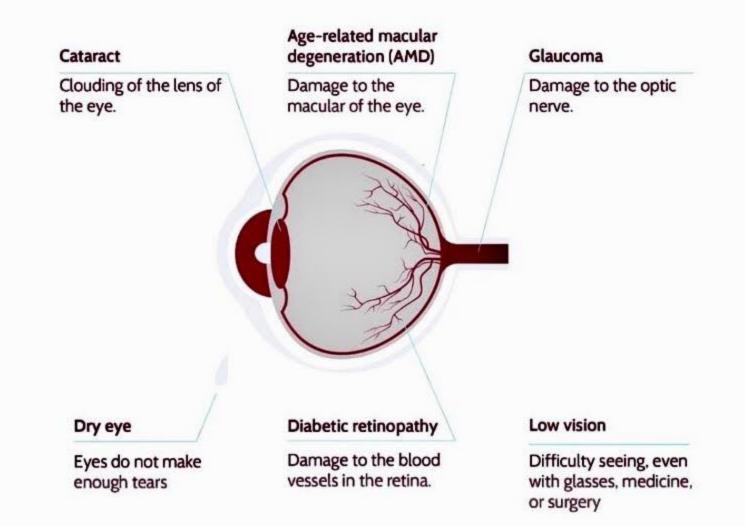


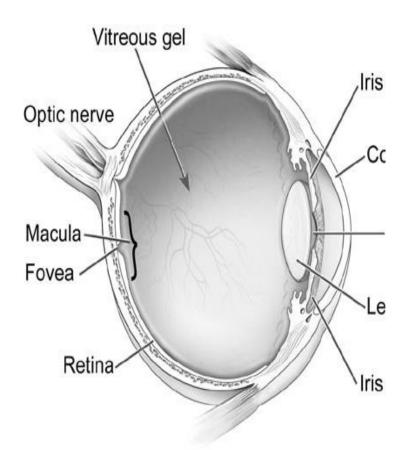
Eye Health

Subhash Suthar D Pharm Clinical & Therapeutics Applications (Eye)



eye diseases and conditions





Anatomy of eye

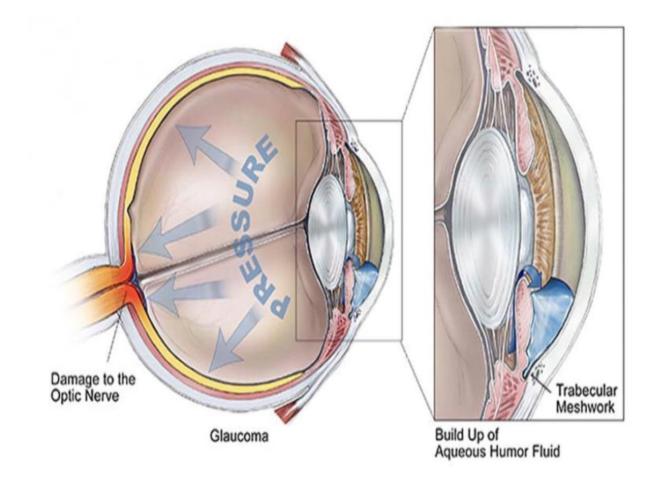


Illustration by Bob Morreale, courtesy of BrightFocus Foundation.

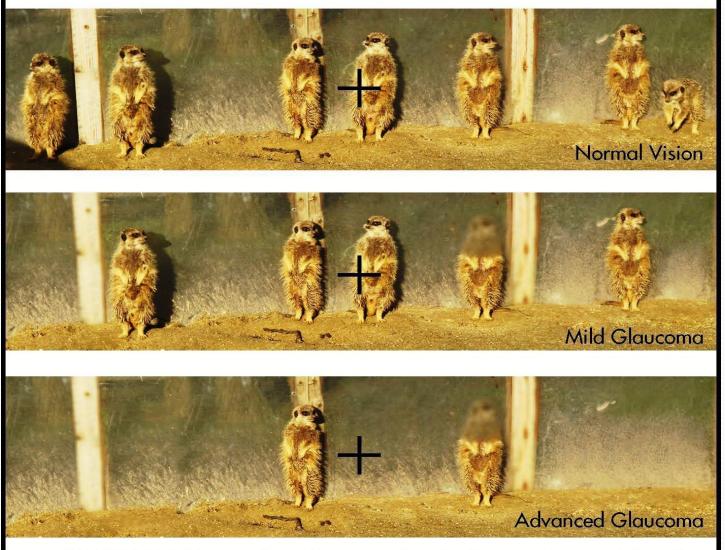
Three Signs You should Visit Eye Clinic For a Thorough Eye Exam

