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~~W~~ LSD No.196 (§102a)

BOL No.10 (§91c)

M 500 Properties of LSD

M 502 Antagonism of BOL to

M 377 Psychotic effect of LSD

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Prevention of psychological effects of d-lysergic acid diethylamide (LSD 25) by its 2-brom derivative (BOL 148).

Nature 178, 210 (1956).

In view of the blocking effect often exerted by the close chemical analogue of a pharmacologically specific agent, we tried to determine whether the psychological symptoms induced by d-lysergic acid diethylamide (LSD 25) could be influenced by one of its psychologically inactive derivatives. The 2-brom derivative of LSD 25 (BOL 148) exerts no psychological effects¹.

Six volunteers who showed definite mental symptoms when given 50 or 75 µgm. LSD 25 in the preceding control experiment were pretreated with 2-3 mgm. BOL 148 by mouth daily for one or two days. On the day of the experiment they received

one further mgm. BOL 148 1-3 hr. before LSD 25 (50-75 µgm.) was administered. Psychological symptoms were completely absent in those three cases who received two days pretreatment with BOL 148, and reduced to abortive and short-lasting changes in the other three cases who were treated only on the day preceding the experiment. The latter showed some subjective difficulty in concentration only, which could not be established objectively. In all cases, euphoria, depersonalization and all marked sensory symptoms observed in the control experiment did not appear.

In contrast, 0.5 mgm. or 1.0 mgm. BOL 148 injected intravenously in another four volunteers at the height of LSD 25 symptoms did not produce any noticeable or persistent changes in the symptoms of the LSD intoxication.

The fact that a substance closely related to LSD 25 can block the mental disturbances induced by it may throw some light on the mode of action of the drug.

We are indebted to Dr. H. Holgate, of Messrs. Sandoz Products, Ltd., for a generous supply of drugs LSD 25 and BOL 148.

COMMENT: Cf. CERLETTI & ROTHLIN, BOL No.3/LSD No.120, Report 53 II/2

w7 (E 10'079) #64
Dr.Ba/ev 856