0)?

A "Quick Poll" pop-up is displayed over the slide, listing treatment options with radio buttons for selection:

- ☐ Nivolumab/ipilimumab
- ☐ Avelumab/axitinib
- ☐ Pembrolizumab/axitinib
- ☐ Pembrolizumab/lenvatinib
- ☐ Nivolumab/cabozantinib
- ☐ Tyrosine kinase inhibitor (TKI) monotherapy
- ☐ Anti-PD-1/PD-L1 monotherapy
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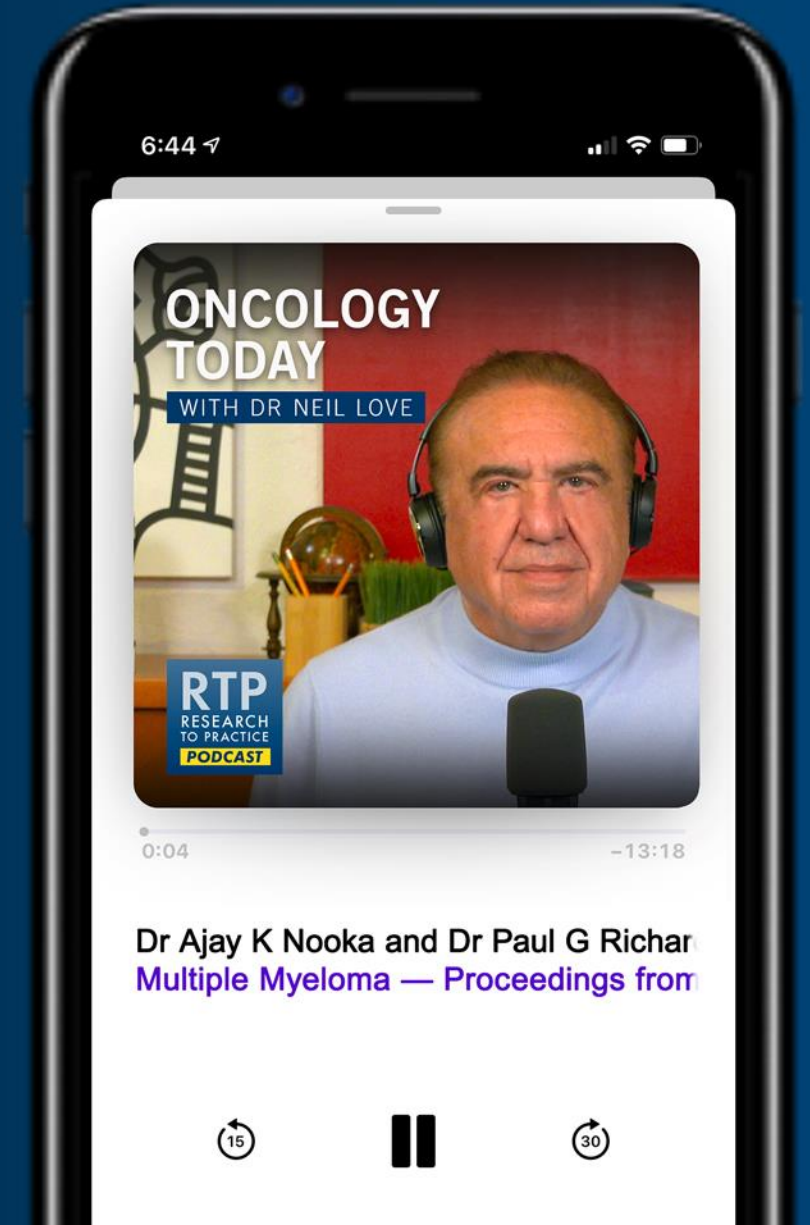
Multiple Myeloma — Proceedings from a Webinar Held in Conjunction with the 2025 ASCO Annual Meeting



DR AJAY K NOOKA
WINSHIP CANCER INSTITUTE OF EMORY UNIVERSITY



DR PAUL G RICHARDSON
DANA-FARBER CANCER INSTITUTE



Cancer Q&A: Addressing Common Questions Posed by Patients with Relapsed/Refractory Multiple Myeloma

*A Webinar Series for Clinicians and Patients,
Developed in Partnership with CancerCare®*

Patients

Wednesday, July 23, 2025

6:00 PM – 7:00 PM ET

Clinicians

Thursday, August 7, 2025

5:00 PM – 6:00 PM ET

Faculty

Natalie S Callander, MD

Sagar Lonial, MD, FACP

Moderator

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Addressing Current Knowledge and Practice Gaps in the Community — Optimizing the Use of Oral Selective Estrogen Receptor Degraders for Metastatic Breast Cancer

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Komal Jhaveri, MD, FACP
Virginia Kaklamani, MD, DSc

Moderator

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Practical Perspectives: Experts Review Actual Cases of Patients with Biliary Tract Cancers

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Selection and Sequencing of Therapy for Metastatic Triple-Negative Breast Cancer

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*Thank you for joining us! Please take a moment
to complete the survey currently up on Zoom.
Your feedback is very important to us.*

*Information on how to obtain CME and ABIM MOC
credit will be provided at the conclusion
of the activity in the Zoom chat room. Attendees
will also receive an email in 1 to 3 business days
with these instructions.*

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Tiffany A Richards, PhD, ANP-BC, AOCNP
Nurse Practitioner
Department of Lymphoma/Myeloma
The University of Texas
MD Anderson Cancer Center
Houston, Texas



Hans Lee, MD
Director, Multiple Myeloma Research
Sarah Cannon Research Institute
Nashville, Tennessee

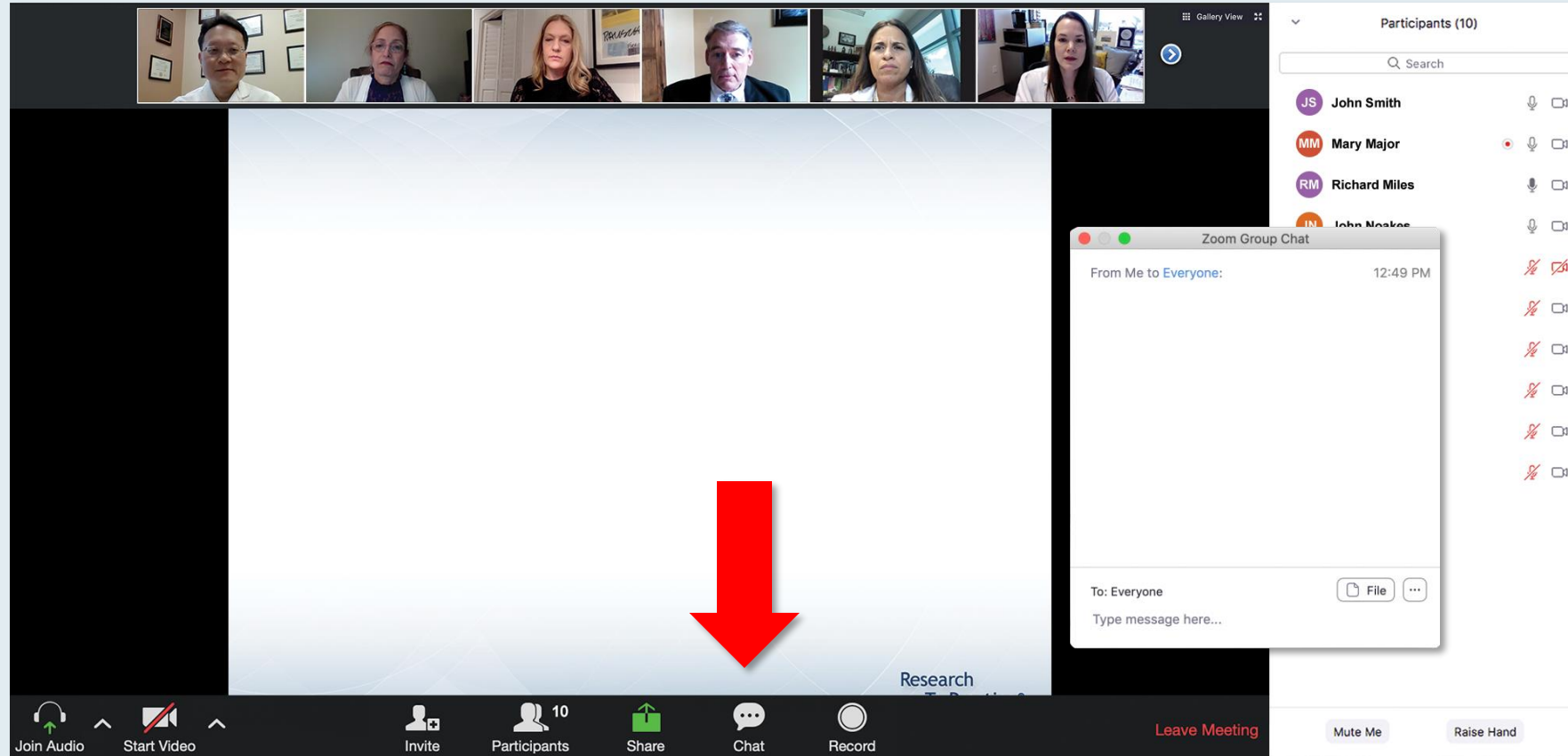


MODERATOR
Neil Love, MD
Research To Practice
Miami, Florida



Neel Pasricha, MD
Assistant Professor of Ophthalmology
University of California, San Francisco
San Francisco, California

We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.

Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting interface. At the top, a gallery view of seven participants is visible. The main content area displays a presentation slide with the title "Meet The Professional" and the subtitle "Optimizing the Selection and Management of Therapy for Patients with Gastrointestinal Cancer". Below the title, the date and time "Wednesday, August 25, 5:00 PM – 6:00 PM EST" are shown, followed by the names "Faculty Wells A Messersmith, MD" and "Moderator Neil Love, MD". A "Quick Survey" pop-up window is overlaid on the slide, listing various treatment combinations with radio buttons for selection. The survey options include: "Ceritinib +/- dexamethasone", "Pomalidomide +/- dexamethasone", "Ceritinib + pomalidomide +/- dexamethasone", "Eltuzumab + lenalidomide +/- dexamethasone", "Eltuzumab + pomalidomide +/- dexamethasone", "Daratumumab + lenalidomide +/- dexamethasone", "Daratumumab + pomalidomide +/- dexamethasone", "Daratumumab + bortezomib +/- dexamethasone", "Ixazomib + Rd", and "Other". A "Submit" button is at the bottom of the survey. On the right side of the interface, a "Participants (10)" list shows the names and status of the attendees. The bottom toolbar includes icons for "Join Audio", "Start Video", "Invite", "Participants", "Share", "Chat", "Record", and a "Leave Meeting" button.

Meet The Professional
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Quick Survey

- ☐ Ceritinib +/- dexamethasone
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Submit

Participants (10)

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

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Regulatory and reimbursement issues aside, which treatment would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) if follow-up 3 years later is found to have asymptomatic (PS 0)?

1. Nivolumab/ipilimumab
2. Avelumab/axitinib
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6. Tyrosine kinase inhibitor (TKI) monotherapy
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8. Other

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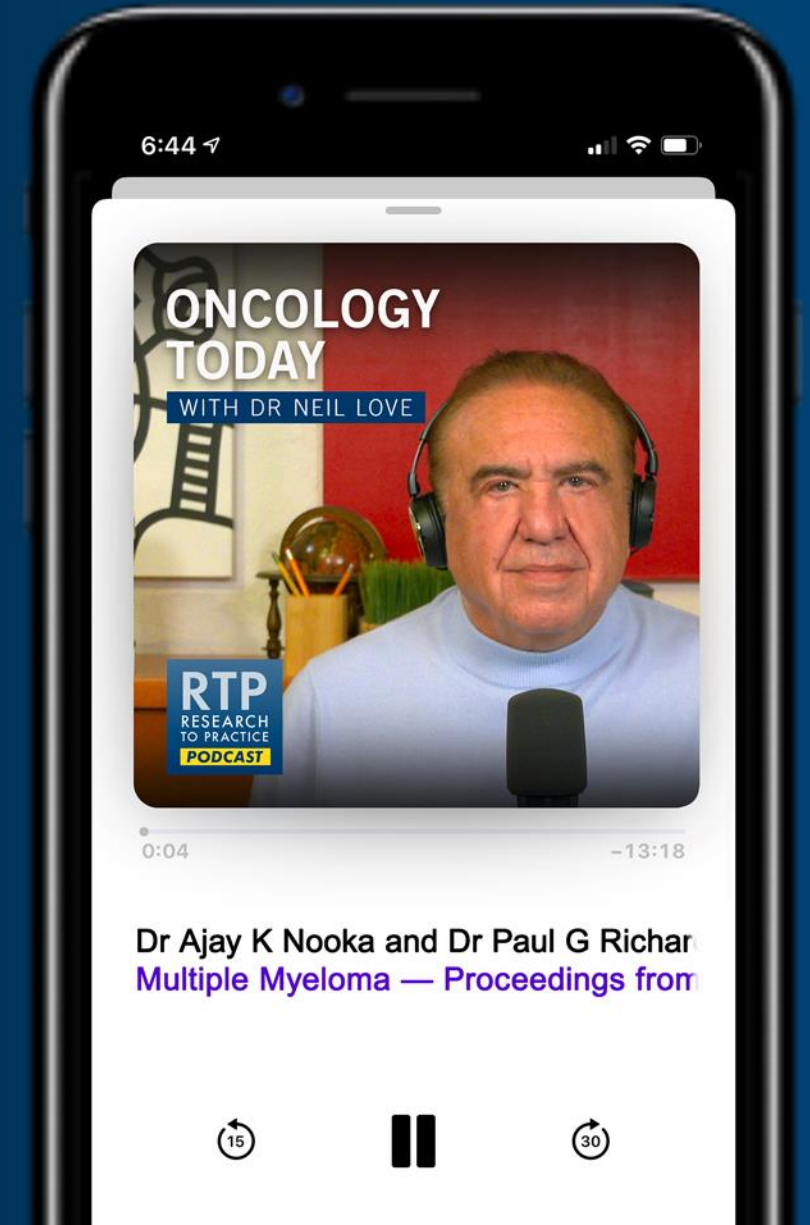
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Agenda

Introduction: The Patient Experience

Module 1: Managing Ocular Toxicities Associated with Antibody-Drug Conjugates and Other Cancer Therapies — Dr Pasricha

Module 2: Ocular Toxicities in Multiple Myeloma

Module 3: Ocular Toxicities in Breast Cancer

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FDA Flags Eye Safety Concerns with Belantamab Mafodotin Ahead of Advisory Committee Meeting

Press Release: July 15, 2025

“A new FDA briefing document indicates the [manufacturer] may need to address some of the agency's lingering concerns in order to reintroduce [belantamab mafodotin] in the U.S. market.

In a document posted ahead of the July 17 meeting of the Oncologic Drugs Advisory Committee (ODAC), FDA reviewers flagged ‘high rates of ocular toxicity’ and ‘uncertainty regarding the proposed dosages’ as key issues for discussion.

On the ocular toxicity issue, FDA reviewers said the majority of patients in [the] pivotal DREAMM-7 and DREAMM-8 trials experienced Keratopathy and Visual Acuity (KVA) events. KVA events at any grade occurred in 92% and 93% of patients in the trials, respectively, while grade 3-4 events happened in 77% and 78% of patients in the studies.

In addition, treatment with [belantamab] was ‘associated with severe ocular toxicities, including corneal ulcers and clinically significant decline in visual acuity, including severe vision loss,’ the document reads.”

81-Year-Old Man with Recurrent Multiple Myeloma on Belantamab Mafodotin for 3 Years



Management of Ocular Toxicity in Patients Receiving Belantamab Mafodotin

REBECCA LU, MSN, FNP-C, ASHLEY MORPHEY, RN, MSN, CCRP, FELICIA DIAZ, MSN, APRN, FNP-BC, AOCNP®, JESSICA CHEN, RN, MSN, OCN®, FNP-C, AZADEH RAZMANDI, OD, FAAO, and TIFFANY RICHARDS, PhD, ANP-BC, AOCNP®

J Adv Pract Oncol 2023;14(4):300-6.

Ocular Toxicity Management with Belantamab Mafodotin

Table 1. Dose Modifications for Ocular Toxicities			
Grade	Keratopathy findings on cornea	Snellen change	Dose modification
1	Mild superficial keratopathy	Worsening vision by one line	Continue treatment.
2	Moderate superficial keratopathy	Worsening vision by 2–3 lines and not worse than 20/200	Hold treatment until keratopathy returns to grade 1 and visual acuity returns to grade 1. Resume at prior dose.
3	Severe superficial keratopathy	Worsening visual acuity by more than 3 lines	Hold treatment until keratopathy returns to grade 1 and visual acuity returns to grade 1 or better. Reduce dose by one dose level (1.9 mg/kg).
4	Corneal epithelial defect	Visual acuity worse than 20/200	Consider permanent discontinuation. If treatment continues, hold until corneal exam and visual acuity return to baseline. Reduce dose by one dose level.
Note. Information from US Food and Drug Administration (2020b).			

Approved Antibody-Drug Conjugates (ADCs) in Oncology

Name	Tumor type	Year approved
Gemtuzumab ozogamicin	Acute myeloid leukemia	2000
Brentuximab vedotin	Hodgkin lymphoma	2011
Trastuzumab emtansine	HER2-positive breast cancer	2013
Inotuzumab ozogamicin	Acute lymphoblastic leukemia	2017
Moxetumomab pasudotox	Hairy cell leukemia	2018
Polatuzumab vedotin	DLBCL	2019
Trastuzumab deruxtecan	HER2-positive metastatic breast cancer	2019
Enfortumab vedotin	Urothelial bladder cancer	2019
Sacituzumab govitecan	Breast cancer	2020
Belantamab mafodotin*	Multiple myeloma	2020
Tisotumab vedotin	Cervical cancer	2021
Loncastuximab tesirine	DLBCL	2021
Mirvetuximab soravtansine	Ovarian cancer	2022
Datopotamab deruxtecan	Breast cancer; EGFR-mutated NSCLC	2025
Telisotuzumab vedotin	NSCLC	2025

* not currently FDA approved

<https://www.fda.gov/drugs/resources-information-approved-drugs/oncology-cancer-hematologic-malignancies-approval-notifications>

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Module 2: Ocular Toxicities in Multiple Myeloma

Module 3: Ocular Toxicities in Breast Cancer

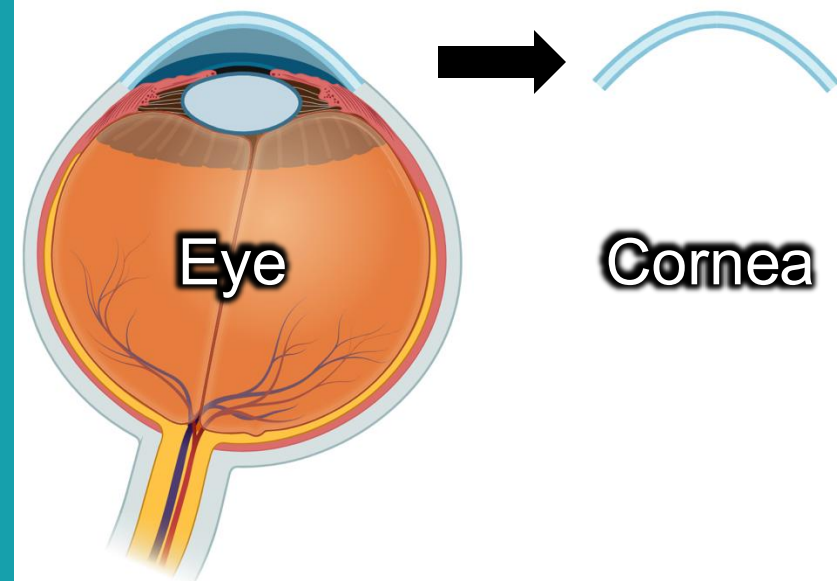


Managing Ocular Toxicities Associated with Antibody-Drug Conjugates (ADCs) and Other Cancer Therapies

Research To Practice

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Francis I. Proctor Foundation

July 17, 2025



Key Takeaway Points

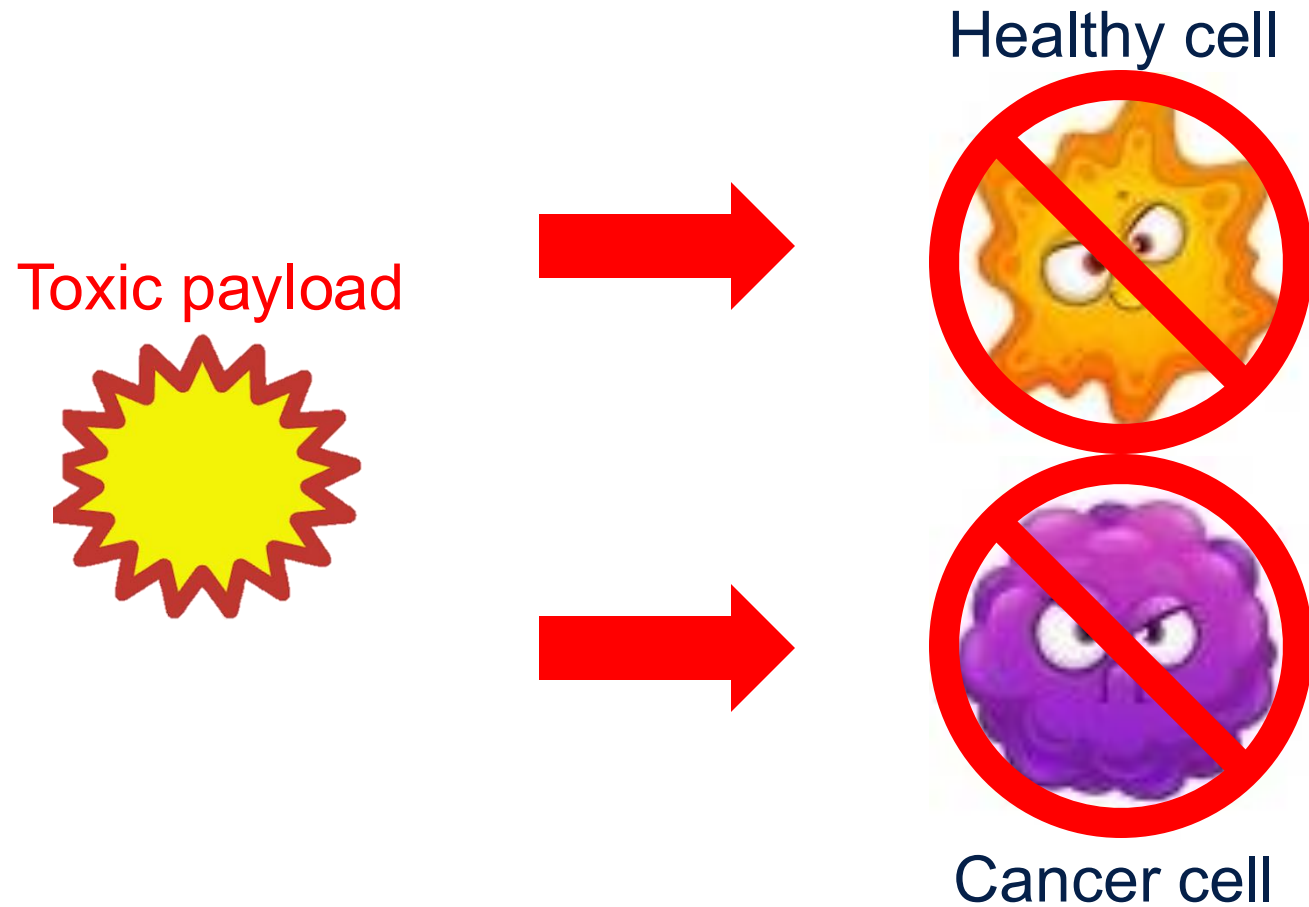
1. Explain ocular adverse events (OAEs) from antibody-drug conjugates (ADCs)
2. Improve grading and screening of cancer therapy-induced OAEs
3. Develop effective preventative therapy for ADC corneal toxicity

Key Takeaway Points

1. **Explain ocular adverse events (OAEs) from antibody-drug conjugates (ADCs)**
2. Improve grading and screening of cancer therapy-induced OAEs
3. Develop effective preventative therapy for ADC corneal toxicity