- Hazy or Blurred Vision
- Rainbow Halos When Looking at Bright Lights
- Nausea or Vomiting due to Eye Pain

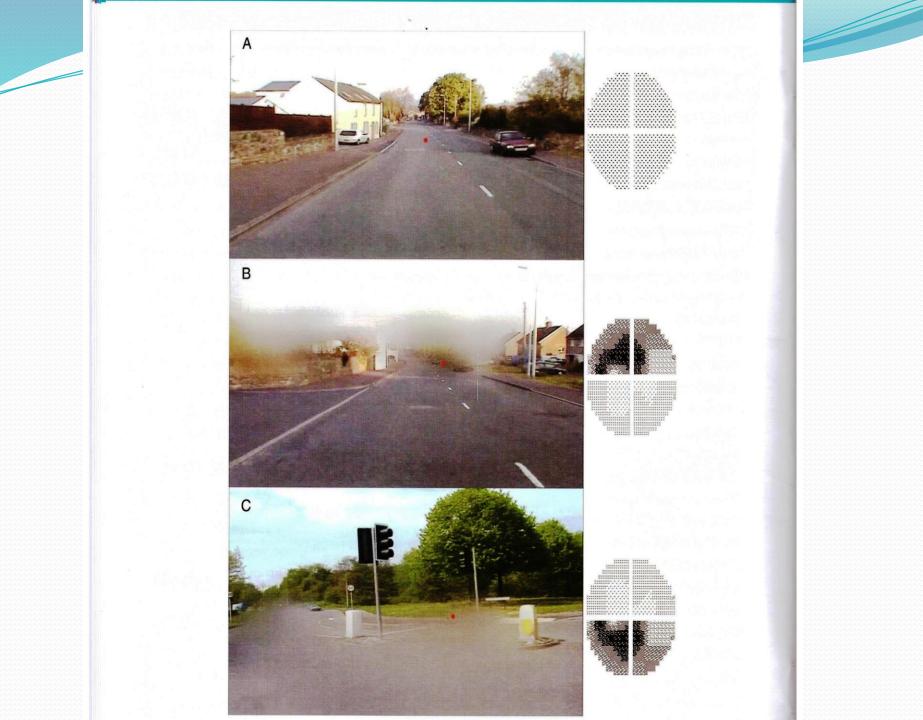
Types of Glaucoma

- Open angle G.
- Angle-closure G.
- Normal tension G.
- Congenital G.
- Secondary G.

Can you see the difference?



GLAUCOMA gradually steals sight and can blind Book an eye test today



TREATMENT OF GLAUCOMA

The earlier glaucoma is diagnosed the earlier treatment can start Medication – eye Drops Laser treatment Surgery (Trabeculotomy) There is no cure for Glaucoma as yet and vision loss is irreversible

