

TERA

Dry Eye Imager[®]

REPORT GUIDE



TERA Report Elements

TERA report selection options:

- 1. **Topography**
Corneal Topography Report
- 2. **Comparison (OD or OS Only)**
Multiple Visit Comparison Report
- 3. **Zernike**
Corneal Aberrometry Report
- 4. **Pupil**
Pupillometry Report
- 5. **NIBUT**
Noninvasive Tear Breakup Time Report
- 6. **TMH**
Tear Meniscus Height Report
- 7. **Redness**
Conjunctival Redness Report
- 8. **Blepharitis**
Blepharitis Report
- 9. **Lipid Layer**
Lipid Layer Flow Report
- 10. **Meibomian**
Meibomian Gland Imaging Report
- 11. **Fluorescein**
Fluorescein Staining Report
- 12. **Lissamine**
Lissamine Green Staining Report
- 13. **Dry Eye Report**
Single Visit Dry Eye Summary Report
- 14. **Dry Eye Follow-Up Report**
Dry Eye Progression



Report Elements at a Glance

Basic report features:

- 1

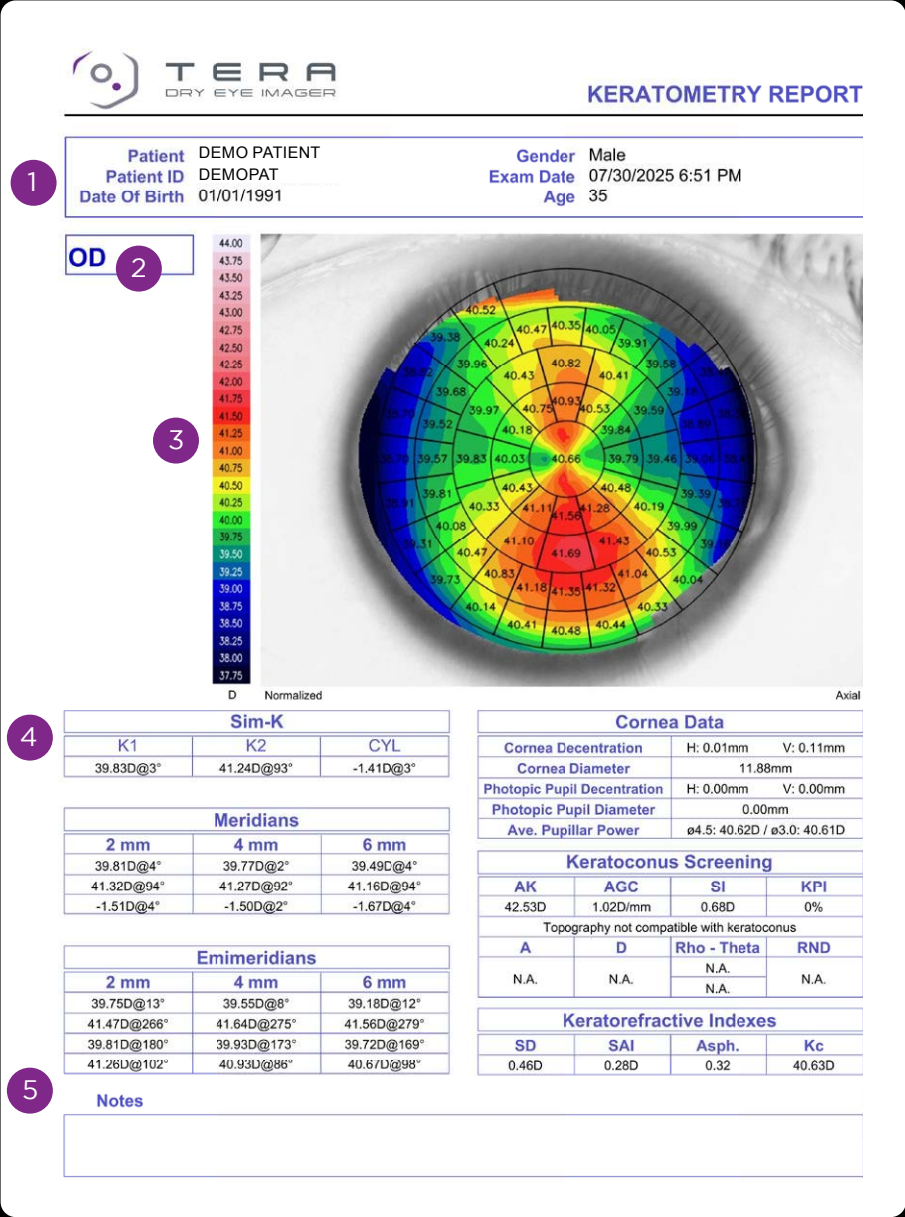
Patient information
- 2

Laterality (OD/OS)
- 3

Map scale color reference
- 4

Capture data
- 5

Notes/comments
(Space for handwritten notes after printing)

