Planning a new MN/HI collaborative study

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CONSISE 4th International Meeting, Cape Town South Africa

3-4 September 2013

Background

- Have consensus protocols for 2 day and 3 day MN assays
  - CONSISE MN collaborative study compared 2 and 3 day protocols for H1N1pdm09 assays using locally-derived sera
  - Could compare 2 day and 3 day assay within a lab but couldn't examine variability between labs as sera not shared
    - Don't know whether having consensus MN assays will improve between-lab agreement
    - Don't know whether an antibody standard will improve between-lab agreement
- Have consensus protocol for HI assay (close to WHO manual)
  - Need to examine whether a consensus HI assay protocol will improve between-lab agreement
- Agreed at Hong Kong CONSISE meeting
  - To compare consensus MN and HI assay protocols versus local protocols
  - To test the same panel of sera in all labs
  - For NMRC to check availability of ser um samples
  - To use locally grown stocks of reference virus

Plan for MN/HI collaborative study

Reference virus strain

- Propose to use H1N1pdm09 as sera available for this strain and we have data confirming 2 day and 3 day MN assays may be used interchangeably

Serum panel

- NMRC (Nick Martin) to describe serum panels available.
- Ideally need approx. 10 sera of low, medium and high titre, approx. 10 ml each.

Lab materials

- All labs to supply own reagents

Assays

- Labs should assay all sera by either 2 day or 3 day consensus MN assay protocol and local MN assay protocol and/or by consensus HI assay protocol and local HI assay protocol
- Three assay comparisons should be made

Antibody Standards

- The WHO International Standard for H1N1pdm09 antibody, Mab and antibody sourced from animals should be evaluated