Clinical Quiz Answers

(See page 40)

<u> </u>	Q1	(a), (b), and (f). Enzyme inducing anti-epileptic drugs such as carbamazepine, phenytoin
Part		and topiramate increase the activity of hepatic cytochrome enzyme P450, which
one		Increases the metabolism of oestrogen and progestogen. This reduces the hormone blood levels and can cause contraceptive failure when the woman is using oral
		contraception and progestogen implants. If you don't want to change her
		medication when she starts hormonal contraception then you can improve the success
		rate by increasing the oestrogen dose (to 50 or 70 micrograms), by advising her to 'tri-
		shorten the monthly break to four days.
·	Q2	(c), (e). Non-enzyme inducers are the drug of choice as they do not affect blood levels of
Part		oestrogen or progestogen. They include clobazam, levetiracetam, lamotrigine and sodium
two		of depot hormone injections and hormone-releasing intrauterine devices, so they may
		also fail if used with an enzyme-inducing oral anti-epileptic drug.
	Q3	(c). There is a mass of information on foetal malformation risk from anti-epilepsy drugs
Part		have shown that sodium valproate carries a foetal malformation rate of between 4.7%
three		and 10%, with topiramate (4.2% to 7.7%), phenobarbital (5.5% to 7.4%), and phenytoin
		(2.9% to 6.7%) not far behind. Women taking valproate should be advised to change to a
		a neurologist.
	Q4	(a), (b), (c), (e), and (f). Apart from (d) (see answer to Q3), all the other answers are
Part		options. Any change in her anti-epilepsy medication should be undertaken with great
four		vears in her drug management and in her ability to operate machinery or drive a car.
		That matters greatly for a nurse. Lamotrigine (2.0% to 3.4%) and levetiracetam (0% to
		2.4%) and oxcarbazepine (1.8% to 3.3%) were the drugs least reported as causing foetal
		malformations when prescribed during pregnancy.

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