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FROM: JCS/Major Reynolds

SUBJECT: Progress Report - Project I-38 (71)
"The Radioimmunoassay of Human Thyrotrophin (TSH)"TO: John J. McPhaul, Jr., Col, USAF, MC
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The progress on this project has been satisfactory. In three (3) months we have completed about 30% of the project. No unexpected problems have been encountered and there have been no significant changes in the protocol plans. There have been no resultant publications or presentations from this work. We have expended about 24 man hours/week divided between technicians and researchers.

The work completed to far includes:

1. The establishment of a standard curve for human TSH and the titration of standard 68/38 against the Human Research Standard A.
2. Radio-iodination of purified human TSH.
3. Establishment of Identity between patient TSH and Human Research Standard A.

Significant Details to yet be completed:

1. Increase sensitivity of assay from 3-4 uU/ml to 1.5 uU/ml.
2. Establishment of normal values relating total serum thyroxine to serum TSH. (already about 400 specimens have been collected to implement this phase.)
3. Apply the assay to specimens from patients included in the study on treatment of thyrotoxicosis.

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