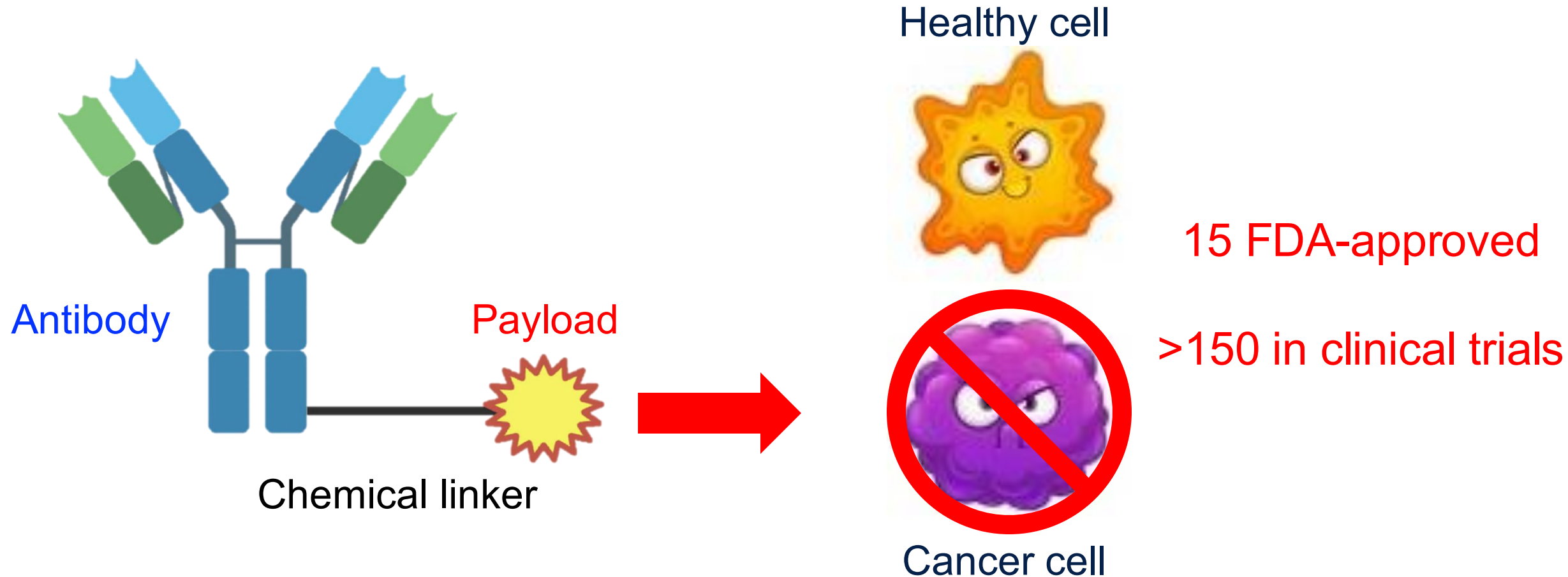
Background: ADCs

Traditional chemotherapies are non-specific



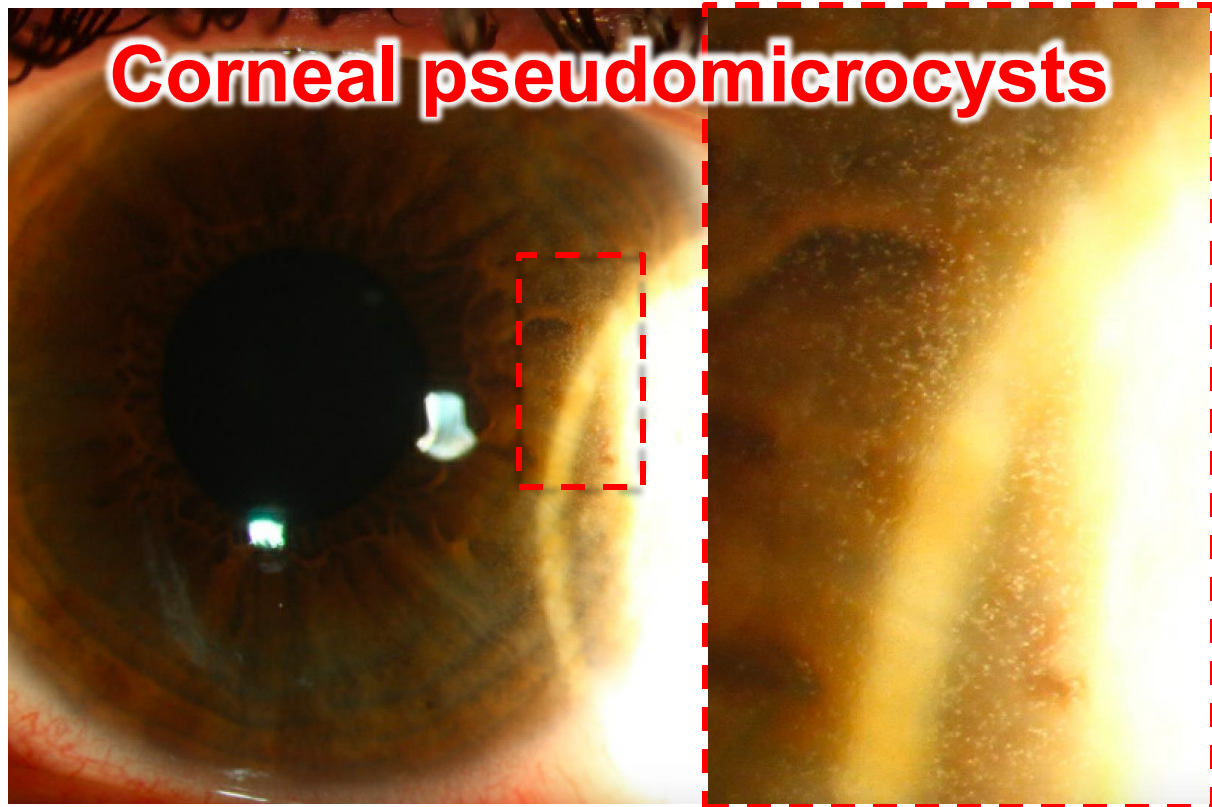
Background: ADCs

Antibody-drug conjugates (ADCs) are targeted cancer therapies



Background: ADC OAEs

ADC corneal toxicity is a common ocular adverse event (OAE)



- **20%** (3/15*) of ADCs have FDA black box warning for ocular toxicity
- Develop **~3 weeks** after ADC infusion
- Reversible **2 weeks-8 months** after ADC discontinuation
- Causes **eye pain** and **blurry vision**

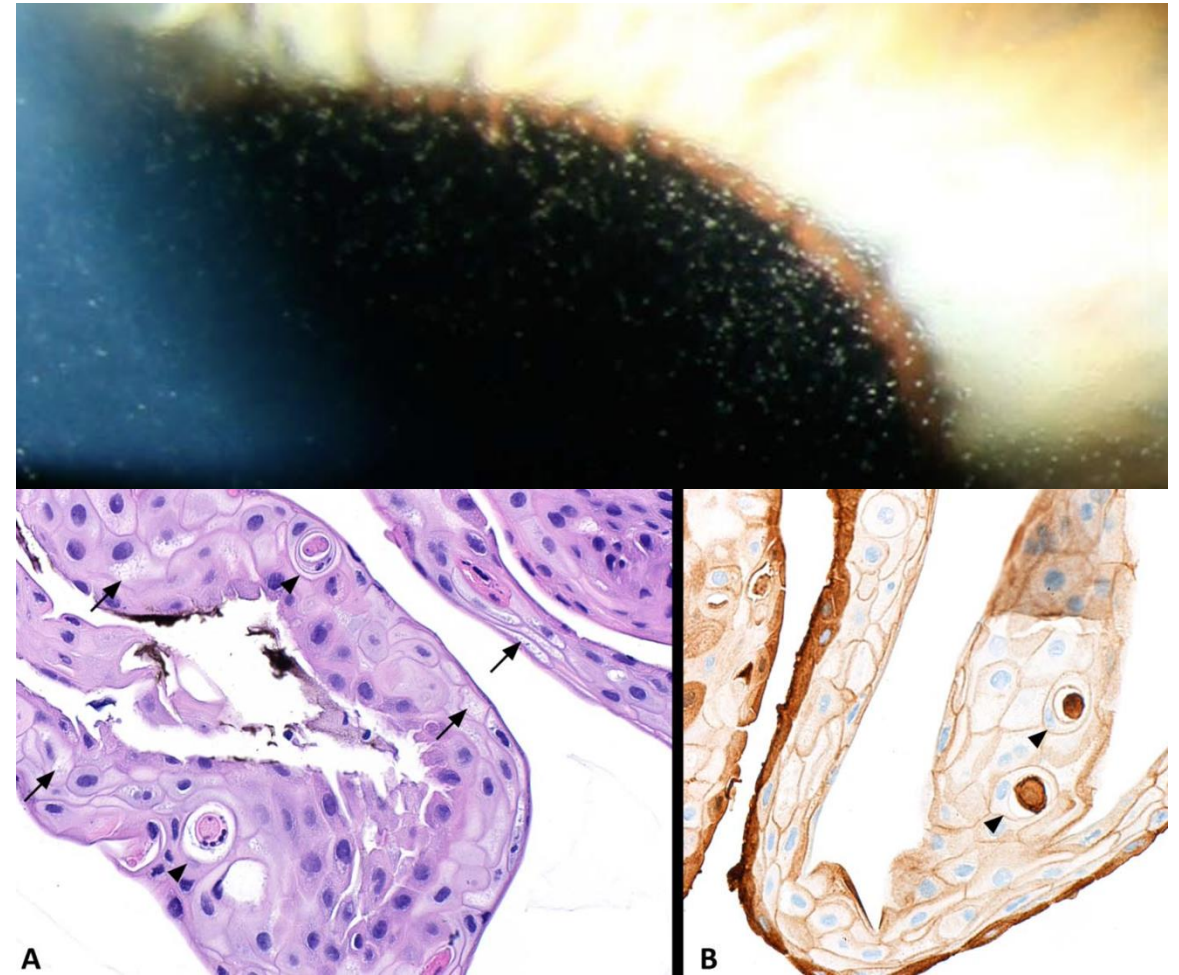
Lindgren ES...**Pasricha ND**. Incidence and Mitigation of Corneal Pseudomicrocysts Induced by Antibody–Drug Conjugates (ADCs). *Curr Ophthalmol Rep*. 2024

Background: ADC OAEs

Corneal pseudomicrocysts = Apoptosis of corneal epithelial cells

H&E: Vacuolar and granular cytoplasm with **apoptosis** in epithelial layers

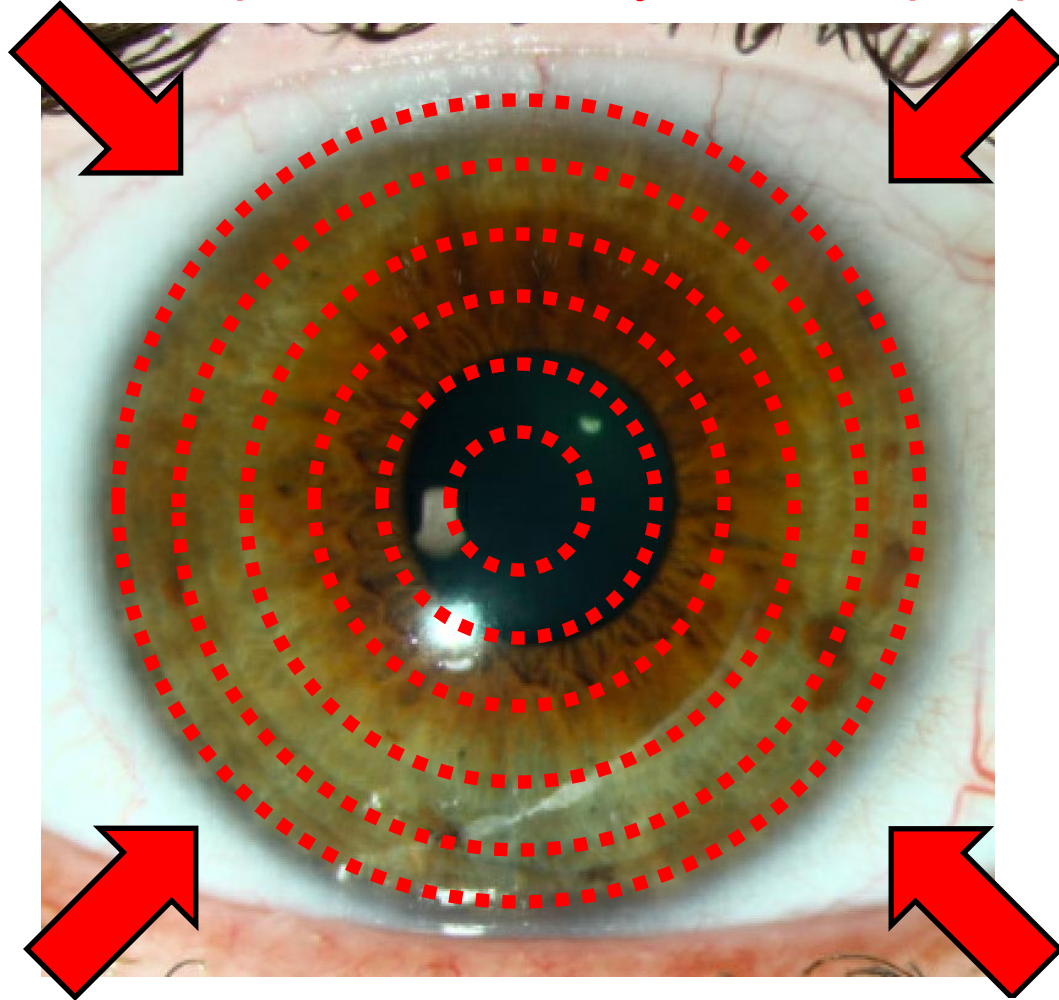
IHC: IgG+ basal epithelial cytoplasm and engulfed **apoptotic** cells



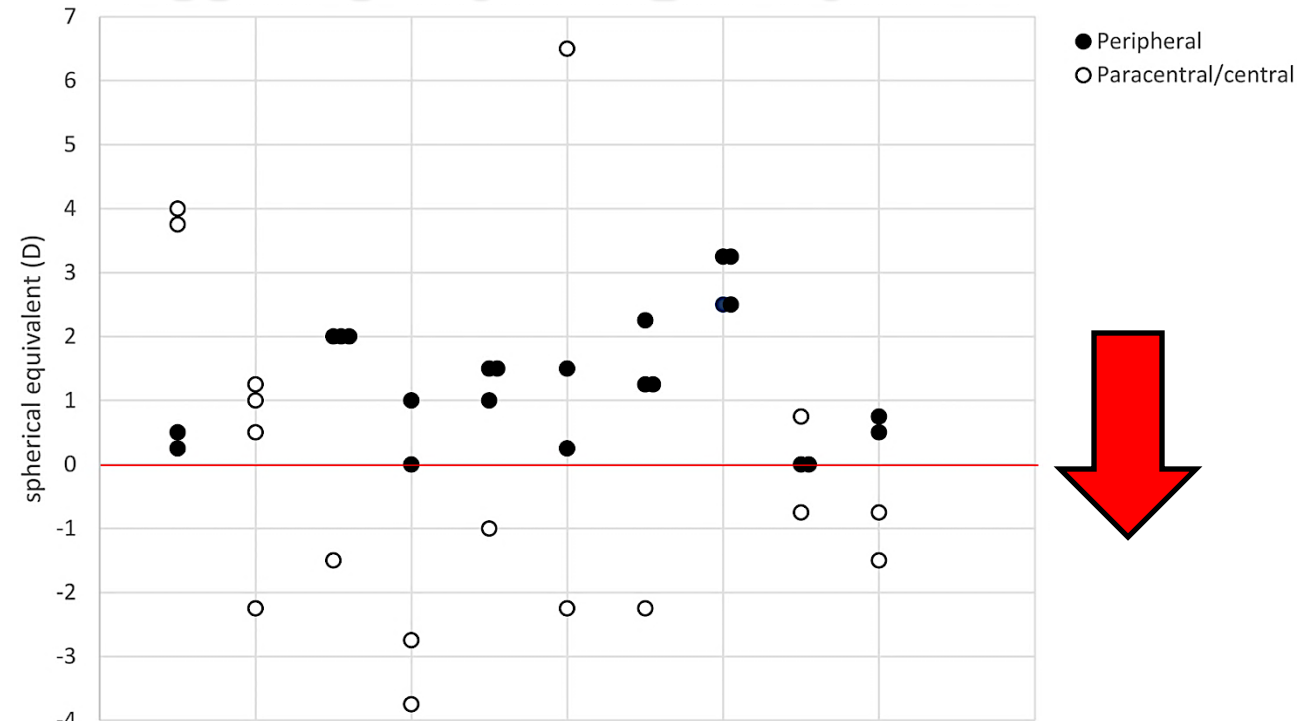
Lee BA et al. Clinical and Histological Characterization of Toxic Keratopathy From Depatuxizumab Mafodotin (ABT-414), an Antibody-Drug Conjugate. *Cornea*. 2021

Background: ADC OAEs

Corneal pseudomicrocysts start peripherally then migrate centrally



Hyperopic (far-sighted) shift



Myopic (near-sighted) shift

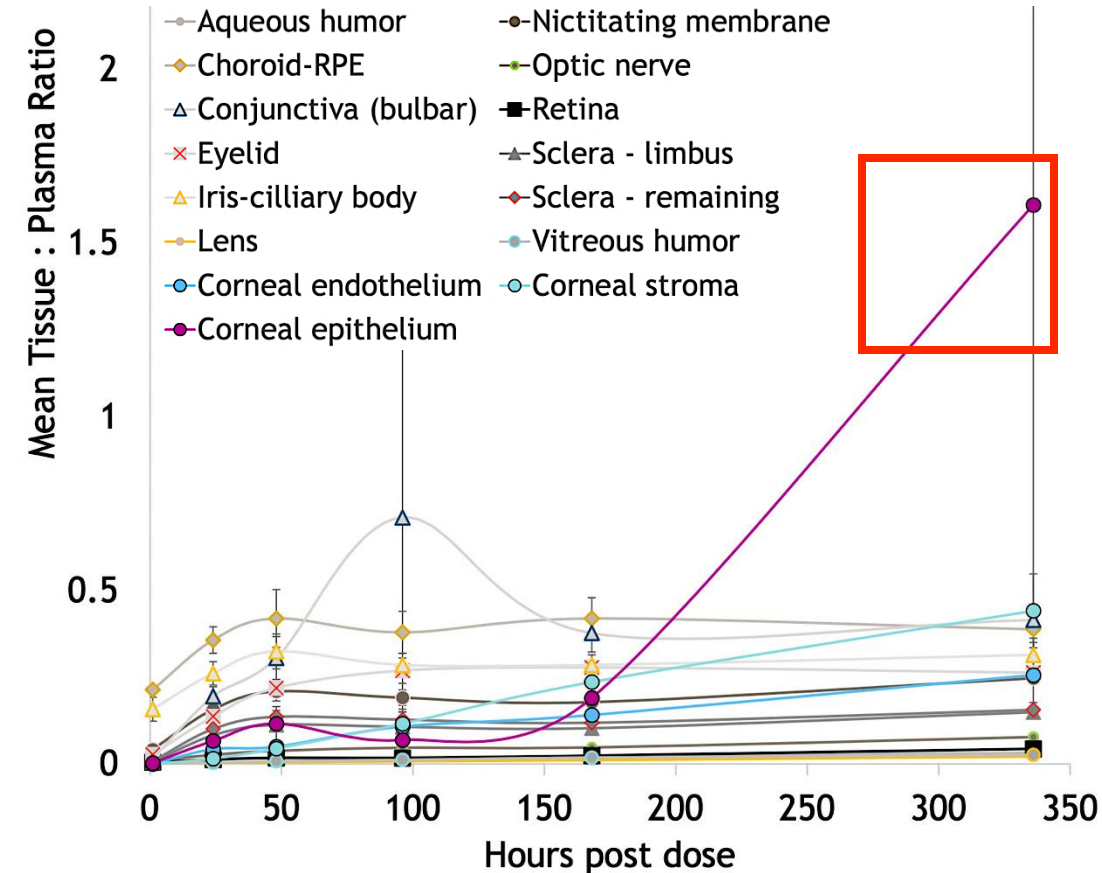
Canestraro J et al. Refractive Shifts and Changes in Corneal Curvature Associated with Antibody-Drug Conjugates. *Cornea*. 2021

Background: ADC OAEs

ADCs selectively accumulate in the corneal epithelium



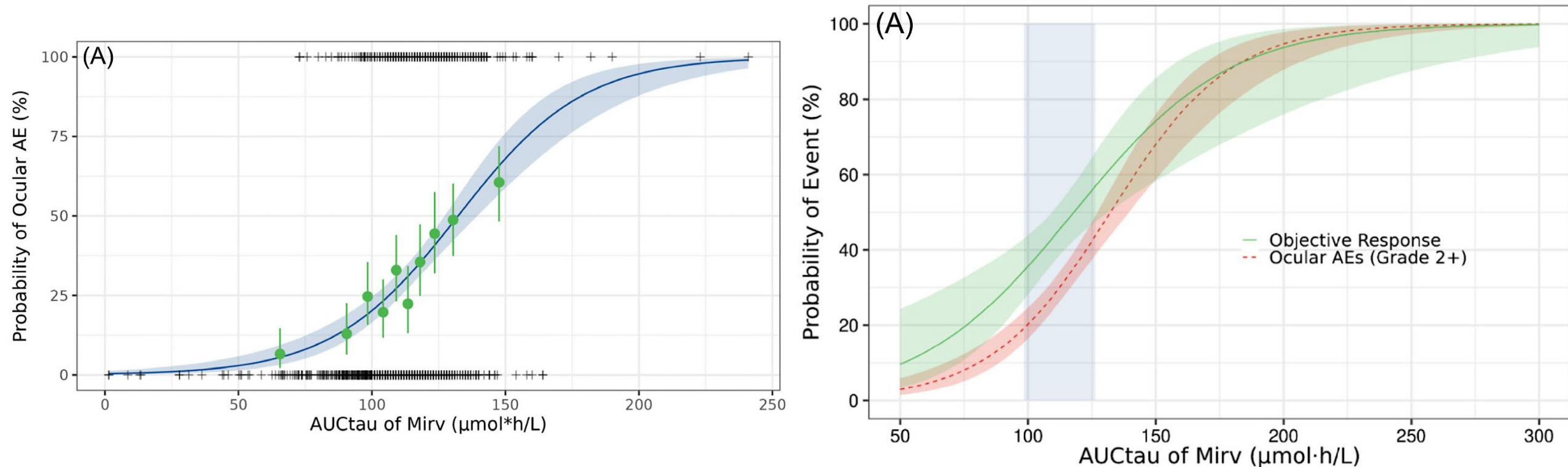
- Rabbits administered radiolabeled ADC and ocular tissues collected over 14 days
- Results:
 - ADC in ocular tissues (except corneal epithelium) similar to blood/plasma elimination ($T_{1/2} = 4.5-7.5$ days)
 - Corneal epithelium:
 - Absorption phase followed by **stable concentration plateau through 14 days**
 - High tissue-to-plasma ratio (**1.6 vs <0.5**)



Warbington A et al. Nonclinical ocular toxicity of a maytansinoid payload-antibody drug conjugate: Ocular tissue distribution, lesion pathogenesis, and mitigation. *AACR Annual Meeting*. 2024

Background: ADC OAEs

OAEs can be dose-limiting for ADC efficacy



Tu YP et al. Exposure-response relationships of mirvetuximab soravtansine in patients...*Br J Clin Pharmacol.* 2025

Background: ADC OAEs

Off-target toxicity occurs with a wide variety of ADCs

1. Off-target

2. Various linkers

3. Various payloads

ADC	Indication	Antibody	Linker	Payload	DAR	OAE
Belantamab mafodotin	Multiple myeloma	BCMA	Non-cleavable	MMAF	4	71%
Mirvetuximab soravtansine	Ovarian cancer	FR α	Cleavable	DM4	3.5	61%
Tisotumab vedotin	Cervical cancer	Tissue factor	Enzyme-cleavable	MMAE	4	60%
Datopotamab deruxtecan	Breast cancer	TROP2	Cleavable	TOP1i	4	51%
Enfortumab vedotin	Bladder cancer	Nectin-4	Enzyme-cleavable	MMAE	3.8	40%
Trastuzumab deruxtecan	Breast cancer	HER2	Enzyme-cleavable	TOP1i	8	11%
Trastuzumab emtansine	Breast cancer	HER2	Non-cleavable	DM1	3.5	6%

Lindgren ES...**Pasricha ND**. Incidence and Mitigation of Corneal Pseudomicrocysts Induced by Antibody–Drug Conjugates (ADCs). *Curr Ophthalmol Rep*. 2024

Questions?

