

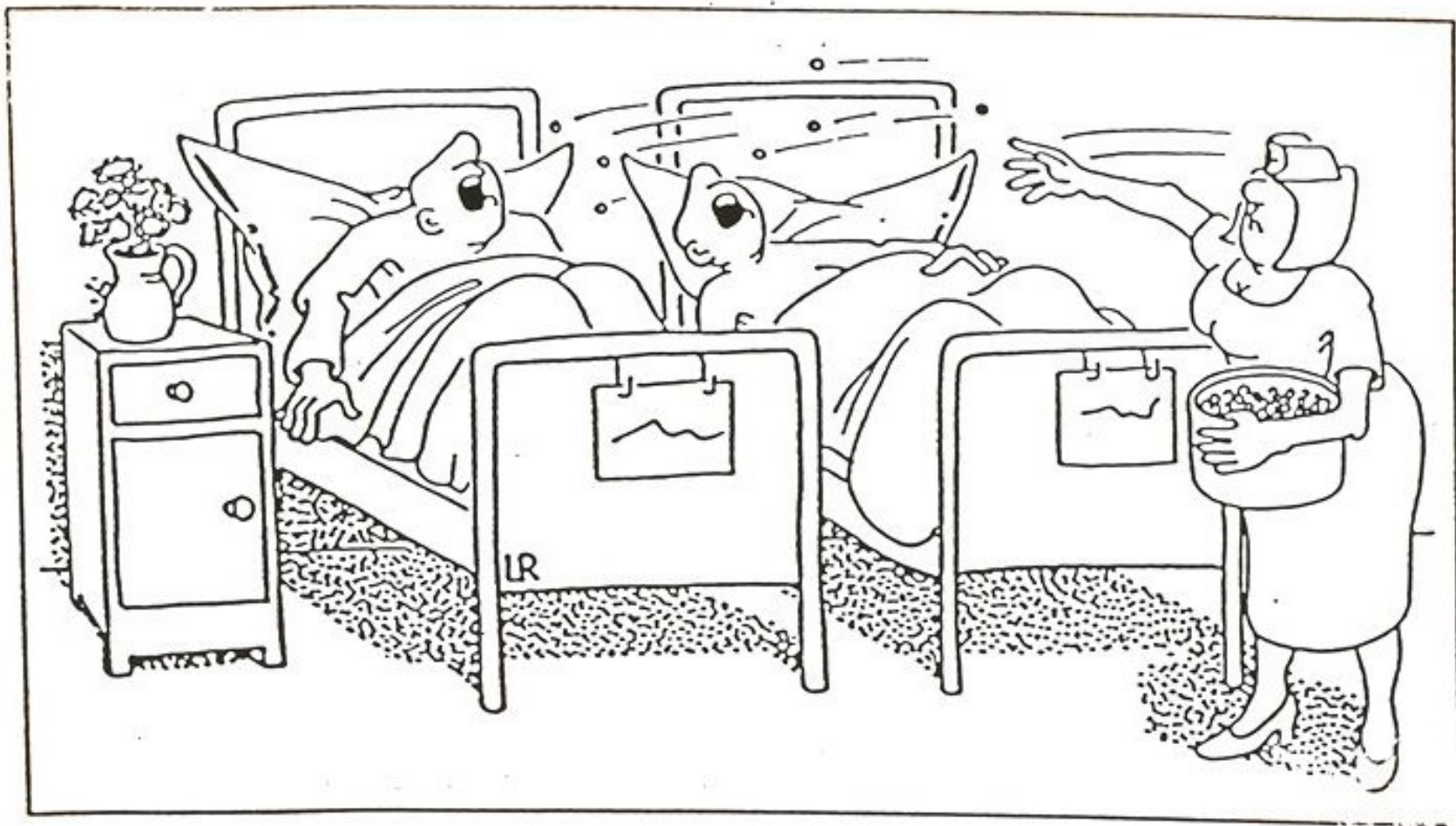
INTRODUCTION TO BASIC PHARMACOKINETICS, AND INDIVIDUALIZATION OF DRUG THERAPY

Roger W. Jelliffe, M.D.

