

Why are we here?

NCLE Advanced Exam.

How Do I Earn Advanced Certification From ABO-NCLE?

basic NCLE certification

+
one recertification period (3 years)

=
eligible to take the Advanced Examination

2

4

NCLE Advanced Exam.

The registration fee for either the ABO Advanced Exam or the NCLE Advanced Exam is

Current ABO Advanced Certified Individuals

ABO Advanced
417

Current NCLE Advanced Certified Individuals

NCLE Advanced
193

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NCLE Advanced Exam. Exam handbook



https://www.aboncle.org/ABONCLE/ABONCLE/Certification/Certification-Application-Wizard/ABO-NCLE-Advanced-Certification.aspx?hkey=188cf470-7a4a-41dd-a7e0-d40ecea38198

Domains and Tasks	Weights
Prefit, Preparation, and Evaluation (Including patients with complex conditions)	25%
Design, Fit and Dispense Standard and Specialty Lenses	30%
3. Patient Instruction and Delivery Procedures (Including those with specialty lenses)	15%
4. Routine and Emergency Follow-up Visits	25%
5. Administrative Procedures	5%

1st session Domain I

Domains and Tasks	Weights
Prefit, Preparation, and Evaluation (Including patients with complex conditions)	25%
1.1 Obtain and document the history of patients who have complex ocular conditions that require specialty lenses	6%
1.2 Assess the technical aspects of the patient's complex ocular status to determine contact lens options	7%
1.3 Discuss with the patient his or her needs, expectations, and limitations	6%
1.4 Analyze information and explain lens options to meet patient needs	6%

 $S.O.A.P. \quad \hbox{{\tt Commonly used approach to healthcare decision making and documentation}}$

- S Subjective
- O Objective
- A Assessment
- P Plan

7 8

Subjective:

what the patient is experiencing.

This is what the patient will report as their "complaint"... What problem are they having?

Subjective:

you must investigate what "subjective" concerns the patient has to help guide you.

"I can't see out of these glasses"

"These Contacts don't work"

"My Eyes Hurt"

Will need MUCH more description...but we'll get there

....

OBJECTIVE

· Objective data collection includes anything that is verifiable without the input of the patient.

COAD

OBJECTIVE

In patient care for medical or optometric tests, this can include:

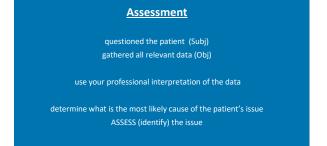
- keratometry
- Topography
- Autoref/REtinoscopy
- OCT testing,
- slit lamp exam/observation
- Other

12

10

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9



<u>Plan</u>

What is your recommended solution/treatment.

13 14

IF plan doesn't work, start over from beginning and retry...

CONTACT LENS
FITTING
EVALUATION

1) Rx Spectacle Refraction

Statement for contact lenses from referring
Doctor (MD or OD)
"No Contraindications" or
"Ok to wear Contact Lenses"

Unexpired: Recommend Spec Rx < 6 months

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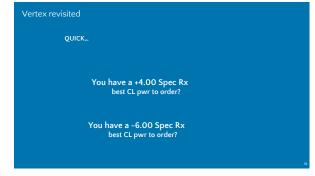
Anatomy and Refractive Error

MYOPIA

HYPEROPIA/HYPERMETROPIA

ASTIGMATISM

PRESBYOPIA



17 18



CONTACT LENS
FITTING
EVALUATION

3) Ocular History
Any previous eye diseases, injury or surgery?

Date?

Who treated and what was the outcome?

19 20

CONTACT LENS
FITTING
EVALUATION

4) Gen Health/PMHX
Medications/ Systemic Conditions?

allergies?
DM
Thyroid
Endocrine? (Meno, Oral Cont. Preg)
Htn

CONTACT LENS
FITTING
EVALUATION

4) Gen Health/PMHX (cont)

Seasonal Allergies/antihistamines

• Rosalde fluctuations in Blood Caccoe may • fluctuating vision

Diabets:

• Passible fluctuations in Blood Caccoe may • fluctuating vision

• Impaired healing

• Decreased corneal Sensitivity

Thyroid

• Exposure/graves/ Exophthalmos/Proptosis

• dryness

Hypertension

• Diuretics for Meds

Accne/Skin Conditions

• Accutane Dryness

21 22

CONTACT LENS
FITTING
EVALUATION

5) Occupation/Hobbies
(aka Vocation/Avocation)
Work

• Safety considerations?
• dry/dusty environment?