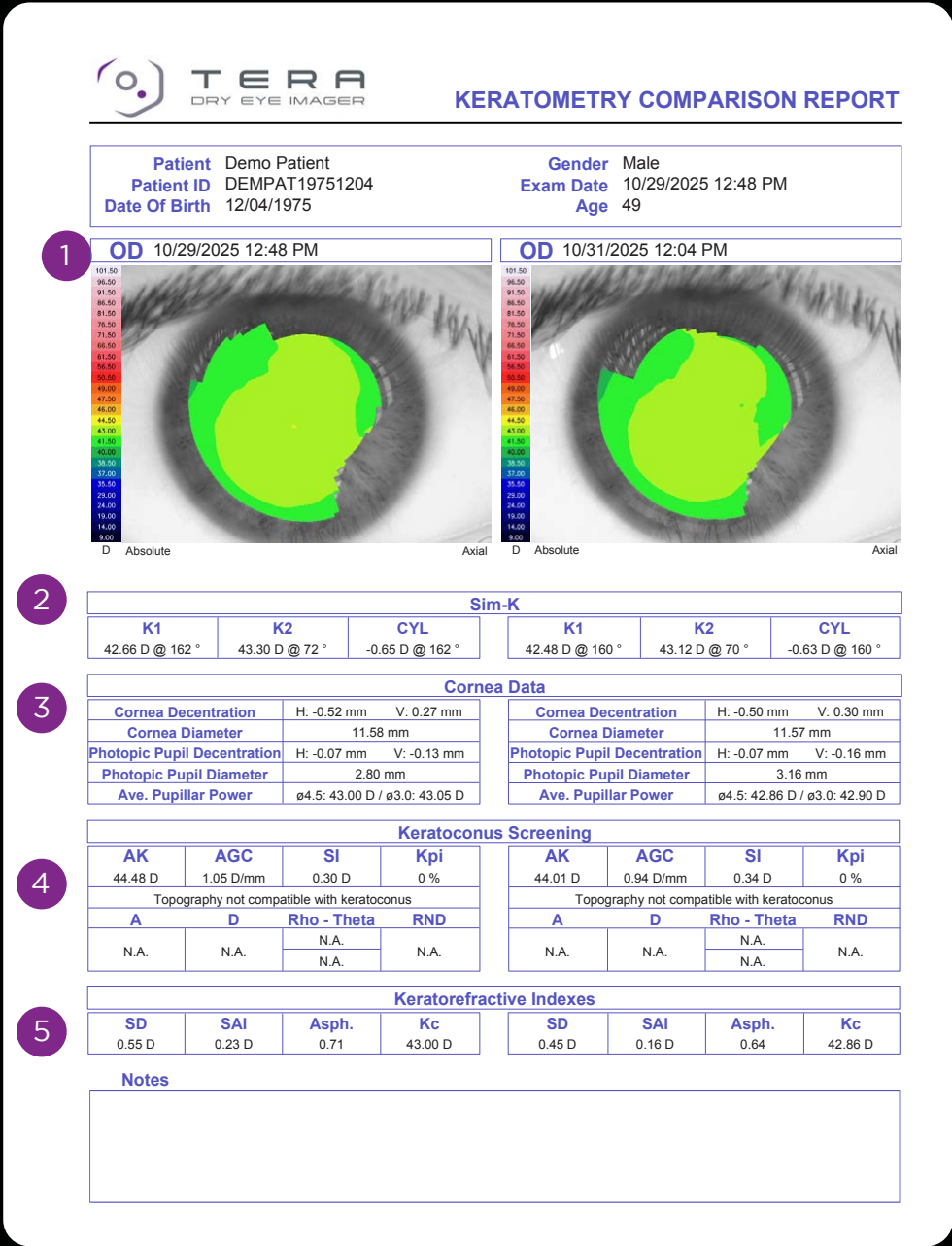


Topography Comparison Report

Compare two images taken of the same eye, visit to visit

- 1 Laterality and dates of each capture
- 2 Comparison of Sim-K and corneal astigmatism values
- 3 Cornea Data comparison
 - Cornea Decentration: decentration of the center of the cornea relative to the pupillary axis
 - Diameter: white-to-white (WTW) measurement to assess the horizontal visible iris diameter
 - Photopic Pupil Decentration: decentration of the pupillary axis relative to the center of the cornea under photopic (bright light) conditions
 - Photopic Pupil Diameter: size of pupil in photopic setting
 - Ave. Pupillary Power: average refractive power of the cornea calculated within a 3 mm and 4.5 mm corneal area/ring
- 4 Comparison of keratoconus screening indices (i.e., AK, AGC, SI, and Kpi)
- 5 Comparison of keratorefractive indices

Topography Comparison Report

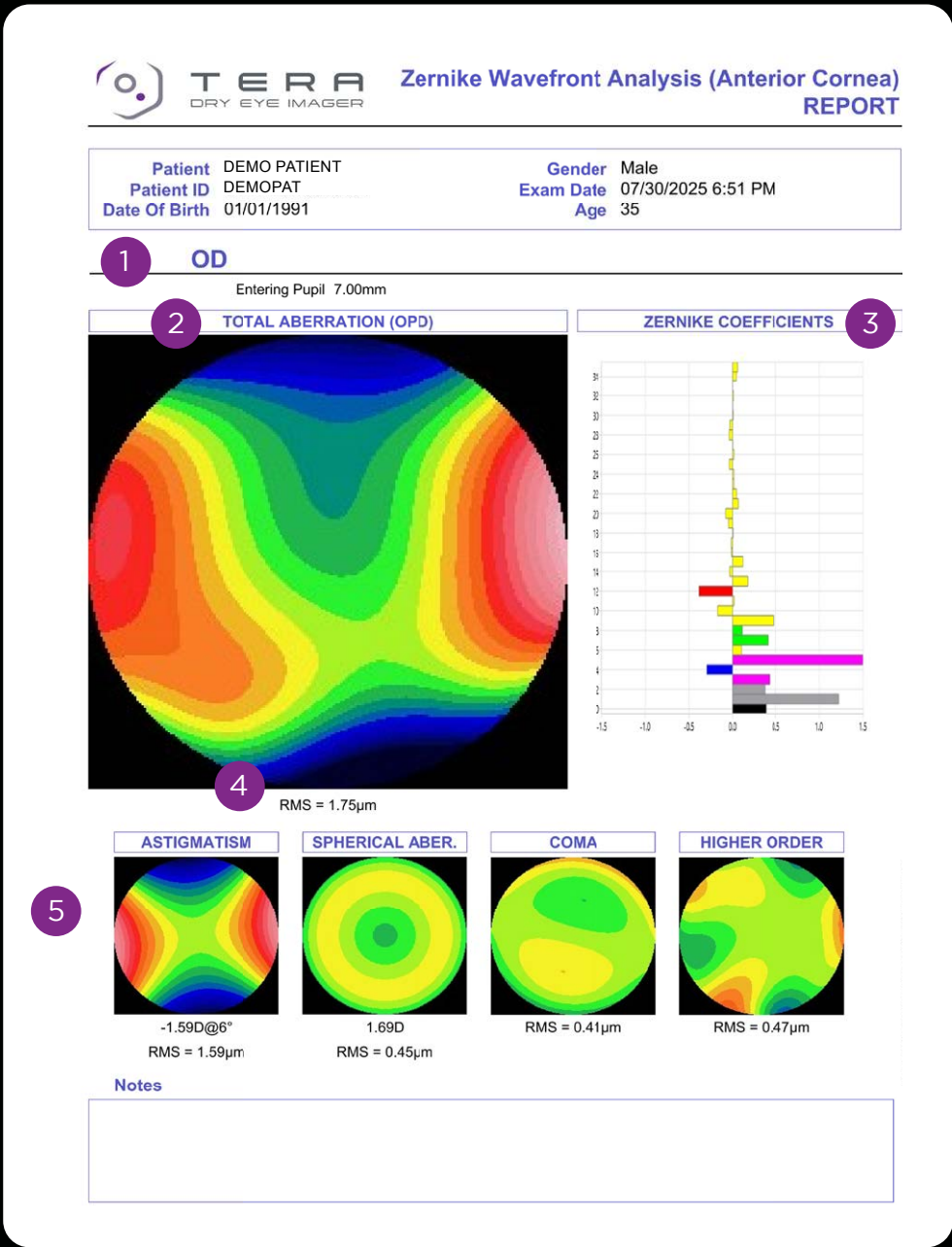


Zernike (Anterior Corneal Aberrometry)

Quantify anterior corneal aberrations, or optical imperfections, to assess visual quality

- 1 **Entering Pupil Size:**
The preset pupil diameter used for calculating corneal aberrations. This value can be changed in the “Measurement” tab to assess how pupil size affects corneal aberrations.
- 2 **Total Aberration (OPD):**
The corneal wavefront aberration profile map. It represents the total, or sum, of all aberration components shown on the right.
- 3 **Zernike Coefficients Graph:**
A color-coded histogram that provides a graphical representation of the “weight” of each corresponding Zernike coefficient/polynomial associated with wavefront aberrations in the eye
- 4 **Root Mean Square (RMS) Value:**
A value used to summarize the overall magnitude of optical aberrations in the cornea (a higher value indicates more aberrations)
- 5 **Aberration Maps and RMS Values:**
Shows the anterior corneal wavefront aberration components over a selected pupil size, as well as the RMS value for each component
 - Astigmatism:** the magnitude in diopters and axis are displayed
 - Spherical aberration:** quantity of longitudinal spherical aberration in diopters
 - Coma:** map and direction shown
 - High Order:** all the components of an order higher than the primary aberrations above are grouped

