ISAH 2024

CHIANG MAI THAILAND

World Organisation for Animal Health
Founded as OIE

WOAH Collaborating Centre
For Veterinary Service Capacity Building
(Asia, the Far East and Oceania) Pacific

The 21st International Society for Animal Hygiene Conference

One Health in Action – Innovations in Health,
Welfare and Environment
for a Sustainable Animal Production

Conference Proceedings

18-20 September 2024

Chiang Mai, Thailand

[This page is intentionally left blank.]

The 21st International Society for Animal Hygiene Conference

One Health in Action – Innovations in Health, Welfare and Environment for a Sustainable Animal Production

Conference Proceedings

18-20 September 2024

HONORARY COMMITTEE

Uwe Roesler
Co-chair, ISAH2024, President, ISAH, Professor and Dean, School of Veterinary Medicine, Free University of Berlin

Thomas Alter
Professor, School of Veterinary Medicine, School of Veterinary Medicine, Free University of Berlin

Fred Unger
Veterinary Epidemiologist & CIM Expert, International Livestock Research Institute, Vietnam

Karoon Chanachai
USAID Regional Development Mission Asia

Tongkorn Meeyam
Director, South East Asia One Health University Network

ORGANIZING COMMITTEE

Korakot Nganvongpanit
Co-chair, ISAH2024, Professor and Dean, Faculty of Veterinary Medicine, Chiang Mai University

Uwe Roesler
Co-chair, ISAH2024, President, ISAH, Professor and Dean, School of Veterinary Medicine, Free University of Berlin

Andres Aland
Associate Professor, Institute of Veterinary Medicine and Animal Sciences Estonian University of Life Sciences

Christelle Fablet
ISAH Secretrary, French Agency for Food, Environmental and Occupational Health & Safety

Hermann Schobesberger
ISAH Treasurer, Institute for Veterinary Public Health, University of Veterinary Medicine

Sebastian Opaliński
Associate Professor, Wrocław University of Environmental and Life Sciences

Jan Paeshuyse
Professor, Division Animal and Human Health Engineering, Katholieke Universiteit Leuven

Thomas Alter
Professor, School of Veterinary Medicine, School of Veterinary Medicine, Free University of Berlin

Warangkhana Chaisowwong
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University

Chatchote Thitaram
Associate Professor and Vice Dean, Faculty of Veterinary Medicine, Chiang Mai University

Saruda Tiwananakorn
Associate Professor and Vice Dean, Faculty of Veterinary Medicine, Chiang Mai University

Kannika Na Lampang
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University

Panuwat Yamsakul
Associate Professor and Vice Dean, Faculty of Veterinary Medicine, Chiang Mai University

Siriwan Tangyuenyong
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University

Chanaporn Suthinunt
Lecturer, Faculty of Veterinary Medicine, Chiang Mai University

Worapat Prachasilchai
Assistant Professor and Assistant Dean, Faculty of Veterinary Medicine, Chiang Mai University

Duangporn Pichpol
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University

Terdsak Yano
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University

Nattakarn Awaiwanont
Lecturer, Faculty of Veterinary Medicine, Chiang Mai University

SCIENTIFIC COMMITTEE

Korakot Nganvongpanit
Co-chair, ISAH2024, Professor and Dean, Faculty of Veterinary Medicine, Chiang Mai University
Uwe Roesler
Co-chair, ISAH2024, President, ISAH, Professor and Dean, School of Veterinary Medicine, Free University of Berlin
Thomas Alter
Professor, School of Veterinary Medicine, School of Veterinary Medicine, Free University of Berlin
Bernd-Alois Tenhagen
German Federal Institute for Risk Assessment
Tetsuya Furuya
Faculty of Agriculture, Tokyo University of Agriculture and Technology
Fang-Chia Chang
School of Veterinary Medicine, National Taiwan University
Nguyen Trong Ngu
Professor, Cantho University
Fred Unger
Veterinary Epidemiologist & CIM Expert, International Livestock Research Institute, Vietnam
Tonapha Pusadee
Associate Professor at Faculty of Agriculture, Chiang Mai University
Chatchote Thitaram
Associate Professor and Vice Dean, Faculty of Veterinary Medicine, Chiang Mai University
Khwanchai Kreausukon
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Veerasak Punyapornwithaya
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Kidsadagon Pringproa
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Nattawooti Sthitmatee
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Anucha Sirimalaisuwan
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Prapas Patchanee
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Duangporn Pichpol
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Tongkorn Meeyam
Director, South East Asia One Health University Network
Anucha Sathanawongs
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Kannika Na Lampang
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Nattakarn Awaiwanont
Lecturer, Faculty of Veterinary Medicine, Chiang Mai University
Panuwat Yamsakul
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Paramintra Vinitchaikul
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Raktham Mektrirat
Associate Professor, Faculty of Veterinary Medicine, Chiang Mai University
Rutch Khattiya
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Terdsak Yano
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Tawatchai Singhla
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University
Warangkhana Chaisowwong
Assistant Professor, Faculty of Veterinary Medicine, Chiang Mai University

Assessing Animal Welfare within Estonian Swine Farms

Alo Tänavots[1,2]

[1] alo.tanavots@emu.ee, Chair of Animal Breeding and Biotechnology, Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Fr. R. Kreutzwaldi 62, 51006 Tartu, Estonia
[2] Chair of Food Science and Technology, Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Fr. R. Kreutzwaldi 56/5, 51006 Tartu, Estonia

ABSTRACT

A pilot study was conducted to assess the animal welfare conditions in pig farms. In 2023, a total of 20 farrow-to-finish pigsties participated in the survey. 70% of farms housed pigs in a single unit, and 65% produced feed locally. All farms had quarantine units, and 95% had separate areas for sick pigs. All farms employed veterinarians, but the frequency of visits varied. The average number of piglets born alive was 14.3 ± 1.1, and piglet mortality at weaning was 13.1%. Estimated mortality rates were 2.3% for weaners, 1.6% for fatteners and 2.8% for sows. Most respondents rated the rearing conditions on their farm as "satisfactory" (4) – sows 75.0%, piglets 57.9%, weaners 68.4%, and fatteners 64.7%. Ratings of "excellent" ranged from 15.0% to 17.6%. The lowest rating, "bad," was given for the condition of piglets (5.3%). Overall, welfare conditions on the farms were judged as excellent (15%), good (37%), or good-satisfactory (25%). Tail docking was practiced in 70% of farms, while all implemented pre-trial strategies for tail biting detection. The most frequently cited triggers for tail biting were changes in temperature (29.5%), ventilation (20.5%), and diet (20.5%). A wide variety of materials were used for pig manipulation activities, including chains (20.6%), balls (14.7%), and wooden materials (10.3%), among others. Veterinary treatment cases for sows were mainly below 10%, though somewhat more attention was required for cases of metritis and arthritis. Piglets, weaners, and fatteners suffered more from traumas, intestinal inflammation, respiratory diseases, and arthritis. The most used antibiotics for treatment were amoxicillin and oxytetracycline. Piglets were primarily vaccinated against circovirus and mycoplasma pneumonia, while sows were vaccinated against parvovirus, erysipelas, colibacillosis, clostridial disease, leptospirosis, and circovirus. This survey served as a pilot study to develop a pig herd health and welfare protocol for Estonian pig farms.

Keywords: welfare, health, pig, farrow-to-finish

Download PDF version of the conference proceedings:

Supported by