

REFERENCES

- Abdel-Ghafar, A. N., Chotpitayasanondh, T., Gao, Z., Hayden, F.G., Nguyen, D.H., & de Jong, M.D., et al. (2008). Update on avian influenza A (H5N1) virus infection in humans. N Engl J Med. 358(3), 261-73.
- Areechokchai, D., Jiraphongsa, C., Laosiritaworn, Y., Hanshaoworakul, W., & O'Reilly, M. (2006). Investigation of avian influenza (H5N1) outbreak in humans--Thailand, 2004. MMWR Morb Mortal Wkly Rep. 55(Suppl 1), 3-6.
- Atashili, J., Kalilani, L., & Adimora, A. (2006). Efficacy and clinical effectiveness of influenza vaccines in HIV-infected individuals, a meta-analysis. BMC Infect Dis. 6(1), 138.
- Atkinson, W. H. J., McIntyre, L., & Wolfe, S. (2007). Epidemiology and Prevention of Vaccine-Preventable Diseases. (10th ed.) Washington DC: Public Health Foundation.
- Beigel, J. H., J. Farrar, et al. (2005). Avian influenza A (H5N1) infection in humans. N Engl J Med. 353(13), 1374-85.
- Bender, C., Hall, H., Huang, J., Klimov, A., Cox, N., & Hay, A., et al. (1999). Characterization of the surface proteins of influenza A (H5N1) viruses isolated from humans in 1997-1998. Virology. 254(1), 115-23.
- Bridges, C.B., Lim, W., Hu-Primmer, J., Sims, L., Fukuda, K., & Mak, K.H., et al. (2002). Risk of influenza A (H5N1) infection among poultry workers, Hong Kong, 1997-1998. J Infect Dis. 185(8), 1005-10.
- Chan, P. K. (2002). Outbreak of avian influenza A(H5N1) virus infection in Hong Kong in 1997. Clin Infect Dis. 34(Suppl 2), S58-64.

- Chang, S. C., Cheng, Y. Y., & Shih, S.R. (2006). Avian influenza virus, the threat of a pandemic. Chang Gung Med J. 29(2),130-4.
- Chotpitayasunondh, T., Ungchusak, K., Hanshaoworakul, W., Chunsuthiwat, S., Sawanpanyalert, P., & Kijphati, R., et al. (2005). Human disease from influenza A (H5N1), Thailand, 2004. Emerg Infect Dis. 11(2), 201-9.
- Chutinimitkul, S., Payungporn, S., Chieochansin, T., Suwannakarn, K. Theamboonlers, A., & Poovorawan, Y.. (2006). The spread of avian influenza H5N1 virus; a pandemic threat to mankind. J Med Assoc Thai. 89 (Suppl 3), S218-S233.
- Dinh, P.N., Long, H.T., Tien, N.T., Hien, N.T., Mai le, T.Q., & Phong le H, et al. (2006). Risk factors for human infection with avian influenza A H5N1, Vietnam, 2004. Emerg Infect Dis. 12(12), 1841-7.
- Gilsdorf, A., Boxall, N., Gasimov, V., Agayev, I., Mammadzade, F., & Ursu, P., et al. (2006). Two clusters of human infection with influenza A/H5N1 virus in the Republic of Azerbaijan, February-March 2006. Euro Surveill. 11(5),122-6.
- Gu, J., Xie, Z., Gao, Z., Liu, J., Korteweg, C., & Ye, J., et al. (2007). H5N1 infection of the respiratory tract and beyond, a molecular pathology study. Lancet. 370(9593), 1137-45.
- Guan, Y., Poon, L.L., Cheung, C.Y., Ellis, T.M., Lim, W., & Lipatov, A.S., et al. (2004). H5N1 influenza, a protean pandemic threat. Proc Natl Acad Sci USA. 101(21), 8156-61.
- Hatchett, R. J., Mecher, C. E., & Lipsiteh, M. (2007). Public health interventions and epidemic intensity during the 1918 influenza pandemic. Proc Natl Acad Sci U S A. 104(18), 7582-7.

