Glaucoma: Going Beyond IOP Quiz

1.	The contemporary definition of glaucoma includes all of the following except a. Intraocular pressure (IOP) b. Excavation of the optic disc (cupping) c. Retinal ganglion cell death d. Visual field defects	
2.	The number 1 risk factor for the development of glaucoma is a. Being of sub-Saharan African descent b. Increasing age c. Female gender d. Increased IOP	
3.	Regarding gender, which carries a higher risk for the development of glaucoma? a. Male gender b. Female gender c. The gender risk is equal d. It is not possible to tell based on current science	
4.	By 2040, the global prevalence of glaucoma is expected to be just over a. 30 million b. 50 million c. 70 million d. 110 million	
5.	Among the most common reasons for blindness from glaucoma are all of the following a. No diagnosis made b. Early disease state at initial presentation c. Ineffective treatment d. Non-compliance	except
6.	With respect to normal-tension glaucoma and non-IOP risk factors, MRI studies have sloo of patients have micro-infarcts in their cerebra. a. 20% b. 50% c. 80% d. This has not yet been studied	าown up

7.	According to the Collaborative Normal-tension Glaucoma Treatment Study (CNTGTS),			
		study population experienced glaucoma progression despite a 30% IOP reduction.		
	a.	20%		
	-	5%		
		75%		
		80%		
	u.	00%		
_				
8.	The recently published LiGHT Study showed that selective laser trabeculoplasty (SLT) is			
	•	cal IOP lowering medications.		
	a.	Not as effective		
	b.	As effective		
	c.	2 times as effective		
	d.	4 times as effective		
9.	With respect to IOP lowering in glaucoma, which of the following statements is currently true?			
		Vitamin B3 (nicotinamide) therapy should come before IOP lowering in some cases.		
		Vitamin B9 (folic acid) therapy should come before IOP lowering in some cases.		
	c.			
	d.	Neuroprotection by oral supplementation has been shown to be more effective than		
	۵.	IOP lowering therapy for normal-tension glaucoma.		
		Tot lowering therapy for normal tension gladeoma.		
10	Which	of the following is true with respect to the relationship of episcleral venous pressure		
-0.	(EVP) to IOP?			
	•	As EVP decreases, IOP decreases		
		As EVP decreases, IOP increases		
		There is no relationship between EVP and IOP		
	a.	As EVP increases, IOP decreases		
11.		ts as a(n) to IOP.		
		Pressure barrier		
	b.	Facilitator of outflow		
	c.	Facilitator of production		
	d.	EVP has no relationship with IOP		
12.	OCT an	giography (OCT-A) studies have shown that glaucomatous nerves tend to have		
	with re	spect to non-glaucomatous optic nerves.		
	a.	Engorged vasculature		
	b.	Leaking vasculature		
		Attenuated vasculature		
	c.	Attenuated vasculature		

13.	nerve head is				
	a.	The movement of blood vessels during the cardiac cycle			
		Fluorescein			
		Indocyanine green			
		OCT-A is not yet able to map out the vasculature of the optic nerve head			
14.	. OCT-A abnormalities in glaucoma patients will likely play a role in collaboration with primary care doctors to ensure optimal control of				
	a.	Homocysteine levels			
	b.	Leukocyte levels			
	c.	Serum liver enzymes			
	d.	Blood pressure			
15	In seve	ral studies, oral supplementation with vitamin B3 (nicotinamide) has been shown to			
15.	potentially protect retinal ganglion cells primarily by				
	-	Lowering IOP			
		Lowering (episcleral venous pressure (EVP)			
		Improving mitochondrial function			
	d.	Increasing diastolic blood flow velocity			
16	Oral su	innlamentation with vitamin R2 (nicotinamida) has been numerted through several			
10.	Oral supplementation with vitamin B3 (nicotinamide) has been purported through several studies to be helpful in the arena of glaucoma primarily by				
		Improving visual function			
		Increasing retinal nerve fiber layer (RNFL) thickness)			
		Lowering IOP			
		Lowering homocysteine levels			
17.	. Homocysteine levels have been shown to be in patients with normotensive glaucoma				
	with respect to patients without glaucoma.				
	a.	Lower			
	b.	Higher			
	C.	•			
	d.	It has not yet been determined			
18.	. Regarding glaucoma as a neurological disease, which of the following is true?				
	a.	No cerebral damage has been demonstrated in glaucoma			
	h	Damage in the lateral geniculate nucleus has been demonstrated in glaucoma			

c. There have been no studies investigating cerebral damage in glaucoma

d. Widespread damage to the frontal cortex has been demonstrated in glaucoma

- 19. Regarding Vitamin B9 (folic acid), which of the following is true?
 - a. Oral supplementation should, in some cases, come before lowering IOP
 - b. Oral supplementation is now standard of care with respect to glaucoma treatment
 - c. Oral supplementation counteracts IOP lowering medications
 - d. It has NOT been demonstrated that oral supplementation should come before lowering IOP.
- 20. Vitamin B9 (folic acid) may be beneficial in normotensive glaucoma by ______.
 - a. Improving homocysteine metabolism, thus lowering homocysteine levels
 - b. Lowering nitric oxide levels
 - c. Decreasing blood flow velocity
 - d. Decreasing high density lipoprotein levels