

THE NEW MAIN SCIENTIFIC CONTRIBUTION OF THE THESIS

Name of thesis: Safety and Immunogenicity of IVACFLU-A/H5N1 in Vietnamese healthy adults.

Speciality: Public Health

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Full name: Vu Thi Chau

Full name of supervisor:

1. Assoc. Prof. Vu Dinh Thiem
2. Assoc. Prof. Dang Van Chuc

Educational foundation: Haiphong University of Medicine and Pharmacy

Summary of new main scientific contribution of the thesis:

From 2003, the spread of Avian Influenza A/H5N1 virus in poultries and transmitted to humans has caused many loss of life and economy for many countries around the world, including Vietnam requested scientists to invest in research and development for vaccines - the most effective weapon for preventing viral infections.

So far, no influenza A / H5N1 vaccine has been licensed in Vietnam. If a pandemic happens, the need for the vaccine could be very high. VABIOTECH and IVAC have invested in research and development of influenza A/H5N1 vaccines. VABIOTECH has produced on a small scale a batch of A/H5N1 influenza vaccine meeting Good Manufacturing Practice (GMP) standards and has completed clinical trials. IVAC has been proactive in developing and manufacturing vaccines. influenza A/H1N1, A/H5N1, A/H7N9 and seasonal flu vaccine under the guidance of the Ministry of Health.

Any vaccine has to follows steps of laboratory research, preclinical trials on animals must go through three phases of clinical trials on human to come up with the appropriate dose and injection schedule, proving the safety, immunogenicity and vaccine efficacy evidences before licensing. Vaccine IVACFLU-A/H5N1 for preventing influenza A/H5N1 in humans produced by IVAC has to follow that strictly regulations.

Through the completed researches and the results presented in this thesis, it has proven the safety and preventive ability of a influenza A/H5N1 vaccine produced by IVAC, as the evidences for the Ministry of Health to consider of licensing, ready to put into emergency use when an epidemic occurs. At the same time, to prove Vietnam's vaccine research and production capacity on the world.

In general, the dissertation is topical and has high practical significance, has many contributions to the prevention of epidemics in general and avian influenza A/H5N1 in humans in our country, contributing to reducing the burden, diseases as well as economic and health damages for the people and the community.

Name of supervisor

(Name and signature)

Name of graduate student

(Name and signature)


Assoc. Prof. Vu Dinh Thiem


PGS.TS.BS. Dang Van Chuc


Vu Thi Chau