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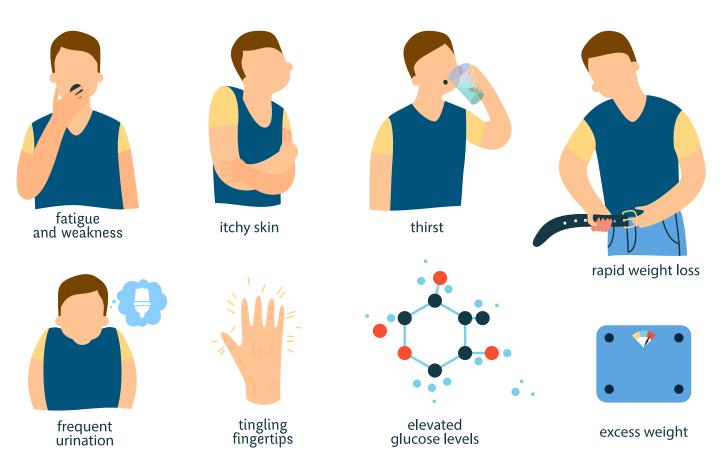


UNDERSTANDING DIABETIC RETINOPATHY

At a Glance: Diabetes



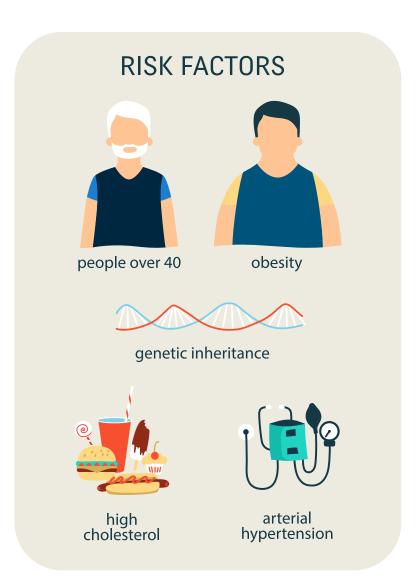
SYMPTOMS







At a Glance: Diabetes



PREVENTION



glucose control

healthy eating



execise



no smoking



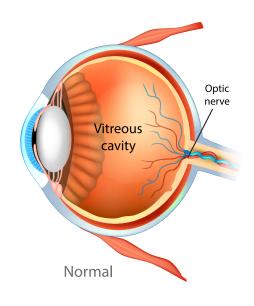


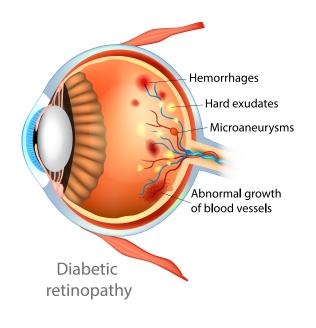


Diabetic Retinopathy

Diabetic retinopathy, an eye condition, wherein the retinal blood vessel gets damaged that causes vision loss and eventually progresses to blindness in diabetic patients.

Underlying cause for diabetic retinopathy is the increase in blood glucose level in diabetic patients. Increased blood glucose level blocks the tiny blood vessels of the retina, causing fluid leak or bleed. To compensate for these blocked blood vessels, new eye blood vessels grow, however, that doesn't work well. Consequently, these new blood vessels leak or bleed easily.







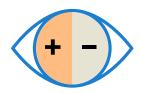


Symptoms

No symptoms observed in the early stages of diabetic retinopathy. As the condition progresses, following symptoms develop:







Blurry

Vision

Fluctuating vision





Dark or empty areas in vision

Spots or dark strings floating in vision (floaters)





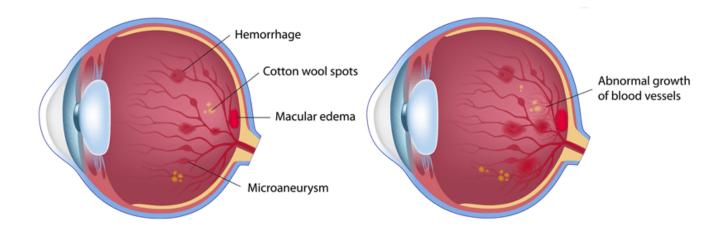
Diagnosis

- Comprehensive dilated eye examination
- Fluorescein angiography involves dilation of eyes, injecting dyes into the vein and followed by imaging of blood vessels.
- Optical coherence tomography (OCT) provides cross-sectional images of the retina.

Treatment based on stages of Diabetic retinopathy

Non proliferative diabetic retinopathy (NPDR)

Proliferative diabetic retinopathy (PDR)







Characterization

Non proliferative diabetic retinopathy (NPDR)

Mild NPDR: Characterized with at least one microaneurysms (tiny bulges in the retinal blood vessel) or hemorrhages (blood-filled bulges may burst and leak into the retina).

Moderate NPDR:

Characterized with increased hemorrhages and microaneurysms along with cotton wool spots, venous beading or intraretinal abnormalities to a mild degree.

Severe NPDR (4-2-1):

Characterized with microaneurysms or hemorrhages in 4 quadrants, venous beading in ≥ 2 quadrants and prominent Intra retinal abnormalities in ≥ 1 quadrant.

Proliferative diabetic retinopathy (PDR)

Characterized with an abnormal formation of new retinal blood vessels to compensate for blocked blood vessels.

These abnormal blood vessels leak into the vitreous (jelly-like substance that fills the center of the eye).





Treatment

Non proliferative diabetic retinopathy (NPDR)

Mild NPDR/ Moderate NPDR:

Anti-VEGF or corticosteroid injections.

Severe NPDR:

Panretinal laser photocoagulation.

Proliferative diabetic retinopathy (PDR)

Panretinal Laser

Photocoagulation treatment:

to treat the growth of new retinal blood vessels.

Vitrectomy/Vitreoretinal Surgery:

involves removal of affected vitreous.







Do's & Don'ts post-procedure

DO'S

Follow the post-operative instructions regarding eye care, medication use, and follow-up appointments

Use **eye shields or patches** as Directed

Take **prescribed medications** as directed

Wear **protective eyewear**, if engaging in sports or other potentially hazardous activities

Maintain **blood** sugar level

Follow up with the surgeons

DON'TS

Rub or touch the eyes

Engage in **strenuous or vigorous** activities for specific time as advised

Smoke. Don't consume alcohol or tobacco-related products

Ignore any **signs of infections or inflammation**

Drive for a certain period, as recommended





References

- 1 Diabetic Retinopathy (2022). National Eye Institute

 Available at: https://www.nei.nih.gov/learn-about-eye-health/eyecontions-and-diseases/diabetic-retinopathy#section-id-10527 (Accessed: 23 July 2023).
- 2 Diabetic retinopathy (2021). National Health Service (UK).
 Available at: https://www.nhs.uk/conditions/diabetic-retinopathy
 (Accessed: 23 July 2023).
- 3 Tomita, Y. et al. (2021) 'Updates on the Current Treatments for Diabetic Retinopathy and Possibility of Future Oral Therapy', Journal of clinical medicine research, 10(20). Available at: https://doi.org/10.3390/jcm10204666.







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