Treatment

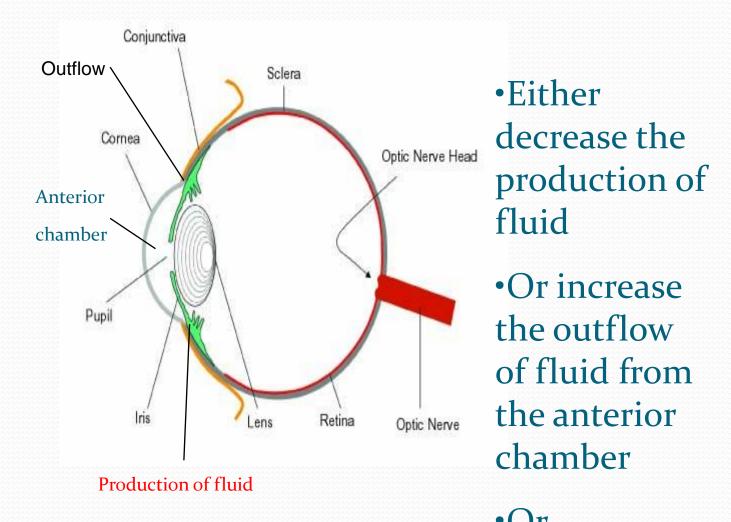
- Medication Eye drops
- Laser treatment : Argon, YAG, SLT (Selective Laser Trabeculoplasty)
- MIGS (Minimum Invasive Glaucoma Surgery) Implants/ tubes
- Surgery

Drops

Frequently the first treatment option

Used to decrease pressure in the eye

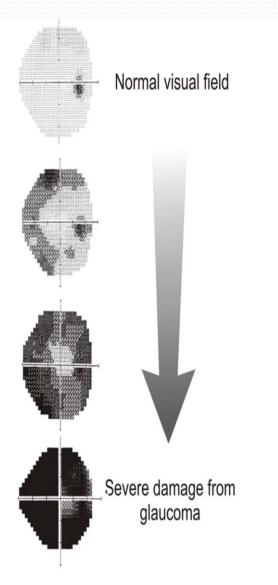
Even if pressure is 'normal' reducing it helps to stop deterioration of vision Pressure can be lowered in two ways



>



Progressive Visual Field Loss. Where do you want to be?





Use your drops correctly

Drops are for life

They slow down or stop the deterioration of vision – they cannot reverse the process

Take them at the correct time every day – get into the habit

Develop a good technique

THIS WAY!

SUBHASH SAYS W.O.K*



#WristOnKnuckles Drops Technique, simple to explain, easy to adapt.





The dose of drug in eye drops is very low

But can get into the system

So – shut your eye after putting in drop

And occlude your puncta

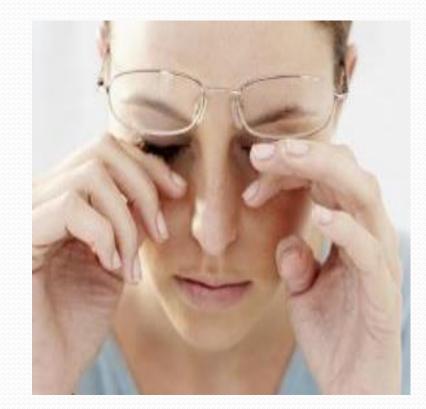




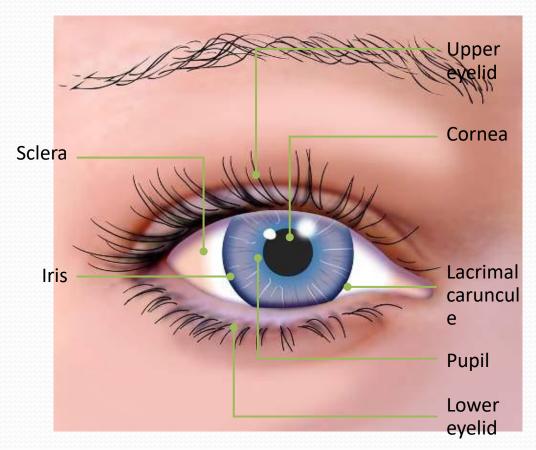
Dry Eyes & Blepharitis

Common symptoms

- Sore, gritty eyes
- Stinging, burning
- Watering eyes
- Smeary vision
- Irritation from air conditioning or wind
- Red eyes and eyelids