Background: Prevention Strategies

Current therapies have limited efficacy to prevent ADC corneal toxicity



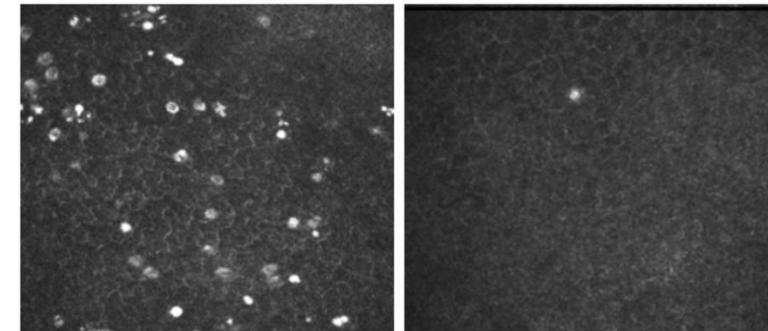
- Occurs in **>75%** of patients on select ADCs despite ocular prophylaxis regimen
- Leads to ADC dose interruptions:
 - Up to **50%** dose delays
 - Up to **35%** dose reductions
 - Up to **25%** discontinuation

Lindgren ES...**Pasricha ND**. Incidence and Mitigation of Corneal Pseudomicrocysts Induced by Antibody–Drug Conjugates (ADCs). *Curr Ophthalmol Rep*. 2024

Background: Prevention Strategies

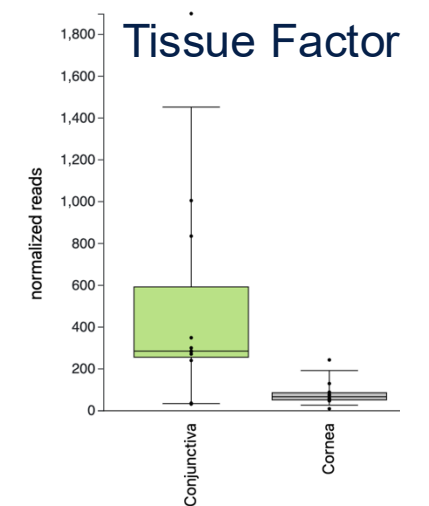
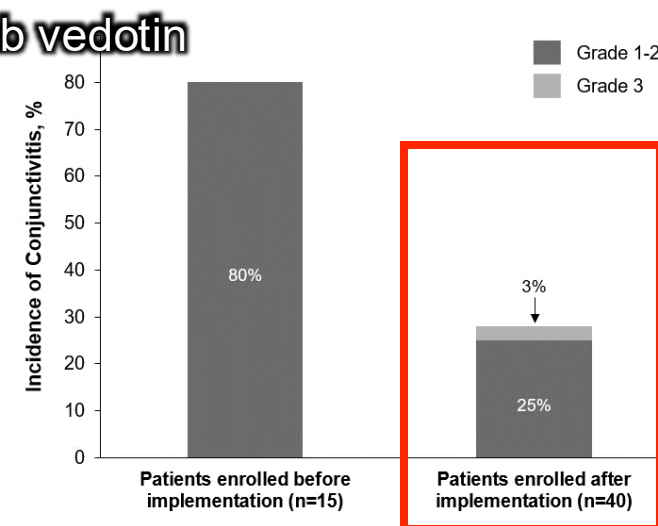
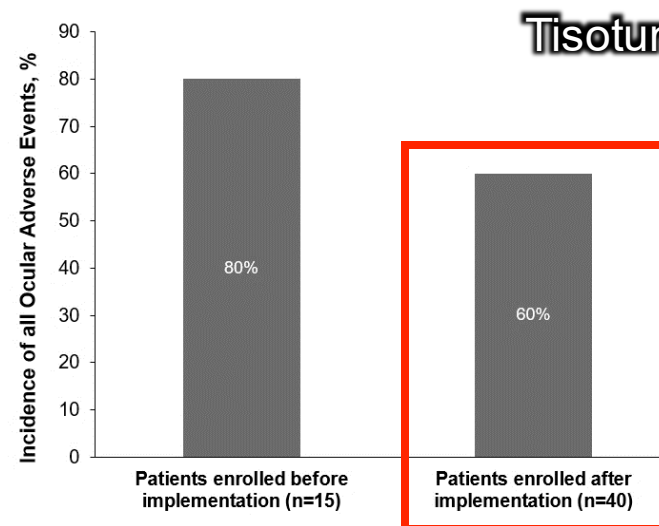
Vasoconstriction: Some efficacy

- Preclinical:
 - Decreases **severity** of corneal epitheliopathy
 - Delays **onset** of corneal pseudomicrocysts:
 - 40% vs 100% at 10 days
 - **100% at 14 days!**



No eye drop treatment

Brimonidine tartrate, 0.2%



Warbington A et al. Nonclinical ocular toxicity of a maytansinoid payload-antibody drug conjugate: Ocular tissue distribution, lesion pathogenesis, and mitigation. *AACR Annual Meeting*. 2024

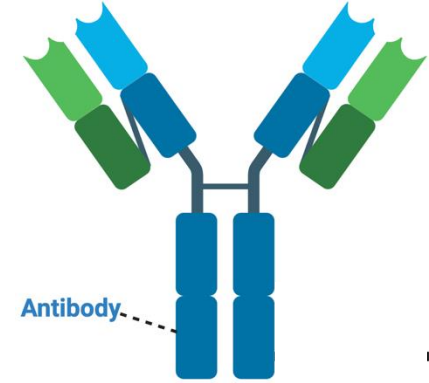
Kim SK et al. Mitigation and management strategies for ocular events associated with tisotumab vedotin. *Gynecol Oncol*. 2022

Lent-Schochet D et al. Ocular surface disease related to tisotumab vedotin-tftv. *Gynecol Onc Rep*. 2025

Background: Prevention Strategies

Systemic or topical antibody saturation: No efficacy

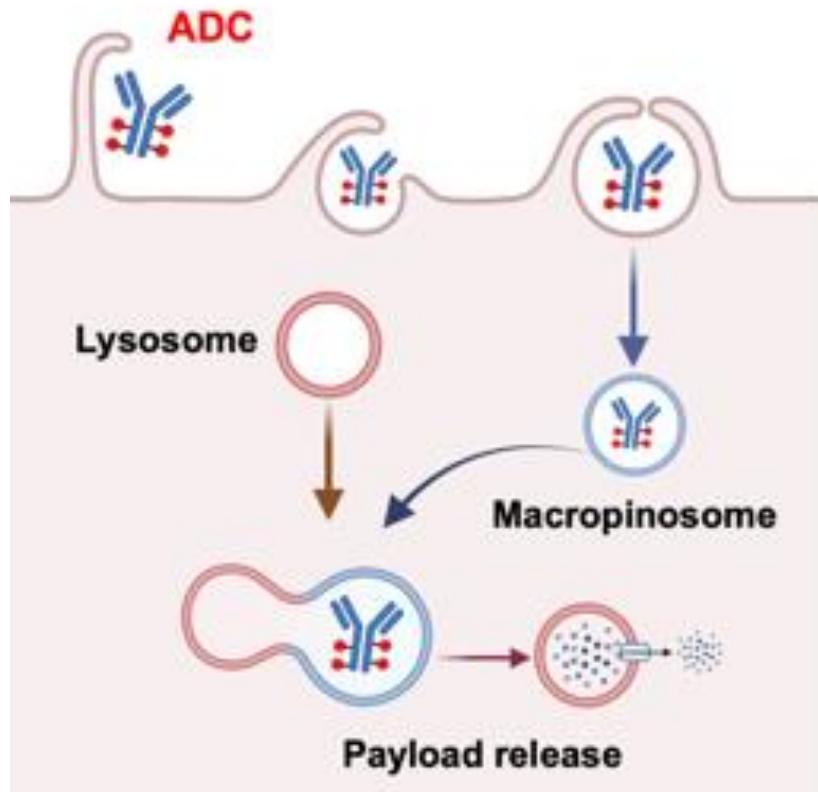
- Non-human primates administered an anti-EGFR ADC (depatuxizumab mafodotin) showed **no benefit** in corneal toxicity prevention from:
 - Systemic depatuxizumab (30 mg/kg) 4-24 hours before ADC
 - Topical depatuxizumab 2x/day
 - Topical rhEGF 2x/day



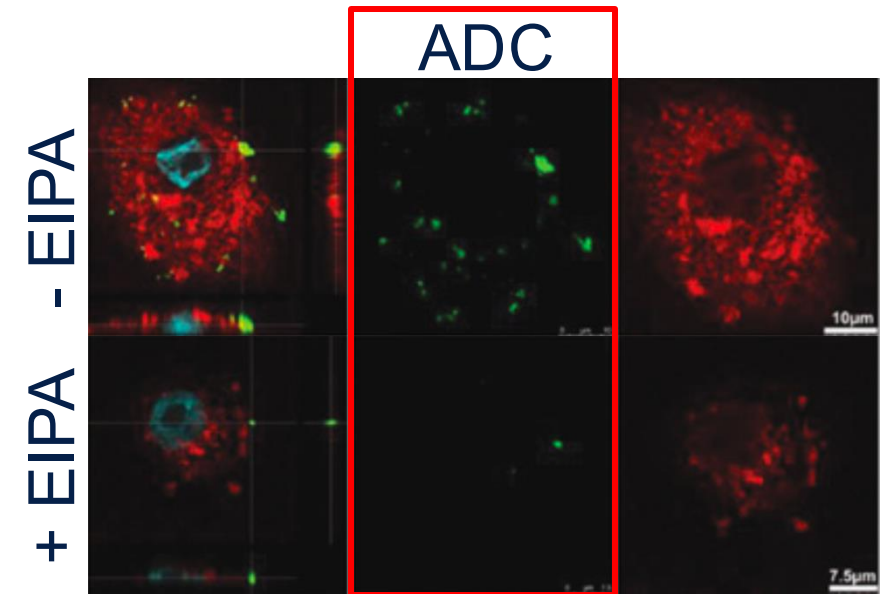
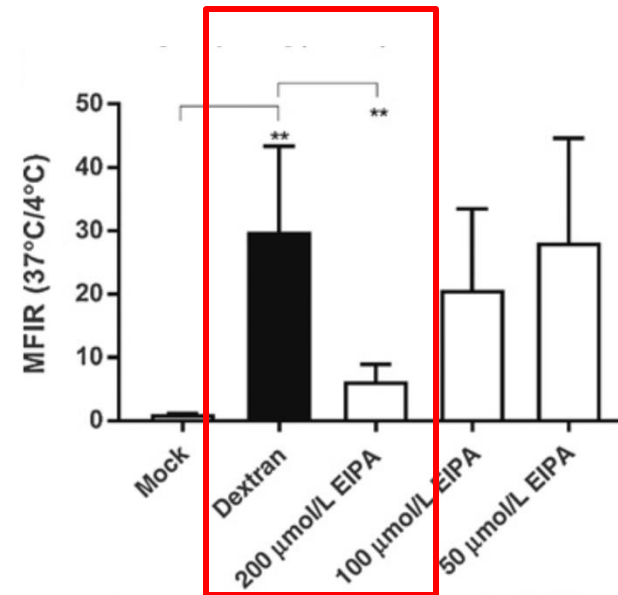
Loberg LI et al. Characterization and Potential Mitigation of Corneal Effects in Nonclinical Toxicology Studies in Animals Administered Depatuxizumab Mafodotin. *J Ocul Pharmacol Ther.* 2022

Background: Proposed Mechanism

Macropinocytosis (actin-dependent non-selective endocytosis) off-target toxicity



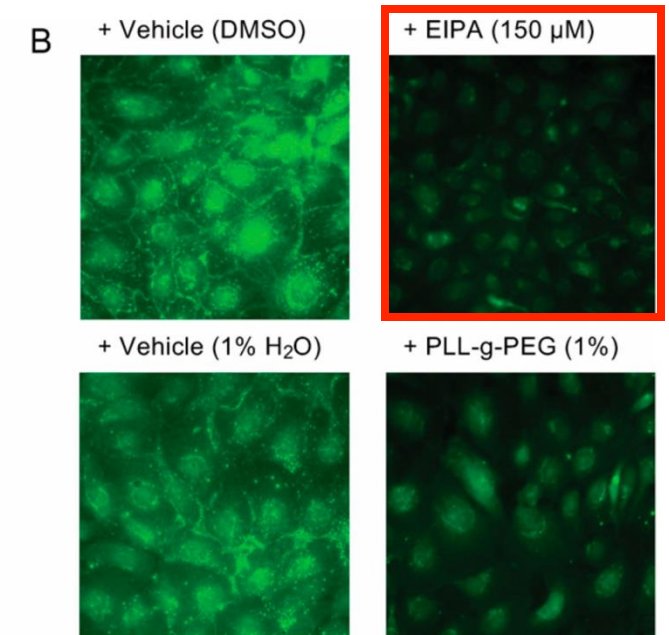
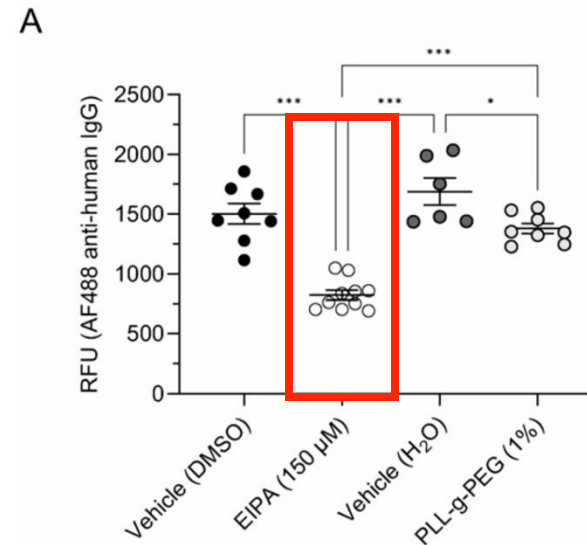
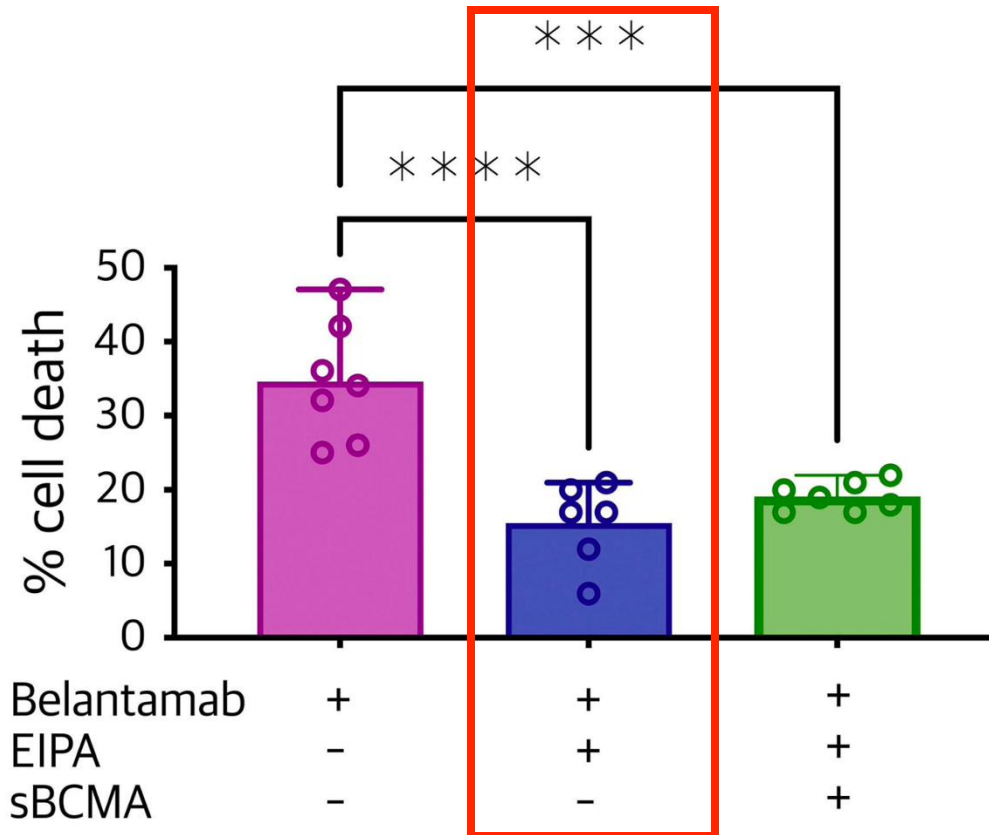
Ethylisopropylamiloride (EIPA):
Gold standard macropinocytosis inhibitor



Zhao H et al. *Cancer Res.* 2018

Background: Proposed Mechanism

Macropinocytosis inhibition: Promising in vitro efficacy

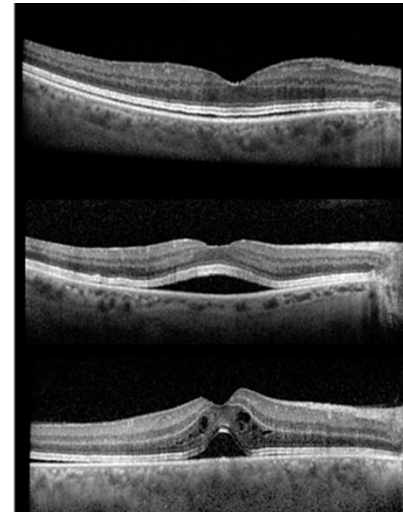
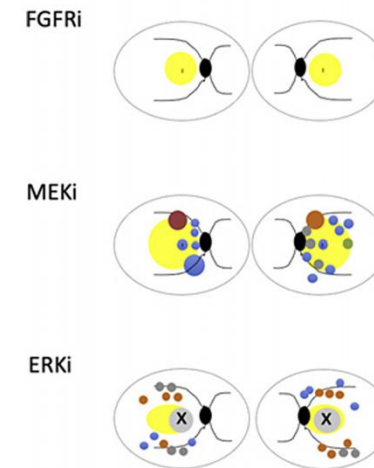
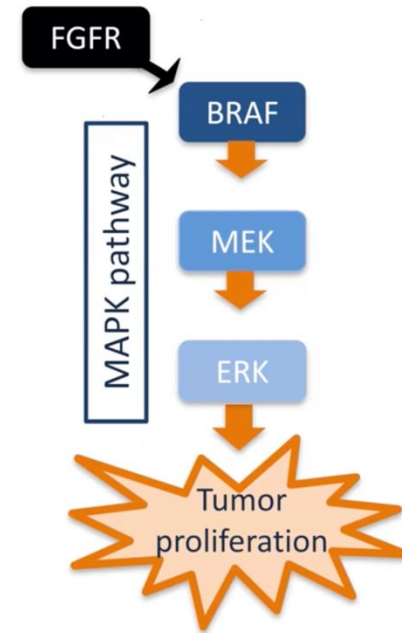


Munawar U et al. Soluble B-cell maturation antigen in lacrimal fluid as a potential biomarker and mediator of keratopathy in multiple myeloma. *Haematologica*. 2024
Kleinman D et al. PLL-g-PEG Polymer Inhibits Antibody-Drug Conjugate Uptake into Human Corneal Epithelial Cells In Vitro. *J Ocul Pharmacol Ther*. 2024

Background: Other Cancer Therapies

Differentiated OAEs compared to ADCs

- Immune Checkpoint Inhibitors (e.g. Pembrolizumab): 1-3%
 - Dry eye: ~60%
 - **Uveitis (intraocular inflammation): ~15%**
 - ~90% can be managed with topical/local corticosteroids
- MAPK Inhibitors
 - BRAF (e.g. Dabrafenib) → Uveitis: ~5%
 - ERK>MEK>FGFR (e.g. Erdafitinib) → **Retinopathy: ~15%**
 - ~50% symptomatic
 - Improves over time (can resolve while remaining on drug)



Fortes Bh et al. Ophthalmic adverse effects of immune checkpoint inhibitors: the Mayo Clinic experience. *Br J Ophthalmol*. 2021

Francis JH et al. Mitogen-Activated Pathway Kinase Inhibitor-Associated Retinopathy: Do Features Differ with Upstream versus Downstream Inhibition? *Ocul Oncol Pathol*. 2023

Questions?

Key Takeaway Points

1. Explain ocular adverse events (OAEs) from antibody-drug conjugates (ADCs)
2. **Improve grading and screening of cancer therapy-induced OAEs**
3. Develop effective preventative therapy for ADC corneal toxicity

Ocular Adverse Event (OAE) Grading

Limitations of the Common Terminology Criteria for Adverse Events (CTCAE)

Eye disorders					
CTCAE Term	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Dry eye	Asymptomatic; clinical or diagnostic observations only; symptoms relieved by lubricants	Symptomatic; moderate decrease in visual acuity (best corrected visual acuity 20/40 and better or 3 lines or less decreased vision from known baseline)	Symptomatic with marked decrease in visual acuity (best corrected visual acuity worse than 20/40 or more than 3 lines of decreased vision from known baseline, up to 20/200); limiting self care ADL	-	-
Definition: A disorder characterized by dryness of the eye Navigational Note: If corneal involvement is present, consider Keratitis	1. Mixes visual acuity with clinical findings 2. No photos 3. Ambiguous terms				
Keratitis					-
		baseline)	known baseline, up to 20/200); corneal ulcer; limiting self care ADL	; best corrected vision of 20/200 or less in the affected eye	
Definition: A disorder characterized by inflammation to the cornea of the eye. Navigational Note: Also consider Eye disorders: Corneal ulcer					

Ocular Adverse Event (OAE) Grading

Limitations of the FDA modified OAE scales



Adverse Reaction	Severity	Grade	Change in dosing
Corneal keratitis	Clear cornea, no epithelial defects	Grade 0	Dosing not interrupted
Corneal keratitis	Nonconfluent superficial keratitis	Grade 1	Dosing not interrupted
Corneal keratitis	Confluent superficial keratitis, a cornea epithelial defect, or 3-line or more loss in best corrected distance visual acuity.	Grade 2	Delay dose until resolved to <u>nonconfluent</u> superficial keratitis, then maintain dose.
Corneal keratitis	Corneal ulcer or stromal opacity or best corrected distance visual acuity 20/200 or worse.	Grade 3	Delay dose until resolved, then reduce dose by 1 level.
Corneal keratitis	Corneal perforation	Grade 4	Discontinue participant from study

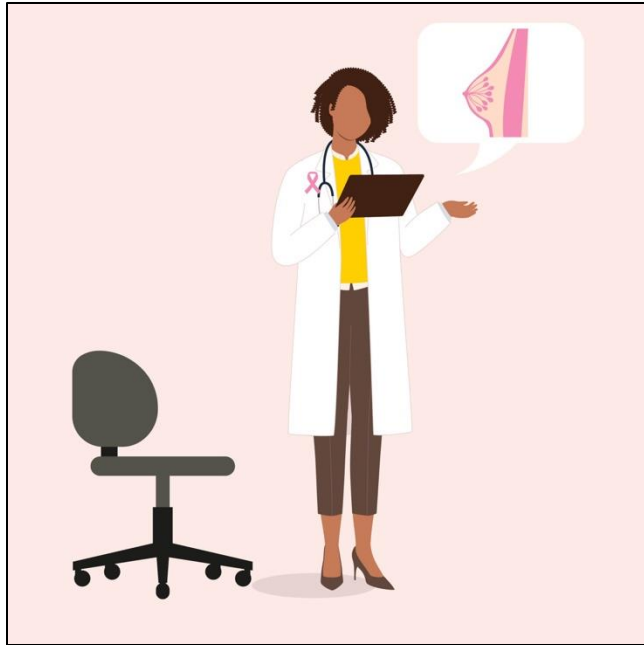
~50% of patients

1. Mixes visual acuity with clinical findings
2. No photos
3. Unnecessary dose delays

Iritis/Uveitis	Clear anterior chamber	Grade 0	Dosing not interrupted
Iritis/Uveitis	Rare cell in anterior chamber	Grade 1	Dosing not interrupted
Iritis/Uveitis	1-2+ Cell or Flare in anterior chamber	Grade 2	Delay dose until resolved to Grade 0 or 1 and then maintain dose.
Iritis/Uveitis	3+ Cell or Flare in anterior chamber	Grade 3	Delay dose until resolved to Grade 0 or 1, then reduce dose by 1 level.
Iritis/Uveitis	Hypopyon	Grade 4	Discontinue participant from study treatment

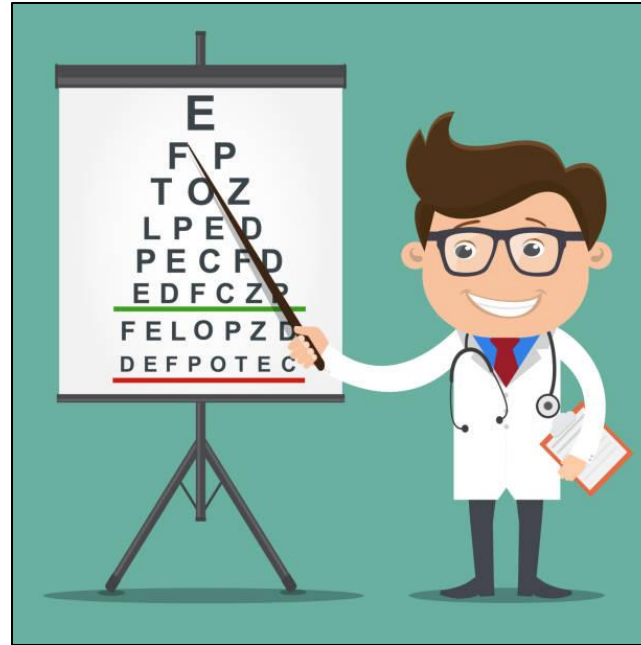
Ocular Adverse Event (OAE) Grading

Multicenter interspecialty consensus



Laura Esserman, MD (UCSF)
Hope Rugo, MD (UCSF)
Laura Huppert, MD (UCSF)
Jo Chien, MD (UCSF)
Alexa Glencer, MD (UCSF)
Janice Lu, MD, PhD (Northwestern)
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Gerami Seitzman, MD (UCSF)
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Bennie Jeng, MD (UPenn)
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Lucia Sobrin, MD (MEEI)
Ivana Kim, MD (MEEI)
Kuldev Singh, MD (Stanford)

Wiley Chambers, MD
William Boyd, MD

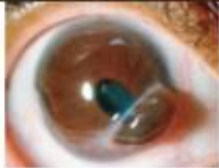
Pasricha ND et al. Multicenter Interspecialty Consensus on Experimental Oncology Drug-Related Ocular Adverse Event Reporting. *JAMA Ophthalmol.* Under review

Ocular Adverse Event (OAE) Grading

New consensus experimental oncology drug-related OAE scales

CORNEA		
CLINICAL FINDINGS		DRUG RECOMMENDATION
GRADE 0 Clear		Continue

1. Separates visual acuity from clinical findings
2. Includes photos
3. Appropriate dose delays

GRADE 3 A: Epithelial defect B: Corneal ulcer		Delay dose until Grade 1, then consider reduced dosing or discontinuation
GRADE 4 Corneal perforation		Consider discontinuation

Pasricha ND et al. Multicenter Interspecialty Consensus on Experimental Oncology Drug-Related Ocular Adverse Event Reporting. *JAMA Ophthalmol*. Under review

Eye Exam Screening

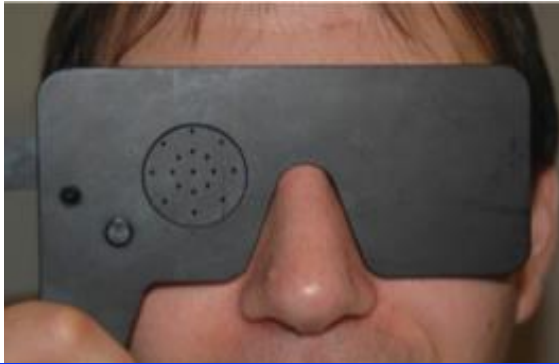
Scheduling delays are common for eye exams in the ophthalmology clinics



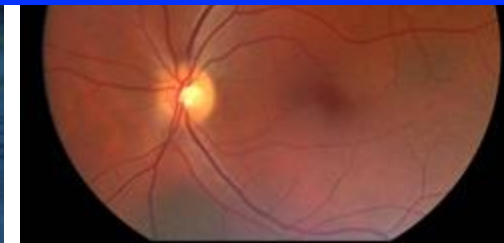
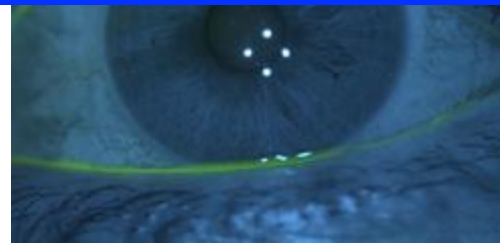
Ophthalmologists