Hobbies

• Detailat near?
• Safety (sports, other)
• Esp treess
• face/eye/head protection?

CONTACT LENS
FITTING
EVALUATION

6) Difficulty with Spec
Correction?

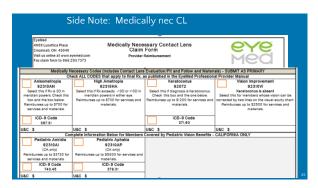
- Anisometropia (aniseikonia)

- Distortion?

- Reduced BCVA for K-conus or other irreg?

- Medically necessary Vision Care plans

23 24



CONTACT LENS
FITTING
EVALUATION

7) Allergies or hypersensitivities?

Meds (antibiotics? Solutions?)

Seasonal?
Fall/Spring/Both/Other?

25 26

CONTACT LENS
FITTING
EVALUATION

8) Reason for CL
Possibly most important question!

Motivation?

Expected Vision?

Expected Wearing time? (social or everyday)

Flexible vs. Extended

CONTACT LENS
FITTING
EVALUATION

ALREADY START to stress personal hygiene and review care instructions not just at end of exampliting.

9) Prev CL Wear?

• Lens type and brand
• Lens solutions
• Replacement sched
• Overnight wear?
• Dryness, comfort, etc?

27 28

CONTACT LENS
FITTING
EVALUATION

9) Prev CL Wear?

• PRO TIP

• Ask OPEN ENDED and SPECIFIC QUESTIONS

"Do you properly disinfect?"

Vs

"describe to me and show me how you clean/disinfect/Store your lenses nightly"

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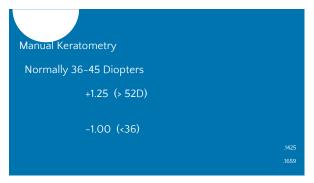








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CONTACT LENS
FITTING
EVALUATION

Trial Lens fitting vs Empirical

If trial lens (OR/SCOR)

39 40

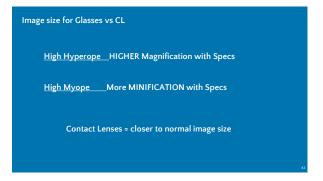
OPTICAL CONSIDERATIONS FOR CONTACT LENSES

Change in Prism from Ólasses to CL

Base In = less need to converge
= easier for near



41 42



Importance of Tear Film

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Three Layers of Tear Film • Mucin (allows adhesion to cornea) • Aqueous (liquid portion...nutrients, lubrication, antimicrobial, hydration, oxygenation) • Lipid Tear Film

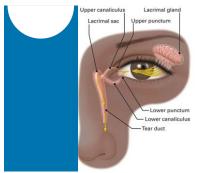
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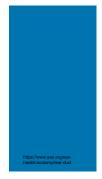


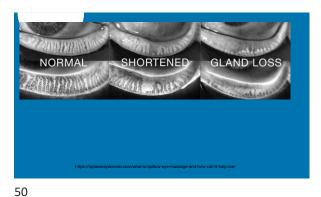
ucous Layer
Mucopolysac
glycoproteins
N-Ac-glucos
sialic acid
fucose
mannose
Galactose Lipid Layer waxes
 fatty acids cholesterol
 cholesterol esters
 lecithin triglycerides

Tear Film Components

47 48







Meib Glands Palpebral Conjunctiva (upper and lower tarsal plates)
 lipid layer normally =clear and free flowing
 Poor quantity or quality of Lipid layer = evaporative Dry Eye
 https://dryeyedirectory.com/meibomian-gland-expression/

TBUT
 SCHIRMER strip
 Rose Bengal
 Lissamine Green
 https://eyewiki.aao.org/Dyes_in_Ophthalmology

51 52

•TBUT

•https://www.youtube.com/watch?v=qYx1IDUB6YU

/ital Stain	Color	Tissue	Slit Lamp Set-Up
odium Fluorescein	Yellow	Cornea	Wratten #12 filter Cobalt light High illumination
Rose Bengal	Red	Conjunctiva	White light High illumination
issamine Green	Green	Conjunctiva	White light Low illumination

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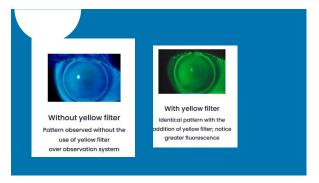


