

A/B, VII, 1, 1

To: [REDACTED]

Date: 30 October 1951

Via: [REDACTED]

Subject: Hypo-spray, Ampules, etc., request for

1. Sometime ago, this office forwarded to [REDACTED] a number of documents for his examination and study. Among these documents was one in which information was requested (along with possible purchase) of hypo-spray, ampules, etc. for future use by Bluebird teams. In view of the fact that a possibility exists for a special trip by Bluebird personnel in the near future, this information again becomes pertinent. A

2. It is, therefore, respectfully requested that your office, through all possible channels, obtain information concerning the latest use of the hypo-spray instrument and related devices, including possibility of dosages of interest to Bluebird. In addition, it is also requested that you obtain for Bluebird use hypo-spray instruments, ampules, etc. with the necessary instructions for their use.

3. In the original memorandum referred to in my first paragraph, I believe I set forth some basic information on the hypo-spray which may be of assistance in this matter.

4. While nothing definite has been determined as to a possible Bluebird trip, it is obvious that one is under consideration and I have recently been informed by [REDACTED] that the services of an H.D. have been made available in the event a trip is made. We will, of course, keep you informed as details are given to us. A

[REDACTED] A

[REDACTED]

Office Memorandum • UNITED STATES GOVERNMENT

TO  
Via  
FROM



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DATE: 14 December 1951

A/B, VII, 1, 4

SUBJECT: Hypo-Spray, Ampoules, Etc.

1. In line with recent conversations between members of this staff and the medical officer assigned to the "Artichoke" work, it would appear from a medical point of view, that hypo-spray, at least in its present condition and using presently known types of chemicals or drugs, is not an effective instrument for the "Artichoke" work. Nevertheless, because of its convenience, the standardization, and certain other factors, it is felt that every effort should be made to determine whether or not a hypo-spray or a variation thereof could be used in connection with "Artichoke".

2. As we understand it, at the present time there is no drug or chemical that could successfully be used by the present hypo-spray instruments for the obtaining of a twilight sleep condition. The hypo-spray is, at present, capable only of an intramuscular injection and we have no knowledge of hypo-spray being used intravenously. Furthermore, such drugs as we are familiar with are not effective when used intramuscularly and are at their best either used orally or by a method of venipuncture.

3. However, the writer believes a possibility exists that at present, hypo-spray instruments could be used for the injection of caffeine, picrotoxin, or possibly benzodrine though we have no literature or information to support this belief.

4. Along with this current thinking, it is felt that your office could, through your liaison channels, have experts carefully go over the entire hypo-spray problem both as to chemicals for use in the ampoules and the designing of special type, light weight instruments possibly shaped like a fountainpen or pencil that might be used to gain quick control along "Artichoke" lines.

5. While we have no specific information of new chemicals or drugs that could be used in these hypo-sprays, it is, nevertheless, felt that a strong possibility exists that a chemical or drug could be found which could successfully be used in a hypo-spray type of injection that would assist us in obtaining the necessary control.

6. The development of such an instrument as mentioned above and the co-development of chemicals along these lines that could be administered by an average agent in the field with some degree of certainty, would be of tremendous advantage as you know. A "pocket model" such as one resembling a fountainpen, if it could be developed, would be a remarkable and valuable weapon. The storage of extra ampoules for the use in the "pocket model", it occurs to me, could very easily be concealed in an instrument resembling a pencil or another fountainpen. It also appears obvious that this type of instrument could be used for lethal work if needed.

7. In connection with the above, it is suggested that your office might designate someone to visit [REDACTED] who apparently

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developed hypo-spray, and the [REDACTED] C  
who did basic work on this device, and at present, it is believed, are  
manufacturing ampoules used in the modern hypo-spray. Furthermore, it  
seems certain that [REDACTED] might possibly give us valuable  
information in this connection since it is my understanding that the in-  
strument being used at [REDACTED] by the [REDACTED] H  
In vaccinations and  
similar type injections.

[REDACTED] A

15 October 1952

[REDACTED] A  
Hypospray

A/B, VII, 1, 5

1. Reference is made to our recent conversations regarding possible use of the Hypospray instrument and the various types of ampoules that could be developed for use with this instrument in connection with Agency work.

2. The Hypospray was invented or developed by [REDACTED]

[REDACTED] the Hypospray instrument. [REDACTED] is apparently still employed by the [REDACTED]

[REDACTED] and his title is [REDACTED]

3. [REDACTED]

was done on the Hypospray instrument, is reportedly [REDACTED] manufacturer of pharmaceutical capsules. [REDACTED]

[REDACTED] He has numerous other business interests.

