

DECLASSIFIED PER EXECUTIVE ORDER 12356, SECTION 3.3, NND PROJECT NUMBER NAMS 947527 BY RB/VSW, DATE 6/21/94

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*Planning Div
Foreign All*

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Serial No. 010 (SC)

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Research

5 JAN 1948

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To: **Head of Com, NMCI, HRCG, Bethesda, Md.**

Subj: **Preliminary Report, Japanese Intelligence; Abstract of.**

Encl: **1. (NW) Copy of subject abstract.**

1. Enclosure 1 is forwarded for your information and files.

2. If your organization is interested in further developing the pituitary gland extract mentioned in Item 1 of subject report for use in improving night vision, the Research Division in this Bureau will approve such a project.

E. W. SMITH
Rear Admiral (NW) USN
Chief, Research Division

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MEMORANDUM

To:

Subject: Preliminary Report, Japanese Intelligence; Abstract
of.

1. Procedures to improve the night vision of Japanese military personnel. Both Army and Navy used dark adaptation, indirect vision training, and red lens eye adaptation in preparation for night flights thirty (30) to fifteen (15) minutes prior to take-off. The Japanese Army uses a drug called "miyogozai", which consists of Vitamin A, curcuron extract, and calcium, while the Navy uses a solution of the posterior pituitary gland, called "melanophoromone". This is prepared from the posterior pituitary gland of cows, sheep, and shark, 1 cc. ampule being derived from the gland of thirty head of cattle. The extraction process is so designed as to eliminate the undesirable side reactions of pituitary extract. It is given by injection two hours before the aviator reaches his designated area. Its effect declines for three hours, returning to zero, and is said to improve night vision from forty to one hundred percent. It is evidently a dilator of the pupil. It is standardized by using a .01 cc. test injection on a loach of given weight, and observing the degree of dilation effected on the loach's melanophore.
2. Japanese personnel are tested and ranked for night vision in the sense that those who are "above average" are selected for night lookouts, spotters, gun crews, and aviation.
3. Requirements for visual acuity and color perception in the aviator's physical examination are detailed in the final report.
4. Sun glasses are not issued to Japanese troops, although they are at liberty to purchase their own from commercial sources.

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