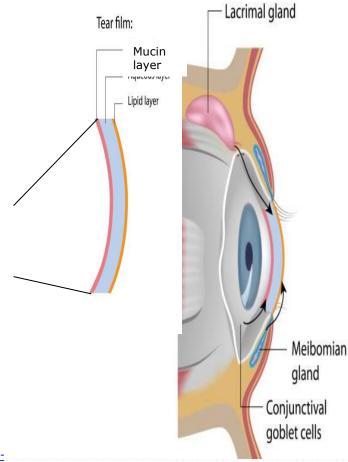
External anatomy of the eye



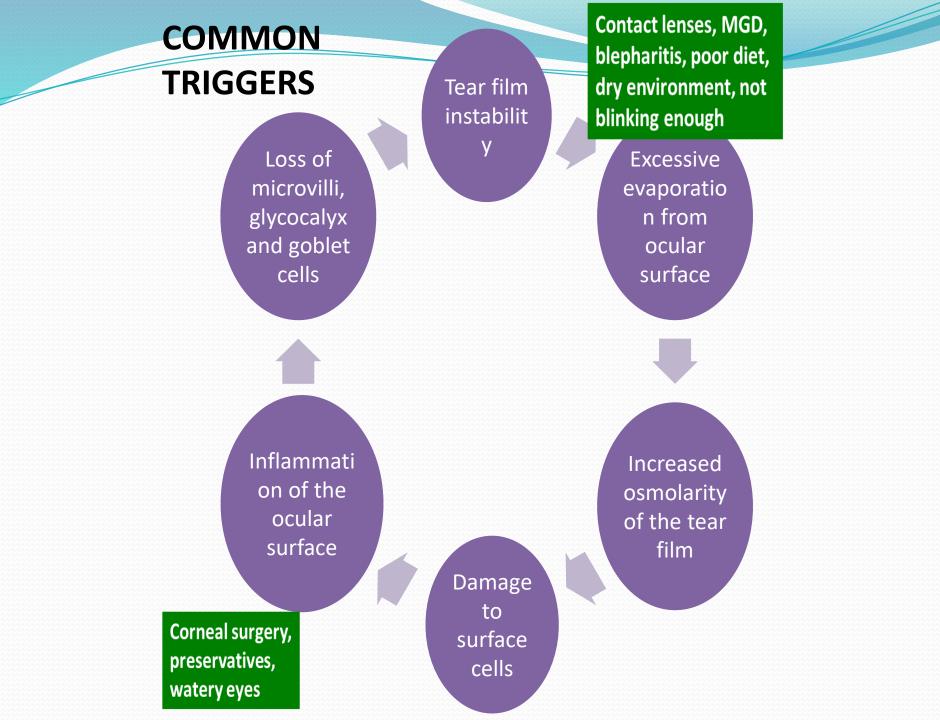
Adapted from Tortora GJ, Anagnostakos NP, eds Principles of anatomy and physiology, 6th edn. New York, HarperCollins Publishers, 1990.

Tears are composed of three layers¹

- Lipid layer
 - Secreted from the meibomian glands
 - Seals moisture onto the eyeball and smooths the eye surface
 - Allows free flow of the eyelid over the eyeball
- Aqueous layer
 - Moisturises, nourishes and protects the eyeball
- Mucin layer
 - Adheres tears to the surface of the eye and allows them to spread evenly



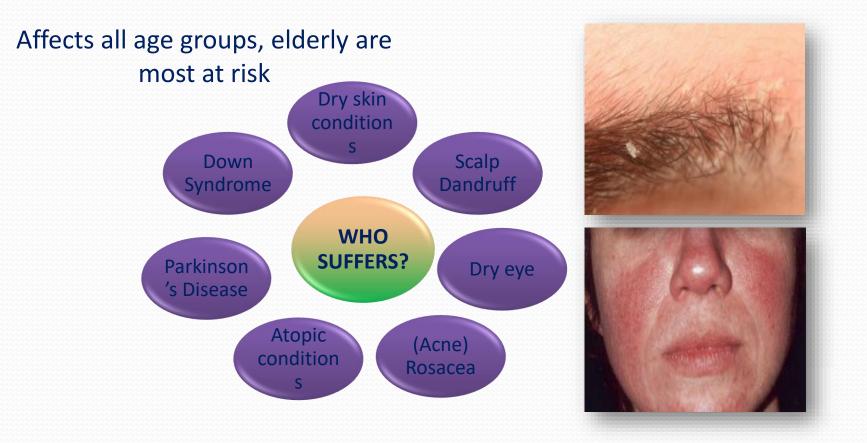
References: 1. Facts about tears. Available from: <u>https://www.aao.org/eye-health/tips-prevention/facts-about-tears</u>. Accessed March 2018.