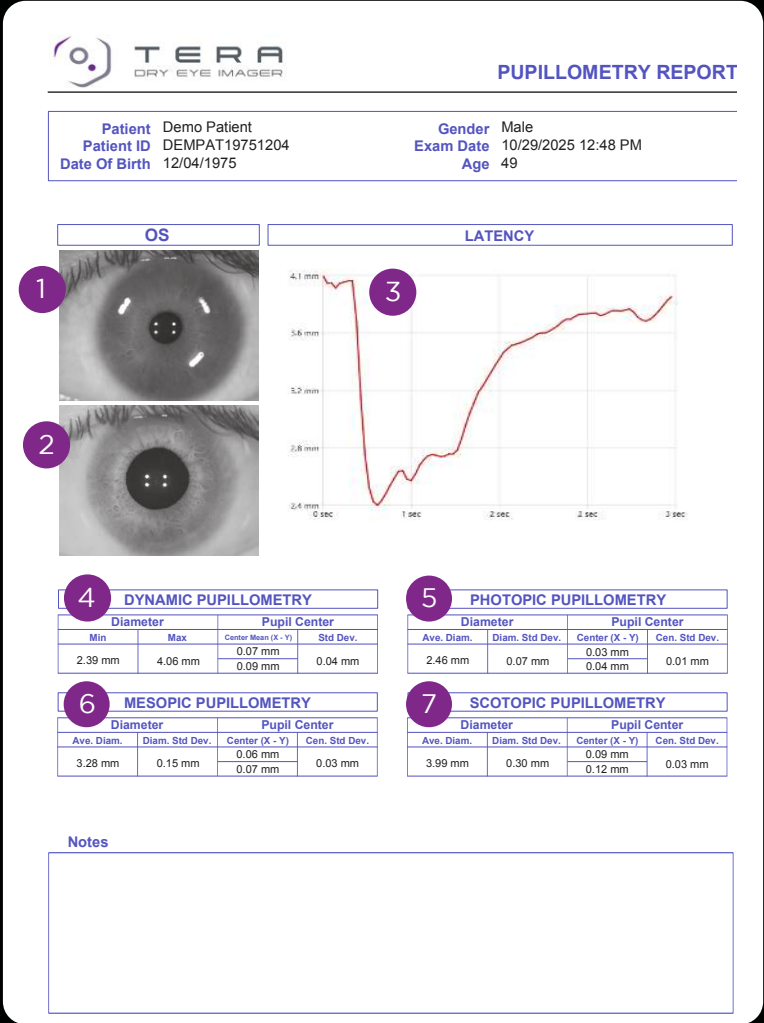
Zernike (Anterior Corneal Aberrometry)



Pupillometry Report

Analyze the characteristics of dynamic and static pupillometry

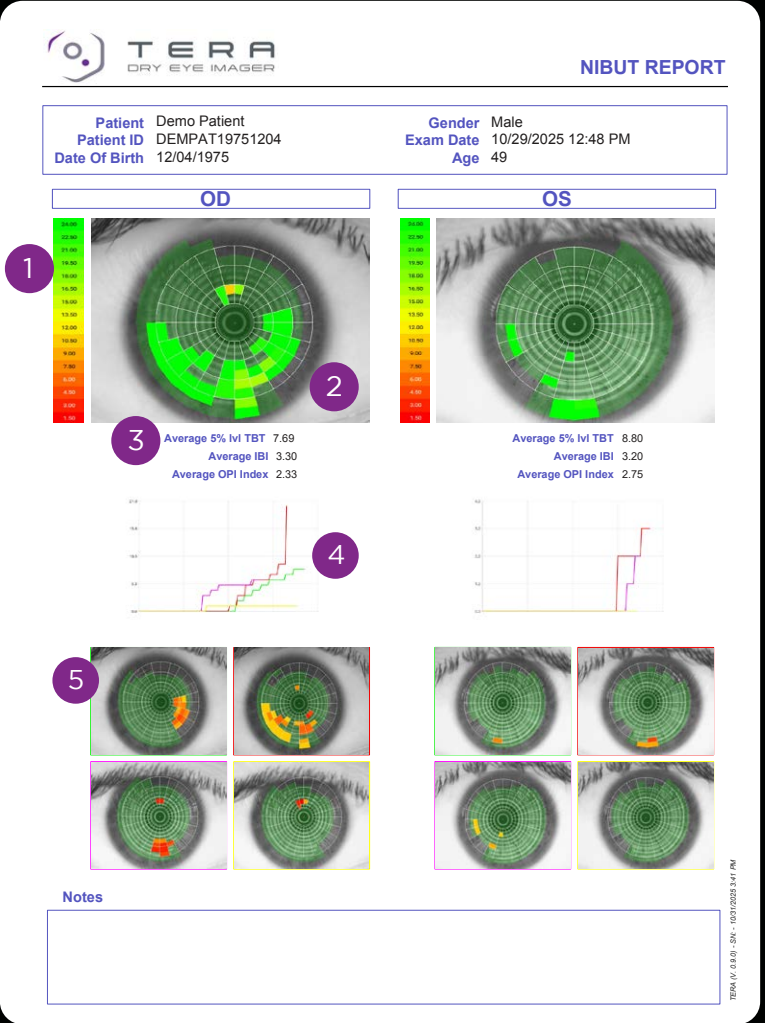
- 1 **Minimum Measured Pupil Size:**
pupil diameter recorded under photopic (bright-light) conditions
- 2 **Maximum Measured Pupil Size:**
pupil diameter recorded under scotopic (dark) conditions
- 3 **Pupil Latency Graph:**
a graph that tracks changes in pupil diameter over time as lighting transitions from scotopic to photopic, then back to scotopic
- 4 **Dynamic Pupillometry:**
analysis of pupil diameter and decentration relative to the optical axis under variable light conditions
- 5 **Photopic Pupillometry:**
assessment of pupil characteristics under static, bright-light conditions
- 6 **Mesopic Pupillometry:**
assessment of pupil characteristics under static, dim-light conditions
- 7 **Scotopic Pupillometry:**
assessment of pupil characteristics under static, dark conditions



NIBUT (Noninvasive Tear Break-up) Report

Evaluate tear film stability by analyzing the timing and distribution of tear film break-up across multiple acquisitions