- Hay, A. J., Gregory, V., Douglas, A.R., & Lin, Y.P. (2001). The evolution of human influenza viruses. *Philos Trans R Soc Lond B Biol Sci.* 356(1416), 1861-70.
- Hayden, F. & Croisier, A. (2005). Transmission of avian influenza viruses to and between humans. *J Infect Dis.* 192(8), 1311-4.
- Ho, G. & Parker, J. (2006). Avian influenza, risk, preparedness and the roles of public health nurses in Hong Kong. *Nurs Inq.* 13(1), 2-6.
- Kandun IN, Wibisono H, Sedyaningsih ER, Yusharmen , Hadisoedarsuno W, Purba W, et al. (2006). Three Indonesian clusters of H5N1 virus infection in 2005. *N Engl J Med* 355(21), 2186-94.
- Katz, J.M., Lim, W., Bridges, C.B., Rowe, T., Hu-Primmer, J., & Lu X, et al. (1999). Antibody response in individuals infected with avian influenza A (H5N1) viruses and detection of anti-H5 antibody among household and social contacts. *J Infect Dis.* 180(6), 1763-70.
- Keawcharoen, J., Oraveerakul, K., Kuiken, T., Fouchier, R.A., Amonsin, A>, & Payungporn, S., et al. (2004). Avian influenza H5N1 in tigers and leopards. *Emerg Infect Dis.* 10(12), 2189-91.
- Kuiken, T., Rimmelzwaan, G., van Riel, D., van Amerongen, G., Baars, M., & Fouchier, R., et at. (2004). Avian H5N1 influenza in cats. *Science.* 306(5694), 241.
- Mounts, A.W., Kwong, H., Izurieta, H.S., Ho, Y., Au, T., & Lee, M., et al. (1999). Case-Control Study of Risk Factors for Avian Influenza A (H5N1) Disease, Hong Kong, 1997. *The Journal of Infectious Diseases.* 1999;180,505-8.

- Nguyen , H., Saito , R., Ngiem , H ., Nishikawa , M ., Shobugawa , Y., Nguyen , D., et al. (2007). Epidemiology of influenza in Hanoi, Vietnam, from 2001 to 2003. J Infect. 55(1), 58-63.
- Olsen, B., Munster, V.J., Wallensten, A., Waldenstrom, J., Osterhaus. A.D.M.E., & Fouchier, R.A.M. (2006). Global patterns of influenza a virus in wild birds. Science. 312(5772), 384-8.
- Olsen, S.J., Ungchusak, K., Birmingham, M., Bresee, J., Dowell, S.F. & Chunsuttiwat, S. (2006). Surveillance for avian influenza in human beings in Thailand. Lancet Infect Dis. 6(12), 757-8.
- Oner, A.F., Bay, A., Arslan, S., Akdeniz, H., Sahin, H.A., & Cesur, Y.,et al. (2006). Avian influenza A (H5N1) infection in eastern Turkey in 2006. N Engl J Med. 355(21), 2179-85.
- Peiris, J.S., Yu, W.C., Leung, C.W., Cheung, C.Y., Ng, W.F., & Nicholls, J.M. al. (2004). Re-emergence of fatal human influenza A subtype H5N1 disease. Lancet. 363(9409), 617-9.
- Sedyaningsih, E.R., Isfandari, S., Setiawaty, V., Rifati, L., Harun, S., & Purba, W., et al. (2007). Epidemiology of cases of H5N1 virus infection in Indonesia, July 2005-June 2006. J Infect Dis. 196(4), 522-7.
- Stohr, K. (2005). Avian influenza and pandemics--research needs and opportunities. N Engl J Med. 352(4), 405-7.
- Tran, T.H., Nguyen, T.L., Nguyen, T.D., Luong, T.S., Pham, P.M., & Nguyen VC et al. (2004). Avian influenza A (H5N1) in 10 patients in Vietnam. N Engl J Med. 350(12), 1179-88.

- Ungchusak, K., Auewarakul, P., Dowell, S.F., Kitphati, R., Auwanit, W., Puthavathana, P., et. al., (2005). Probable Person-to-Person Transmission of Avian Influenza A (H5N1). The New England Journal of Medicine 352(12), 1179-88.
- van Riel, D., Munster, V.J., de Wit, E., Rimmelzwaan, G.F., Fouchier, R.A., & Osterhaus, A.D., et al. (2006). H5N1 Virus Attachment to Lower Respiratory Tract. Science. 312(5772), 399.
- Vong, S., Coghlan, B., Mardy, S., Holl, D., Seng, H., & Ly, S., et al. (2006). Low frequency of poultry-to-human H5NI virus transmission, southern Cambodia, 2005. Emerg Infect Dis. 12(10), 1542-7.
- Wang, H., Feng, Z., Shu, Y., Yu, H., Zhou, L., & Zu, R., et al. (2008). Probable limited person-to-person transmission of highly pathogenic avian influenza A (H5N1) virus in China. Lancet 371(9622), 1392-4.
- Webster, R. G., Govorkova, E.A., (2006). H5N1 influenza--continuing evolution and spread. N Eng J Med. 355(21), 2174-7.
- Webster, R. G., Peiris, M., Chen, H. & Guan, Y. (2006). H5N1 outbreaks and enzootic influenza. Emerg Infect Dis. 12(1), 3-8.
- World Health Organization [WHO]. (2005a). Avian Influenza A (H5N1) Infection in Humans. N Engl J Med. 354(8), 884.
- World Health Organization [WHO]. (2005b). WHO recommendations on the use of rapid testing for influenza diagnosis. Retrieved July 1, 2005, from www.who.int/csr/disease/avian_influenza/guidelines/rapid_testing/en/.
- World Health Organization [WHO]. (2007a). WHO guidelines for global surveillance of influenza A/H5. Retrieved February 1, 2007, from

http://www.who.int/csr/disease/avian_influenza/guidelines/globalsurveillance.pdf

World Health Organization [WHO]. (2007b) Avian influenza – situation in China - update 3. Retrieved July 1, 2005, from
http://www.who.int/csr/don/2007_06_04a/en/index.html.

