



TABLE I. OBSERVATIONS ON 21 PATIENTS TREATED WITH 'TRINURIDE'

Case	Sex	Age	Nature of attacks	Duration of epilepsy		Average monthly no. of major attacks before 'trinuride' therapy*	Average monthly no. of major attacks on 'trinuride' therapy	Daily no. of 'trinuride' tablets	Results
				More than 5 years	Less than 5 years				
1	F	24	Temporal lobe .. .. .		+	—	—	3	Markedly improved
2	M	39	Temporal lobe .. .. .	+		8	5	3	Markedly improved
3	M	31	Grand mal .. .. .	+		6	3	4	Improved
4	F	26	Temporal lobe .. .. .		+	5	8	4	Worse
5	M	19	Grand and petit mal .. .. .		+	5	Discont.	3	Worse
6	M	41	Temporal lobe .. .. .	+		—	—	4	No change
7	M	23	Grand mal .. .. .		+	5	1	5	Markedly improved
8	M	25	Grand mal .. .. .		+	5	2	4	Markedly improved
9	F	37	Temporal lobe .. .. .	+		4.5	0	4	Markedly improved
10	M	44	Temporal lobe .. .. .	+		—	—	3	Markedly improved
11	M	43	Grand mal .. .. .	+		10	9	4	No change
12	M	51	Grand mal .. .. .	+		5	Discont.	4	Worse
13	M	29	Grand mal .. .. .		+	5	6	4	No change
14	F	27	Temporal lobe .. .. .		+	—	—	3	Markedly improved
15	F	55	Grand mal .. .. .	+		5	1.5	4	Markedly improved
16	M	29	Temporal (A-V lobe anomaly)	+		2	0.5	5	Markedly improved
17	M	36	Grand mal .. .. .		+	7	1.5	4	Markedly improved
18	F	27	Temporal lobe .. .. .	+		4	1	4	Markedly improved
19	F	49	Grand mal .. .. .	+		5	3	4	Improved
20	M	40	Grand mal .. .. .	+		5	3.5	3	Improved
21	F	49	Grand mal .. .. .	+		5	2	4	Improved

\* Based on the average monthly number of attacks during the 6 months preceding commencement of 'trinuride' therapy.

case is given in Table I. It is important to mention that a daily dose of 4 'trinuride' tablets contains 1 gr. of phenobarbitone.

#### RESULTS

We assessed the 2 groups of general and focal epilepsy separately. In observing the results of treatment we employed 4 categories:

1. *Markedly improved*: Between 75 and 100% reduction in frequency of attacks.
2. *Improved*: Between 25 and 50% reduction in frequency of attacks.
3. *No change*: The same frequency of attacks or only a slight percentage improvement.
4. *Worse*: Increased frequency of attacks.

Thus in the group of generalized epilepsy the analysis was: 4 markedly improved; 4 improved; 2 no change observed; and 2 worse.

In the patients manifesting temporal lobe attacks, the improvement was most satisfactory. Seven patients were markedly improved with considerable lessening in psychic and psychomotor auras and general improvement in behaviour. This designation of marked improvement also applied to the major convulsions to which these cases were subject.

One patient showed no change and one became worse, with aggressive outbursts and increased major attacks.

#### Side-effects

These have been carefully studied by Sharpe, Dutton, and Mirrey.<sup>4</sup> In a series of 32 in-patient mentally defective epileptics, they made routine blood counts, liver-function studies, urinary analysis, and blood-urea estimations. They stated that 'trinuride' had no deleterious effect on the haemopoietic system. Liver-function tests did not reveal any gross changes, and the urine, apart from traces of glucose and albumin, was normal.

We did not observe any clinical side-effects although routine laboratory studies were not regularly performed.

Slight excitability, however, occurred in 2 patients, insomnia was complained of by another, and 1 patient with temporal lobe epilepsy became psychotic. Two other patients exhibited ataxia and incoordination which disappeared on lowering the dose of 'trinuride'.

#### DISCUSSION

Analysis of the results of this study show that 'trinuride' possesses marked anticonvulsant properties effective in *grand mal* and particularly in temporal lobe epilepsy. Thus we found that 8 of the 12 patients with severe generalized epilepsy were improved. Even more gratifying improvement was noted in the behaviour patterns and severity of major convulsions among the group manifesting temporal lobe disturbances.

Similar observations on general behaviour and mental state have been recorded by Ruggeri,<sup>5</sup> but were not seen by Sharpe, Dutton, and Mirrey.<sup>4</sup> This may have been due to the fact that these patients were certified mentally defective with very low IQ's. We feel that this drug is certainly worth further study since it appears to have considerable anticonvulsant properties when used in the treatment of clinical epilepsy.

#### CONCLUSION

'Trinuride' was given to 21 adult epileptic patients attending the Neurological Clinic of the Western Infirmary. Eight patients with generalized epilepsy were improved with the medication. In 6 out of 8 patients with severe temporal-lobe seizures there was a most gratifying response. Providing that the drug is carefully administered in the transition period, it is easy to handle and remarkably free from complications. There were few side-effects in this limited series.

#### REFERENCES

1. Frommel, E. *et al.* (1953): *Arch. Int. Pharmacodyn.*, **92**, 368.
2. Sorel, L. and de Smedt, R. (1953): *Acta neurol. belg.*, **8**, 531.
3. Furtado, D. (1955): *J. de Medico*, **28**, 727.
4. Sharpe, D. S., Dutton, G. and Mirrey, J. R. (1958): *J. Ment. Sci.*, **104**, 436.
5. Ruggeri, R. L. D. (1952): *Riv. sper. Freniat.*, **76**, 4.