8 out of 10 dry eye problems feature blepharitis

Lemp et al (2012) Distribution of aqueous-deficient and evaporative dry eye in a clinic-based patient cohort: a retrospective study. Cornea 31(5):472-8

Who suffers from blepharitis?



Looking after eyelids

WARM

MASSAGE

CLEAN

Eye Health Regime

Your Optometrist/Optician has recommended that you use the products detailed below. This will help you maintain good eyelid hygiene and manage your Dry Eye symptoms.



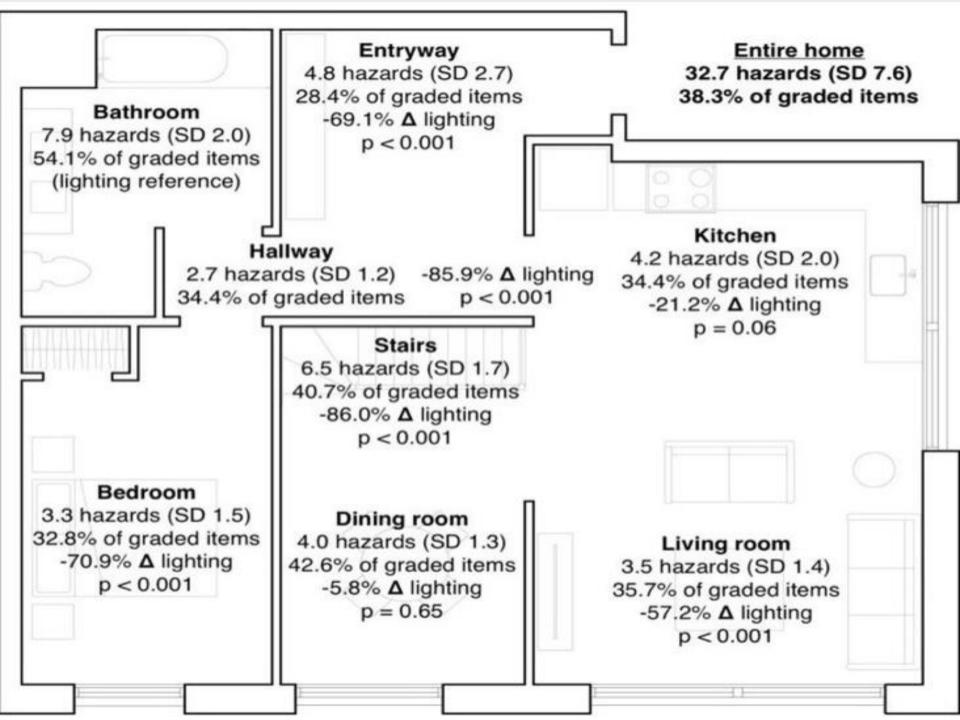
STEPS	Recommended usage/additional information
1. Heat and Massage Yes No	
2. Cleanse Blephaclean Blephagel Blephasol Duo / Blephasol	
J. Lubricate Hyabak Hyabak UD Thealoz Thealoz Duo Thealoz Duo UD Thealoz Duo Gel	
4. Nutritional Supplements Hyabak Caps Nutrof Total	
As part of your eye health regime it is equally in diet, including plenty of fresh fruit and vegetable incorporate daily blinking exerci	es, drink plenty of water each day and try to
Optometris	otician/ t name Signed

So.....how to find a dry eye drop that works

Choose Preservative Free Choose Hylauronic Acid

> Choose Bioprotectants

> > Easy to use, economical bottle



Eye Health

- Nutrition for Eye Health
- Fact or Fiction?



