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- Age: degeneration due to cumulative oxidative stress, along with natural decline in protective nutrients (Supplement?)
- Myopia: eye's elongated shape increases likelihood of vitreous degeneration-related traction and sudden onset of PVD
- Diabetes: sugar, high levels of
 inflammation contribute to oxidative stress
 -increased rate of degeneration
- Eye trauma: Injuries/Concussions may cause bleeding into the jelly-like vitreous, leading to blurred vision and floaters



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FLOATERS: TRIAGE THIS COMMON COMPLAINT FLOATERS WITH ASSOCIATED FLASHING LIGHTS = TRUE OCULAR EMERGENCY SUDDEN ONSET OF FLOATERS WITH NO LIGHT FLASHING – URGENT; WE SEE THE PATIENT IN 1-3 DAYS NEED TO HAVE PATIENT ARTICULATE THE ONSET/LOCATION/DURATION OF THE FLOATERS NEED TO HAVE PATIENT ARTICULATE THE ONSET/LOCATION/DURATION OF THE FLOATERS CHART REVIEW FOR RISK FACTORS: PREVIOUS RETINAL HOLES/TEARS HIGH MYOPIA PREVIOUS OCULAR TRAUMA



VITREOUS DEGENERATION OR SYNERESIS SEQUELAE:

- FLOATERS/STRANDS • WEISS' RING
- VITREOUS HEMORRHAGE
 (INCREASES RISK FOR RETINAL TEARS
 AND DETACHMENT)
- RETINAL HEMORRHAGE ONH HEMORRHAGE
- RETINAL TRACTION (COMMON)
- RETINAL TEAR (8-15% OF SYMPTOMATIC PVDS)

RETINAL DETACHMENT (INCIDENCE IN GENERAL POPULATION OF 1 IN 10,000 OVER LIFETIME)















Floater Location is Critical!!!

- Floater can't be too close to the retina or the crystalline lens (in phakic eyes)
- We are NOT removing the floaters!
- Reducing their size to reduce their impact on visual performance



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VITRECTOMY INDICATIONS

- TYPICALLY USED AS A LAST RESORT OR IN SEVERE CASES
- VERY DELICATE SURGERY
- REPLACE VITREOUS WITH A
 SYNTHETIC SUBSTITUTE

 OFTEN RESERVED FOR NON-RESOLVING VITREOUS BLEEDS AND DENSE CENTRAL FLOATERS

AND DENSE CENTRAL FLOATERS USED FOR LARGE, DENSE, CENTRAL FLOATERS AFFECTING FIXATION/VA AND IN CASES WITH HIGH-RISK VITREAL/RETINAL ADHESION OR TRACTION









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Based on the FLIES Study, we know that antioxidant and antiglycation nutrients can be replenished inside the vitreous, improving floater symptoms.







A Scientifically Proven Solution

FLIES

- FLIES is the first trial to investigate nutritional supplementation in floater sufferers in a double-blind, placebo-controlled design.
- First and only natural, non-invasive solution to treat floaters.

Arkamah, E., et al. (2021). Distary Intervention With a Targeted Micronutrient Formulation Reduces the Visual Discomfort Associated Vitreous Degeneration: Translational vision science & technology, 10(12), 19. https://doi.org/10.1167/hst.10.12.19

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MUCH LIKE THE AREDS STUDY SHOWED US THAT SUPPLEMENTATION CAN BE HELPFUL IN AMD...



- The FLIES Study showed a significant reduction in floaters both subjectively and clinically
- FLIES: Floater Intervention Study
- Goal of FLIES:
 Supplementation for the reduction of visual disturbances associated with vitreous floaters

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FLIES Study Design: Enrolled patients age 18 and over with subjective complaints of floaters Randomized, single-site, double-blind, placebo-controlled study 61 patients were studied over 6 months Outcome measure: change in floater disturbance using a subjective questionnaire Also compared color fundus photos using a Zeiss VisuCam images at baseline and at 6 months Start date 1/2/2017; ended 12/31/2018



HOW DO THE INGREDIENTS IN THIS SUPPLEMENT WORK?	
• L-lysine:	Helps prevent collagen glycation – maintains vitreous body's structural integrity
• Zinc:	Has antioxidant and antiglycation properties
Ascorbic Acid:	Helps maintain low oxygen levels in the vitreous which reduces oxidative damage and also protects the lens from damage









I BEGAN PRESCRIBING Oute VITREOUS SUPPLEMENTS IN SUMMER OF 2022 0 1 2 Nover Once or twice / week Once / day Seve 3 4 stimes/day Constantly 0 None 2 Moderate 3 Suggested the supplement with a complaint of chronic floaters or a recent onset of visually significant 3 4 Severe 0 None 1 2 Modente floaters in a few words, please describe any charges the foaters since your last visit to the eye doctor. Followed patients with a subjective questionnaire at start of supplementation and again at 2-6 months

72% of patients (n=18) saw subjective improvements in initial 6 months



4 Severe





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Remember, Not All Floaters Are Created Equal!

• Final Thoughts:

- Don't Ignore Patient Concerns!
- Reassure that there are treatment options
 Time and Patience are often the best treatment plan!
- Get to know if local providers offer some of these treatment options; refer accordingly

