

Test your knowledge and understanding

This page is designed to help you test your own understanding of the concepts covered in this issue, and to reflect on what you have learnt. We hope that you will also discuss the questions with your colleagues and other members of the eye care team, perhaps in a journal club. To complete the activities online - and get instant feedback - please visit www.cehjournal.org

Consider diabetes and its link to diabetic retinopathy. Which statement is correct?		Select one	
	Diabetes kills fewer people than TB and HIV		
	The risk of developing type 2 diabetes can be reduced by keeping to a healthy weight, taking regular exercise and minimising sugar intake		
	Once diabetic retinopathy occurs, the patient will inevitably go blind		
	If a patient has diabetic retinopathy, they are usually aware of it		
2. Consider diabetic retinopathy in individual patients. Which statement is correct?		Select one	
	Diabetic retinopathy (DR) affects only people with high blood pressure		
	If a patient's diabetes and blood sugar levels are well controlled, there is no risk of DR		i
	Laser treatment will improve vision in people with DR		
	The risk of blindness from DR can be avoided if patients attend hospital appointments as required and accept treatment		
3. Consider diabetic eye disease as a public health problem. Which statement is correct?		Select one	
	Blindness from diabetic retinopathy can be prevented by a screening programme		
	Blindness from diabetic retinopathy is mostly linked with patients unable to afford services		
	The risk of blindness from diabetic retinopathy can be reduced through early detection and treatment		
	Blindness from diabetic retinopathy occurs mostly in high-income countries		
4. Consider the prevention of diabetic eye disease in your district. Which of the following is essential?		Select one	
	Good links with other health workers involved in caring for patients with diabetes (e.g., physicians, diabetes nurses)		1
	A community-based survey to determine the number of people with diabetes in your country		
	A national diabetic retinopathy screening programme		
	Enough ophthalmologists to examine every patient with diabetes at least once every year		
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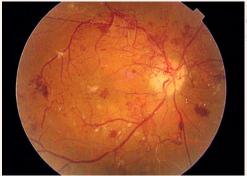
most advanced retinopathy, but a screening programme may use photographers or other health care and cheaper than a national programme. Ophthalmologists may be needed to examine patients with the Correct answer: a. The support of other health workers is essential. The number of people with diabetes can be estimated from the global atlas of diabetes. Local, district-level programmes are simpler.

- effective treatment. Affordability is not the only challenge. Awareness of, access to, and availability of services are also required to prevent blindness. Blindness caused by DR is increasingly common in low-income countries. alone will not prevent blindness. There must be a referral network to confirm the diagnosis and to deliver 3 Correct answer: c. Both detection and treatment are needed to reduce the risk of blindness. Screening
- used to prevent the development of proliferative retinopathy or to treat diabetic macular oedema.) good now. Laser treatment can stabilise the vision, but usually does not improve it. (Laser treatment may be not eliminate it. Complications may also be the result of poor control in previous years, even if control is to reduce the risk of diabetic retinopathy. Blood glucose control reduces the risk of complications, but does levels are the most important risk factors. Good control of blood pressure is, however, also very important Anyone with diabetes can develop diabetic eye disease. The duration of diabetes and high blood glucose it causes visual loss. Lifestyle changes can reduce, but not eliminate, the risk of complications.

2 Correct answer: d. By regularly attending appointments, DR can be detected early and treated before matic in its early stages.

treated promptly, blindness can be prevented in almost all cases. Diabetic retinopathy is usually asympto-Diabetes kills more people than TB, malaria, and HIV put together. If diabetic retinopathy is diagnosed and . Tocitose. 'Josephan ot amily, aurilio 🚶 1 Correct answer: b. The risk cannot be abolished by a healthy lifestyle, but it can be greatly reduced.

Picture quiz



45-year-old man presents with blurring of vision n his good eye. The other eye has only light erception with a traction retinal detachment.

- 1. What is the most likely diagnosis?
- a. Papilloedema due to a brain tumour
- b. Proliferative diabetic retinopathy
 - c. Hypertensive retinopathy
- d. Coat's disease
 - e. Non-proliferative diabetic retinopathy
- 2. Which of the following clinical signs are present?
- a. Vitreous haemorrhage
- b. Neovascularisation of the retina
- c. Retinal haemorrhages
- d. Retinal hard exudates
 - e. Retinal "cotton wool spots"

here may be more than one correct answer.

- 23. What treatments might be useful in managing his condition?
- a. Pattern laser treatment to the macular area
- b. Peripheral retinal photocoagulation c. Investigation of papilloedema
- d. Watch and review in 3 months
 - e. Anti-vascular endothelial growth factor
 - intra-vitreal injections

needs to be done as soon as possible. retinal photocoagulation (laser treatment). This available. The treatment of PDR is peripheral

3. Answer b or possibly e if laser is not

iscnaemia.

neovascularisation (new vessels) indicating retinal there are cotton-wool spots and widespread In addition to haemorrhages and hard exudates,

2. Answer b, c, d and e.

due to old PDR.

(PDR). The traction RD in the fellow eye is probably This is severe proliferative diabetic retinopathy

1. Answer b.

REFLECTIVE LEARNING

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