C00149514

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TAKEN FROM [redacted] FILE A/B, 5, 67/2

C

[redacted] psychiatrist at the [redacted]

[redacted] appeared to have an unusual degree of knowledge and interest in chemistry, for a psychiatrist. His main interests in the gen'l field under discussion are inhibitors of glucose combustion & acetyl choline esterase inhibitors.

[redacted] said that thiaminase had been suggested as a glucose combustion inhibitor. (Review: Yudkim, Physiol. Rev., 29, 389 (1949) ). However, it is improbable that thiaminase could be developed into a good covert weapon. Since it is a protein, it is ineffective if given by mouth; it must be injected or inhaled. [redacted] felt that the amt. required to effect a person with adequate diet would be rather large for optimum value as a covert weapon. Anti-thiamin compounds were discussed, but they do not seem too promising as covert weapons because of the comparative large amts. which would probably be required to produce a noticeable effect on an individual with an adequate diet.

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[redacted] mentioned radioactive ascorbic acid. It may be effectively given by mouth, injection, or inhaled, and it tends to be concentrated in glandular tissue. [redacted] indicated that a very small amt. of the material would produce destruction of the adrenal cortex. Even a slight damage to the adrenal cortex would produce symptoms characteristic of Addisons disease--disturbances in sodium and potassium metabolism and in glucose metabolism. Severe Addisons disease, if not properly treated, will result in death.

C

[redacted] have the names of several individuals who are active in this general field:

B-B16

[redacted]

C

[redacted] felt that sedatives such as barbiturates are about as good as anything he knows as interrogation aids. He thought alcohol was about as good. He felt choline esterase inhibitors should be invest. as antipolygraph aids.

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TAKEN FROM [redacted] FILE

He said various shock treatments are effective in producing amnesia. Insulin shock is not effective. Metrozol shock is effective, but it is a sloppy method when used in actual practice. He thought several repeated electroshock treatments given in one day most satisfactory procedure. He said the Japanese used ordinary 110 volt alternating current in psychiatric practice during the war with apparently satisfactory results. He said alternating current produces more confusion than does rectified alternating current, and a square wave rectified current produces the least confusion. There is a discussion of this in a recent issue of the Bulletin of Math. Biophysics.

Polysaccharide or protein, trade name, "Pyromen". A dose of 1 or 2mg gives a fever of less than a degree, but a ten-fold increase in dose would produce a definite elevation in body temperature. Although the chemical nature of this material would indicate it would not be effective if given orally, it should be effective as an aerosol.

A [redacted] 21 Feb 52, [redacted]

[redacted] C A/B, V, 108, 1

[redacted] has devoted most of his life to the study of curare alkaloids. He has spent a number of years in the [redacted] region of [redacted] where he studied native uses of curare and learned native methods of purifying the crude material. In this country he developed a method of obtaining pure d-tubocurarine chloride from the crude material. He has set up the [redacted] in order to mfg. d-tubocurarine chloride. He controls all steps in the mfg. of the product. Most of his product is sold to pharm. houses, and he apparently makes the highest grade of purified curare alkaloid produced in this country. C

At the present time the company has four full-time employees plus a variable number of part-time student employees. The average monthly output of d-tubocurarine chloride is 3.5 kilograms.

Research proposals for medical applications:

1) Long-acting curare preparation for self-admin.
2) Curare preparation for field nerve gas protection

[redacted] mentioned these men as being acquainted with his work and the general field: (a) C

[redacted]

Ideas on covert use: a. partially purified curare is used successfully by [redacted] Au natives to kill game and enemies.

b. Very finely divided crude curare (preferably of the strychnos type) plus a nasal irritant had an almost paralyzing effect when released as an aerosol or powder. c. The crude material contains toxiferone compounds which are extremely toxic. However, developing toxiferone compounds for covert use would be comparatively difficult because of the time and work it would take to extract identify, and test individual toxiferone compounds. d. Partially purified crude curare would be easy to obtain & have possibilities for covert uses. It is more potent than pure d-tubocurarine chloride. It has both the d-tubocurarine chloride properties and what are usually considered undesirable side effects for curare used in medicine. These additional effects involve histamine-like reactions. This material plus a nasal irritant should have an immediate powerful effect in small amounts, when released as an aerosol or powder. If would be very effective if introduced within the body by a dart, etc. It has little or no effect if it gets into a small break in the skin or if taken orally.

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[redacted]