Portable Eye Exam Screening

Expedites clinical trial enrollment in the oncology clinic



1. Efficient (~20 minutes)
2. Effective (comparable to eye clinic)
3. Easy (high patient and technician satisfaction)



Landzberg R...**Pasricha ND**. Portable Eye Examinations in the Oncology Clinic: An Innovative Pilot for Clinical Trial Screening. *CERSI Summit*. 2025

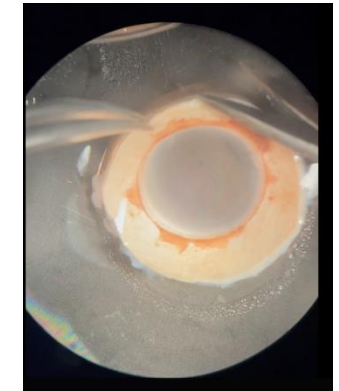
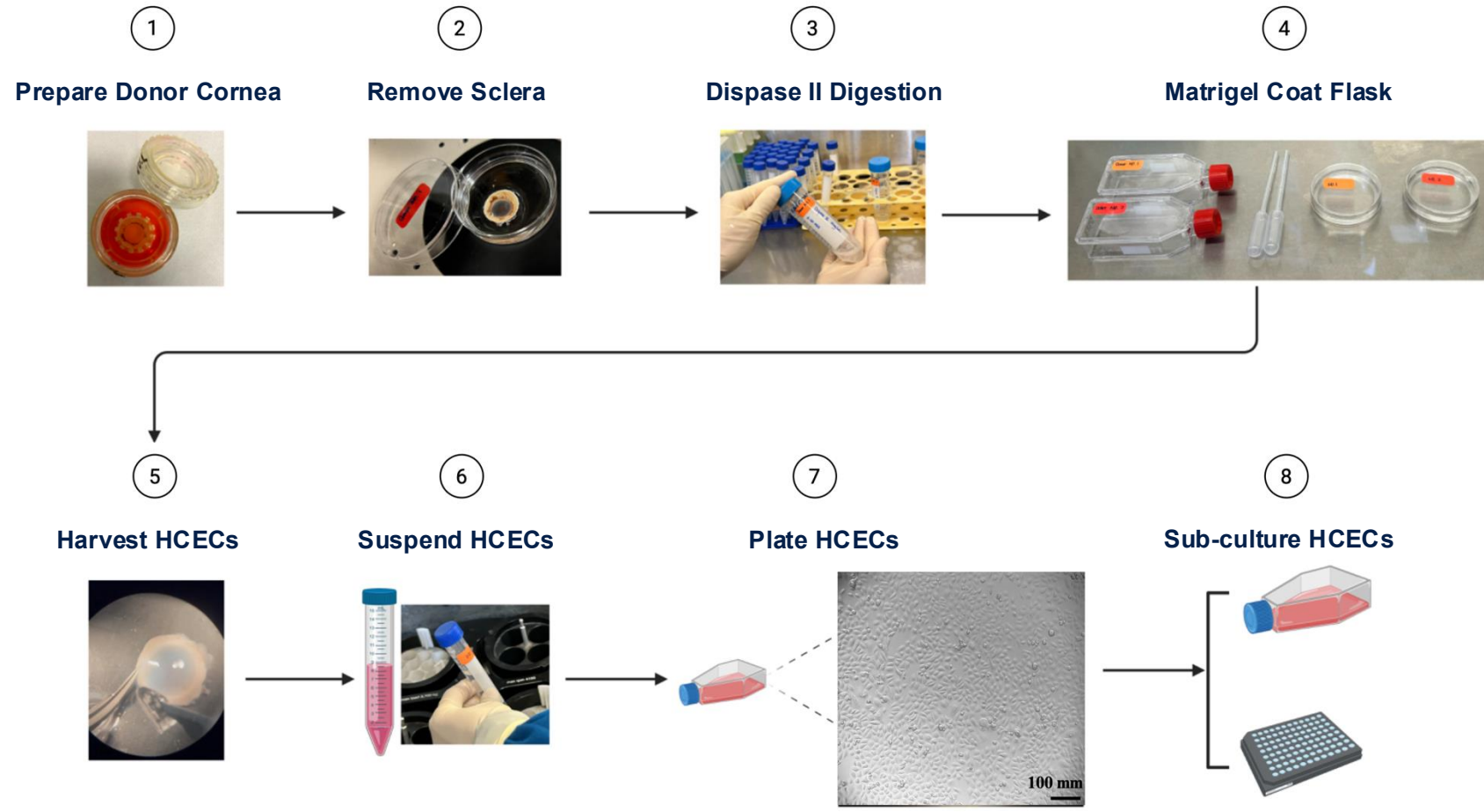
Questions?

Key Takeaway Points

1. Explain ocular adverse events (OAEs) from antibody-drug conjugates (ADCs)
2. Improve grading and screening of cancer therapy-induced OAEs
3. **Develop effective preventative therapy for ADC corneal toxicity**

In Vitro Setup

Patient-derived primary human corneal epithelial cells (HCECs)



Yan R...**Pasricha ND**. Optimized Protocol for Isolation and Culture of Primary Human Corneal Epithelial Cells. *Transl Vis Sci Technol*. Under review

ADC Internalization

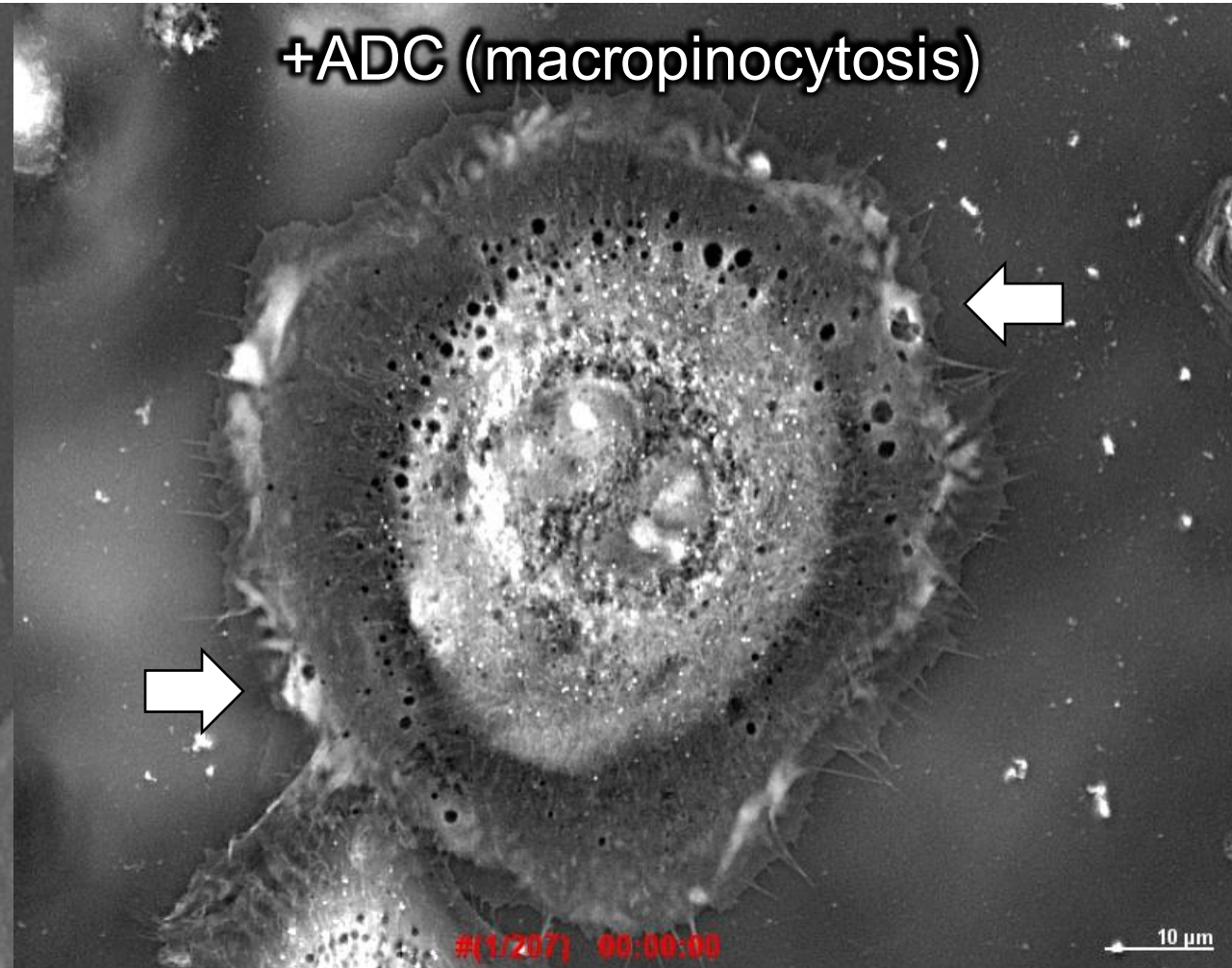
Primary HCECs demonstrate macropinocytosis after ADC addition



Baseline (no macropinocytosis)



+ADC (macropinocytosis)

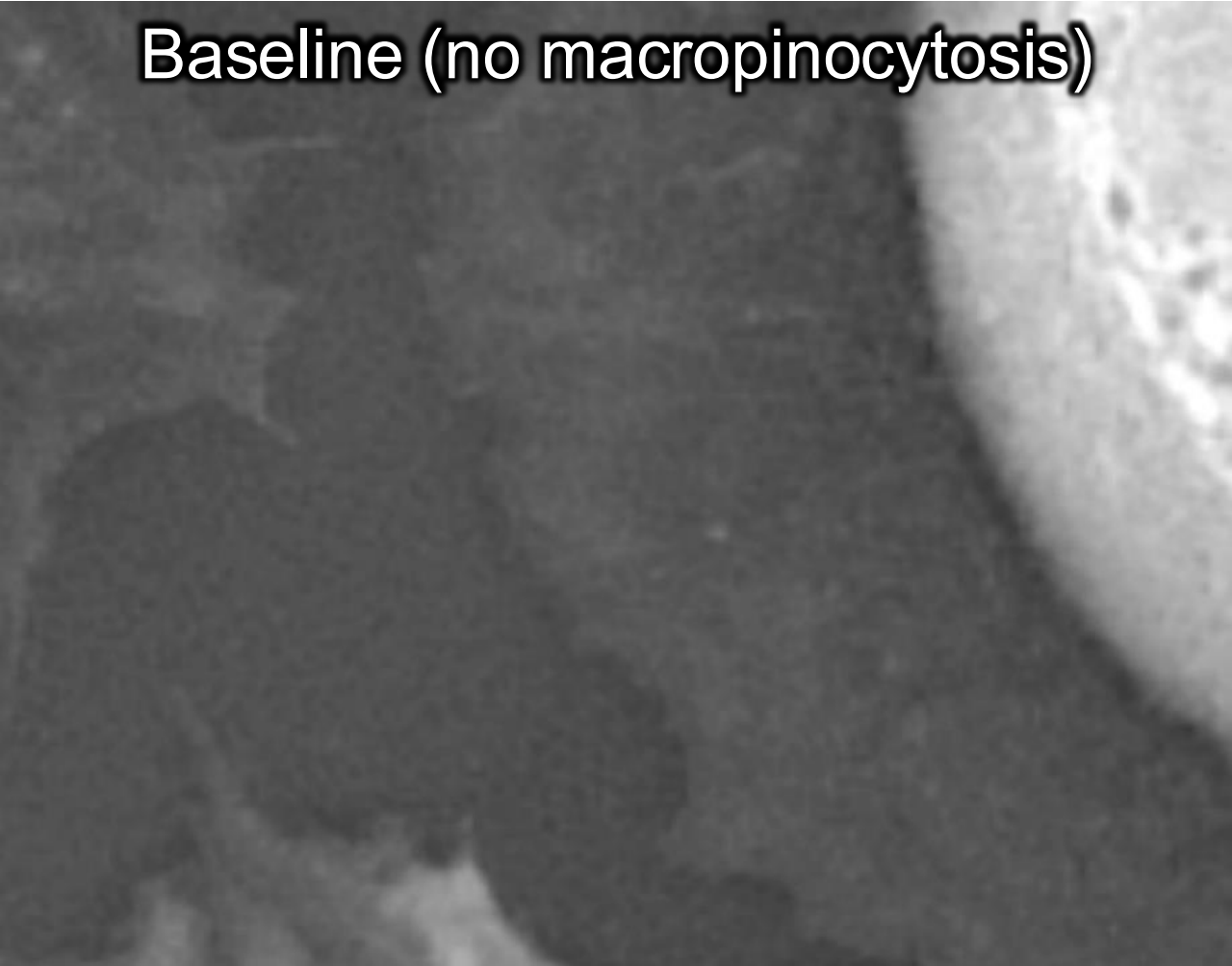


ADC Internalization

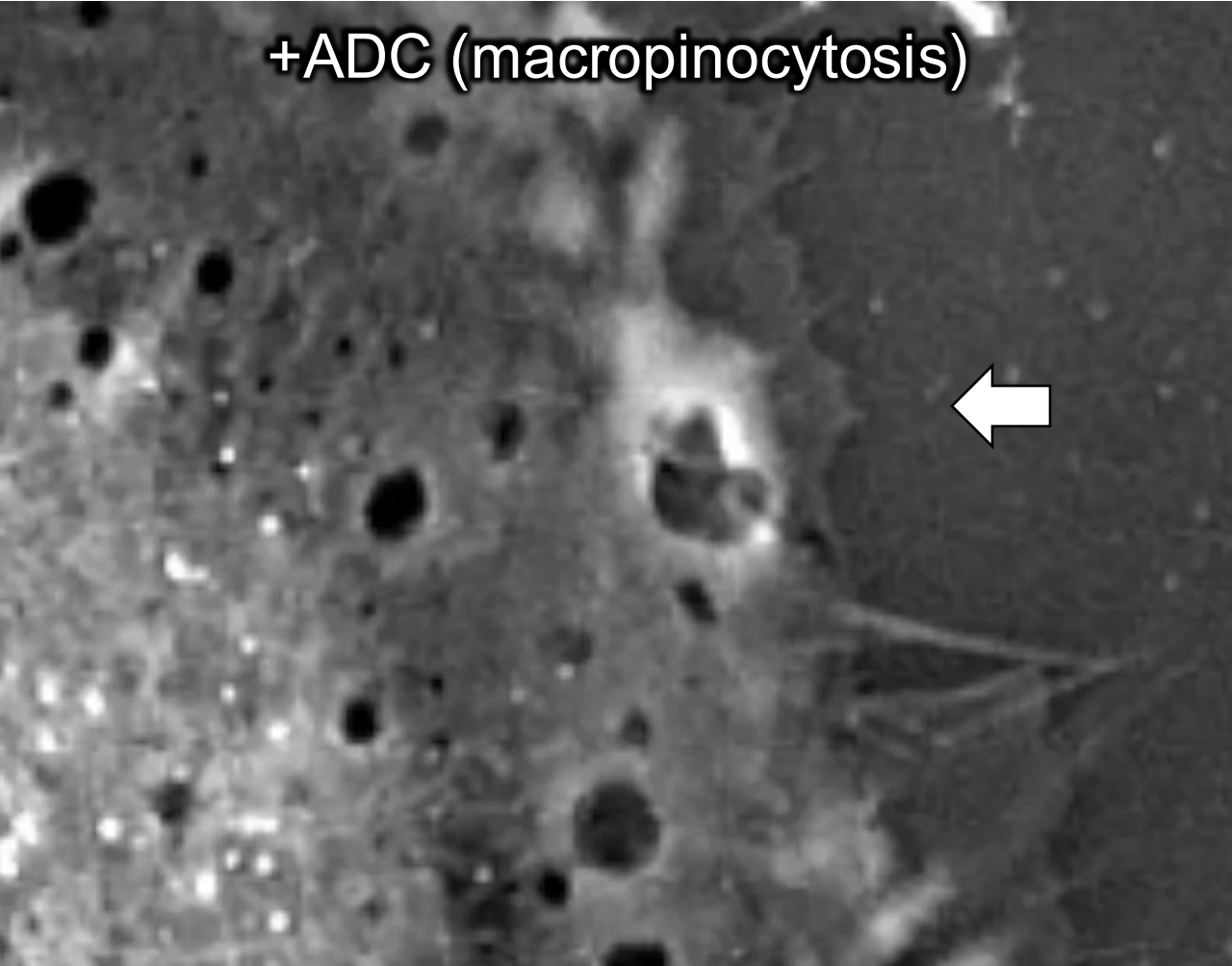
Primary HCECs demonstrate macropinocytosis after ADC addition



Baseline (no macropinocytosis)

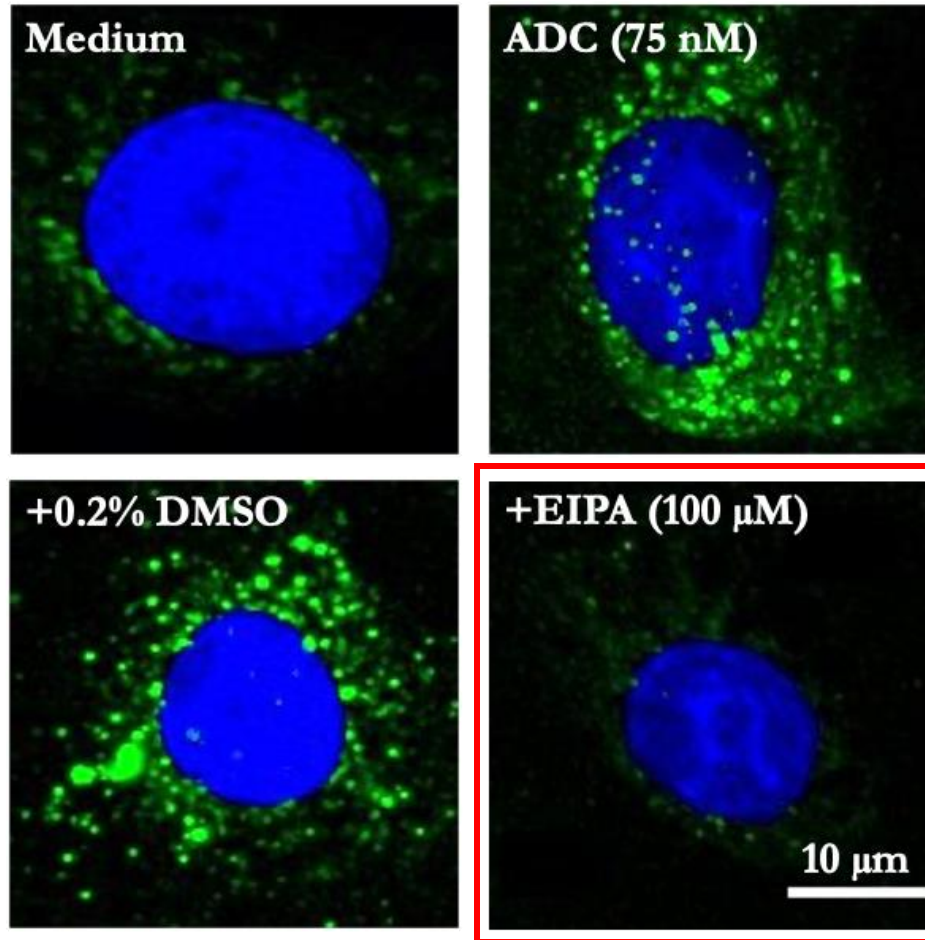


+ADC (macropinocytosis)

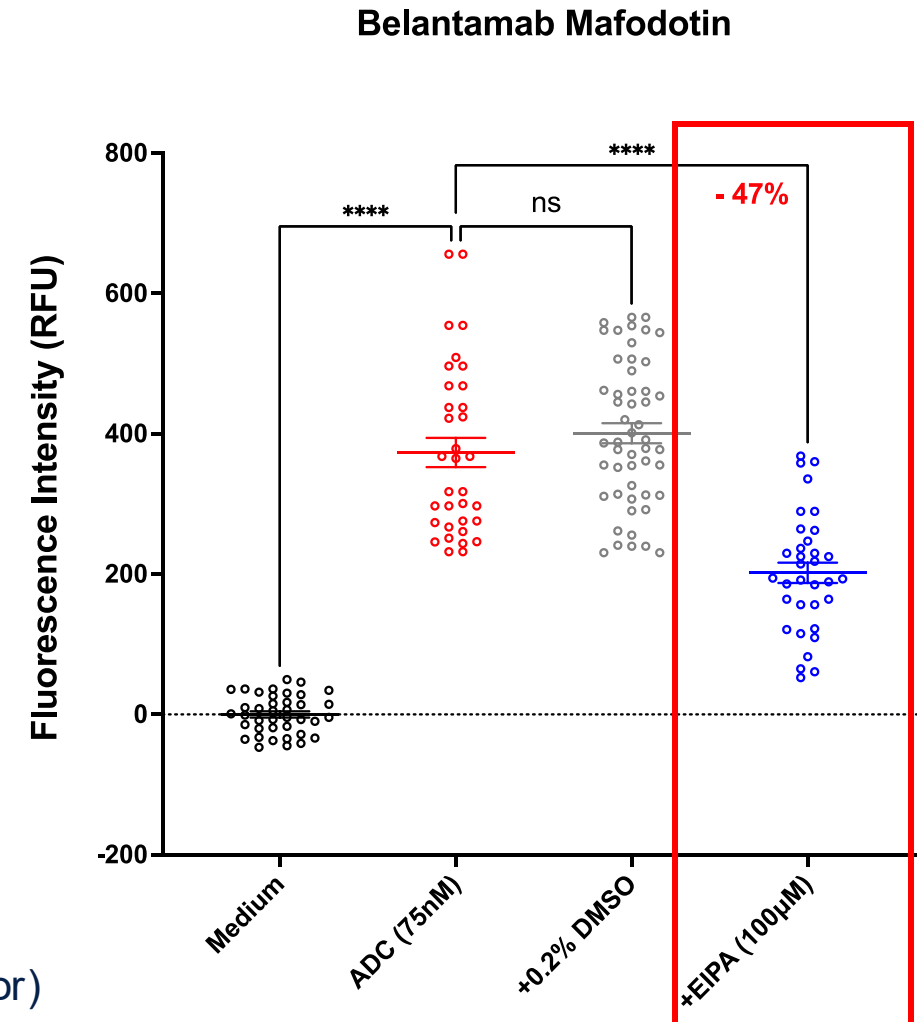


ADC Internalization

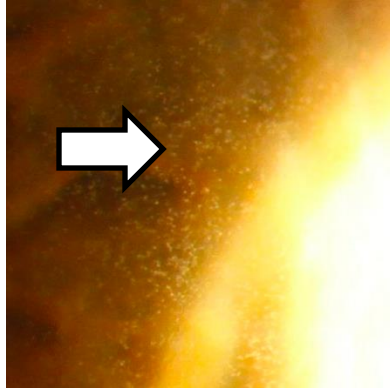
EIPA inhibits ADC internalization in primary HCECs



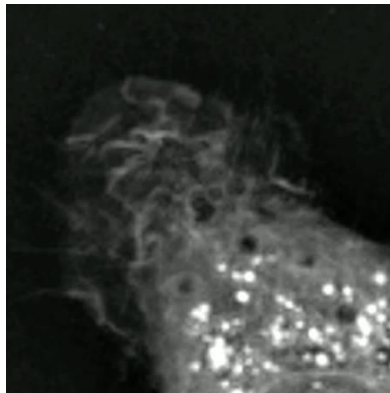
❖ **EIPA:** Ethylisopropylamiloride (macropinocytosis inhibitor)



Key Takeaway Points



1. Explain ocular adverse events (OAEs) from antibody-drug conjugates (ADCs)
Cause reversible corneal pseudomicrocysts leading to eye pain and blurry vision
2. Improve grading and screening of cancer therapy-induced OAEs
Consensus OAE grading scales and portable eye exam screenings
3. Develop effective preventative therapy for ADC corneal toxicity
Inhibit macropinocytosis (off-target ADC internalization)



Thank You!

