November 22, 1972

Alan Ramsey, M.D.
Medical Consultant
National Institute of Mental Health
5600 Fishers Lane
Rockville, Maryland 20852

Dear Dr. Ramsey:

Under the terms of contract HSM 42-72-207, the following studies are in progress.

(1) Haloperidol. Twenty-four opiate dependent men have been withdrawn from heroin using decreasing doses of methadone and placed on either haloperidol 10 mg or placebo. Both groups have been given 4 mg of benzotropine with each dose of active drug or placebo. The methods of evaluation set forth in the contract are being used. The remaining subjects have received medication for two months or longer. An evaluation will be available in February - March, 1973.

(2) Naloxone pamoate. The dose-duration of antagonism study was completed in early September. We defined a maximum duration of 60 hours for 6 cc parenteral. A copy of that report was sent to you, and submitted to *Clin. Pharm. Therap.*

(3) Cyclazocine. The high dose study is continuing the definition of acceptability, tolerance, and duration of antagonism to heroin. We summarized the data of 20 mg oral, noting blockade to 25 mg heroin for 72 hours. A copy of that report is enclosed.

(4) EN 1639 (naltrexone). We provided a protocol for the study of this compound and filed an IND application for the FDA on October 25, this was registered as received on November 10, 1972.

Additional details of our operation were provided in your extensive site-visit of October 24.

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You may also be interested in parallel studies now in progress in the Division:

a. Diprenorphine. We are cooperating with the City of New York in defining annual toxicology studies, which should be completed by the end of the year.

b. Levomethadyl. We completed a second study of levomethadyl and confirmed our earlier report that 80 mg was effective for 72 hours, allowing a t.i.w. dosage schedule.

Sincerely yours,

Max Fink, M.D.
Professor of Psychiatry

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