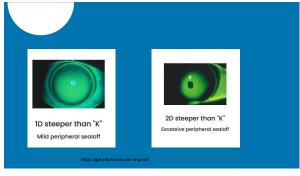




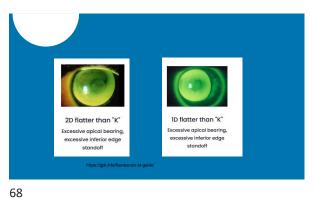


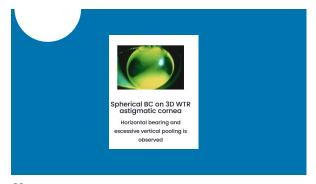
















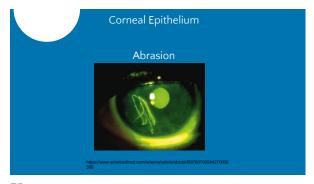


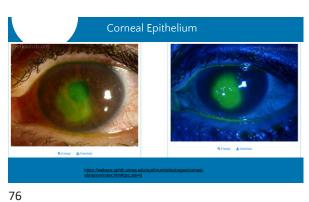
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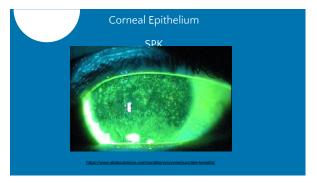


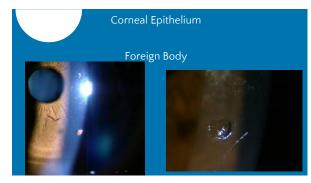
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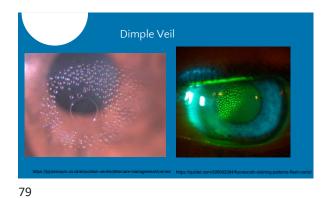


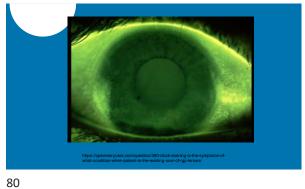
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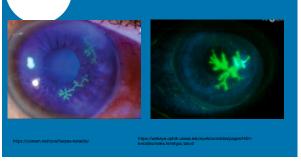


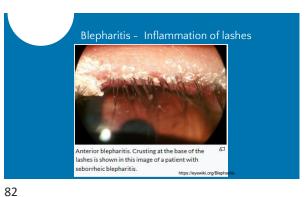


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Blepharitis Treatments • Lid scrubs/hygiene

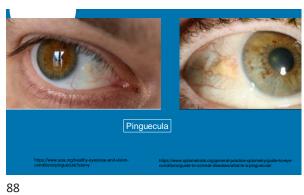
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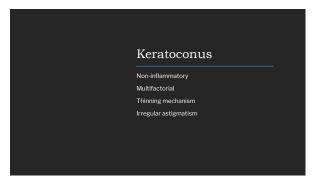
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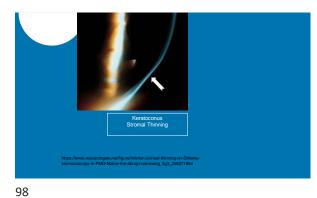






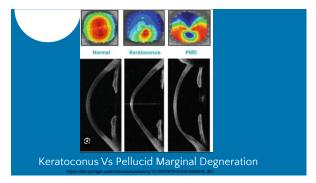








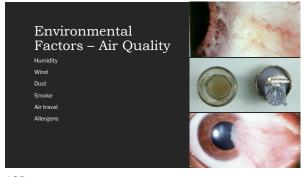














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Autonomic Nervous System

Parasympathetic

- "rest and digest"
- cholinergic



- Sympathetic
- "fight or flight"
- adrenergic

Autonomic Nervous System

Sympathetic epinephrine/norepinephrine
>Pupils dilate

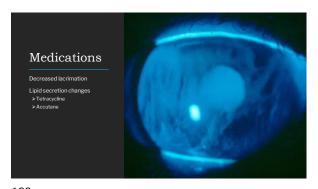
- > Secretions decrease
- ≻Sympatholytic



- Parasympathetic acetylcholine ≻ Pupils constrict
- ➤ Secretions increase
- $\succ \mathsf{Parasympatholytic}$ > parasympathomimetic



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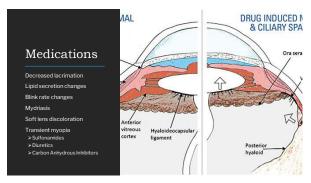








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