Pasricha Lab

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- All May See Foundation
- UCSF Catalyst Award
- Lindonlight Collective
- QLHC I-SPY 2 Trial
- Sierra Donor Services Eye Bank
- Nanolive
- Tomocube



Agenda

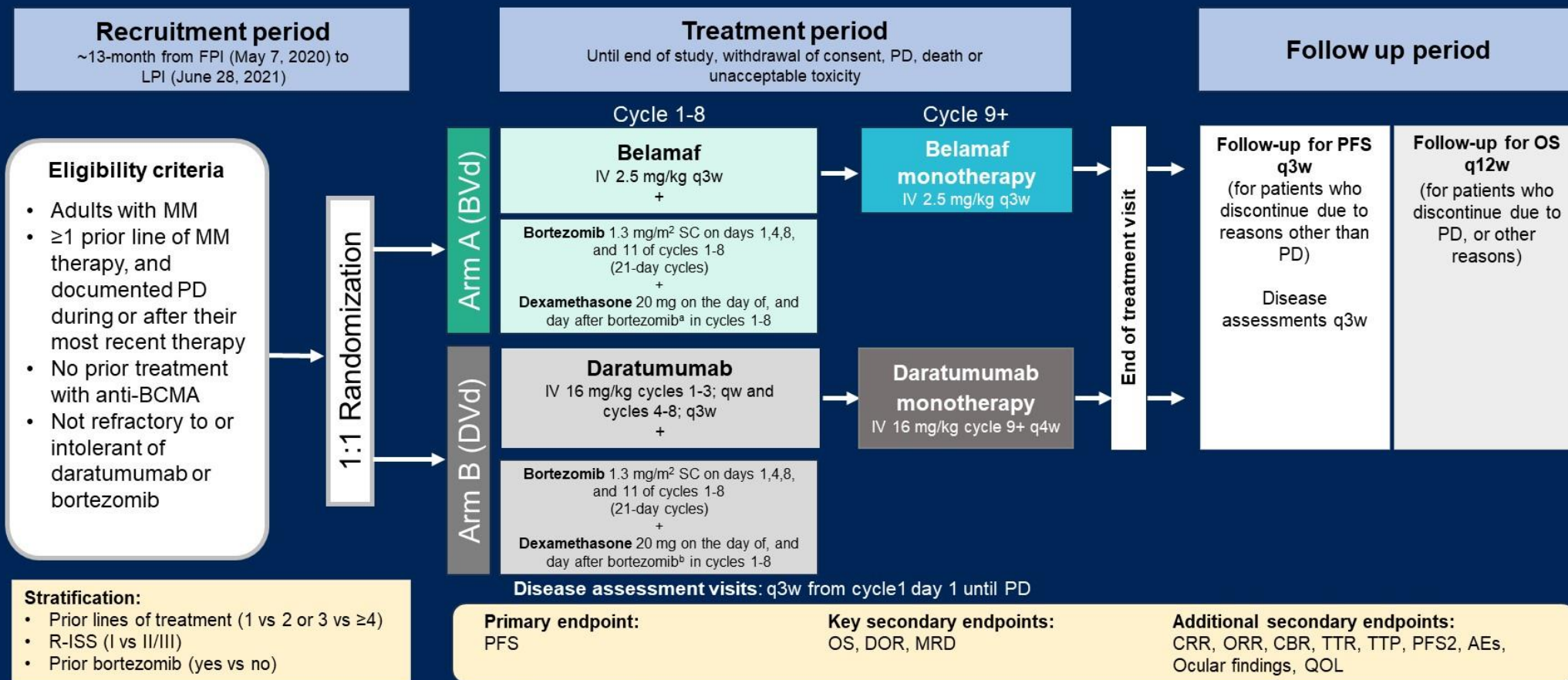
Introduction: The Patient Experience

Module 1: Managing Ocular Toxicities Associated with Antibody-Drug Conjugates and Other Cancer Therapies — Dr Pasricha

Module 2: Ocular Toxicities in Multiple Myeloma

Module 3: Ocular Toxicities in Breast Cancer

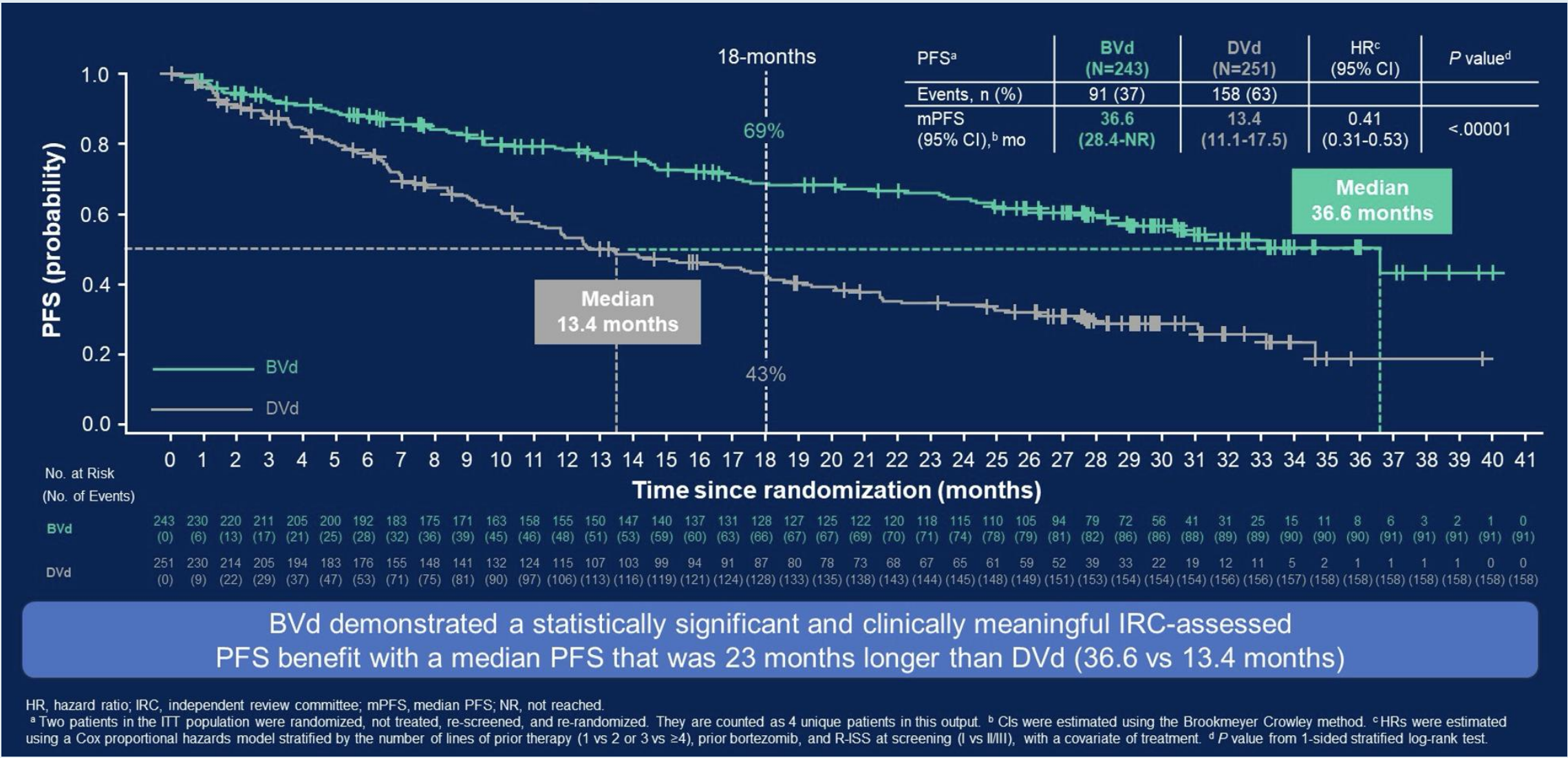
DREAMM-7: study design



AE, adverse event; CBR, clinical benefit rate; CRR, complete response rate; DOR, duration of response; FPI, first-patient-in; IV, intravenous; LPI, last-patient-in; MRD, minimal residual disease; ORR, overall response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; q3w, every 3 weeks; q4w, every 4 weeks; q12w, every 12 weeks; qw, every week; QOL, quality of life; R-ISS, Revised International Staging System; SC, subcutaneous; TTP, time to progression; TTR, time to response.

^a Reduce starting dose of dexamethasone to 10 mg for patients >75 years of age, who have a body-mass index <18.5, who had previous unacceptable side effects associated with glucocorticoid therapy, or who are unable to tolerate the starting.

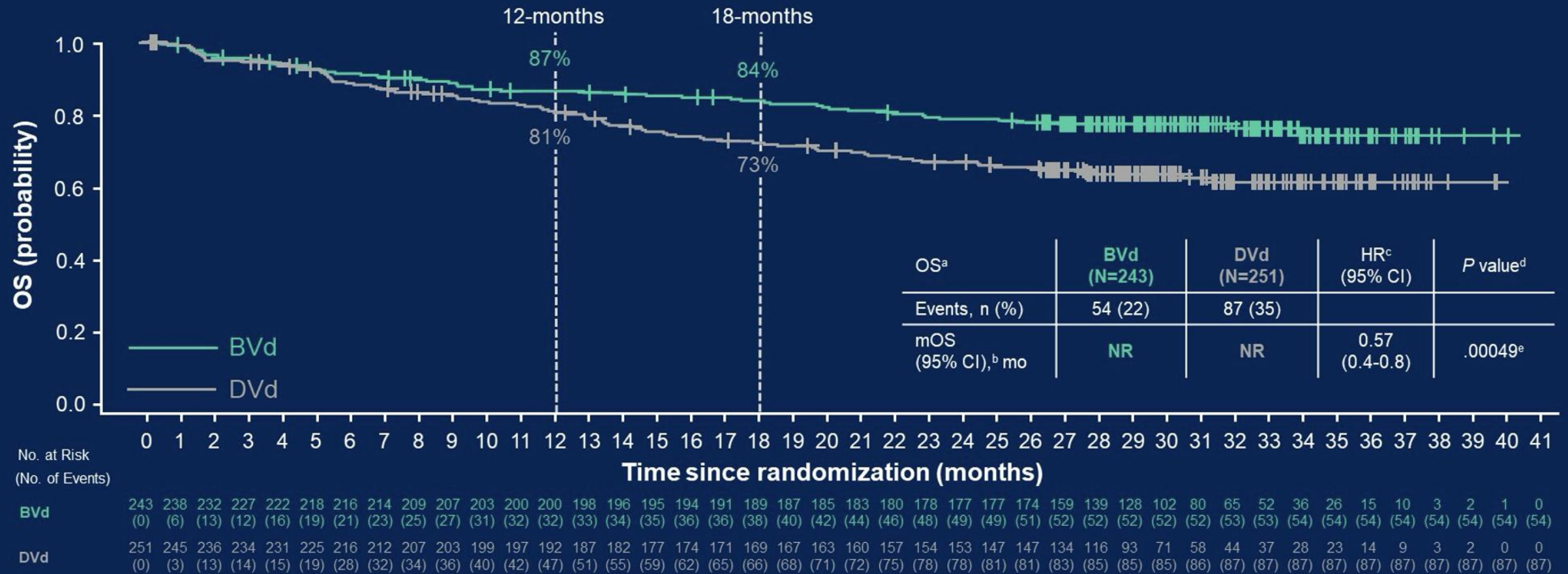
DREAMM-7: Progression-Free Survival (PFS) Outcomes



BVd = belantamab mafodotin/bortezomib/dexamethasone; DVd = daratumumab/bortezomib/dexamethasone



DREAMM-7: OS Outcomes



OS showed an early, strong, and clinically meaningful trend favoring the BVd arm; additional OS follow-up is ongoing

Belamaf = belantamab mafodotin

DREAMM-7: Visual Acuity

DREAMM-7: changes in best corrected visual acuity

Normal Vision (20/20)



Blurred Vision (20/50)



Vision Impaired (20/200)



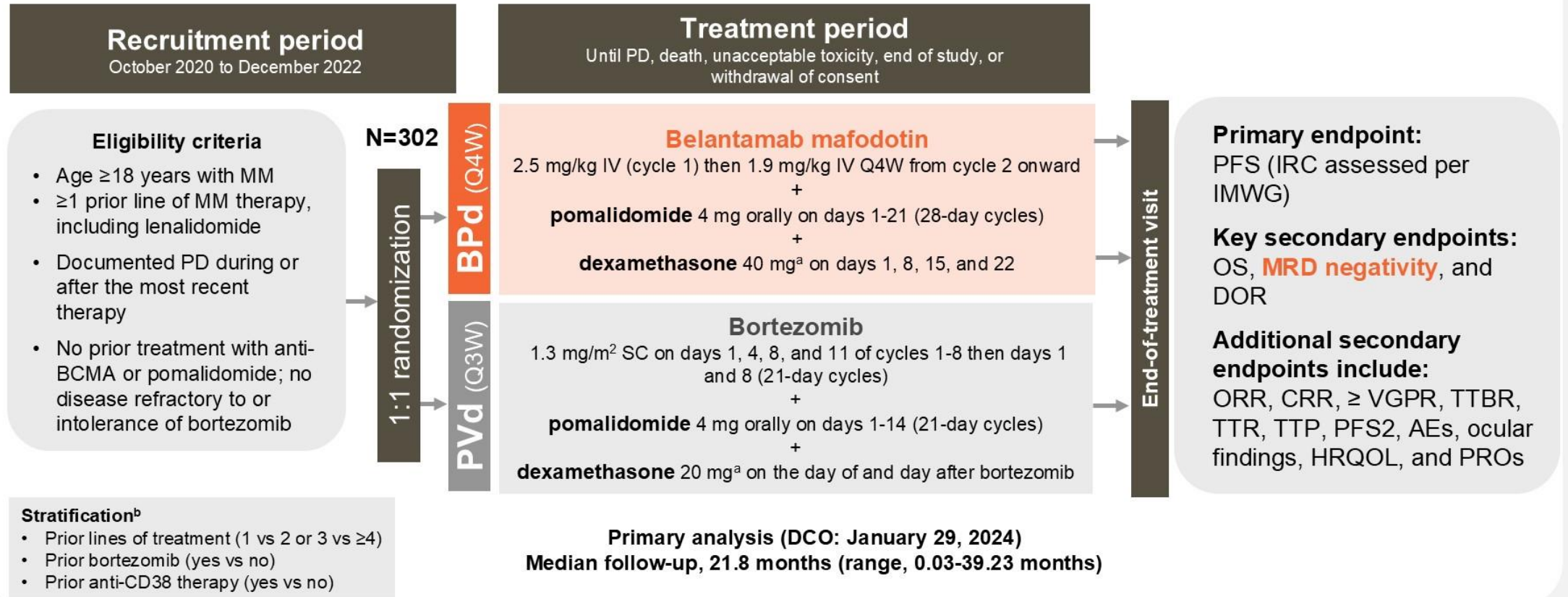
Reprinted from Shi C, et al. *bioRxiv*. 2018;doi:doi.org/10.1101/328443. Copyright © 2018 the Author.

BVd	Blurred Vision (20/50) ^a	Vision Impaired (20/200) ^a
Patients, n/N (%)	82/242 (34)	5/242 (2)
Time to onset of first event, median (range), days	73.5 (16-753)	105 (47-304)
Duration of first event, median (range), days	22 (6-257)	19 (8-26)
First event resolved, ^b n (%)	80 (98)	5 (100)

44% of patients had dose reductions, 78% had dose delays/interruptions, and 9% discontinued due to any ocular event

BPd = belantamab mafodotin/pomalidomide/dexamethasone

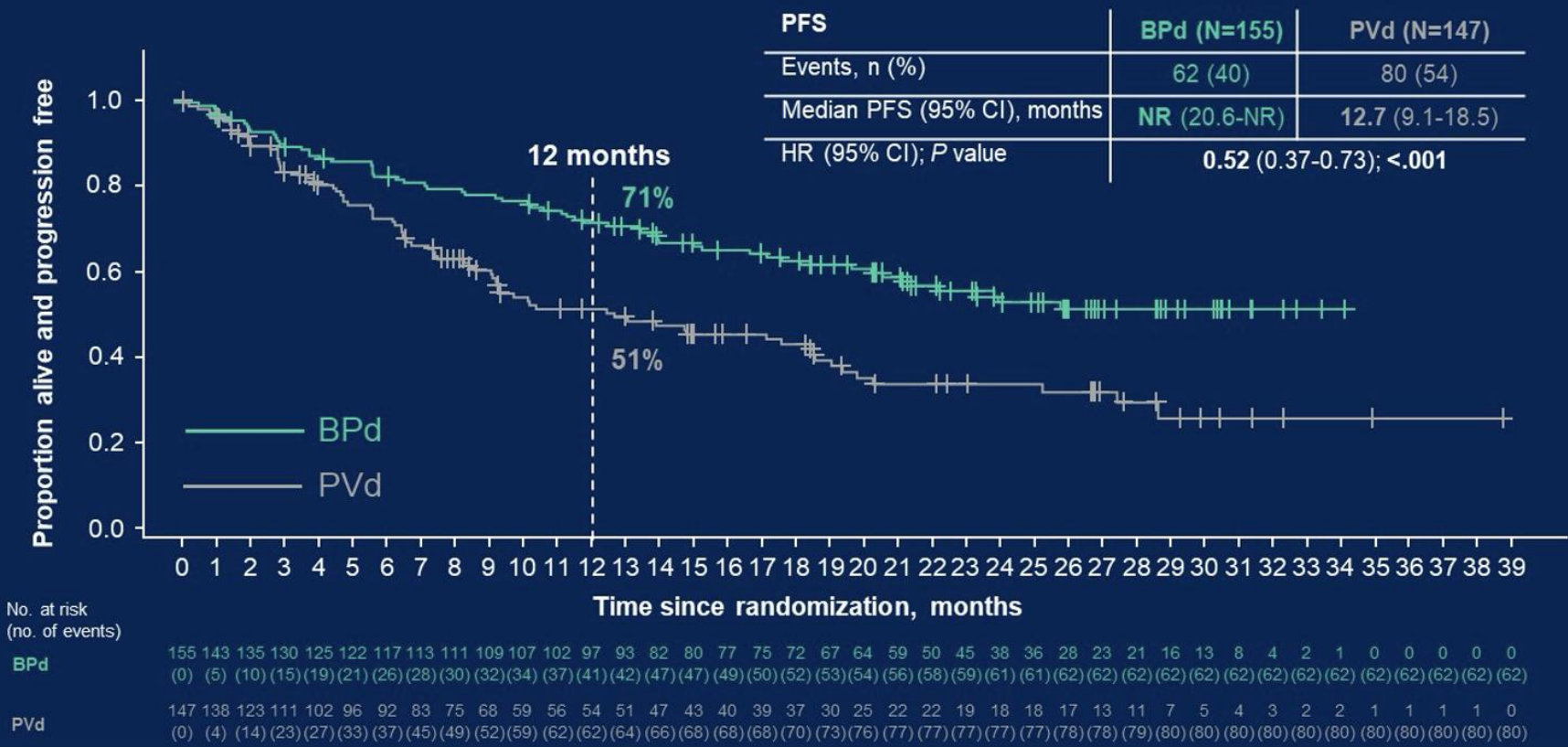
DREAMM-8: Trial Design



AE, adverse event; BCMA, B-cell maturation antigen; BPd, belantamab mafodotin, pomalidomide, and dexamethasone; CD, cluster of differentiation; CRR, complete response rate; DOR, duration of response; HRQOL, health-related quality of life; IMWG, International Myeloma Working Group; IRC, independent review committee; ISS, International Staging System; IV, intravenous; MM, multiple myeloma; MRD, minimal residual disease; ORR, objective response rate; OS, overall survival; PD, progressive disease; PFS, progression-free survival; PFS2, progression-free survival on subsequent line of therapy; PRO, patient-reported outcome; PVd, pomalidomide, bortezomib, and dexamethasone; Q3W, every 3 weeks; Q4W, every 4 weeks; SC, subcutaneous; TTBR, time to best response; TTP, time to progression; TTR, time to response; VGPR, very good partial response.

^a Patients aged >75 years with comorbidities or intolerance of the 40-mg dose in arm A or 20-mg dose in arm B could have dose level reduced to half per investigator discretion. ^b Some patients were stratified by ISS stage (I vs II/III); the protocol was amended on April 20, 2021, to replace this randomization factor with prior anti-CD38 treatment (yes vs no).

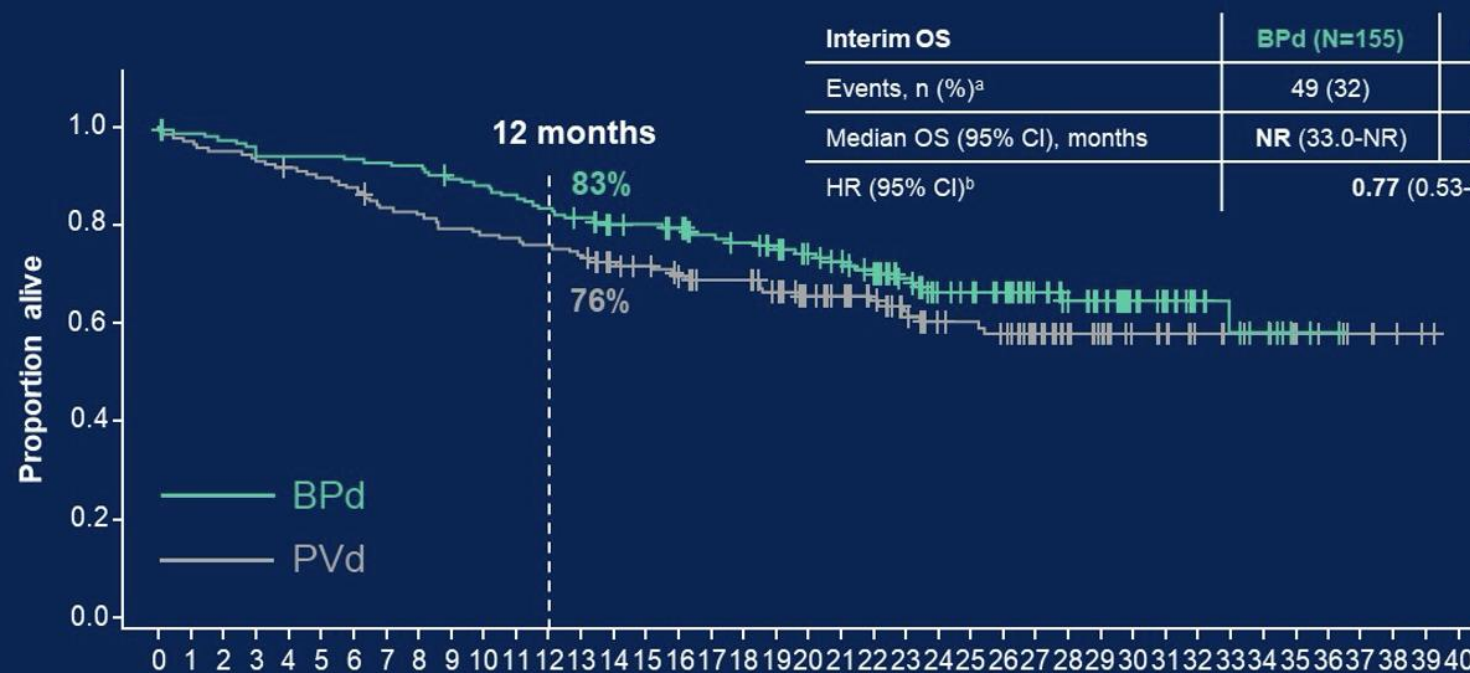
DREAMM-8: PFS Outcomes



BPd led to a statistically significant and clinically meaningful reduction in risk of disease progression or death vs PVd (HR, 0.52; 95% CI, 0.37-0.73; $P<.001$)

Median follow-up, 21.8 months (range, 0.03-39.23 months)
The treatment effect (HR and corresponding 95% CIs) was estimated using the stratified Cox proportional hazards model, and the P value was produced based on the 1-sided stratified log-rank test. Stratified analyses were adjusted for number of prior lines of therapy and prior bortezomib use.
BPd, belamaf, pomalidomide, and dexamethasone; HR, hazard ratio; NR, not reported; PFS, progression-free survival; PVd, pomalidomide, bortezomib, and dexamethasone.

DREAMM-8: OS Outcomes



Interim OS	BPd (N=155)	PVd (N=147)
Events, n (%) ^a	49 (32)	56 (38)
Median OS (95% CI), months	NR (33.0-NR)	NR (25.2-NR)
HR (95% CI) ^b	0.77 (0.53-1.14)	

Subsequent antitumor therapy, n (%) ^c	ITT population	
	BPd (N=155)	PVd (N=147)
Steroids	37 (24)	59 (40)
Anti-CD38 antibodies	23 (15)	49 (33)
Proteasome inhibitor	26 (17)	36 (24)
Immunomodulator	14 (9)	29 (20)
BCMA-targeting therapy ^{d,e}	1 (<1)	20 (14)
Chemotherapy	16 (10)	25 (17)
Transplant	1 (<1)	5 (3)

No. at risk
(no. of events)

Time since randomization, months

BPd	155	149	147	143	142	142	141	140	139	134	132	129	125	121	115	114	112	107	104	100	93	89	83	73	63	61	57	43	35	32	24	19	13	9	7	2	1	0	0	0	0	
	(0)	(2)	(4)	(8)	(9)	(9)	(10)	(11)	(12)	(16)	(18)	(21)	(25)	(28)	(30)	(30)	(31)	(33)	(35)	(37)	(38)	(40)	(42)	(44)	(47)	(47)	(47)	(47)	(48)	(48)	(48)	(48)	(48)	(49)	(49)	(49)	(49)	(49)	(49)	(49)	(49)	(49)
PVd	147	143	140	138	134	131	128	121	119	115	113	112	110	107	101	98	93	89	89	82	75	71	65	56	50	49	46	40	31	27	21	19	13	12	11	8	7	4	3	1	0	
	(0)	(4)	(7)	(9)	(12)	(15)	(18)	(24)	(26)	(30)	(32)	(33)	(35)	(38)	(40)	(41)	(44)	(45)	(45)	(48)	(49)	(49)	(50)	(52)	(54)	(54)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)	(56)

Positive OS trend favoring BPd was seen despite the use of effective anti-MM therapies after progression with PVd; additional OS follow-up is ongoing

DREAMM-8: Visual Acuity

DREAMM-8

Belantamab
Mafodotin + Pd

Bilateral Worsening in Best Corrected Visual Acuity

20/20



20/50



20/200



Reprinted from Shi C, et al. *bioRxiv*. 2018;doi:doi.org/10.1101/328443. Copyright © 2018 the Author.

BPd	Bilateral worsening of BCVA in patients with normal baseline (20/25 or better in ≥1 eye)	
	20/50 or worse ^a	20/200 or worse ^a
Patients, n/N (%)	51/150 (34)	2/150 (1)
Time to onset of first event, median (range), days	112 (28-761)	351 (29-673)
Time to resolution of first event to normal baseline, median (range), days ^{b,c}	57 (14-451)	NA ^d
Time to improvement of first event, median (range), days ^e	29 (7-196)	25.5 (22-29)
First event resolved to normal baseline, n/N (%) ^c	43/51 (84)	1/2 (50)
First event improved, n/N (%) ^e	47/51 (92)	2/2 (100)
Follow-up ended with event ongoing, n/N (%) ^{c,f}	4/51 (8)	1/2 (50)

Visual acuity changes that could affect activities of daily living were reversible in most patients

Abstract # 12040: Incidence of ocular toxicities in patients with relapsed/refractory multiple myeloma treated with belantamab mafodotin: A systemic review and meta-analysis of phase 3 randomized controlled trials

Riccesha Hattin, DO⁽¹⁾, Hazem Aboaid, MD⁽¹⁾, Daniel Thomas Jones, OMS-IV⁽²⁾, Abbas Hussain, MD⁽¹⁾, Savannah Schauer, MS-III⁽³⁾, Tal Schlesinger, MS-III⁽³⁾, Rory Twells, MS-III⁽³⁾, Karl Aharonian, MS-III⁽³⁾, Ryan Parto, MD⁽¹⁾, Rodd Rahmani, MD⁽¹⁾, Chalette Lambert-Swainston, MD⁽¹⁾, Ramaditya Srinivasmurthy, OMS-IV⁽²⁾, Kyaw Zin Thein, MD^(1,2,3,4), Thura Win Htut, MBBS, MRCP, FRCPath⁽⁵⁾

ASCO 2025.

