

# **EXHIBIT 21**

BB  
pte  
LSD

514

VETERANS ADMINISTRATION STUDIES  
ON  
LYSERGIC ACID DIETHYLAMIDE (LSD)

A number of inquiries have concerned the VA's past involvement in LSD research. Because this research was conducted in a period antedating the Research and Development Information System (RDIS), our computerized data base, it is impossible to reconstruct the precise number of patients involved in LSD research, all of the medical centers where such research was conducted, or the specific research questions that were investigated. However, the major facts about the research are presented below.

When

LSD studies were conducted within the VA between the mid-1950's and the mid-1970's. We are aware of no studies after that time.

How Many

About 50 studies were conducted by VA investigators, and about 40 of these involved human subjects. From our records, we estimate that approximately 1,400 persons, most of them patients, were involved in the studies. Many of these studies were conducted at the VAMC Topeka, Kansas.

With What Safeguards

As is true for all VA researchers, LSD investigators were required to submit protocols to the facility Research and Development Committee for evaluation of their scientific merit and adequacy of protection of the safety and rights of the subjects. Subjects were evaluated carefully (in regard to medical and psychological functioning) prior to research participation and after taking LSD. Over half of the research subjects were evaluated 5 years after the LSD experience.

Why

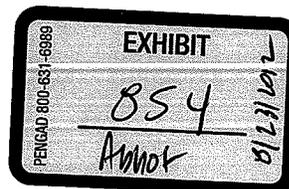
The most common research interest was in evaluating the efficacy of LSD in treating severe chronic alcoholics or in laying the groundwork (through basic research) for conducting such evaluations.

With What Results

Most studies found that LSD was not an efficacious drug in the treatment of alcohol dependence. This finding, plus a growing public concern about and distaste for LSD, probably accounts for the termination of this type of research within the VA.

Although there was little evidence for positive effects of LSD, there was also no evidence of adverse long-term effects. Because most of the studies included long-term patient follow-up, such adverse effects would have been observable had they occurred.

15 - 3/3/83



DVA135 000063