4. In 1950, this Agency conducted a covert investigation of [REDACTED]

[REDACTED] This information, which is held in the Artichoke files, was favorable in all aspects.

5. This investigation indicated, among other items, that certain individuals residing or living near Washington had done some work in connection with the use of the Hypospray apparatus. These individuals

[REDACTED]

[REDACTED] Apparently these individuals made a report in this connection which appears on page [REDACTED]

[REDACTED] In addition, it should be noted that experimental work was carried on by [REDACTED]  
[REDACTED]

6. The report reflects that sometime in 1950, the [REDACTED] [REDACTED] In the Hypospray device to the [REDACTED] but whether this involved experimental models and laboratory information concerning the development of the Hypospray is not reflected.

7. As you know, the Artichoke Team has, for a considerable period of time, considered that the Hypospray, if it could be used under certain conditions, would be of extreme value in field operations. There are, however, many questions that have arisen and require answers in this connection. The writer is setting out the most obvious immediately below for your consideration and also in the event the Medical Department of this Agency takes up this matter:

- A. It is believed that the standard commercial Hypospray discharges a 1cc. ampoule. Is this the only size made or developed commercially? Would a 2cc. or a 3cc. Hypospray, if workable and clinically sound, be of greater value and use than a 1cc. ampoule?
- [REDACTED]

- B. Very little is known about the various types of ampoules used in the Hypospray either commercially or experimentally. What information is available in this connection?
- C. Furthermore, it would be of interest to know what concentration of liquids and solids and what types of liquids and solids have been used in the Hypospray ampoules and with what results.
- D. Since, as far as it is known, the Hypospray can only be used intramuscularly or into the fatty tissues of the body and not intravenously, what drugs or chemicals could be used in a hypospray instrument that would:
1. Produce a coma (with particular emphasis on speed).
  2. Produce forms of muscular failure, possibly along lines of curcare reactions.
  3. Produce lethargy, disorientation, euphoria, intoxication, etc.
  4. Produce nausea, cramping, or acute illness.
  5. Produce a lethal effect.
- E. This Staff has examined the standard commercial Hypospray. In its present form (and also in the pistol-grip type as used at [REDACTED] and elsewhere), it is [REDACTED] and not capable of
- H

simple concealment. We should like to know if the Hypospray has been made in any other form, shape, size, or weight. A lighter pocket-type model, which would resemble a fountainpen, would be of material advantage. In addition, we should like to know if and instrument has been built having a double barrel and capable of firing two ampoules simultaneously.

F. Since a possible covert use of the instrument is being considered, and since this use might be under rapid, rough, and non-clinical condition, we should like to know whether or not the Hypospray can be used through normal clothing, including possibility of infection and whether or not a special Hypospray could be developed that could be effectively discharged through normal clothing.

G. We should like to know whether the Medical Division, through its 'contacts' could interview [REDACTED] and the [REDACTED] technicians to examine experimental models of the Hypospray instrument which certainly must have been developed in connection with the work on the Hypospray. Some of these models, while not being commercially practical might be extremely useful from our point of view if properly modified or developed.

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A/B, VII, 1, 2  
25 January 1953

FIN

[REDACTED]

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1. [REDACTED] and [REDACTED] are both professionally and an excellent track record. [REDACTED] has been in connection with the project since [REDACTED]. [REDACTED] of the Medical Division was informed by certain officials of the [REDACTED] Company in [REDACTED] is doing advanced work in connection with the hypospray device. C A

2. In this connection, [REDACTED] was advised to [REDACTED] [REDACTED] is an engineering engineer and director of research at [REDACTED] was reported to [REDACTED] C

3. In order to see [REDACTED] requested a special contact type of clearance through Security which was obtained immediately and during the week of 19 January 1953, [REDACTED] visited [REDACTED] C

4. [REDACTED] stated that it was their intention to [REDACTED] in the field. [REDACTED] stated that they had a great many different types of hypospray--some mechanically powered, some powered by gas, and some powered by hydraulic devices. [REDACTED] stated that at the present time, based on their work, he felt that immediate use of hypospray as far as [REDACTED] is concerned did not appear feasible, but stated he thought some work would probably be done in connection with ultra-high pressure hypospray devices that might be successful. [REDACTED] is preparing a report for the Medical Division in this connection and copy will be given this Office upon completion. C