MEMORANDUM

March 16, 1962

TO: Members, Viruses and Cancer Board
    Members, Cancer Virology Panel
    Members, Panel on Enteroviruses

FROM: Executive Secretary, Cancer Virology Panel

SUBJECT: Statements to Accompany Shipments of Enterovirus Antisera.

At the last meeting of the Viruses and Cancer Board the Acting Chairman, Dr. Sessoms, appointed a committee composed of Dr. Hammon, Dr. Melnick and Dr. Harris to draw up statements to accompany the shipments of enterovirus antisera, both monkey and rabbit, which would serve as guidelines for the efficient usage of these materials by investigators.

A copy of each of the statements is attached. Any comments or suggestions for improving these statements would be welcome.

Attachments (2)

MMH: co

Marvin M. Harris, Ph.D.
ENTEROVIRUS ANTISERA AVAILABLE FROM NATIONAL CANCER INSTITUTE

STANDARD HIGHLY SPECIFIC REFERENCE SERA (Monkey) FOR VIRAL IDENTIFICATION

Available:  Poliovirus, types 1-3 (monkey)
            ECHO, types 1-25 (monkey)
            Coxsackie, types A9, B1-5 (monkey)
            (Other types will become available.)

Quantity:  0.5 ml/ampoule (lyophilized)

Intended Use:  To serve as the standard reference type identifying sera by reference and highly competent research laboratory groups. These sera have been tested for specificity against all other recognized enteroviruses. In instances in which antibody crossing occurs with other enteroviruses, the dilution at which this is detected is known. These sera are to be used only following preliminary testing to determine that the virus to be identified is definitely an enterovirus and has been shown to be immunologically related to a known enterovirus through use of some less specific serum. The sera are suitable for use in neutralization, complement-fixation and hemagglutination-inhibition tests. As a rule only one ampoule of a given serum will be dispensed. Documentation for the sera, as well as recommendations for use, are contained in publications by the Committee on Enteroviruses, Am. J. Public Health, 47:155, 1957, and Kamitsuka, Soergel and Wenner, Amer. Jour. Hyg., 74:7-25, 1961. This material, as well as recommendations of the Panel for Enteroviruses, are contained in a "Guide for Use of Reference Antisera Prepared for Enteroviruses" which is distributed by the National Cancer Institute.

In view of the fact that preliminary identifying sera of known titer for all types of enteroviruses, suitable for use in all three types of identifying tests are not yet available from a central source, it is recommended that all laboratories undertake to produce their own crude identifying sera or have such available. When the highly specific reference sera must be used for preliminary identification they should be used in high dilutions and all remaining unused serum or serum dilutions be saved in a frozen state for subsequent use in order to preserve these very valuable reagents.

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ENTEROVIRUS ANTISERA AVAILABLE FROM NATIONAL CANCER INSTITUTE

**VIRAL IDENTIFYING SERA (Rabbit)**

**Available:**
- ECHO, types 1-14 (rabbit)
- Coxsackie, types A9, A11, A13, A15, A18 and B1-5 (rabbit)

**Quantity:** 0.5 ml/ampoule (frozen serum)

**Intended Use:**

For the identification of viral isolates in research laboratories. These sera are satisfactory for use in neutralization tests. Before attempting their use in HI tests, they may have to be adsorbed with kaolin and a suspension of erythrocytes (see Rosen, Leon, Amer. Jour. Hyg., 71:242, 1960). They are available in limited quantities. Documentation for these sera is also available.