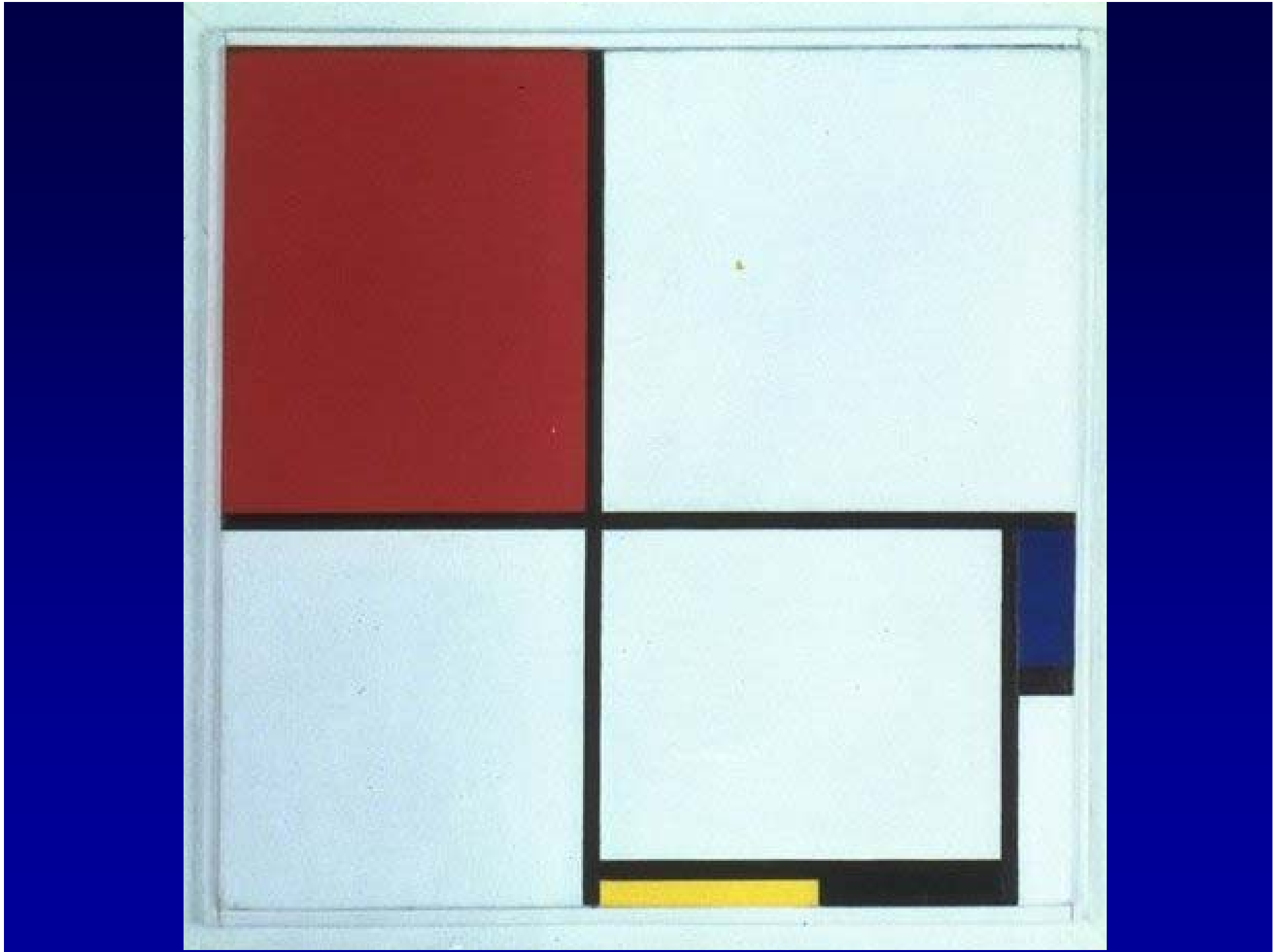
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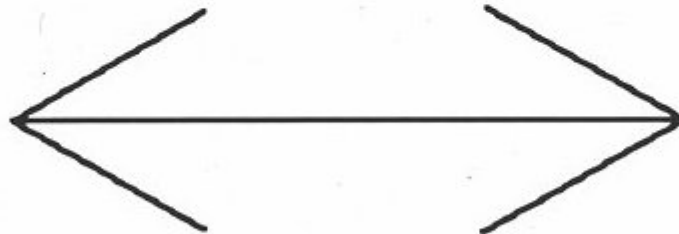