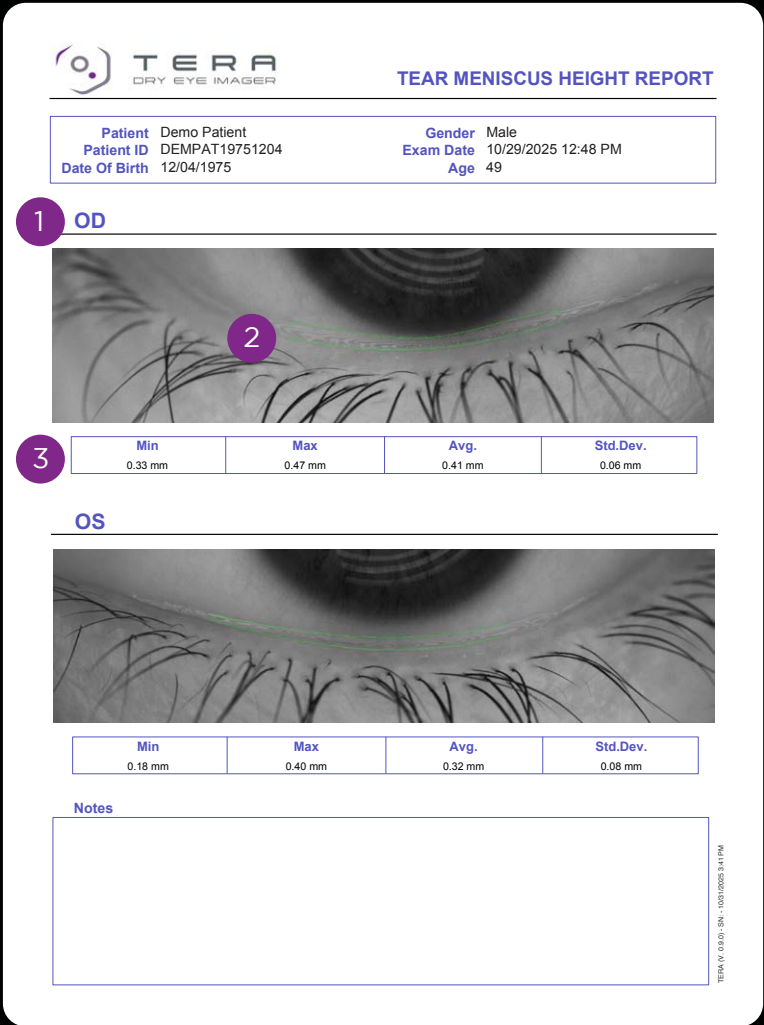
- 1 **Time Scale (in seconds):**
displays measurement timeline
- 2 **Colored NIBUT Maps:**
color-coded map indicating the areas where the first tear film break-up (TBT) occurs
- 3 **NIBUT Indices:**
 - **Average 5% Ivl TBT:** average tear film break-up time calculated across all valid acquisitions at the 5% tear break-up threshold level
 - **Average IBI (Inter-Blink Interval):** available only if a BLINK acquisition was performed; represents the average duration between blinks
 - **Average OPI (Ocular Protection Index):** available only when IBI is available; calculated as Average 5% TBT divided by IBI
- 4 **TBT Overlay Map:** plot showing time on the x-axis against the percentage of broken sectors at each moment; includes all acquisitions when multiple are recorded (the color of the plotted curve in the graph matches that of the frame of the corresponding TBT acquisition map below)
- 5 **TBT Analysis Maps:** displays areas of first break-up across multiple TBT acquisitions, shown as a color-coded grid of instability zones. The color of the frame of each TBT Analysis Map matches that of the corresponding plotted curve in the TBT Overlay Map above.



Tear Meniscus Height (TMH) Report

Evaluate tear volume by measuring the height and uniformity of the lower tear meniscus

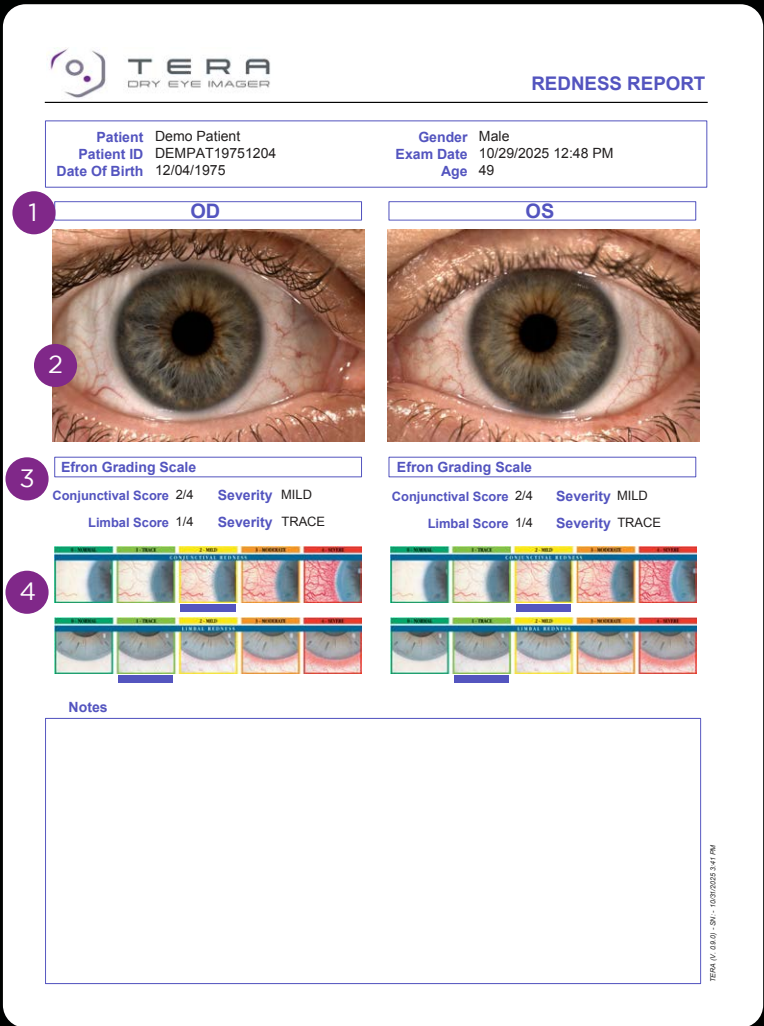
- 1 **Laterality:** OD or OS
- 2 **TMH Height Profile:**
image showing the inferior tear meniscus with the analyzed tear profile outlined in green; note that five calipers must be set and “Show Profile” must be enabled to generate the profile
- 3 **TMH Characteristics:**
 - Min:** the lowest measured tear meniscus height within the profile
 - Max:** the highest measured tear meniscus height within the profile
 - Average:** the mean tear meniscus height calculated across all measured points
 - Standard Deviation:** analysis of the amount of variation in the tear meniscus height



Redness Report

Evaluate ocular surface redness with the use of validated grading scales

- 1 **Laterality:** OD or OS
- 2 **Captured Conjunctival Redness Photo:**
acquired images used for assessment of conjunctival and limbal redness
- 3 **Redness Analysis:**
clinician-assigned grading of conjunctival and/or limbal redness based on evaluation of the photo compared to the Efron¹ or Jenvis² clinical reference scale
- 4 **Clinically Validated Grading Scales:**
validated reference scales for evaluating conjunctival and limbal redness (the severity level selected by the user is indicated by a line below the image). Users can select the grading scale type (Efron or Jenvis) in device Settings.



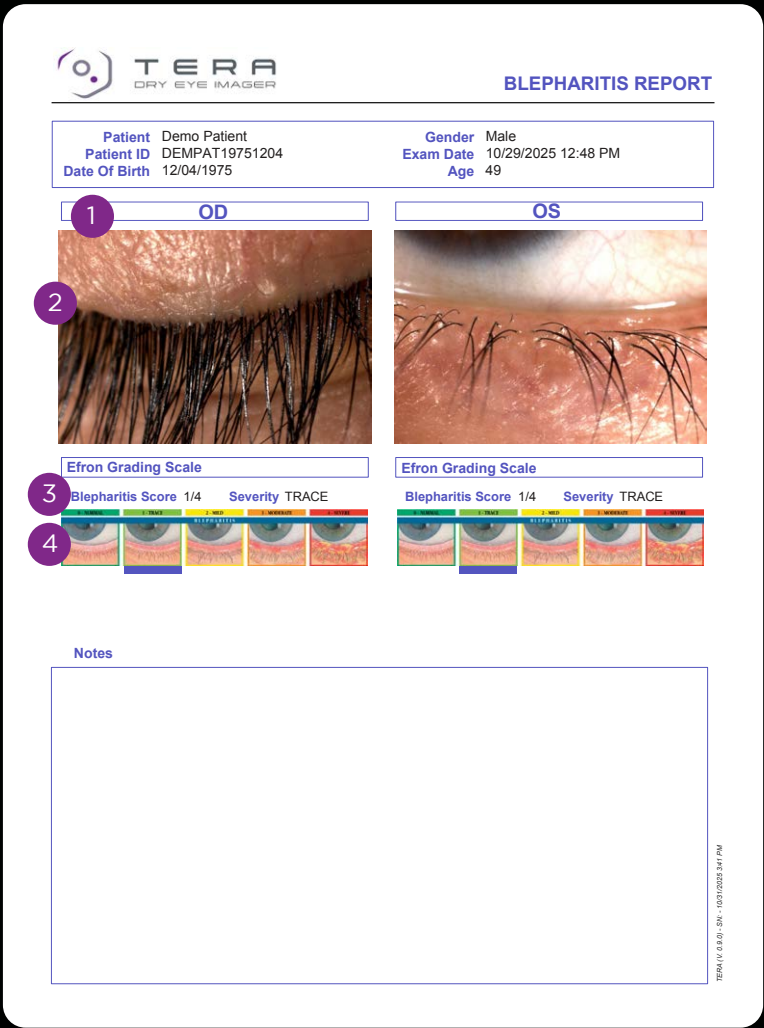
1. Efron, N., Morgan, P. B., & Katsara, S. S. (2001). Validation of grading scales for contact lens complications. Ophthalmic and Physiological Optics, 21(1), 17-29.

