Lister Institute, Telephone: Chelsea Bridge Road, 01-730 3468 London, SWIW 8RH -2_ :R 1973 Thursday Dear Dr Chaycock We have printed two sets of undergraph lav need to hind then it have been bilder and label them. I have senver then the Entler and form and enclose than. Af the letter is now OK. please Could you have a four copy made on Elstree paper and sigh it? I have yet to complete the City person to whom we hope to send the un Zoographs har this won't take hing, so we shall be able to stat quite soon. Best inste GRO-C

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والم ويحم مركمو شرو تدرو تكرو Dear.

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le states.

For some time Miss Shaw and Mr. Combridge of the Blood Products Unit here have been monitoring samples of pooled human plasma for Australia antigen, (Mathematic An(17), using immunoelectromosmopheresis and other methods. Those samples which appear to be serologically positive are checked by Dr. Lawn at Chelsea using immuno-electron microscopy for morphological confirmation. We feel, however, that the morphological criteria we accept as evidence for the presence of MR antigen are somewhat arbitrary and that the test would be more valuable if we could compare these criteria with those accepted in other laboratories which use the electron microscope in this way.

In our case, the problem is accentuated, not(only because we are examining pools from 10 or 25 donors, so that the antigen from one donor is diluted 10 or 25 times, but because the plasma is from aged blood and contains more debris than serum or plasma from freshly drawn blood.

It would be most helpful to us if you would examine the enclosed micrographs and classify them on the enclosed form, in the categories we suggest. It will be seen that the micrographs have been deliberately selected to be of varying quality. In addition, we would be grateful if you would give uska brief summary of the criteria you employ for morphological identification of Au antigen, (using the space) provided. I enclose a list of those to whom we intend to send the micrographs. If you know of anyone else who might be willing and able to help-us in this way, please could you take part

Please return the micrographs to:

Dr A.M. Lawn, The Lister Institute, Chelsea Bridge Road, London SW1W 8RH.

as soon as you can.

Yours sincerely,

W. d'A. Maycock.

Identification of Australia antigen by immuno-electron microscopy Name of observer..... Neme of test centre..... Address of test centre.....

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<u>Gradin State</u> (assume that the anti-Au test serum contained specific anti-Au antibody, but may have contained antibody of other specificities).

+ Eicrograph demonstrates Australia antigen

- (*) Hierograph probably demonstrates Australia antigen Enterprotection of micrograph is not possible (either completegy is ambiguous or preparation as unactiscovery of Loth)

....orgraph does not demonstrate Australias entigen

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Micrograph Gradin	21	22	23	24	25	26	27	23	29	30
Micrograph Grading	31.	32	53	34	35	36	37	30	30	40
Micrograph Grading	43	42	43	44	45	40	47	49	49	50

Name of observer.....

Please describe, briefly, your criteria for identifying Australia antigen using immuno-electron microscopy

a. Criteria based on morphology of individual particles

L. <u>Antheric based on evidence of specific a challmation by</u>