Pilule et épidémiologie.





THE EYEBALL FIXES



THE ILLUSION



Amount, Rate Constant, Half-Time

$$1) \quad \frac{dA_t}{dt} = -kA_t$$

$$2) \quad A_t = A_0 e^{-kt}$$

$$3) \quad \frac{A_t}{A_0} = e^{-kt}$$

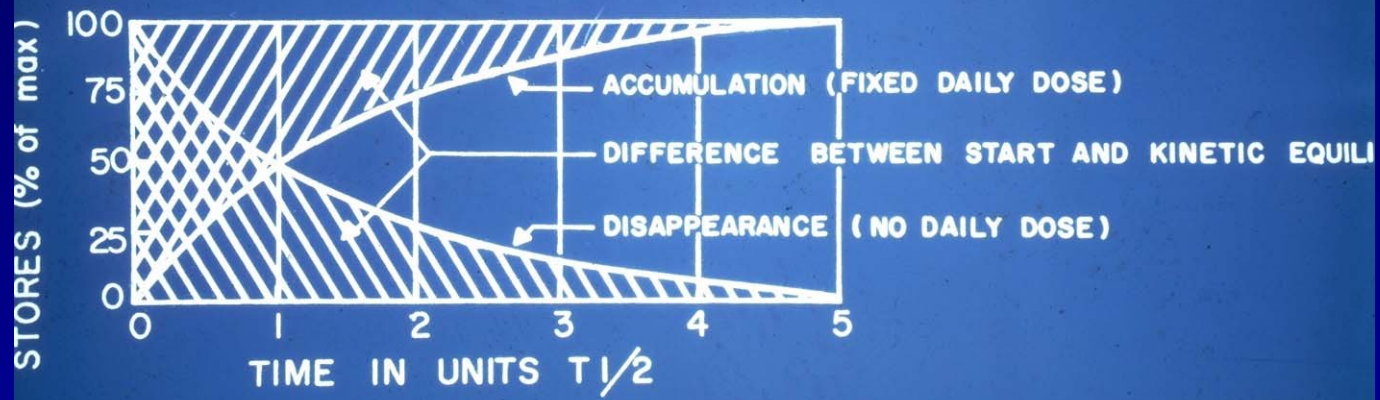
$$4) \quad .5 = e^{-kt\frac{1}{2}}$$

