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Romolo M Dorizzi



TDM e farmaci anticomiziali vecchi

Sesto Convegno di Studio Lab Automation and Medical Decision Making e nuovi

Villalta-Gazzo Padovano (PD) 7 ottobre 2005

Lancet 1975; ii: 265-7

The danger arises of <u>treating</u> <u>the blood level</u> rather than the patient, so that the dose is adjusted not to the patient's clinical need, but in order to achieve the



"therapeutic level"

JAMA

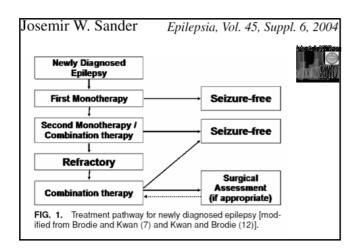
1995; 274: 1622-6

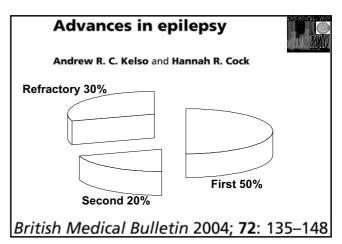
- 27% (24% to 30%) of levels had an appropriate indication
- No significant difference in the appropriateness rate among the four drugs
- Only 4 out 624 (0.6%) levels considered inappropriate were more than 20% higher than the upper limit of normal,
- <u>None</u> of the four patients had clinical signs of drug toxicity



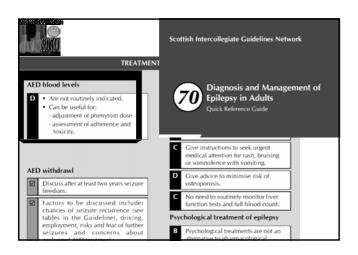
Generalized: seizures begin simultaneously in both hemispheres, strong genetic component, neurologic function is normal in most.

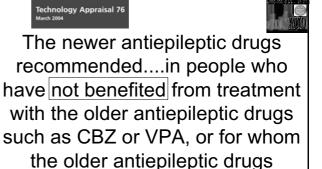
Partial: seizures originate in one or more localized foci, can spread to involve the entire brain, may result from CNS insults





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are <u>unsuitable</u> because:

Technology Appraisal 76 March 2004



- there are <u>contraindications</u> to drugs
- they could <u>interact</u> with other drugs the person is taking contraceptives)
- they are already known to be <u>poorly tolerated</u> by the individual
- the person is a woman of childbearing potential

NHS
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| | AAN Guideline Summary for CLINICIANS. EFFICACY AND TOLERABILITY OF THE NEW ANTIEPILEPTIC DRUGS, I: TREATMENT OF NEW ONSET EPILEPSY | |
|-------------------------------|---|-------------------|
| AED | Monotherapy Partial/Mixed | Diagnosed Absence |
| Gabapentin | Yes** | No |
| Lamotrigine | Yes** | Yes** |
| Levetiracetam | No | No |
| Oxcarbazepine | Yes | No |
| Tiagabine | No | No |
| Topiramate | Yes** | No |
| Zonisamide | No | No |
| AMERICAN ACADEMY OF NEUROLOGY | 1 | |

Is There a Role for Therapeutic Drug Monitoring of New Anticonvulsants?

Emilio Perucca Clin Pharmacokinet 2000 Mar; 38 (3): 191-204

However, in the absence on sound information on the target concentration ranges of these drugs, the routine concentration monitoring of these drugs cannot be recommended.

Is There a Role for Therapeutic Drug Monitoring of New Anticonvulsants?

Emilio Perucca Clin Pharmacokinet 2000 Mar; 38 (3): 191-204

a case for applying TDM of these drugs in individual patients can still be made