2. Jenvis, D. R., et al. (2007). The development and validation of the Jenvis Dry Eye Questionnaire. Optician, 233(6091), 16-21.

Blepharitis Report

Evaluate blepharitis with the use of a validated grading scale

- 1 **Laterality:** OD or OS
- 2 **Captured Blepharitis Photo:**
acquired images used for assessment of blepharitis
- 3 **Blepharitis Analysis:**
clinician-assigned grading of blepharitis based on evaluation of the captured image compared to the Efron clinical reference scale
- 4 **Clinically Validated Grading Scale:**¹
validated reference scale for evaluating blepharitis (the severity level selected by the user is indicated by a line below the image)

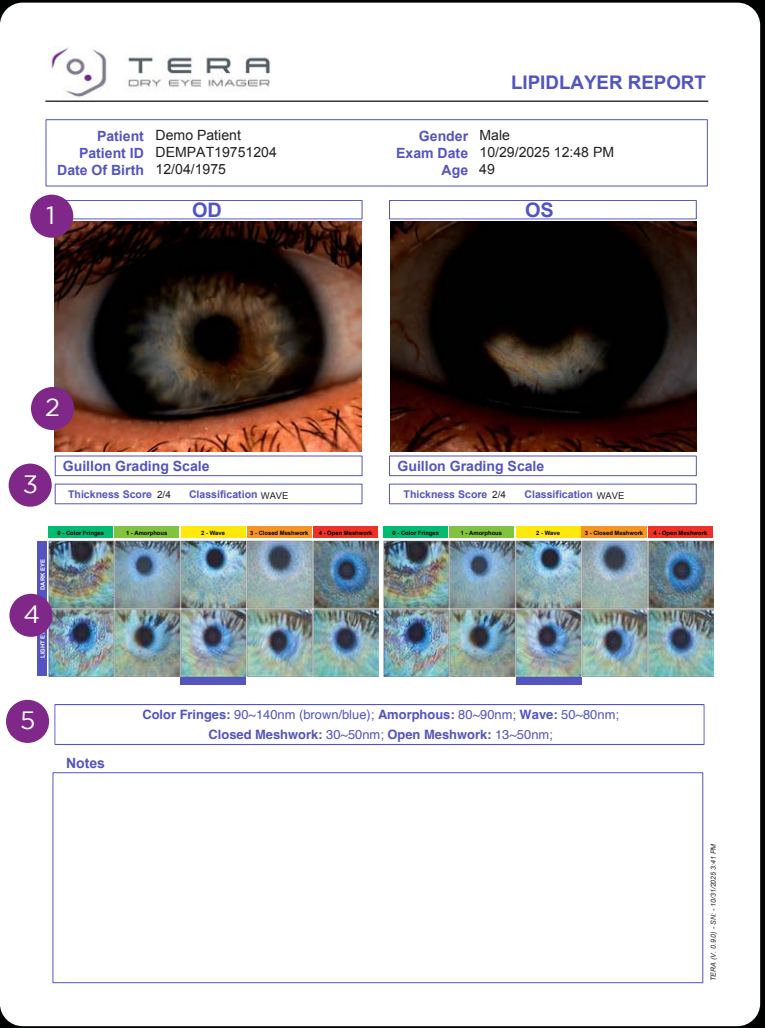


1. Efron, N., Morgan, P. B., & Katsara, S. S. (2001). Validation of grading scales for contact lens complications. Ophthalmic and Physiological Optics, 21(1), 17–29.

Lipid Layer Report

Evaluate lipid layer flow to assess tear film quality

- 1 **Laterality:** OD or OS
- 2 **Captured Lipid Layer Photo:**
acquired images used for qualitative assessment of lipid layer flow
- 3 **Lipid Layer Thickness Grading:**
clinician-assigned grading of lipid layer thickness based on evaluation of the captured image compared to the Guillon³ clinical reference scale
- 4 **Guillon Lipid Layer Grading Scale:**
validated reference scale for evaluating lipid layer flow (the severity level selected by the user is indicated by a short purple line below the image)
- 5 **Lipid Layer Thickness Reference Values:**
thickness values corresponding to each lipid layer flow grade, as reported in the referenced publication³

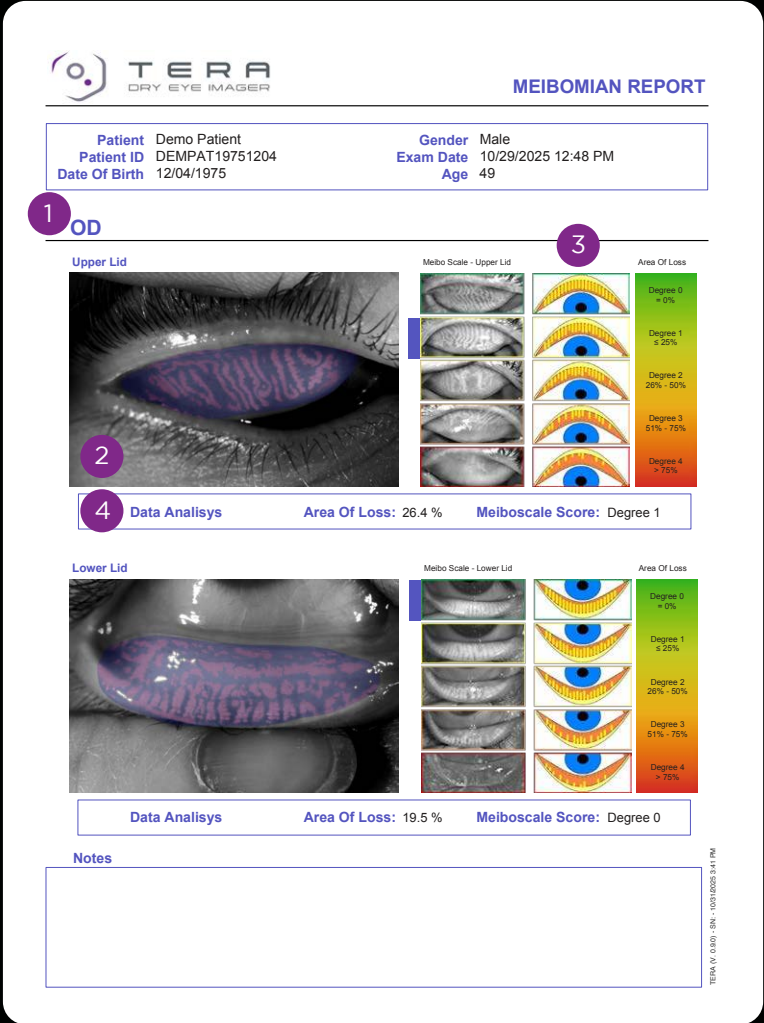


3. Guillon, M. (1998). Use of the Tearscope Plus in the routine contact lens fitting practice. Contact Lens and Anterior Eye, 21(Suppl 1), S31–S40.