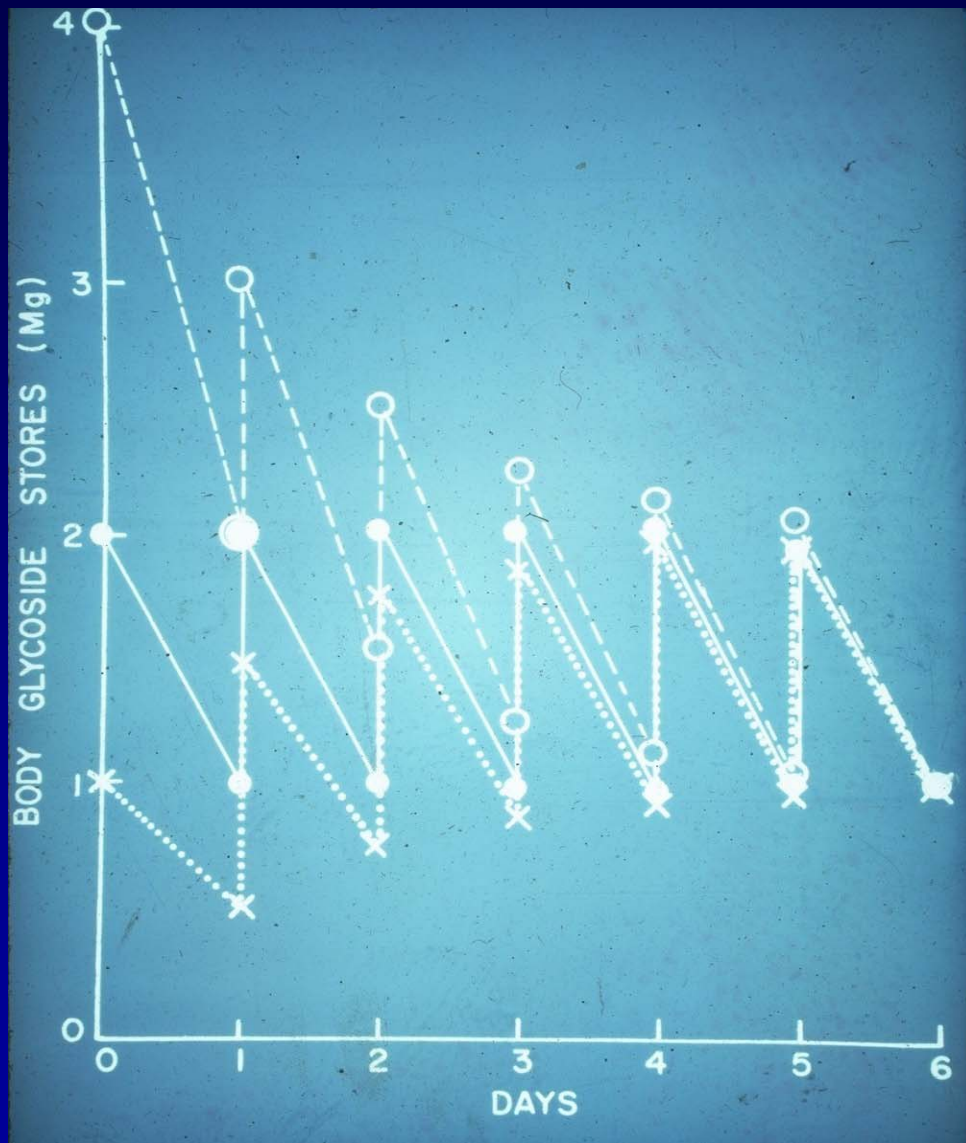
$$5) \quad \ln(.5) = -kt\frac{1}{2}$$

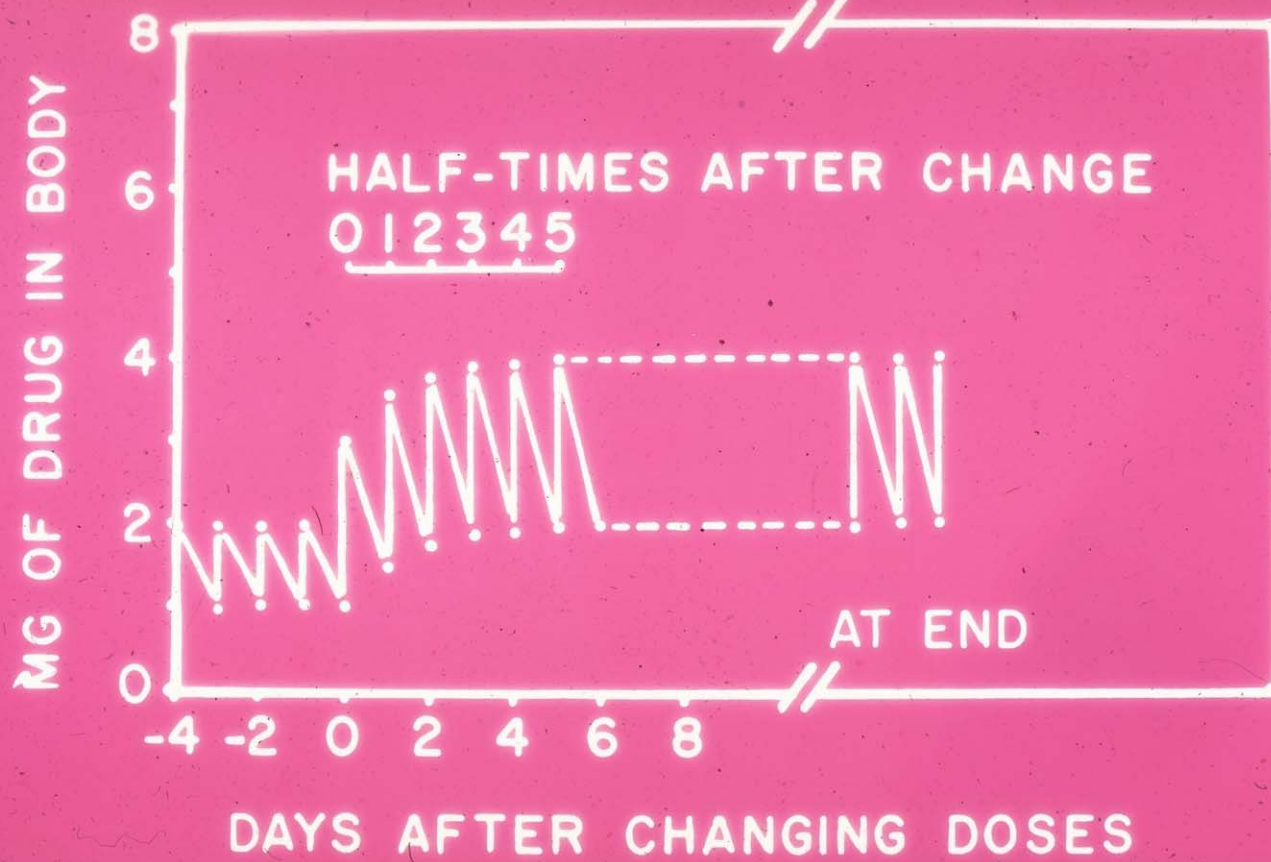
$$6) \quad \frac{\ln(.5)}{t\frac{1}{2}} = -k$$