Meta-Analysis of Ocular Events in DREAMM Studies

Ocular adverse events – Any Grade



Ocular adverse events – High Grade



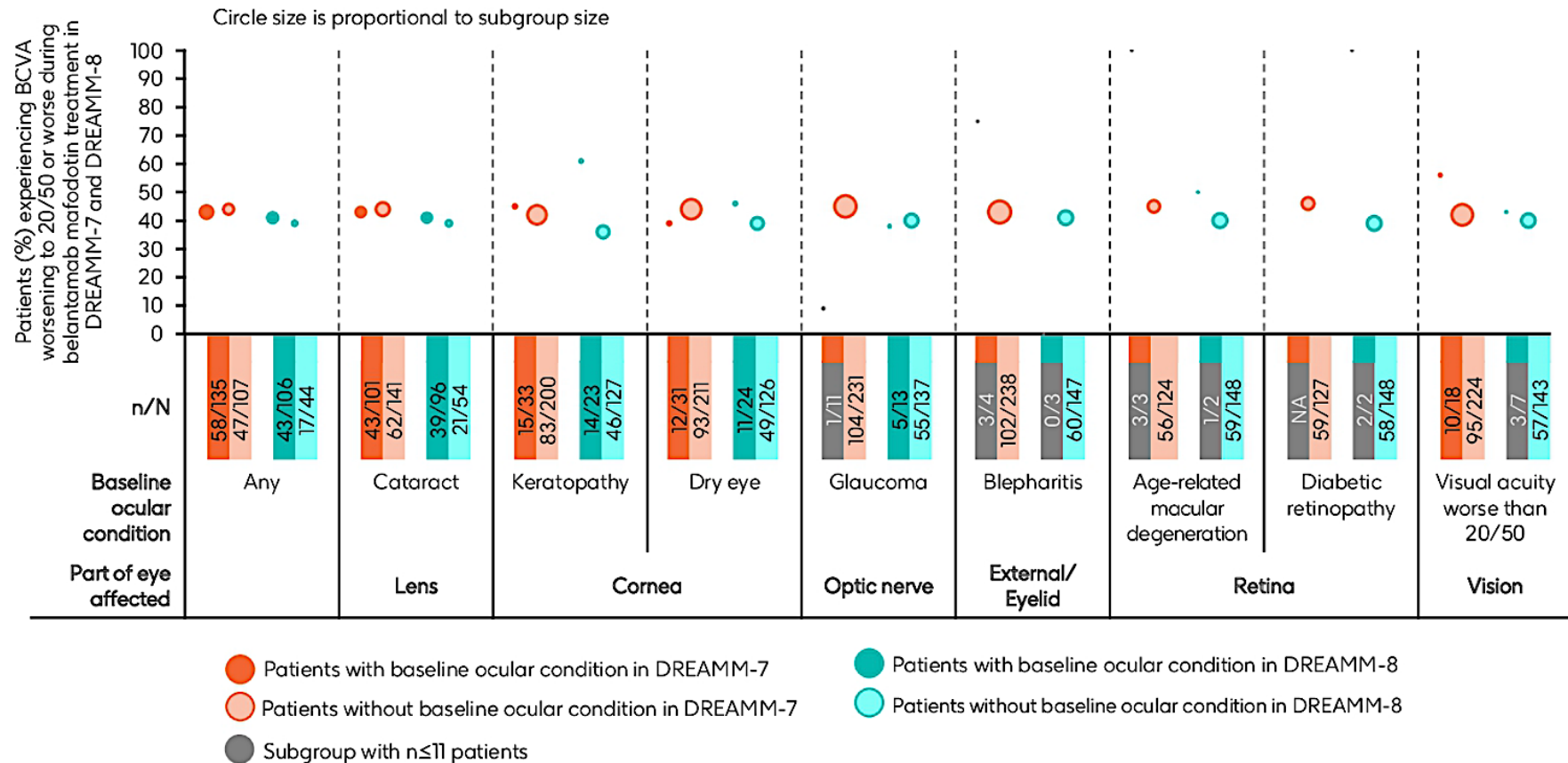
Baseline ocular conditions and incidence of ocular events in patients with relapsed/refractory multiple myeloma from the DREAMM-7 and DREAMM-8 trials of belantamab mafodotin

Meral Beksac¹, Hang Quach², Vania Hungria³, Ludek Pour⁴, Kihyun Kim⁵, Sergey Voloshin⁶, Hanlon Sia⁷, Esther Gonzalez Garcia⁸, Chang Ki Min⁹, Marcelo Pitonbeira de Lacerda¹⁰, Anna Maria Sureda¹¹, Ivan Spicka¹², Marek Hus¹³, Vera Zherebtsova¹⁴, Margaret Polinkovsky¹⁵, Sybil Varghese¹⁵, Joe Lee¹⁶, Elisabet E. Manasanch¹⁵, Pawel Robak¹⁷, Meletios Dimopoulos¹⁸

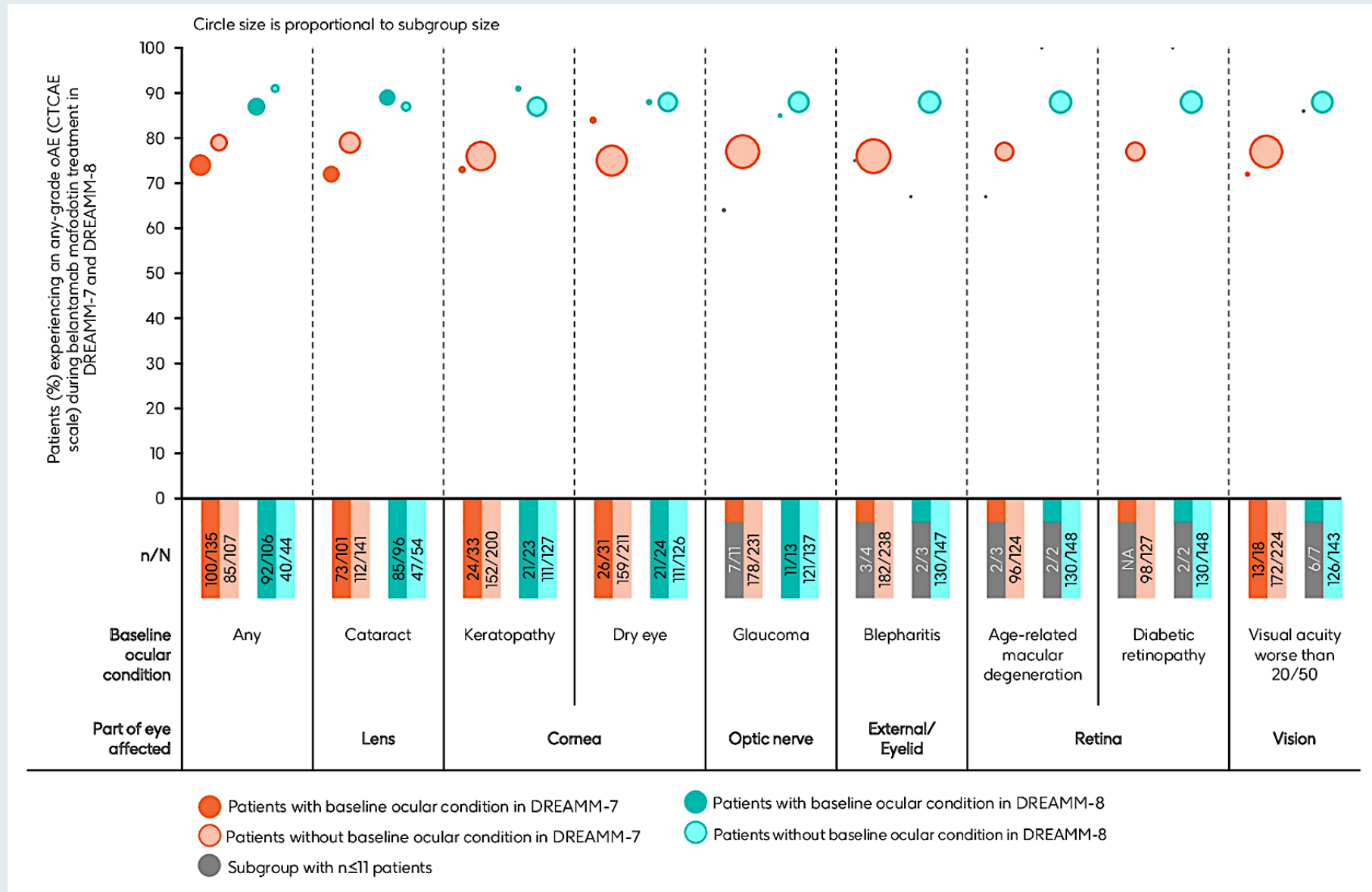
Visual Acuity in Patients with Baseline Ocular Conditions

Figure 2: Reduction of BCVA to 20/50 or worse was generally similar in patients with and without ocular conditions at baseline

- Differences of >20 percentage points were observed between those with and without some baseline ocular conditions, but the size of the subgroups with baseline conditions were too small (n ≤11) for meaningful interpretation; these included baseline glaucoma (DREAMM-7), blepharitis (DREAMM-7 and -8), age-related macular degeneration (DREAMM-7), and diabetic nephropathy (DREAMM-8)



Ocular Events in Patients with Baseline Ocular Conditions



FDA Briefing Document

BLA 761440

Belantamab mafodotin

Oncologic Drugs Advisory Committee Meeting

July 17, 2025

Incidence of Ocular Toxicities with Belantamab Mafodotin

Table 17: DREAMM-7 and DREAMM-8 Overview of KVA Events

	DREAMM-7	DREAMM-8
Adverse Event Category, n (%)	BVd N=242	BPd N=150
Any Grade KVA event	222 (92)	140 (93)
Grade 1	13 (5)	9 (6)
Grade 2	22 (9)	15 (1)
Grade 3	136 (56)	103 (69)
Grade 4	51 (21)	13 (9)
Any dose modification due to KVA event	185 (76)	117 (78)
Dose interruption due to KVA event	179 (74)	113 (75)
Dose reduction due to KVA event	72 (30)	86 (57)
Discontinuation due to KVA event	15 (6)	11 (7)

Abbreviations: KVA=keratopathy and visual acuity (i.e., event per KVA scale).

Source: FDA Analysis

Timing and Duration of Ocular Toxicities with Belantamab Mafodotin

Table 20: Timing and Duration of Grade ≥ 2 KVA Events

	DREAMM-7	DREAMM-8
	BVd N=242	BPd N=150
Grade ≥ 2 KVA event, n (%)	209 (86)	131 (87)
Onset (1 st event), median (range), in days	43 (15, 611)	32 (18, 533)
0-2 months	154 (74)*	102 (78)
2-4 months	38 (18)	19 (14)
4-6 months	7 (3)	4 (3)
6 months and beyond	10 (5)	6 (5)
Duration (all events), median (range), in days	85 (5, 813)	85 (2, 746)

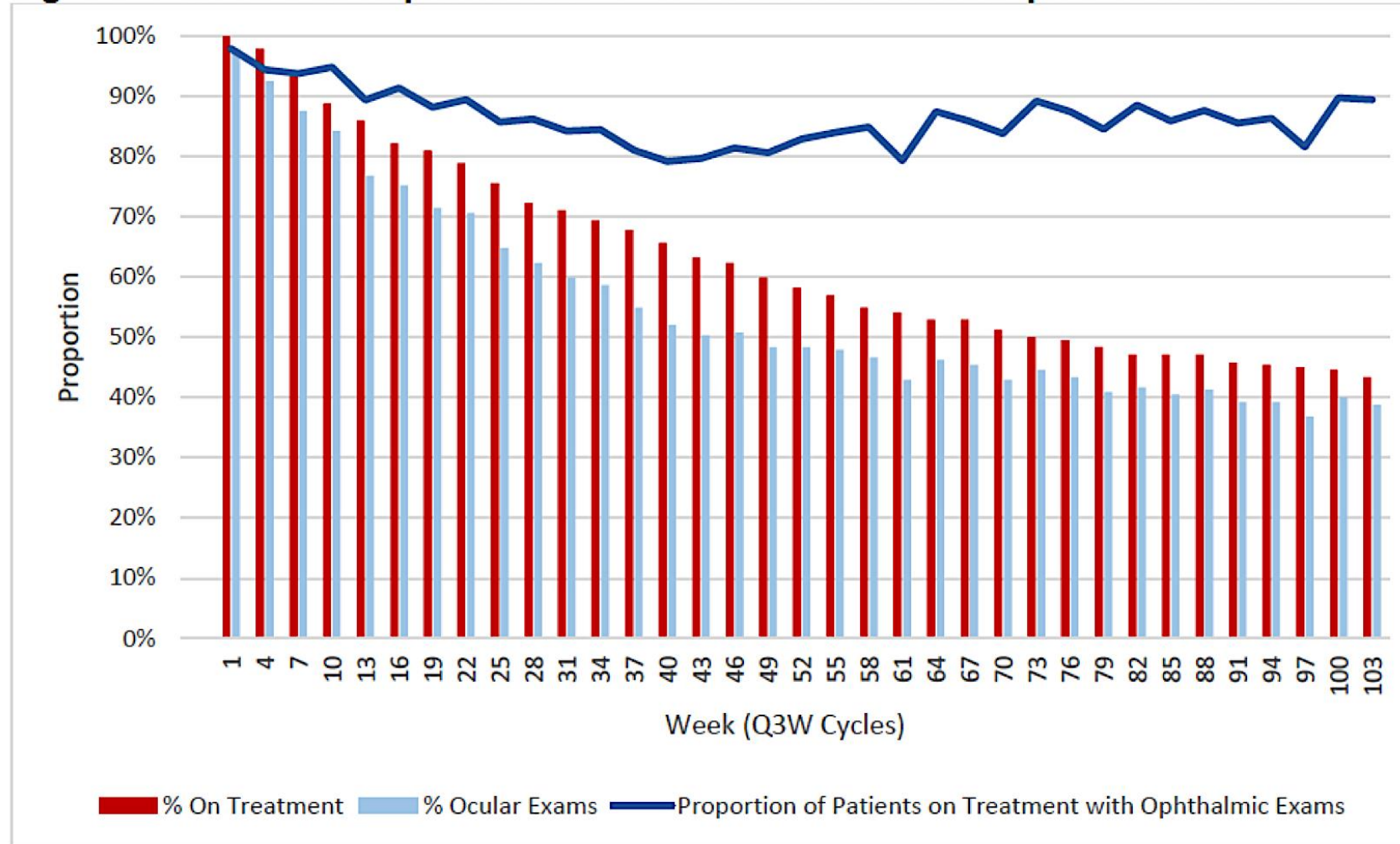
*Includes 1 patient with Grade 2 KVA findings at baseline.

Abbreviations: KVA=keratopathy and visual acuity (i.e., event per KVA scale).

Source: FDA analysis

DREAMM-7: Ophthalmic Exams

Figure 8: DREAMM-7 Proportion of Patients on Treatment with Ophthalmic Exams

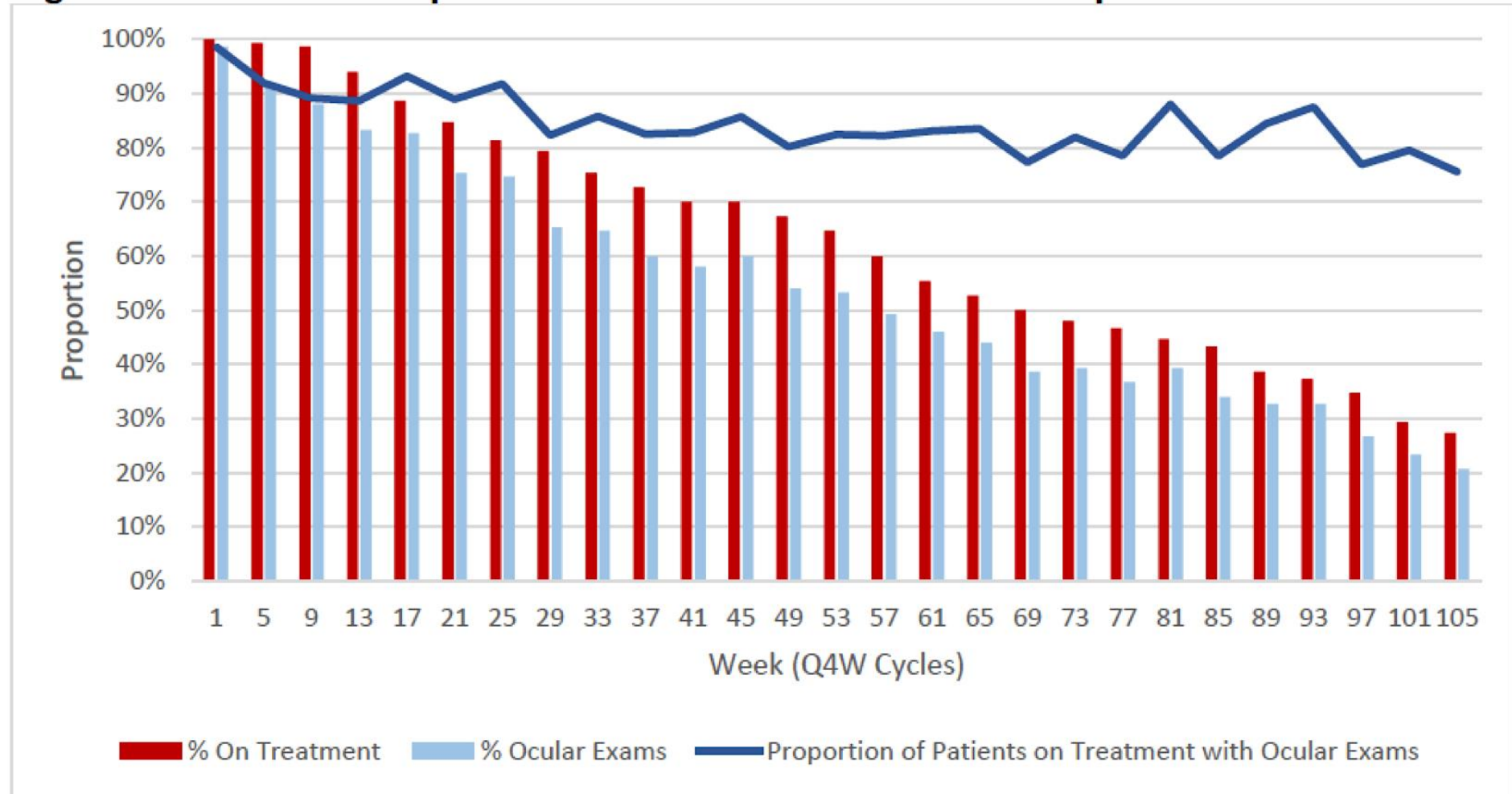


Abbreviations: Q3W=once every 3 weeks.

Source: FDA analysis; Applicant's Response to FDA Information Request dated February 7, 2025

DREAMM-8: Ophthalmic Exams

Figure 9: DREAMM-8 Proportion of Patients on Treatment with Ophthalmic Exams



Abbreviations: Q4W=once every 4 weeks.

Source: FDA analysis; Applicant's Response to FDA Information Request dated February 7, 2025

Outcome of Ocular Toxicities with Belantamab Mafodotin

Table 21: Outcome of Current or Last Grade 2 KVA Event

	DREAMM-7	DREAMM-8
	BVd N=242	BPd N=150
Grade ≥ 2 KVA event, n (%)	209 (86)	131 (87)
Outcome (last event), n (%)		
Resolved (Grade ≤ 1)	87 (42)	56 (43)
Ongoing	122 (58)	75 (57)
Ongoing study treatment	56 (27)	38 (29)
Discontinued treatment, follow-up ongoing	31 (15)	12 (9)
Discontinued treatment, follow-up ended	35 (17)	25 (19)

Abbreviations: KVA=keratopathy and visual acuity (i.e., event per KVA scale).

Source: FDA analysis

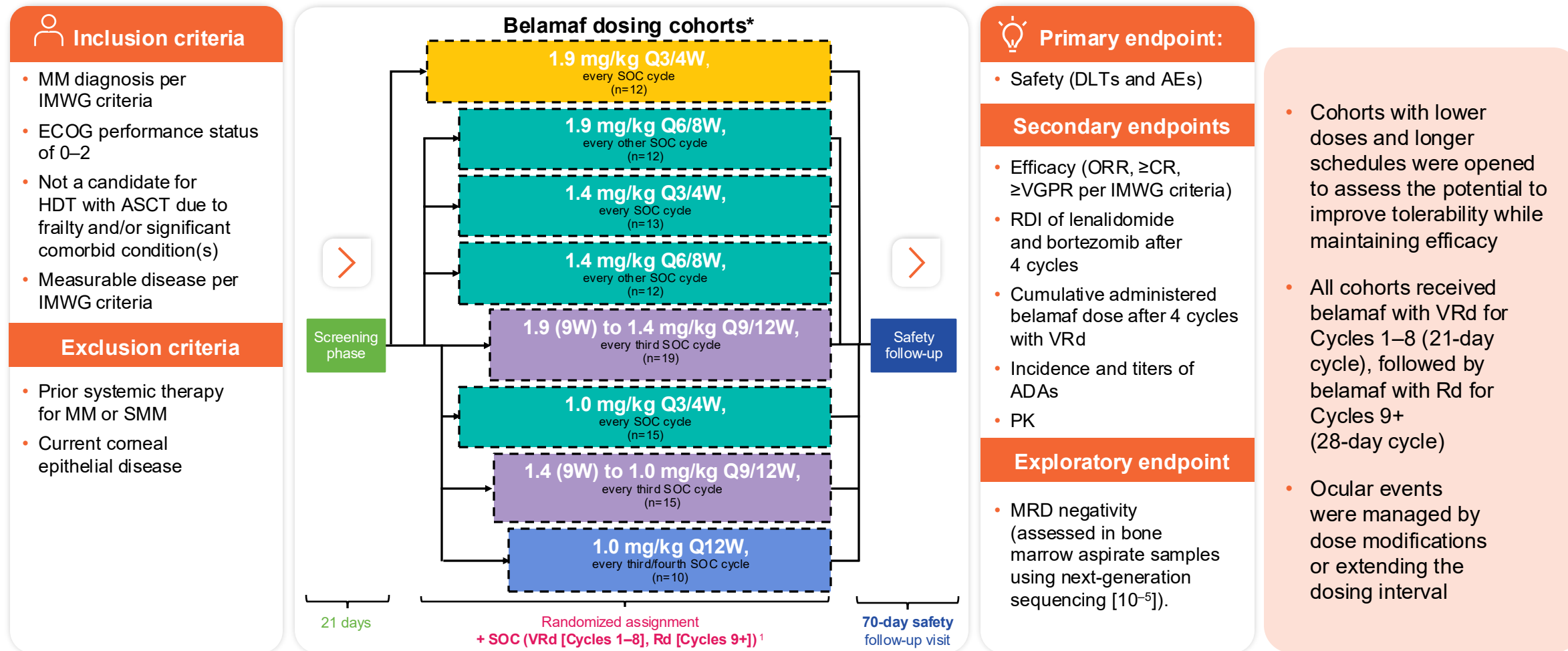
FDA Briefing Document: Belantamab Ocular Toxicity Summary

7.1.7 Ocular Toxicity Summary

The key safety issue with belantamab mafodotin is ocular toxicity, with specific findings that include keratopathy, clinically significant changes in visual acuity, and other ocular TEAEs such as blurred vision, photophobia, and dry eye. Despite the differences in the dosing regimens of belantamab mafodotin in DREAMM-7 and DREAMM-8, with a reduction in dose from Cycle 2 onward in DREAMM-8, the ocular toxicity findings were generally similar across studies.

In both DREAMM-7 and DREAMM-8, there were high rates of KVA events, including Grade 3 and higher KVA events. The majority of patients experienced recurrent KVA events throughout the duration of treatment and a substantial percentage of patients experienced clinically significant unilateral changes in visual acuity. While data regarding reversibility of ocular toxicity is limited by the duration of follow up and missing eye exams following study treatment, it is notable that not all KVA events, including visual acuity changes, resolved and that a subset of patients who discontinued study treatment continued to have stable or worsening KVA events at the time of follow up examinations. These findings raise questions regarding the reversibility of the ocular toxicity seen with belantamab mafodotin, particularly towards the end of study treatment, when a patient may have already experienced multiple ocular toxicity events.

DREAMM-9: Study design



*Cohorts of the same color opened at the same time. Cohorts with longer rectangles opened earlier.