Meibomian Gland Report

Evaluate meibomian gland structure by analyzing gland dropout and area of loss

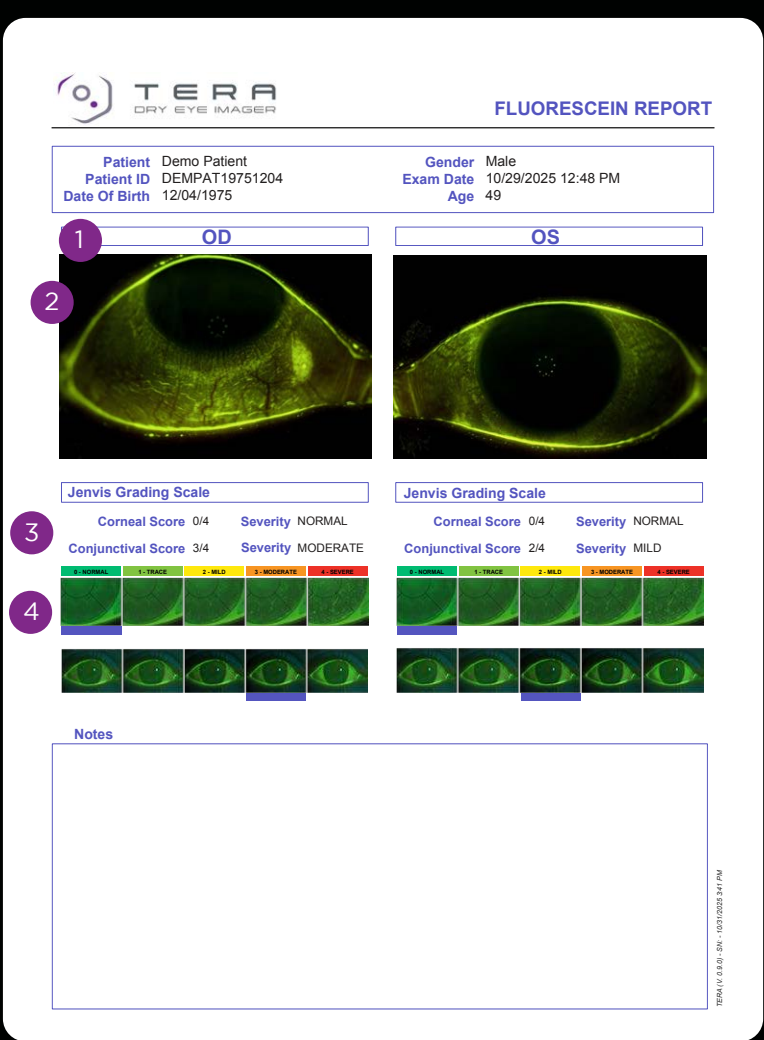
- 1 **Laterality and Lid Selection (Upper/Lower):**
indicates which eye and eyelid were evaluated
- 2 **Captured Meibomian Gland Photo:**
acquired images used for assessment of meibomian gland dropout (purple region is manually selected by the clinician for analysis)
- 3 **Meiboscale:⁴**
validated clinical reference scale for evaluating meibomian gland area of loss (the severity level selected by the user is indicated by a purple vertical line shown to the left of the Meiboscale)
- 4 **Data Analysis:**
 - Area of Loss: proportion of the eyelid region showing missing or atrophied meibomian glands relative to the total analyzed area
 - Meiboscale Score: clinician-assigned grade of meibomian gland dropout based on comparison of the image to the Meiboscale reference



Fluorescein Report

Evaluate conjunctival and corneal staining by comparing captured fluorescein images to validated grading criteria

- 1 **Laterality:** OD or OS
- 2 **Captured Fluorescein Staining Photo:**
acquired images used for assessment of fluorescein staining
- 3 **Fluorescein Analysis:**
clinician-assigned grading of staining based on evaluation of the captured image compared to the Jenvis² clinical reference scale
- 4 **Clinically Validated Jenvis Grading Scale:**
validated reference scale for evaluating conjunctival and corneal staining (the severity level selected by the user is indicated by a purple horizontal line shown below the reference scale)



4. Pult, H., & Riede-Pult, B. H. (2012). Non-contact meibography: Keep it simple but effective. Contact Lens and Anterior Eye, 35(2), 77-80.

2. Jenvis, D. R., et al. (2007). The development and validation of the Jenvis Dry Eye Questionnaire. Optician, 233(6091), 16-21.

Dry Eye Summary Report

The Dry Eye Summary Report offers a consolidated view of all acquired dry eye tests

- 1 Redness Results: conjunctival and limbal scores
- 2 Lipid Layer Results: lipid layer flow pattern scores
- 3 Blepharitis Results: lid margin inflammation scores
- 4 Ocular Staining Results: corneal and conjunctival staining scores. By default, results and images related to Fluorescein staining are always reported; if only Lissamine Green is acquired, then those images will be shown in the report (without grading scores)

TERA

DRY EYE IMAGER

DRY EYE REPORT

Patient Demo Patient

Patient ID DEMPAT19751204

Gender Male

Exam Date 10/29/2025 12:48 PM

Date Of Birth 12/04/1975

Age 49

OD

OS

1

REDNESS

Efron Score	
2/4 MILD	2/4 MILD
1/4 TRACE	1/4 TRACE

2

LIPID LAYER

Guillon Score	
2/4 WAVE	2/4 WAVE

3

BLEPHARITIS

Efron Score	
1/4 TRACE	1/4 TRACE

4

OCULAR STAINING

Jenvis Score	
0/4 NORMAL	0/4 NORMAL
3/4 MODERATE	2/4 MILD

Notes

TERA

DRY EYE IMAGER

DRY EYE FOLLOW UP REPORT

Patient Demo Patient

Patient ID DEMPAT19751204

Gender Male

Exam Date 10/31/2025 12:04 PM

Date Of Birth 12/04/1975

Age 49

Exam 1: 10/29/2025 12:48 PM

Exam 2: 10/31/2025 12:04 PM

1

OD

OS

2

TEAR FILM

	Exam 2	Exam 1	Diff. (Exam 2-1)	Exam 2	Exam 1	Diff. (Exam 2-1)
PROT TEST (sec)	+14.64	7.89	N/A	10.62	+10.32	N/A
QPI (PROT TEST (sec))	N/A	-4.87	N/A	3.79	N/A	N/A
IBI (sec)	2.81	3.36	-0.49	2.81	3.30	-0.49
# of Blink/Min	21.35	18.16	3.19	21.35	18.16	3.19
TMH Average (mm)	0.39	0.41	-0.02	0.33	0.32	0.01
TMH Min (mm)	0.29	0.33	-0.03	0.25	0.18	0.07
TMH Max (mm)	0.44	0.47	-0.03	0.39	0.40	-0.01
TMH SD (mm)	0.08	0.06	-0.02	0.08	0.08	0.00
Guillon Scale	2/4 WAVE	2/4 WAVE		1/4 ABNORMAL	2/4 WAVE	

