

INTERIM PROTOCOL FOR INFLUENZA A (H1N1) SURVEILLANCE

SAMPLING IN PIG FARMS

CASE DEFINITION: INFLUENZA A (H1N1)

- Pigs suffering from acute breathing infected with Influenza virus and confirmed by Veterinary Research Institute (VRI) via one or two tests as follows:
 - 1). rRT-PCR and 2). Virus isolation.

SUSPECT CASE

- Pigs showing respiratory symptoms like influenza, cough, berhingus, difficulty in breathing; high rectal temperature (42°C); no appetite and weak. High mortality rate amongst weaners and abortion among pregnant sows.

CONFIRMED CASE

- Pigs confirmed infected with influenza A (H1N1) virus via real-time reverse transcriptase PCR (rRT-PCR) test or virus isolation confirmed by Veterinary Research Institute, Ipoh.

OBJECTIVE

- To detect presence of influenza A (H1N1) virus in pig farms in Malaysia and to assess risk factor and zoonosis Influenza A.
- To detect spread of influenza H1N1 virus antibodies in farm and if showing high prevalence, further investigation will be carried out.

SAMPLING

- All pig farms
- Porkers and breeders (boars and/or sows)
- Random sampling

SAMPLES

1. Serum

- 10ml blood. Take from artery cava cranialis. Use plain venojet tubes; needle size 18G.

2. Nasal swab

- From nose trickles or mucus. Put in MEM-minimal essential media transport.

NO. OF SAMPLES (ALL TYPES)

1. Total samples needed for each farm calculated based on 95% confidence rate on 25% prevalence per epidemiological group.

a. No. of samples needed is twelve (12).

Example:

No. of samples for breeders is 12 and porkers also 12; thus total samples for farm is 24.

Please allow two or three samples to cover for any samples deemed not suitable for conducting tests eg. ruined or insufficient.

SAMPLES CAN BE COMBINED

1. Six (6) nasal swab samples in media transport in one container (use universal bottle) and counted as one.

2. serum/blood sample CANNOT be combined.

This means, for every pig, no.of samples needed is three (3) namely: one serum sample and one nasal swab (in media transport).

For every pig farm, random sampling needed is:

Sample	No. Breeders	No. Porkers	No. (minimum)
Nasal swab	12	12	24
Serum	12	12	24

SENDING SAMPLES

1. Complete MAKVET 03 form, making sure owner's name and farm code details are correct.
2. Use airtight containers in 4°C eg. ice pack/dry ice.
3. All specimens must be labeled according to lab requirements.
4. Send samples to nearest lab together with completed forms. Before sending samples, please notify lab via telefon. Labs with rRT-PCR are VRI, PJ, KB
5. Copy of form and Surveillance form must be faxed to Disease Control Centre (Operations Room), Putrajaya, the same day samples are collected.
7. Further enquiries, please contact Disease Control Centre (Operations Room) Attn: Dr. Mohd Mokhtar Arshad, Tel:03-8870 2004