Definition & Diagnosis

- Age-related Macular degeneration (AMD) is the leading cause of irreversible vision loss in developed countries. It affects the central part of the Retina (the macula) which may result in blurred or no vision in the canter of visual field in one or both eyes
- AMD prevalence increases with age
- AMD is a multifactorial disease resulting from a combination of genetic & environmental risk factors

Risk factors

- Dietary habits (including glycaemic index and high fat intake have been associated with increased risk of early and/or progression to advanced
- Smoking and genetics are the most consistent risk factors

Current treatments for AMD

- There is no definitive treatment to prevent or to cure AMD especially Dry AMD
- Intravitreal injections of anti-VEGF antibodies is the most effective way to stabilise or even improve visual acuity in the majority of patients with neovascular AMD
- The efficacy of anti-VEGF is highly dependent on early diagnosis of neovascular lesions
- Lucentis/Eylea/Beovu
- Avastin /Macugen
- Photodynamic Therapy are tailored to individual patients need. There are some more in research stages at the momment

Ocular Nutrition & AMD

- Association between minerals , antioxidants or Omega-3-fatty acids and early or late AMD has been confirmed in some prospective population based studies.
- A reduced risk of early or advanced AMD was associated with higher dietary intake of essential micronutrients including minerals (Zinc) Vitamins (A,B,C,D,E) caratonoids & Omega-3-fatty acids

Top tips for better eye health this winter

Drink plenty of water



ਰੋਮ - ਖੋਜ ਮੈਕੇ ਏਥੇ ਦਿੱਤੇ ਗਏ ਹਨ

ਮੂਰਫੀਲਡਜ਼ ਕੀ ਤੁਸੀਂ ਕਿਸੇ ਖੋਜ ਅਧਿਐਨ ਵਿੱਚ ਭਾਗ ਲੈਣ ਵਿੱਚ ਦਿਲਚਸਪੀ ਰੱਖਦੇ ਹੋ? ਮੂਰਫੀਲਡਜ਼ ਵਿਖੇ ਕੀ ਖੋਜ ਕੀਤੀ ਜਾਂਦੀ ਹੈ ਨੂੰ ਆਕਾਰ ਦੇਣਾ ਚਾਹੁੰਦੇ ਹੋ?

research.moorfields.nhs.uk ਵਿਖੇ ਸੰਮਿਲਤ ਹੋ ਜਾਓ

ਜਾਂ, ਆਪਣੇ ਸਮਾਰਟਫ਼ੋਨ ਦੇ ਕੈਮਰੇ ਨੂੰ ਖੋਲ੍ਹੋ, 'ਤੇ ਪੁਆਇੰਟ ਕਰੋ ਸੱਜੇ ਪਾਸੇ QR CODE, ਫੇਰ ਇਸ ਦੇ ਲਿੰਕ 'ਤੇ ਕਲਿੱਕ







रोम - अनुसंधान अवसर मूरफील्ड्स

एक शोध अध्ययन में भाग लेने में रुचि रखते हैं? मूरफील्ड्स में क्या शोध किया जाता है, इसे आकार देना चाहते हैं?

research.moorfields.nhs.uk में शामिल हो जाओ

या, अपना स्मार्टफोन कैमरा खोलें, इंगित करें दाईं ओर QR कोड, फिर लिंक पर क्लिक करें वेबसाइट पर जाए।







રોમ - સંશોધન પર તકો મૂરફીલ્ડ્સ

સંશોધન અભ્યાસમાં ભાગ લેવામાં રસ છે? મૂરફિલ્ડ્સમાં શું સંશોધન કરવામાં આવે છે તે આકાર આપવા માંગો છો?

research.moorfields.nhs.uk પર સામેલ થાઓ

અથવા, તમારા સ્માર્ટફોનનો કેમેરો ખોલો, આ તરફ ઇશારો કરો જમણી બાજુએ OR CODE, પછી આની લિંક પર ક્લિક કરો વેલગાઈન પર જાઓ







Please be Safe

- Thank you
- Any questions?