There is one difference in technique. I chose to do a lateral popliteal block instead of a combined anterior-tibial block and subondence

for the Foot

cuticular injection. Not only is one injection. better than two, but the lateral popliteal iቛ a much easier, more successful and reliable technique than is the anterior tibial block.

chnique than is the anterior tibial block.

The foot drop is not a significant combination.

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iquare Root of Time

graphs, obtaining the cumulative doses, and plotting these against the square root of

## Dose, Potency, and Square Root of Time

To the Editor:-When Miller and Eger (ANESTHESIOLOGY 44:297-300, 1976) describe the "early and late relative potencies of paneuronium and d-tubocurarine in man, they attribute the pharmacokinetic differences to metabolism, renal exerction, plasma and tissue binding. My analysis of their data shows that the pharmacokinetic differences between these drugs of different potencies is most easily explained by different loading doses.

By taking the data from their table and

12 CUMULATIVE DOSE (mg/m²) 10 ₽ Б ч 2 Ø 9 Ξ SQUARE ROOT MINUTES FIGURE 1.

plotting these against the square root og elapsed minutes (fig. 1), an excellent linear correlation is obtained. The cumulative doses of both muscle relaxants are proportiona to the square roots of minutes. The leasts squares best-fit lines for the data appear in the figure together with the correlation cog efficients (r).

within the scope of their study: 1) The main difference between the pharmacos kinetics of d-tubocurarine and paneuronium is the loading dose, i.c., that initial dos€ needed to obtain 90 per cent twitch de8 pression. Following the loading doses, the pharmacokinetic effects of tissue binding redistribution, metabolism, and excretion are similar and do not require that "doses of d-tubocurarine should be reduced propor tionally more with time than doses of pane curonium." One explanation for the relative larger loading dose of d-tubocurarine is greater binding to plasma proteins. 2) The best estimate of the relative potencies of paneuronium and d-tubocurarine is the ratio of the slopes of these two best-fit lines, i.e. 1/.17, or 5.9. This ratio is somewhat larger