3

CONJUNCTIVA

Efron Conjunct. Redness	1/4 TRACE	2/4 MILD		1/4 TRACE	2/4 MILD	
Efron Limbal Redness	1/4 TRACE	1/4 TRACE		0/4 NORMAL	1/4 TRACE	

4

LIDS

Meib. Upper Lids	32.5 %	26.4 %	6.6 %	40.6 %	26.5 %	14.1 %
Meib. Lower Lids	35.5 %	19.5 %	-3.5 %	8.2 %	26.5 %	-18.4 %
Upper Meiboscale Score	1/4 TRACE	1/4 TRACE		2/4 MILD	1/4 TRACE	
Lower Meiboscale Score	0/4 NORMAL	0/4 NORMAL		0/4 NORMAL	1/4 TRACE	
Efron Blepharitis Score	1/4 TRACE	1/4 TRACE		0/4 NORMAL	1/4 TRACE	

5

FLUORESCEIN STAINING

JENVIS - Corneal Score	0/4 NORMAL	0/4 NORMAL		0/4 NORMAL	0/4 NORMAL	
JENVIS - Conjunct. Score	0/4 NORMAL	0/4 MODERATE		0/4 NORMAL	2/4 MILD	

Notes

Dry Eye Follow Up Report

Compare dry eye findings across two visits to evaluate changes in tear film, conjunctiva, lids, staining, and symptoms

- 1 Laterality: OD or OS
- 2 Tear Film Comparison*: differences in NIBUT, TMH, and lipid layer assessments between two selected exams
- 3 Conjunctiva Comparison*: differences in conjunctival and limbal redness between two selected exams
- 4 Lid Comparison*: differences in gland loss, Meiboscale score, and Efron blepharitis score between two selected exams
- 5 Fluorescein Staining Comparison*: differences in corneal and conjunctival staining using the Jenvis score across two exams
- 6 Comparison of TBT Scans: evaluation of tear break-up time scans from two selected exams

TERA

DRY EYE IMAGER

DRY EYE FOLLOW UP REPORT

Patient Demo Patient

Patient ID DEMPAT19751204

Gender Male

Exam Date 10/31/2025 12:04 PM

Date Of Birth 12/04/1975

Age 49

Exam 1: 10/29/2025 12:48 PM

Exam 2: 10/31/2025 12:04 PM

1

OD

OS

2

TEAR FILM

	Exam 2	Exam 1	Diff. (Exam 2-1)	Exam 2	Exam 1	Diff. (Exam 2-1)
PROT TEST (sec)	+14.64	7.89	N/A	10.62	+10.32	N/A
QPI (PROT TEST (sec))	N/A	-4.87	N/A	3.79	N/A	N/A
IBI (sec)	2.81	3.36	-0.49	2.81	3.30	-0.49
# of Blink/Min	21.35	18.16	3.19	21.35	18.16	3.19
TMH Average (mm)	0.39	0.41	-0.02	0.33	0.32	0.01
TMH Min (mm)	0.29	0.33	-0.03	0.25	0.18	0.07
TMH Max (mm)	0.44	0.47	-0.03	0.39	0.40	-0.01
TMH SD (mm)	0.08	0.06	-0.02	0.08	0.08	0.00
Guillon Scale	2/4 WAVE	2/4 WAVE		1/4 ABNORMAL	2/4 WAVE	

3

CONJUNCTIVA

Efron Conjunct. Redness	1/4 TRACE	2/4 MILD		1/4 TRACE	2/4 MILD	
Efron Limbal Redness	1/4 TRACE	1/4 TRACE		0/4 NORMAL	1/4 TRACE	

4

LIDS

Meib. Upper Lids	32.5 %	26.4 %	6.6 %	40.6 %	26.5 %	14.1 %
Meib. Lower Lids	35.5 %	19.5 %	-3.5 %	8.2 %	26.5 %	-18.4 %
Upper Meiboscale Score	1/4 TRACE	1/4 TRACE		2/4 MILD	1/4 TRACE	
Lower Meiboscale Score	0/4 NORMAL	0/4 NORMAL		0/4 NORMAL	1/4 TRACE	
Efron Blepharitis Score	1/4 TRACE	1/4 TRACE		0/4 NORMAL	1/4 TRACE	

5

FLUORESCEIN STAINING

JENVIS - Corneal Score	0/4 NORMAL	0/4 NORMAL		0/4 NORMAL	0/4 NORMAL	
JENVIS - Conjunct. Score	0/4 NORMAL	0/4 MODERATE		0/4 NORMAL	2/4 MILD	

Notes

TERA

DRY EYE IMAGER

NIBUT FOLLOW UP REPORT

Patient Demo Patient

Patient ID DEMPAT19751204

Gender Male

Exam Date 10/31/2025 12:04 PM

Date Of Birth 12/04/1975

Age 49

Exam 1: 10/29/2025 12:48 PM

Exam 2: 10/31/2025 12:04 PM

6

OD - Exam1

OD - Exam2

OS - Exam1

OS - Exam2

Notes

* Colored arrows indicate whether there is an increase, decrease, or no change between the two selected examinations shown.