World Health Organization [WHO]. (2007c) Cumulative Number of Confirmed Human Cases of Avian Influenza A/(H5N1) Reported to WHO. Retrieved October 1, 2007, from
http://www.who.int/csr/disease/avian_influenza/country/cases_table_2007_10_31/en/index.html

World Organization for Animal Health [OIE].(2007). Update on highly pathogenic avian influenza in animals. Retrieved November 1, 2007, form
<http://www.oie.int/downld/AVIAN%20INFLUENZA/AI-Asia.htm>.

Yan, J., Lu, Y., Mao, H., Feng, Y., Xu, C., Shi, W., et al. (2007). Pathogenic and molecular characterization of the H5N1 avian influenza virus isolated from the first human case in Zhejiang province, China. Diagn Microbiol Infect Dis. 58(4), 399-405.

Yu, H., Feng, Z., Zhang, X., Xiang, N., Huai, Y., & Zhou, L., et al. (2007). Human influenza A (H5N1) cases, urban areas of People's Republic of China, 2005–2006. Emerg Infect Dis. 13(7), 1061-4

Yu, H., Shu, Y., Hu, S., Zhang, H., Gao, Z., & Chen, H., et al. (2006). The first confirmed human case of avian influenza A (H5N1) in Mainland China. Lancet. 367(9504), 84.

Yuen, K.Y., Chan, P.K., Peiris, M., Tsang, D.N., Que, T.L. & Shortridge, K.F., et al. (1998). Clinical features and rapid viral diagnosis of human disease associated with avian influenza A H5N1 virus. Lancet. 351(9101), 467-71.

APPENDICES

APPENDIX A
QUESTIONNAIRE

Questionnaire Out line for Avian Influenza (H5N1) Investigation in China

I. General Information

1. Name: _____ Gender: _____ (1)Male, (2)Female
2. Age: _____ Years
3. Occupation: _____ (1)Farmer, (2)Physician, (3)Nurse,
(4)Health/disease prevention Staff, (5)Student, (6)Teacher, (7) Employee of
Agriculture Department, (8) Other _____

II. Exposure History

4. In the past month, was case patient's household involved in poultry raising?
5. In the past month, did any poultry die due to disease?
____ (1)Yes (2)No (3)Unknown
6. In the past month, did the participant have any direct contact with healthy
poultry? _____ (1)Yes (2)No (3)Unknown
7. In the past month, did the participant have any direct contact with poultry that
had died from disease? _____ (1)Yes (2)No (3)Unknown

8. Did the participant have contact with any patient infected by avian influenza during? _____ (1)Yes (2)No (3)Unknown

9. Did the participant have a fever? _____ (1)Yes (2)No (3)Unknown

10. Did the participant have any other symptom(s) besides the fever?
_____ (1)Yes (2)No (3)Unknown

11. Was a nasal swab obtained _____ (1)Yes ____ (MM) / ____ (DD), (2)No

12. Was a blood draw taken _____ (1)Yes ____ (MM) / ____ (DD), (2)No

13. Was the blood draw taken when the participant was fasting _____ (1)Yes
(2)No

Unit of Interviewer: _____ Interviewer: _____

Date of Survey: _____ Assessment Personnel: _____

Assessment Date: _____

CURRICULUM VITAE

Name: Ms. Yang Huai

Date of Birth: 12 April 1979

Place of Birth: Yunnan, China

Education:

2005-2007	Certificate International Field Epidemiology Training Program, Thailand
1997-2002	Bachelor of Medical Science (clinical medicine) Kunming Medical College, China

Work experience:

- | | |
|-----------|---|
| 2005-2007 | Office for Disease Control and Emergency Response, Chinese Center for Disease Control and Prevention, Beijing |
| 2005 | Central Office of Center for Disease Control and Prevention, Yunnan |
| 2004 | Yunnan Institute of Drug Abuse/ China-UK AIDS Care project |

Honors and Awards:

- World Health Organization fellowship, visit Epidemiology and Prevention Branch, Influenza Division, CDC Atlanta 2007
- Awarded title Advanced Individual for SARS prevention, for outstanding work and a high degree of responsibility.

Publications:

- *EID-06-1557.R1 Six Human H5N1 Cases in Urban Areas of China*, December 2005 - September 2006
- MMWR, An Investigation of Influenza in Boarding Schools, Yunnan, 2005 (Manuscript submitted)
- Zhao ZH, Huai Y, Zhang GB, et al. The Effect of "Family Association" in the Voluntary Detoxification-Rehabilitation for Addicts. *Chinese Journal of Drug Abuse Prevention and Treatment* 2004, 10(4):194-196