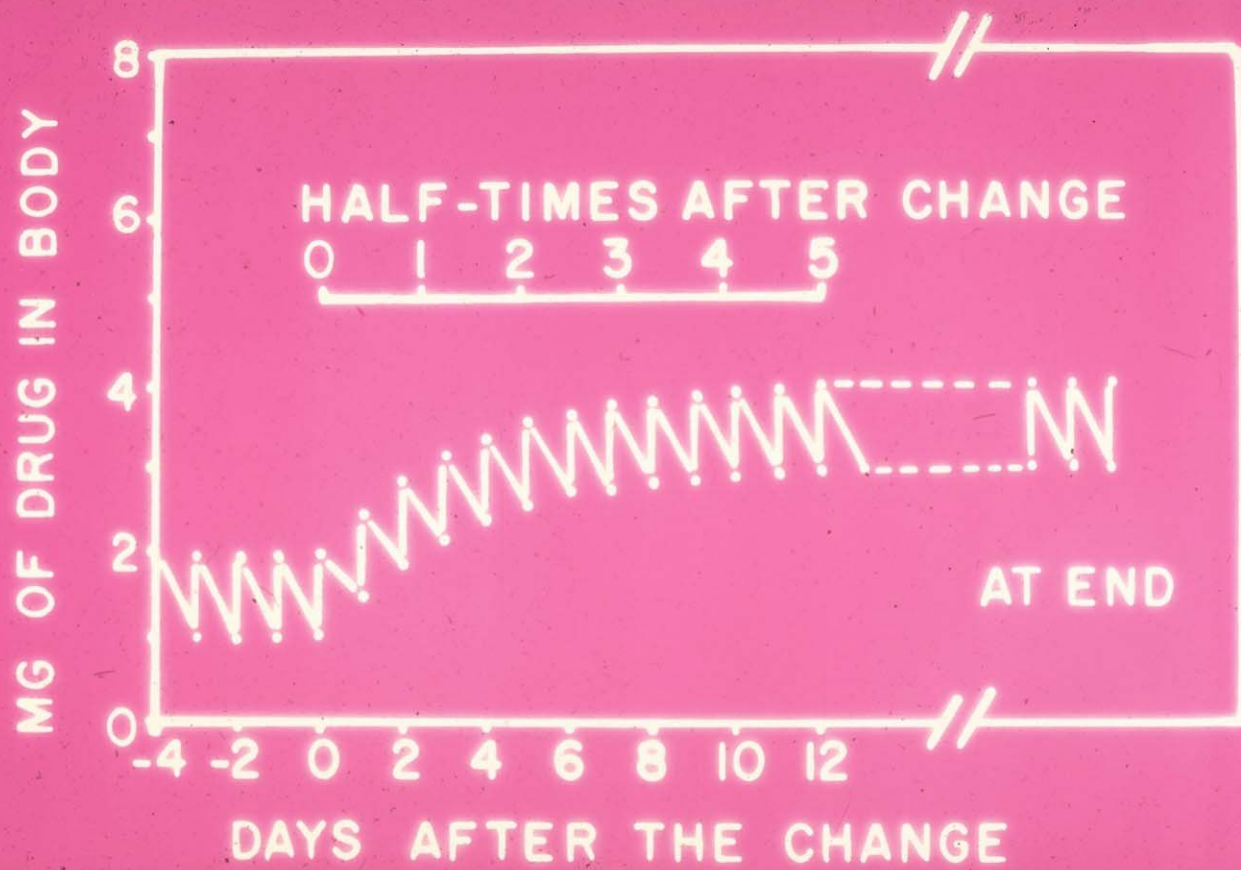
$$7) \quad \frac{-.693}{t\frac{1}{2}} = -k$$

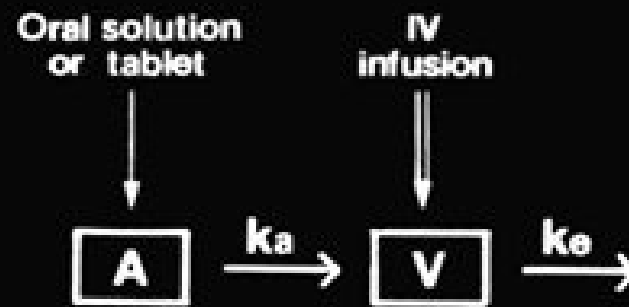
$$8) \quad \frac{\ln(.5)}{-k} = t\frac{1}{2} = \frac{\ln(2)}{k}$$



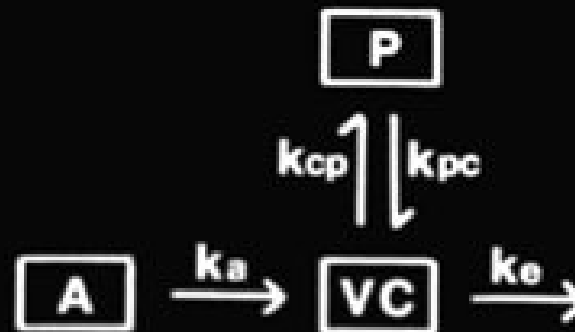








One-Compartment Absorptive Model



**Absorptive Model with
One Peripheral Compartment**

PERCENT RESPONSE, OR
EXPECTATION OF EFFECT