ADA, anti-drug antibodies; AE, adverse event; ASCT, autologous stem cell transplant; belamaf, belantamab mafodotin; CR, complete response; DLT, dose-limiting toxicities; ECOG, Eastern Cooperative Oncology Group; HDT, high-dose chemotherapy; IMWG, International Myeloma Working Group; MM, multiple myeloma; MRD, minimal residual disease; ORR, overall response rate; PK, pharmacokinetics; PR, partial response; QxW, every x weeks; RDI, relative dose intensity; SMM, smoldering MM; SOC, standard of care; VGPR, very good partial response

DREAMM-9: Best corrected visual acuity

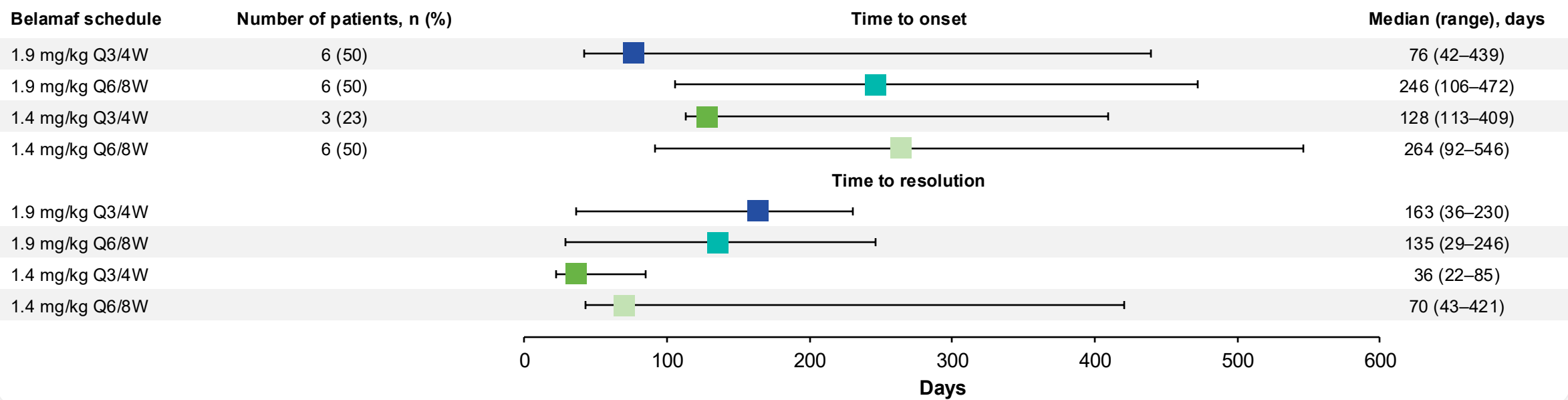
Dose and schedule affected the time to, and resolution of, BCVA decreases



- Extending the dosing interval between the 1.9 mg/kg or 1.4 mg/kg doses from Q3/4W to Q6/8W was associated with longer time to BCVA decrease to 20/50 or worse*
- Resolution of BCVA decreases was generally faster in cohorts with lower initial doses of belamaf



First occurrence of decrease in BCVA score from baseline (20/25 or better) to 20/50 or worse



*In the 4 cohorts shown, 2 patients had a BCVA change from 20/25 or better to 20/200 or worse. These patients both had bilateral cataracts.
†Image adapted from Shi C, et al. bioRxiv. 2018;doi:doi.org/10.1101/328443. Copyright © 2018 the Author.
belamaf, belantamab mafodotin; BCVA, best corrected visual acuity; QxW, every x weeks.

LETTER TO THE EDITOR

Belantamab mafodotin monotherapy for relapsed or refractory multiple myeloma: a real-world observational study in the United States

Assessment of Ocular Events During Follow-Up

Ocular events	Patients N=184
N of belantamab mafodotin administrations prior to first event, median (mean ± SD)	2.0 (2.1±1.1)
By number of belantamab mafodotin administrations prior to first event, N (%)	
1	30 (16.3)
2	40 (21.7)
≥3	22 (12.0)
N of events in patients with ≥1 event, median (mean ± SD)	2.0 (1.7±0.9)
By number of events, N (%)	
1	44 (23.9)
>1	48 (26.1)
2	34 (18.5)
≥3	14 (7.6)

Assessment of Ocular Events During Follow-Up (Continued)

Ocular events	Patients N=184
Type of event, N (%)	
Keratopathy	76 (41.3)
Patients with multiple keratopathy events	6 (7.9)
Keratopathy severity of first event	
Patients with ≥ 1 ocular examination on or after the keratopathy onset date	72 (94.7)
BCVA score assessment	63 (82.9)
Slit lamp examination	71 (93.4)
Blurred vision	52 (28.3)
Dry eye	32 (17.4)
Keratitis	18 (9.8)
Action taken	
Therapy hold*, N (%)	57 (31.0)
Patients subsequently administered belantamab mafodotin, N (%)	41 (22.3)
Time from last administration before the onset date to subsequent administration [†] in days, median (mean $\pm$ SD)	42.0 (48.4 $\pm$ 27.2)
Hold >28 days, N (%)	26 (14.1)
Treatment for adverse event, N (%)	55 (29.9)
Therapy dose or schedule change, N (%)	18 (9.8)
None, N (%)	14 (7.6)
Therapy discontinuation, N (%)	13 (7.1)

BCVA = best corrected visual acuity

Assessment and Management of Keratopathy Events During Follow-Up

Keratopathy severity, N=62	Mild N=38	Moderate N=19	Severe N=5
Patients with action taken following keratopathy onset, N (%)	27 (71.1)	19 (100.0)	4 (80.0)
Therapy hold,* N (%)	19 (50.0)	15 (78.9)	4 (80.0)
Patients with subsequent belantamab mafodotin administration, N (%)	17 (44.7)	12 (63.2)	2 (40.0)
Time from last administration before the onset date to subsequent administration in days, median (mean ± SD)	21.0 (34.7±26.8)	59.5 (64.4±29.8)	46.0 (46.0±5.7)
Hold >28 days, N (%)	5 (13.2)	10 (52.6)	2 (40.0)
Treatment for event, N (%)	19 (50.0)	11 (57.9)	1 (20.0)
Therapy dose or schedule change, N (%)	7 (18.4)	6 (31.6)	1 (20.0)
Therapy discontinuation, N (%)	3 (7.9)	4 (21.1)	1 (20.0)

Assessment and Management of Keratopathy Events During Follow-Up (Continued)

Keratopathy severity, N=62	Mild N=38	Moderate N=19	Severe N=5
Therapy dose or schedule change, N (%)	7 (18.4)	6 (31.6)	1 (20.0)
Therapy discontinuation, N (%)	3 (7.9)	4 (21.1)	1 (20.0)

Ophthalmic Monitoring During Follow-Up

Ophthalmic examinations before each belantamab mafodotin administration	Patients N=184
Median ratio of ophthalmic visits to administration	1.0
First administration Patients with ≥ 1 ophthalmic examination before first administration, N (%) ≤ 14 days prior to administration, N (%) ≤ 28 days prior to administration, N (%)	169 (91.8) 142 (77.2) 164 (89.1)
Second administration Patients with ≥ 2 administrations, N (%) Patients with ≥ 1 ophthalmic examination between first and second administration, N (%) ≤ 14 days prior to administration, N (%) ≤ 28 days prior to administration, N (%)	142 (77.2) 131 (71.2) 126 (68.5) 131 (71.2)
Median BCVA score Patients with ≥ 1 ophthalmic examination; N=135, logMAR, Snellen equivalent (feet) Patients with ≥ 2 ophthalmic examinations; N=98, logMAR, Snellen equivalent (feet)	0.0, 20/20 0.0, 20/20
Ophthalmic examination within 14 days of worsening keratopathy symptoms; N=76, N (%)	59 (77.6)
Subsequent ophthalmic examinations in patients with keratopathy; N=76, N (%) Keratopathy severity, N Mild Moderate Severe	56 (73.7) 33 20 5
Ocular treatments, N (%) Any Preservative-free artificial tears Eye drops Other	157 (85.3) 130 (70.7) 34 (18.5) 16 (8.7)

Follow-up was defined as the period between the first belantamab mafodotin administration (start of treatment) and start of participation in a clinical trial, date of last recorded clinical interaction, end of data availability, or death, whichever occurred first. N: number; BCVA: best corrected visual acuity.

Ophthalmic Monitoring During Follow-Up (Continued)

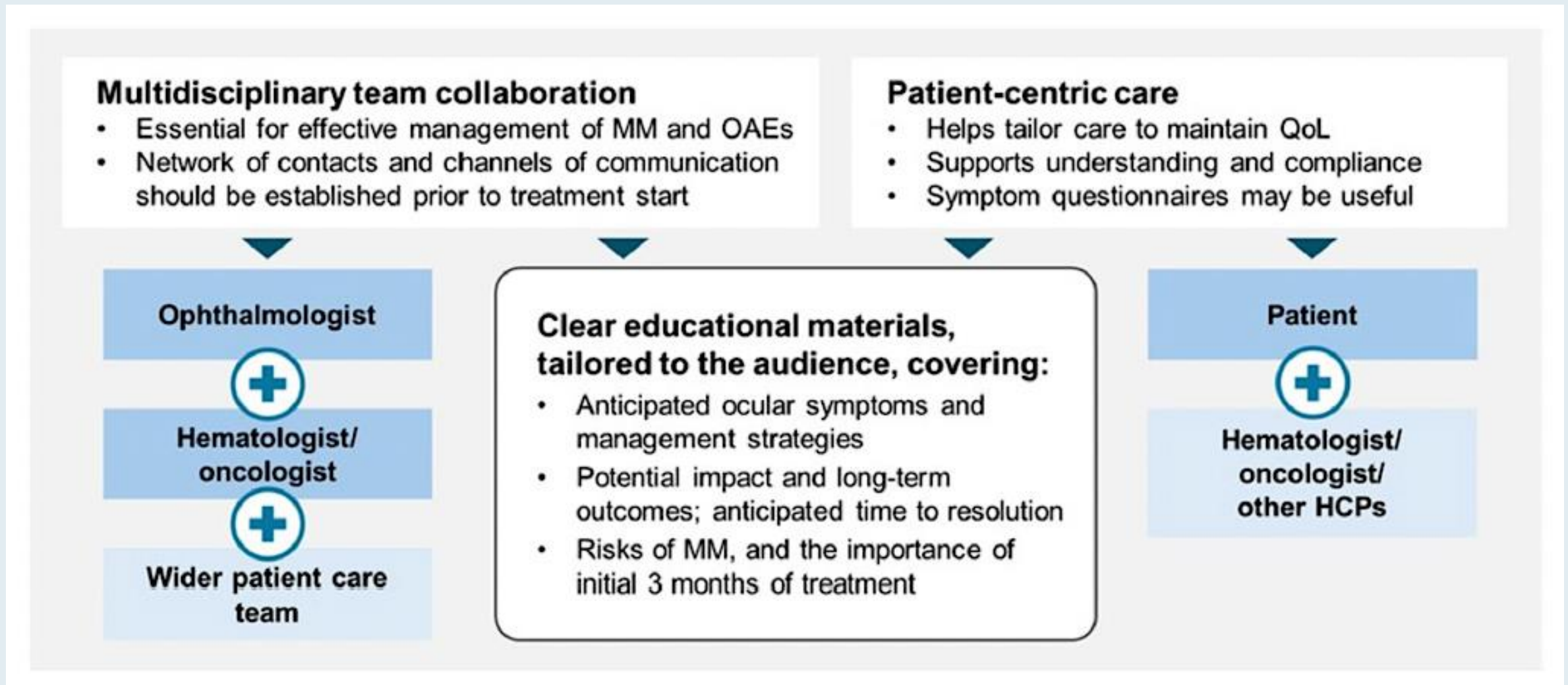
Ophthalmic examinations before each belantamab mafodotin administration	Patients N=184
First administration	
Patients with ≥ 1 ophthalmic examination before first administration, N (%)	169 (91.8)
≤ 14 days prior to administration, N (%)	142 (77.2)
≤ 28 days prior to administration, N (%)	164 (89.1)
Ocular treatments, N (%)	
Any	157 (85.3)
Preservative-free artificial tears	130 (70.7)
Eye drops	34 (18.5)
Other	16 (8.7)

Practical Guidance on the Clinical Management of Ocular Adverse Events Associated with Belantamab Mafodotin for Patients with Relapsed/Refractory Multiple Myeloma: Latin American Expert Panel Recommendations

Vânia Hungria  · Virginia Abello Polo · Ariel Corzo · Edvan Q. Crusoe · Michel E. Farah · Natália A. Iutaka · Gracia A. Martinez · Aline G. Ramírez Alvarado · Simón Romano-Bucay · Patricio G. Schlottmann · Cristian M. Seehaus · Jorge C. Torres Flores · Angelo Maiolino

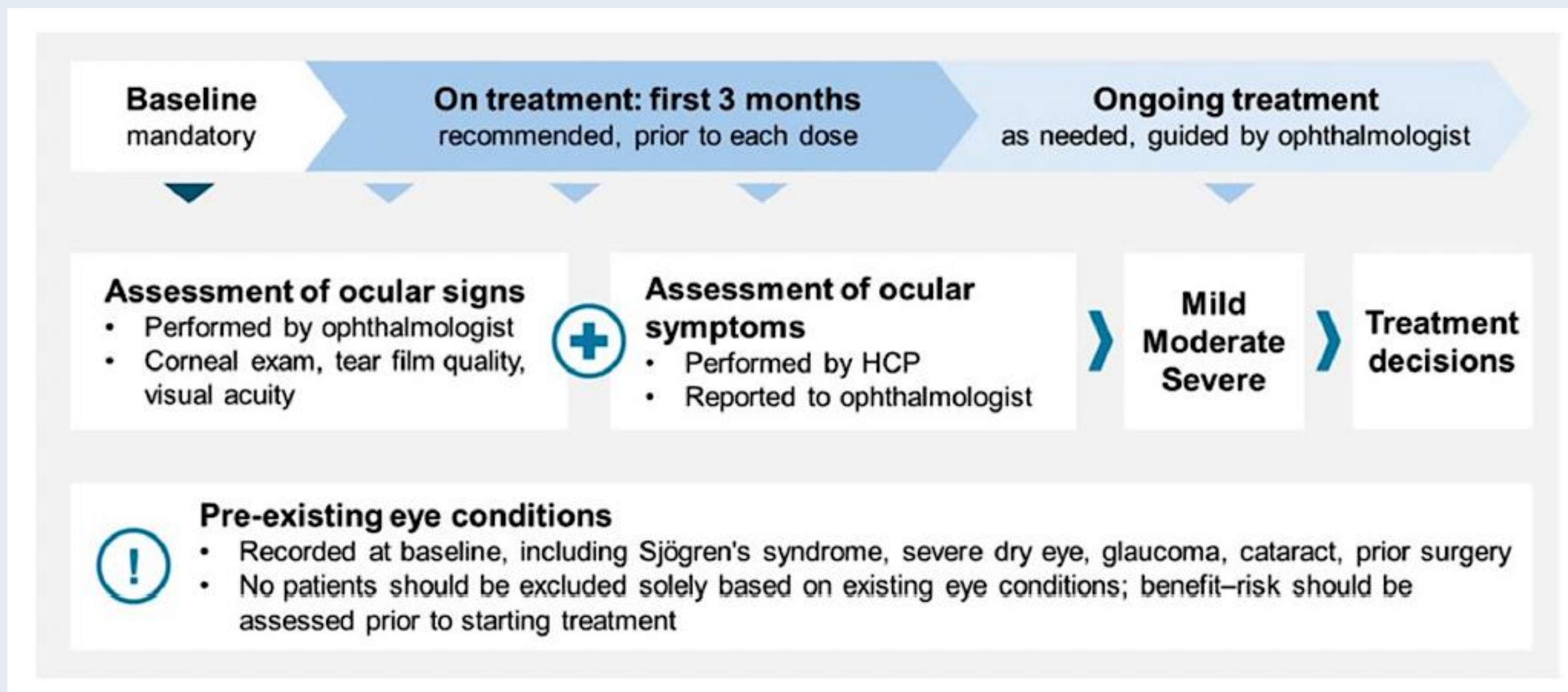
Oncol Ther 2025;[Online ahead of print].

Belantamab: Latin American Expert Panel Recommendations



MM = multiple myeloma; OAEs = ocular adverse events

Belantamab: Latin American Panel – Ocular Assessments



Belantamab: Latin American Expert Panel – Dose Modifications



Dose/schedule modification decisions

- Discussed by the ophthalmologist and hematologist/oncologist; priority given to effective MM control
- No ocular events indicate permanent discontinuation; benefit:risk should be assessed for each case

**Mild keratitis;
no impact on vision**



Maintain treatment

**Moderate keratitis;
some impact on
vision**



**Reduce dose level and/or
increase dosing interval**

**Severe keratitis with
pain; significant
impact on vision**



**Further reduce dose and/or
increase interval; consider
interruption of treatment**



Additional management options:

- Preservative-free lubricants or gels throughout treatment
- Avoid contact lenses, unless advised by the ophthalmologist
- Topical antibiotics and corticosteroids, if advised by the ophthalmologist
- Use of all other medications should be discussed with treating physician

Agenda

Introduction: The Patient Experience

Module 1: Managing Ocular Toxicities Associated with Antibody-Drug Conjugates and Other Cancer Therapies — Dr Pasricha

Module 2: Ocular Toxicities in Multiple Myeloma

Module 3: Ocular Toxicities in Breast Cancer

Datopotamab deruxtecan (Dato-DXd) vs chemotherapy in pretreated, inoperable/metastatic HR+/HER2– breast cancer: Additional safety analysis from TROPION-Breast01

Komal Jhaveri,¹ Aditya Bardia,² Seock-Ah Im,³ Sonia Pernas,⁴ Michelino De Laurentiis,⁵ Shusen Wang,⁶ Noelia Martínez Jañez,⁷ Giuliano Borges,⁸ David W. Cescon,⁹ Masaya Hattori,¹⁰ Yen-Shen Lu,¹¹ Erika Hamilton,¹² Junji Tsurutani,¹³ Kevin Kalinsky,¹⁴ Darlington Mapiye,¹⁵ Rick Fairhurst,¹⁶ Manjunatha Ankathatti Munegowda,¹⁷ Binghe Xu,¹⁸ Barbara Pistilli,¹⁹ Hope S. Rugo²⁰

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²Jonsson Comprehensive Cancer Center, University of California Los Angeles, Los Angeles, CA, USA (formerly Massachusetts General Cancer Center, Harvard Medical School, Boston, MA, USA); ³Seoul National University Hospital, Cancer Research Institute, Seoul National University College of Medicine, Seoul National University, Seoul, Republic of Korea;

⁴Institut Català d'Oncologia, IDIBELL, L'Hospitalet, Barcelona, Spain; ⁵Istituto Nazionale Tumori Napoli IRCCS "Fondazione Pascale", Napoli, Italy; ⁶Cancer Center of Sun Yet-sen University, Guangzhou, China; ⁷Ramón y Cajal University Hospital, Instituto Ramón y Cajal de Investigación Sanitaria (IRYCIS), Madrid, Spain; ⁸Catarina Pesquisa Clínica, Santa Catarina, Brazil; ⁹Princess Margaret Cancer Centre/UHN, Toronto, ON, Canada; ¹⁰Aichi Cancer Center, Nagoya, Japan; ¹¹National Taiwan University Hospital, National Taiwan University College of Medicine, Taipei, Taiwan; ¹²Sarah Cannon Research Institute, Nashville, TN, USA; ¹³Showa University Hospital, Tokyo, Japan; ¹⁴Winship Cancer Institute at Emory University, Atlanta, GA, USA; ¹⁵AstraZeneca, Cambridge, UK; ¹⁶AstraZeneca, Gaithersburg, MD, USA; ¹⁷AstraZeneca, Mississauga, ON, Canada; ¹⁸National Cancer Center / National Clinical Research Center for Cancer / Cancer Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing, China; ¹⁹Gustave Roussy Cancer Center, Villejuif, France; ²⁰University of California San Francisco Comprehensive Cancer Center, San Francisco, CA, USA

TROPION-Breast01 Study Design

Randomised, phase 3, open-label, global study (NCT05104866)

Key inclusion criteria:

- ◆ Patients with HR+/HER2– breast cancer* (HER2– defined as IHC 0/1+/2+; ISH negative)
- ◆ Previously treated with 1–2 lines of chemotherapy (inoperable/metastatic setting)
- ◆ Experienced progression on ET and for whom ET was unsuitable
- ◆ ECOG PS 0 or 1

1:1

Dato-DXd

6 mg/kg IV Day 1 Q3W
(n=365)

Investigator's choice of chemotherapy (ICC)

as per protocol directions†
(eribulin mesylate D1,8 Q3W; vinorelbine D1,8 Q3W;
gemcitabine D1,8 Q3W; capecitabine D1–14 Q3W)
(n=367)

Endpoints:

- **Dual primary:** PFS by BICR per RECIST v1.1, and OS
- **Key secondary:** ORR, PFS (investigator assessed) and **safety**

Randomisation stratified by:

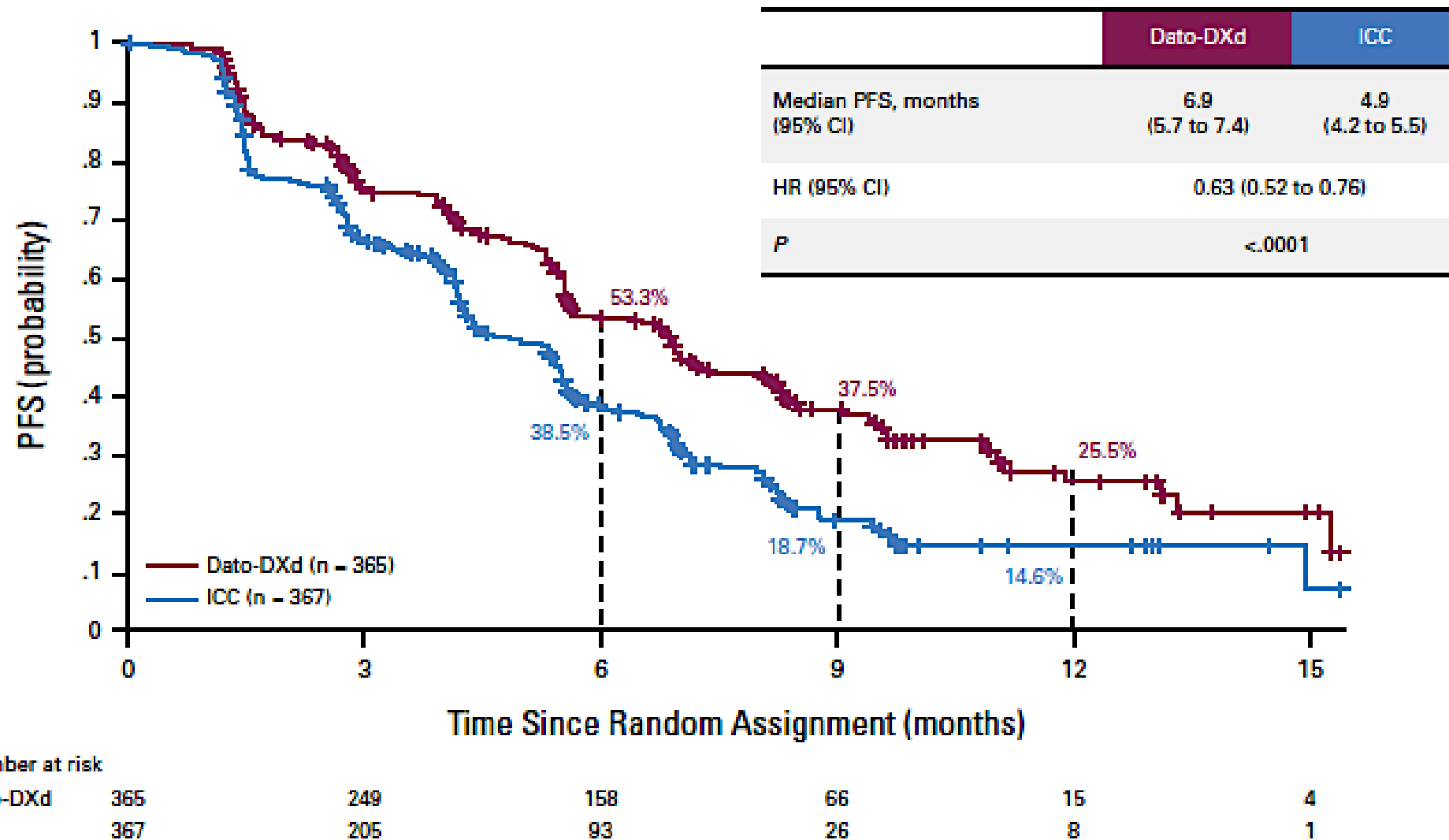
- ◆ **Lines of chemotherapy** in unresectable/metastatic setting (1 vs 2)
- ◆ **Geographic location** (USA/Canada/Europe vs other geographic regions)
- ◆ **Previous CDK4/6 inhibitor** (yes vs no)

◆ Treatment continued until PD, unacceptable tolerability, or other discontinuation criteria

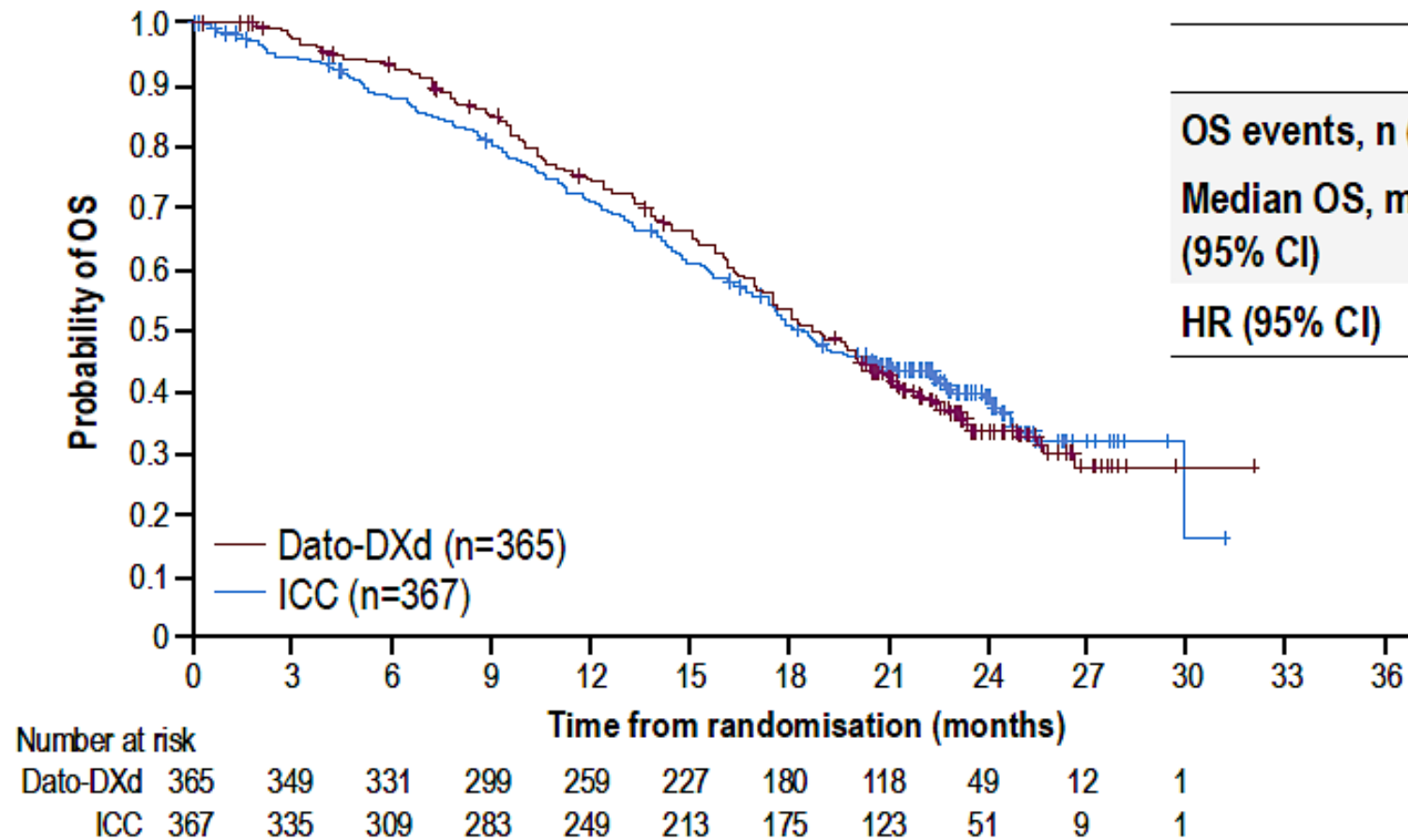
Detailed description of the statistical methods published previously.¹ *Per American Society of Clinical Oncology/College of American Pathologists (ASCO/CAP) guidelines. †ICC was administered as follows: eribulin mesylate, 1.4 mg/m² IV on Days 1 and 8, Q3W; vinorelbine, 25 mg/m² IV on Days 1 and 8, Q3W; gemcitabine, 1000 mg/m² IV on Days 1 and 8, Q3W; or capecitabine, 1000 or 1250 mg/m² orally twice daily on Days 1 to 14, Q3W (dose per standard institutional practice). CDK4/6, cyclin-dependent kinase 4/6; ECOG PS, Eastern Cooperative Oncology Group performance status; ET, endocrine therapy; IHC, immunohistochemistry; ISH, in situ hybridisation; IV, intravenous; ORR, objective response rate; OS, overall survival; PD, progressive disease; Q3W, once every 3 weeks; RECIST, Response Evaluation Criteria in Solid Tumors.

