NOTE OF THE FOURTH MEETING OF THE AD HOC WORKING GROUP ON THE EVALUATION OF ANTI-HTLV III KITS, HELD AT DHSS ON 3 MARCH 1986

Present:	Dr Codd	Newcastle PHLS
	Dr Follett	Runchill Hospital, Glasgow
	Dr Gunson	Manchester BTS
	Dr McLelland	Edinburgh BTS
	Miss Rawlinson	Manchester BTS
	Dr Pritchard	Welsh Office
	Dr Mortimer	PHLS Virus Reference Laboratory
	Mr Parry	и и и и
	Dr Schild	NIBSC
	Professor Knox	Birmingham
2 a a a a a a a a a a a a a a a a a a a	Dr Supron	PHLS, DMRQC
	Mr Snell	11 11
	Dr Skinner	DHSS
	Mr Lister	(Chairman)
	Mr Kennedy	(Secretary)

The Chairman introduced Dr Supren, Mr Snell and Dr Skinner (deputising for Dr Alison Smithies). He explained that some papers, including a report prepared ed by Dr Gunson, had not been sent out in advance of the meeting because of a misunderstanding and apologised for this. The Chairman distributed copies inactivation of letters from manufacturers giving information on infection of HLTV III.

Minutes of the Third Meeting held on 25 September 1985 2.

These were agreed subject to the following amendment: Minute 8 - First sentence to read "It was reported that a BTS had looked at the Abbot kit but had opted for the Wellcome product for the time being".

3. Phase I Evaluation - 2nd Batch

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kits including Dr Mortimer introduced his composite report on the evaluation of 10 commercial Pasteur, Behringwerk, Labsystems, Dupont and Travenol). His conclusion was tht all the kits suitable for general use with the exception of Labsystems. he concluded t Furthermore, /a kit should not be used to test heat-treated sera unless the evaluation had demonstrated its suitability for this application. Members made some comment on the format of the report. In particular it was felt that which presented readers would find it very useful to see a table in which the results obtained by each kit on each serum in the panel, was presented. Dr Mortimer pointed out

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the need to circulate the information before it became outdated but nevertheless agreed to incorporate as many comments as possible. It was hoped that the report would be ready for distribution within two weeks.

It was agreed that what remained of the aliquots of sera established by VRL should be kept for the evaluation of new anti-HTLV III kits included one the expected for the evaluation. It was agreed that if commercial Western Blotting kits are evaluated a panel of sera will have to be established specifically for this.

4. Western Blotting - Update

It was agreed that the clotting kits from Dupont and Biorad were probably still in a developmental stage and were probably not worth evaluating as such. The commercial kits were also very expendence. There was some discussion on the role of the method and there was a consensus that a study was needed to establish this. It was proposed that the study should involve the examination of 300 unrepeatable screen positives from blood donors. There was a need to follow Western Blotting results in a donor who on the basis of an ELISA assay, progressed from being weekly or equivocally screen positive to unequivocally screen positive.

It was agreed that there was a need for all the confirmatory laboratories to agree test and interpretation criteria to distinguish positive and negative results. It was hoped that there would be a meeting on this subject soon.

5. Progress in Phase 2 (Blood Transfuction Centre) Evaluations

It was important that most BTCs were using Wellcome assay. However Organon assays were being used by six BTCs and by the Lewisham Hospital centre, although some of these were thinking of changing to Wellcome assays. If they did change it would become difficult to compare the performance of the different assays.

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Miss Rawlingson reported on the investigation of false negative results obtained by some BTCs when certain sera were tested by the Wellcome assay (see Minute 5 of the Minutes of the meeting of 25 September). The sera had been examined at the Virus Reference Laboratory and all gave positive results with the Wellcome assay. It was thought that the earlier results, including the progene effect, were due to poor mixing after though or possibly an increase in pH on storage.

392 coded see samples provided by PRL had been tested by the Manchester BTC using Wellcome, Organon and Pasteur assays. The overall conclusions were that some positives are being missed reliance on a single test may not detect all positives positives, technical errors may lead to false negative results, a "equivocal" zone should be allowed when deciding which tests to repeat and that there is a need to agree a definition of "positive". This last conclusion was reached in the light of the results of one blood donor's sera that was positive by all the commerical assays yet negative by the PHLS's Compris assay.

Miss Rawlinson reported that of 85,556 donor sera tested so far there had been 14 confirmed positives. If Ireland is included, the total is 882,480 sera tested with 16 positives in all.

Some about the The concern was expressed ever low number of controls being set up by some of Mistead the BTCs and the possibility that plates might be misl It was hoped that 🔍 computerised read-out, such as was in the Sanguin package, would provide improvement. There was also concern over the erratic quality of Organon and latter Showed Wellcome kits. The elter in particular should significant batch to batch had many batch variation had many batch numbers and plates (NB the DMRQC results and plates showed that 43 batches of wellcome kits were in use) were some times outside Kennedy 1000 the manufacturer's QA criteria. these points up with

Quality control and External Quality Assessment Materials for

LAV/HTLV III

Dr Supron and Mr Snell outlined the NEQAS in Microbiology and reported on the results of the DMRQC performance assessment panel of 20 samples sent out in November 1985. Of the erroneous results it was felt that most were due to an assays inability to defect antibody in diluted server samples: which may not be representative of actual weekly positive clinical specimens. In additon some new users may have made errors due to unformiliarity with the kits.

Discussion

7. Informal Report and Disuegion of Performance of Kits in Use

Dr Hambling of Leeds PHLS had provided his views on the use of LAV/HLTV III antibody tests. He preferred the Wellcome assay because it was quick to perform convenient and appeared the reasonably specific and sensitive. However to be on the safe side he retested any specimen which elino(ally could be positive but which gave a negative result initially. He liked to use a fluoreset antibody test for confirmatory purposes. His reference procedure was to repeat the test first using the sets kit then/he would the Wellcome assay either the Pasteur or Dupont assays and a fluorescent antibody test (H9/3 cells).

8. Any other business

Dr McLelland reported on the testing of 11,200 blood donations. This produced 44 repeatable positives with the Abbott assay. Of these sera so far 10 had been tested by western Blotting and all had been negative by this method.

None of the donations gave positive results with the Wellcome assay. There was not evidence so far that the Abbott assay would produce more confirmed positive results than the Welcome assay. Dr Codd said that 2,500 blood donor sera had been tested at Newcastle PHLS. There were no false negative results by the Wellcome assay. The positive results produced by the Abbott assay could not be confirmed by another ELISA and immunofluorescence assay.

It was reported that Abbott were stressing that some ELISA antigents, for example Wellcome's, did not meet with core antibody.

9. Next meeting

The Chairman announced that the next meet would be arranged when there was more information available. Members would be contacted individually about suitable dates.