20

21

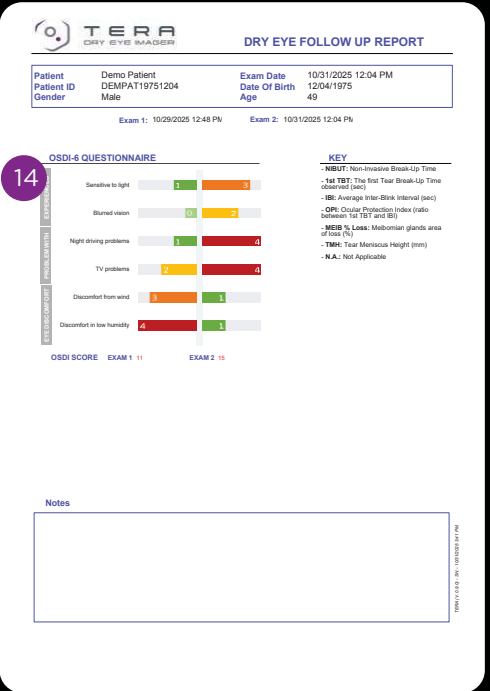
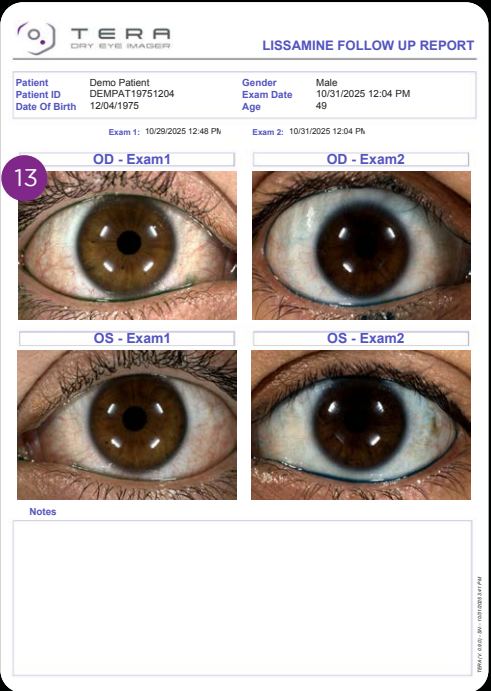
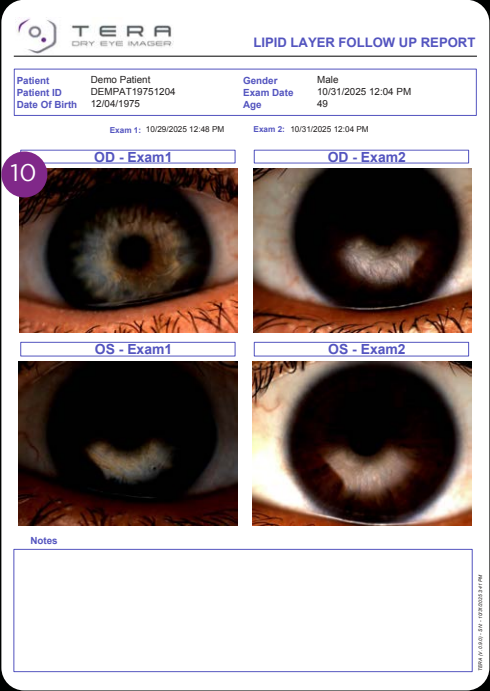
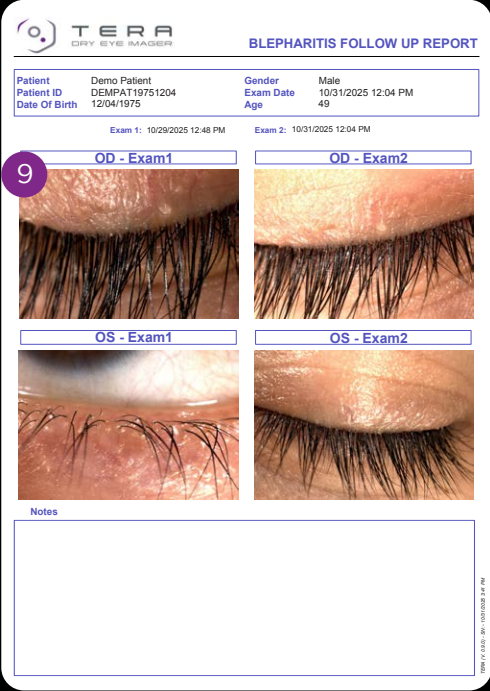
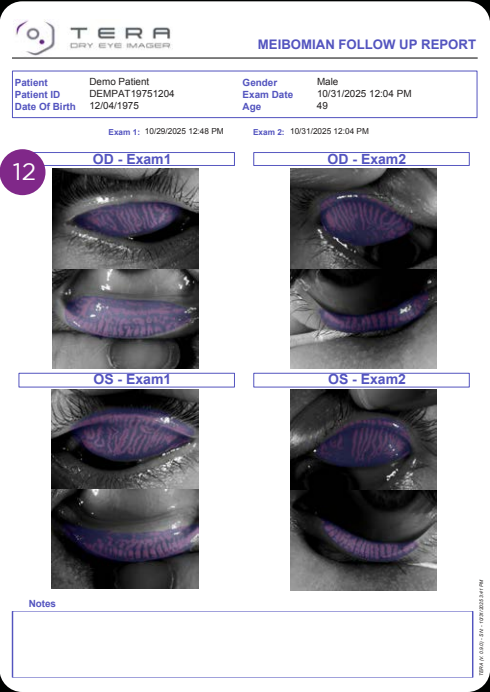
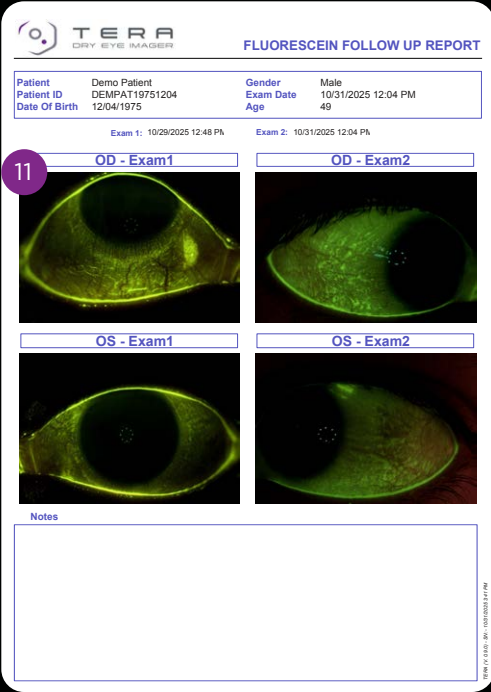
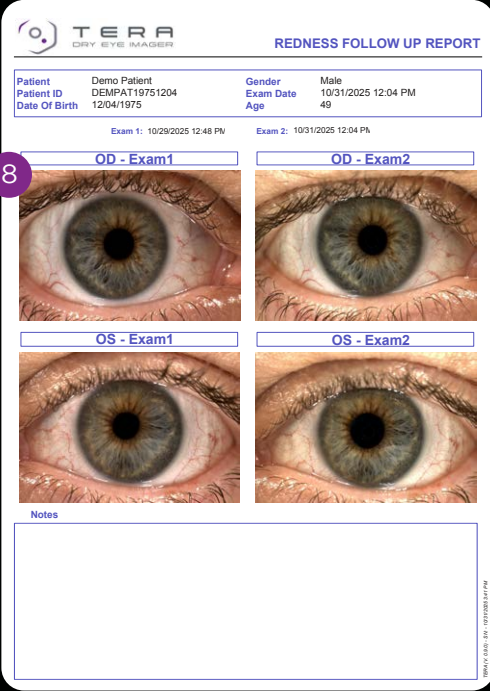
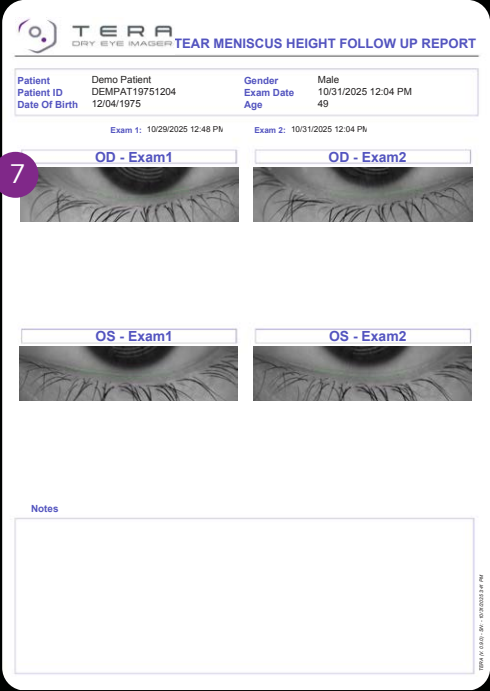
Dry Eye Follow Up Report

7 **Comparison of Tear Meniscus Height Scans:**
evaluation of TMH images from two selected exams

8 **Conjunctival Redness Comparison:**
evaluation of conjunctival redness images from two selected exams

9 **Blepharitis Comparison:**
evaluation of blepharitis findings between two selected exams

10 **Lipid Layer Image Comparison:**
evaluation of lipid layer flow quality between two selected exams



Dry Eye Follow Up Report

11 **Fluorescein Staining Image Comparison:**
evaluation of corneal and conjunctival staining patterns between two selected exams

12 **Meibomian Gland Image Comparison:**
evaluation of meibomian gland dropout patterns between two selected exams

13 **Lissamine Green Staining Comparison:**
evaluation of lissamine green staining patterns between two selected exams

14 **Dry Eye Questionnaire Results Comparison:**
evaluation of differences in dry eye symptom responses and overall resulting scores between two selected exams

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