1. Bardia A, et al. *Future Oncol* 2024;20:423–36.

TROPION-Breast01: Progression-Free Survival



TROPION-Breast01: Overall Survival



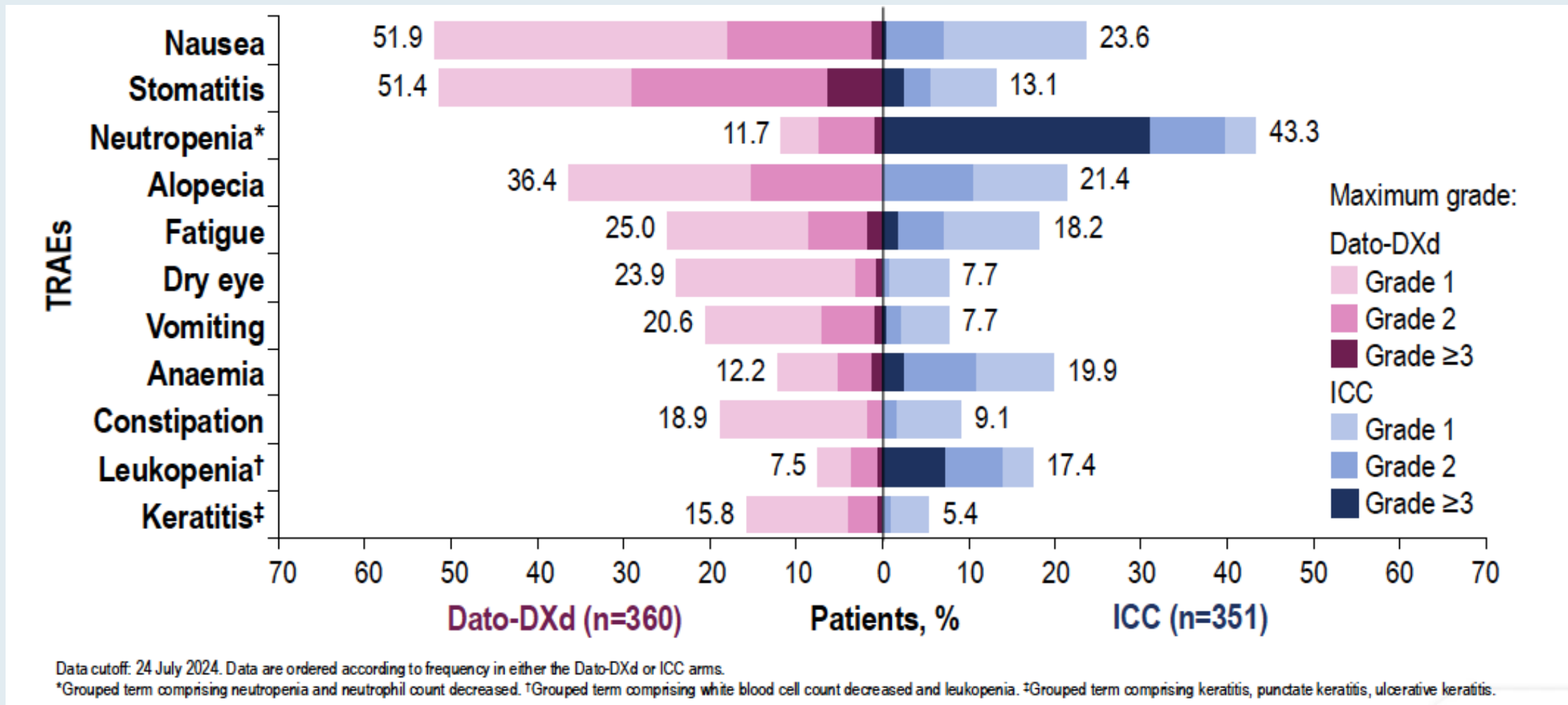
	Dato-DXd	ICC
OS events, n (%)	223 (61)	213 (58)
Median OS, months (95% CI)	18.6 (17.3–20.1)	18.3 (17.3–20.5)
HR (95% CI)	1.01 (0.83–1.22)	

- Maturity: 59.6%
- Median follow-up: 22.8 months
- Protocol prespecified OS sensitivity analysis based on the stratification factors according to the eCRF*: HR 0.99 (95% CI: 0.82–1.20)

Data cutoff: 24 July 2024. Pre-specified P-value boundary for OS analysis: $\alpha=0.0427$.

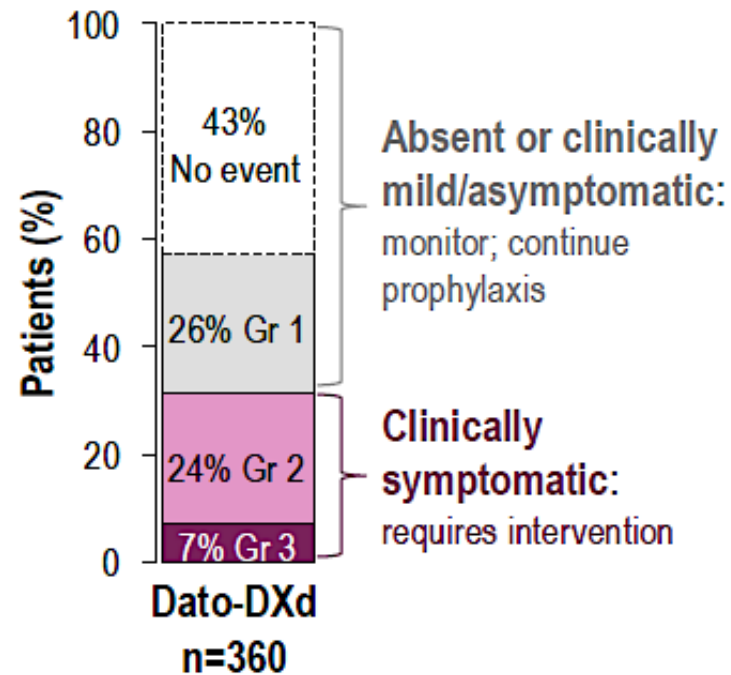
*Mis-stratification between interactive response technology (where data entered could not be changed by the site) and eCRF (where data could be corrected by sites) was $<5\%$.
eCRF, electronic case report form.

TROPION-Breast01: Treatment-Related Adverse Events Occurring in $\geq 15\%$ of Patients

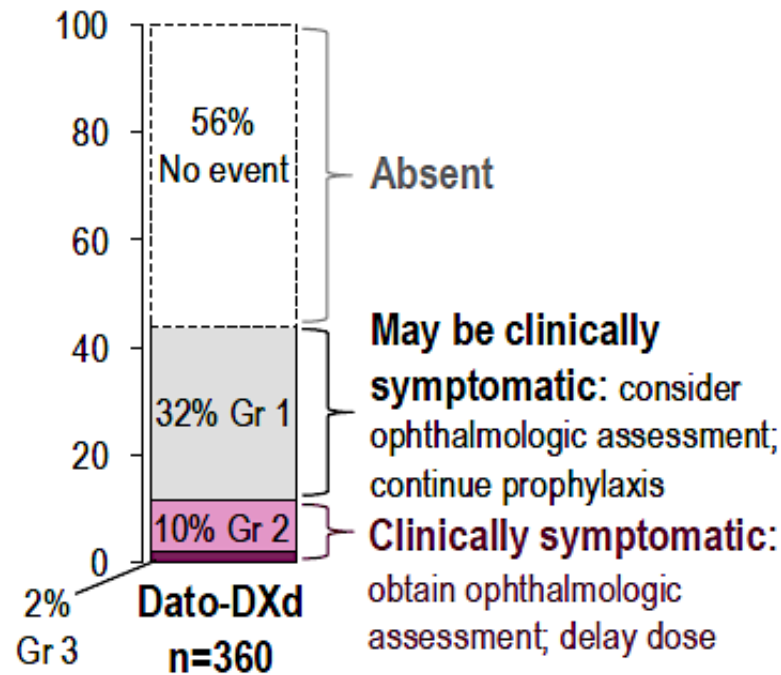


TROPION-Breast01: Treatment-Related Adverse Events of Special Interest

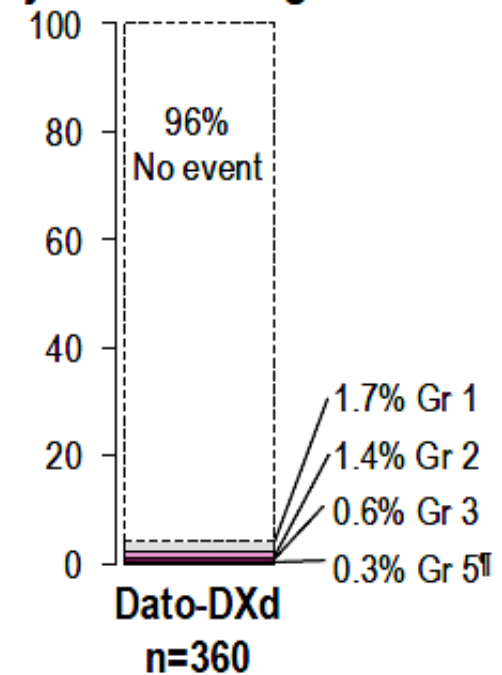
Oral mucositis/stomatitis*



Ocular surface events†



Adjudicated drug-related ILD‡



- Oral mucositis/stomatitis events were recovered/resolved or recovering/resolving in 178/206 patients (86%)
- Grade 3 ocular surface events were either recovered/resolved or recovering/resolving in 6/7 patients (86%)[§]

Data cutoff: 24 July 2024. Details of Toxicity Management Guidelines published previously.¹

*Comprising PTs of aphthous ulcer, dysphagia, glossitis, mouth ulceration, odynophagia, oral mucosal blistering, oral pain, oropharyngeal pain, pharyngeal inflammation, stomatitis. †Comprising selected PTs from Corneal Disorder standard MedDRA query and select relevant preferred terms from Eye Disorder system organ class. ‡Comprising the PTs of ILD and pneumonitis; an independent adjudication committee reviewed all potential cases to assess whether the event was ILD/pneumonitis and, if so, whether it was related to the study drug. §The gr 5 event was characterised by the investigator as gr 3 pneumonitis, with death attributed to disease progression. ¶The patient with the gr 3 ocular surface event that was not recovered died before resolution. AESIs, adverse events of special interest; ILD, interstitial lung disease; PT, preferred term.

1. Bardia A, et al. J Clin Oncol 2025;43:285–96.

Incidence of Ocular Toxicities with Datopotamab Deruxtecan (Dato-DXd)

Treatment-related ocular surface events*, n (%)	Dato-DXd (n=360)
All grades [†]	144 (40.0)
Grade 1	115 (31.9)
Grade 2	26 (7.2)
Grade 3	3 (0.8)
Leading to dose reduction and/or interruption	12 (3.3)
Leading to dose discontinuation	1 (0.3)

Toxicity management guidelines

Daily use of **artificial tears** and **avoidance of contact lenses** recommended

- Most events were grade 1, with low rates of grade 2/3, low rates of dose reduction/interruption (3.3%), and discontinuation (0.3%); over half of events were dry eye

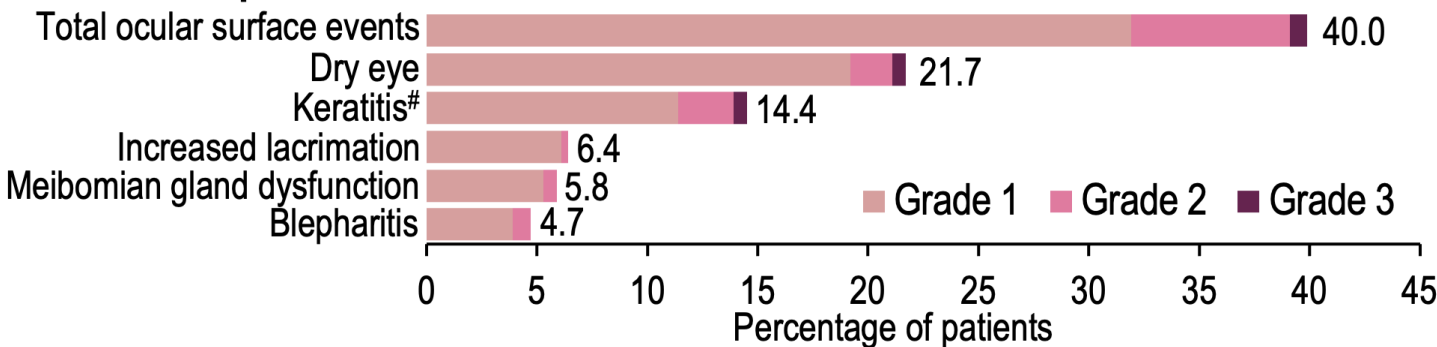


Median time to onset: **65 days**



Median time to resolution[‡]: **67 days**

Most common preferred terms[§]



Ophthalmologic assessments were mandated during study (per regulatory request) every three 21-day cycles

Frequent assessments likely contributed to high rate of low-grade events in both arms; incidence of ocular surface events with ICC (11.7%) was higher than historic benchmarks.¹

*Comprising the preferred terms of: blepharitis, conjunctivitis, corneal disorder, corneal erosion, corneal lesion, dry eye, foreign body sensation in eyes, keratitis, keratopathy, lacrimation increased, limbal stem cell deficiency, meibomian gland dysfunction, ocular toxicity, photophobia, punctate keratitis, superior limbic keratoconjunctivitis, ulcerative keratitis, vision blurred, visual impairment, and xerophthalmia.

[†]No grade 4/5 events. [‡]For events recovered/resolved at data cutoff. [§]Reported in ≥15 patients. [#]Grouped term comprising keratitis, punctate keratitis, and ulcerative keratitis.

1. Canino F, et al. *Clin Breast Cancer* 2022;22:289–99.

FDA Approves Datopotamab Deruxtecan-dlnk for Unresectable or Metastatic, HR-positive, HER2-negative Breast Cancer

Press Release: January 17, 2025

The Food and Drug Administration approved datopotamab deruxtecan-dlnk, a Trop-2-directed antibody and topoisomerase inhibitor conjugate, for adult patients with unresectable or metastatic, hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative (IHC 0, IHC1+ or IHC2+/ISH-) breast cancer who have received prior endocrine-based therapy and chemotherapy for unresectable or metastatic disease.

Efficacy was evaluated in TROPION-Breast01 (NCT05104866), a multicenter, open-label, randomized trial. Patients must have experienced disease progression, been deemed unsuitable for further endocrine therapy, and have received one or two lines of prior chemotherapy for unresectable or metastatic disease.

Median PFS was 6.9 months (95% CI: 5.7, 7.4) in the datopotamab deruxtecan-dlnk arm and 4.9 months (95% CI: 4.2, 5.5) in the chemotherapy arm (Hazard ratio 0.63 [95% CI: 0.52, 0.76] two-sided p-value <0.0001). Median OS was 18.6 months (95% CI: 17.3, 20.1) in the datopotamab deruxtecan-dlnk arm and 18.3 months (95% CI: 17.3, 20.5) in the chemotherapy arm (Hazard ratio 1.01 [95% CI: 0.83, 1.22]; two-sided p-value was not statistically significant).

Dato-DXd Ocular Toxicities – Keratitis – Prophylaxis

Prophylaxis

Advise patients to:

- Use preservative-free lubricant eye drops/ artificial tears several times daily (4 times daily for prevention and up to 8 times daily if clinically needed)
- **Avoid use of contact lenses unless directed by an eye care professional**

EMA = Patients should be promptly referred for appropriate ophthalmologic assessments for any new or worsening ocular signs and symptoms that could suggest keratitis.

FDA = Conduct an ophthalmic exam including visual acuity testing, slit lamp examination (with fluorescein staining), intraocular pressure, and fundoscopy at initiation of DATO, annually while on treatment, at end of treatment, and as clinically indicated.

Dato-DXd Ocular Toxicities – Keratitis – Management

	Eye disorders			
Grade 1	Grade 2	Grade 3	Grade 4	
Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Symptomatic; moderate decrease in visual acuity (best corrected visual acuity 20/40 and better or 3 lines or less decreased vision from known baseline)	Symptomatic with marked decrease in visual acuity (best corrected visual acuity worse than 20/40 or more than 3 lines of decreased vision from known baseline, up to 20/200); corneal ulcer; limiting self care ADL	Perforation; best corrected visual acuity of 20/200 or worse in the affected eye	
Grade 1 - Consider obtaining ophthalmologic assessment - No change in Dato-DXd dose	Grade 2 - Obtain an ophthalmologic assessment - Delay dose until event has been resolved to Grade ≤1, then maintain dose	Grade 3 - Obtain an ophthalmologic assessment - Delay dose until event has been resolved to Grade ≤1, then reduce dose by 1 level	Grade 4 - Obtain an ophthalmologic assessment - Permanently discontinue	

Dose Reductions:
 First 4 mg/kg (up to a maximum of 360 mg for patients ≥90 kg)
 Second 3 mg/kg (up to a maximum of 270 mg for patients ≥90 kg)
 Third Permanently discontinue

Clinical management, monitoring, and prophylaxis of adverse events of special interest associated with datopotamab deruxtecan

Rebecca S. Heist^{a,*}, Jacob Sands^b, Aditya Bardia^c, Toshio Shimizu^d, Aaron Lisberg^c, Ian Krop^e, Noboru Yamamoto^f, Takahiro Kogawa^g, Saba Al-Hashimi^h, Simon S.M. Fung^h, Anat Galor^{i,j}, Francesca Pissetzky^k, Priyanka Basak^l, Cindy Lau^l, Funda Meric-Bernstam^m

Cancer Treat Rev 2024;125:102720.

Clinical Management of Ocular Surface Events with Dato-DXd

STEP 1: Prophylaxis

Advise patients to:

- Use artificial tears^a (four times daily for prevention and up to eight times daily if clinically needed)
- Avoid use of contact lenses

STEP 2: Confirm

Ophthalmologic assessment^b to ensure an accurate diagnosis, event grading, appropriate treatment, and event resolution should be considered

Corneal Toxicity Severity Grading Scale

- Normal = Clear cornea, no epithelial defects
- **Grade 1:** Nonconfluent superficial keratitis
- **Grade 2:** Confluent superficial keratitis, a cornea defect, or 3-line or more loss in best corrected distance visual acuity
- **Grade 3:** Corneal ulcer or stromal opacity, or best corrected distance visual acuity $\leq 20/200$
- **Grade 4:** Corneal perforation

STEP 3: Manage

Ensure patient is adhering to prophylactic guidelines, regardless of grade

Grade 1

- Consider obtaining ophthalmologic assessment
- No change in Dato-DXd dose

Grade 2

- Obtain an ophthalmologic assessment
- Delay dose until event has been resolved to grade ≤ 1 , then maintain dose

Grade 3

- Obtain an ophthalmologic assessment
- Delay dose until event has been resolved to grade ≤ 1 , then reduce dose by 1 level

Grade 4

- Obtain ophthalmologic assessment
- Discontinue Dato-DXd

STEP 3: Manage

Ensure patient is adhering to prophylactic guidelines, regardless of grade

Grade 1

- Consider obtaining ophthalmologic assessment
- No change in Dato-DXd dose

Grade 2

- Obtain an ophthalmologic assessment
- Delay dose until event has been resolved to grade ≤ 1 , then maintain dose

Grade 3

- Obtain an ophthalmologic assessment
- Delay dose until event has been resolved to grade ≤ 1 , then reduce dose by 1 level

Grade 4

- Obtain ophthalmologic assessment
- Discontinue Dato-DXd

Ocular Assessment Form for Dato-DXd

OCULAR ASSESSMENT FORM

This resource should be used to support ocular exams for patients on datopotamab deruxtecan-dink and inform decisions on treatment management.

TO BE COMPLETED BY THE PRESCRIBING ONCOLOGIST

ONCOLOGIST

NAME

FACILITY

PHONE

EMAIL

PATIENT

NAME

DATE OF BIRTH

PATIENT ID

Ocular Assessment Form for Dato-DXd

INFORMATION FOR EYE CARE PROVIDERS



Your patient is being referred by their oncologist for an ophthalmic exam, as they have been prescribed treatment with Dato-DXd, a Trop-2-directed antibody and topoisomerase inhibitor conjugate.¹ Dato-DXd can cause ocular adverse reactions, including dry eye, keratitis, blepharitis, meibomian gland dysfunction, increased lacrimation, conjunctivitis, and blurred vision.¹

OCULAR EXAM DETAILS



When should patients undergo this exam?

Patients are instructed to receive an ocular assessment upon initiation of Dato-DXd, annually while on treatment, at end of treatment, and as clinically indicated! The initial eye exam serves as a reference point to monitor for any signs or symptoms of ocular conditions while on Dato-DXd.



What should the exam include?

Patients are instructed to undergo an ophthalmic exam that can be performed by either an optometrist or ophthalmologist. The exam should include the following¹:

- | | |
|--|---|
| ☐ visual acuity testing | ☐ intraocular pressure |
| ☐ slit lamp examination (with fluorescein staining) | ☐ fundoscopy |

Ocular assessment may be covered by medical or vision insurance. Patients may also be eligible for coverage up to \$250 for an eye exam related to the use of Dato-DXd through the DATROWAY4U patient savings program.*



What should I be looking for when performing the exams?

- There are **no contraindications** to prescribing Dato-DXd. Patients with clinically significant corneal disease were excluded from clinical studies. **Notify the prescribing oncologist** if you believe your patient falls under this category
- If any new or worsening ocular signs and symptoms could suggest an eye condition, notify the prescribing oncologist (refer to chart on page 2)

Ocular Assessment Form for Dato-DXd



RECOMMENDED PROPHYLAXIS¹

- Advise patients to **use preservative-free lubricant eye drops at least 4 times daily and as needed**
- Advise patients to **avoid using contact lenses during treatment** unless directed by an eye care professional

DOSAGE MODIFICATIONS OF Dato-DXd FOR SELECT ADVERSE EVENTS: KERATITIS¹

Please see the table below for recommended management strategies for a common ocular adverse reaction on Dato-DXd, and see the Important Safety Information and accompanying full Prescribing Information for more Information.

Severity of Keratitis	Eye Care Provider Action	Oncologist Action for Dosage Modifications
Nonconfluent superficial keratitis	Notify prescribing oncologist ^{††}	Monitor and continue at current dose
Confluent superficial keratitis, a corneal epithelial defect, or 3-line or more loss in best corrected visual acuity		Withhold until improved or resolved, then maintain at same dose level or consider dose reduction
Corneal ulcer or stromal opacity or best corrected distance visual acuity 20/200 or worse		Withhold until improved or resolved, then reduce by one dose level
Corneal perforation		Permanently discontinue

Cancer Q&A: Addressing Common Questions Posed by Patients with Relapsed/Refractory Multiple Myeloma

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Patients

Wednesday, July 23, 2025

6:00 PM – 7:00 PM ET

Clinicians

Thursday, August 7, 2025

5:00 PM – 6:00 PM ET

Faculty

Natalie S Callander, MD

Sagar Lonial, MD, FACP

Moderator

Neil Love, MD

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The survey will remain open for 5 minutes after the meeting ends.

Information on how to obtain CME and ABIM MOC credit is provided in the Zoom chat room.

Attendees will also receive an email in 1 to 3 business days with these instructions.