

THE BLACK VAULT

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7 March 1960

Dr. R. Bircher Sandoz Pharmaceuticals, Inc. Hanover, New Jersey

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Dear Dr. Bircher:

We have just finished a preliminary assay of the relative potencies of a single dose of LSD-25, 1.5 mcg/kg, and of psilocybin, 210 mcg/kg, on 10 new human subjects, and I thought you might be interested in the results.

As the enclosed table shows, there were no significant differences with respect to any of the measures employed (see previous correspondence for methods), although in 5 of the 7 measures, the effects of LSD-25 were slightly stronger. This trend, I believe, is due to the longer duration of action of LSD-25, with consequent augmentation of the differences-hours values ("areas under the curves"). Clinically, there appears to be no real difference between the peak effects of the two drugs in these dosages, the similarity extending even to the incidence of "true" hallucinations and depersonalization, confirming Dr. Isbell's observations with lower doses of psilocybin.

We have now commenced the new cross-tolerance study, on 9 subjects (one dropped out), in which we will use 1.5 mcg/kg of LSD-25 and 210 mcg/kg of psilocybin as control, test and challenging doses, and increase the period of chronic intoxication on each of these drugs to 12 days. Barring unforeseen delays, the study should be finished by May 10, and I hope that shortly thereafter I will be able to send you a summary of the results.

With best personal regards,

Sincerely,

Abraham Wikler, M.D.

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Acting Director

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Enclosure

B-309

Study 67-C

Pealininary Assay of Relative Potency

150-25, 1.5 mcg/kg vo. Pattocybin, 210 mcg/kg

(N = 10)

Mazoura	Difference in Response	t	2
Tamperature	- 0.46 1 0.40	1.65	> 0 10
Pules Rate	+ 25.55 ± 11.50	2.13	> 0,05
Blood Fresoure	+ 35.50 ± 22.81	1.55	> 0, 10
Pupiliary Siza	+ 2.23 ± 1.20	1,65	> 0,05
Rass Jerk	+ 24.63 ± 29.86	6.82	> C. 20
Responses to Questionnaire	+ 9.70 ± 10.74	0.\$3	> 0,30
Glinical Grade	- 0.05 2 0.21	C.23	> 0,50

Figures represent mean differences i standard errors of the mean differences in response to a single does of LSD-25 and a chapte does of pallegybin, the end pie. Them of the differences are dignificant.

+, indicates LSD-25 stronger in effect than pellocyble.
-, indicates pellocyble stronger in offect than LCD-25.

Hote: For every physiological variable and in every subject, directled of change produced by LED-25 and pollogybin were the change vinte.

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Pulou Pato - acceleration
Dior d Procure - plousition
Populationy Sine - dibotation
And Jone - Sali in Chrochold

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