

ONE HEALTH OVERVIEW OF PRM INFESTATION AND TREATMENT – INTERDISCIPLINARY APPROACH

Workshop - Working Group 2 (WG2) Skopje 27.03.2018 REPORT

Date and beginning of the workshop: 27.03.2018 at 09:00

Venue: Faculty of Veterinary Medicine, Skopje

Number of participants: 18 (10 women+ 8 men; 7 ITC participants+ 11 non ITC participants, including 3 ESRs)

Organizing Committee:

Miroslav Radeski, *Faculty of Veterinary Medicine, Ss. Cyril and Methodius University in Skopje, Macedonia*

Aleksandar Dodovski, *Faculty of Veterinary Medicine, Ss. Cyril and Methodius University in Skopje, Macedonia*

Katerina Tiligada, *Medical School, National and Kapodistrian University of Athens, Greece*

Olivier Sparagano, *Coventry University, Coventry, United Kingdom*

1. Introduction and Welcome

The participants were welcomed to Skopje and to the Faculty of Veterinary Medicine – Skopje by the local organiser, Miroslav Radeski. The program of the workshop was also shortly presented to the participants.

2. Introduction of COREMI COST Action FA1404

The Chair of the COST Action FA1404 '*Improving current understanding and research for sustainable control of the poultry red mite *Dermanyssus gallinae* – COREMI*', Olivier Sparagano, gave an introduction on the COREMI objectives, working groups and previous and upcoming activities.

3. Working Group 2 – End Users (One Health) – interdisciplinary approach

- ✓ The WG2 Leader Katerina Tiligada presented the objectives of this Working Group, the realized activities, the completed tasks and deliverables and the future plans. Special emphasis was given to the results of the One Health (OH) Training School organized in Itea, Greece in August 2017. In

particular, the communication on poultry red mite (PRM) infestation in humans, which was under submission, and the preparation of leaflets targeting various audiences (e.g. farmers, veterinarians, medical doctors) were briefly presented.

4. NEOH - Network for Evaluation of One Health, COST Action TD1404

The representative from the NEOH COST Action TD1404, Daniele De Meneghi, presented the objectives and the activities of the Action. He presented NEOH as the most closely related on-going European project to the One Health approach and to the objectives of the WG2 COREMI. He presented the Handbook for evaluation of One Health Initiatives developed by NEOH as a standardised and widely accepted framework, index and protocol for systemic evaluation of One Health; the developed case studies for evaluation of One Health initiatives by using the proposed evaluation methodologies presented in the Handbook; and the forthcoming meta-analysis of the case study results to facilitate international comparison and the elaboration of policy recommendations. At the end, Daniele De Meneghi introduced some of the dissemination activities within NEOH and the possibilities for future cross-Action collaboration on One Health topics.

5. One Health Model for Poultry Red Mite

With regards to how the One Health approach is defined by various representatives and global organizations and what is considered as a One Health approach, Miroslav Radeski presented the model for perceiving PRM from the OH perspective. The model is expected to provide the answer to the question: Are the three main pillars, Human, Animal and Environmental Health affected by the three states of PRM, Infestation, Prevention and Treatment? For each of these PRM states the possible threats and factors within the threats for the Human, Animal and Environmental health should be identified. At the end, the links between all factors, threats, states and pillars should be established. Therefore, an Excel sheet was presented as a starting point for building the OH model, with cca 10 columns that would help in inputting the needed data and creating the necessary database. After the presentation there were additional suggestions for improving the OH model and the Excel Sheet in terms of emphasizing the links between different pillars i.e. the in-between effects of Human, Animal and Environmental Health aroused by the PRM states. Possible overlapping between the different groups during the working process of creating the database and building the OH model was also pointed out after the presentation.

6. Working in Groups

The next session involved working in groups. The participants were divided into three groups: 1. Human Health; 2. Animal Health; and 3. Environmental Health. Each group consisted of 5-6 participants with expertise corresponding to the specific area of health. The work of the groups was focused on the following issues: i) the effects of PRM Infestation, Treatment and Prevention on the corresponding health area; ii) identifying the threats and specific factors that affect the corresponding health area by

filling up the Excel database; and iii) key points about the PRM and the corresponding health area that should be disseminated to the public. At the end of this session each group briefly presented their work on the above mentioned three issues. The general conclusion was that this work needs to continue for finally establishing the OH model on PRM.

7. One Health Group – Novometrix, Canada

The president of NOVOMETRIX Research Inc. from Canada, Jeff Wilson, held a presentation via Skype concerning “Network Integration for One Health Solutions”. His talk was focused on the need of fully integrated (and inclusive) One Health networks that engages all relevant stakeholders. The full regional and local autonomy was emphasized as a benefit of fully integrated network. He explained the models of Business Engine vs Network business engine that lead to what everyone wants i.e. Network integration. Additionally, some of the most important issues relevant to network integration were also mentioned. The last part of Jeff Wilson’s presentation referred to the actual potential and opportunities for future networking and collaboration on global level between existing One Health networks and groups. This was seen by the group as a good opportunity for the COREMI WG2 in its future engagement and sustainability concerning the One Health and PRM.

8. Future steps and Conclusions

The workshop ended with the following conclusions adopted by the group:

- Building of the OH model by creating the database of threats and factors should continue as a next activity of the WG2 group;
- Each ‘Health’ group has a group moderator, responsible for communication with the members of the group and for participating in the building process of the OH model. The group leaders are: 1) Andriana Kavallari for Human Health; 2) Danijela Horvatek Tomic for Animal Health; and 3) Dino Scaravelli for Environmental Health;
- Short Term Scientific Mission (STSM) is appreciated for finalizing the OH model. The Faculty of Veterinary Medicine in Skopje, Macedonia expressed an interest to be the hosting institution for the possible STSM. The WG2 suggested that this activity should be part of the last STSM call of the COREMI COST Action;
- The final work on the OH aspect of PRM will be published in the Special issue organized by the COREMI Network. In order to emphasize the impact of PRM to the Environment the decision was made for additional publication in a form of Short Communication regarding the Environmental Health and PRM;
- As part of the dissemination activities, the leaflets with the identified key messages about the PRM and Health in combination with the OH model will be created. This activity will be part of

the already on-going activity of creating leaflets within the WG2. The leaflets will be in English, with the possibility for translating in different languages;

- Short video animation about OH and PRM was also mentioned as one of the possible future dissemination activities;
- The selection and participation in relevant OH Conferences of WG2 members for disseminating the WG2 work during the final year of the Action was encouraged. Therefore, in the following period, the potential OH conferences should be identified and advertised. Members of the WG2 will participate at the Final NEOH COST Action Conference in Bologna, 10 -11.09.2018;
- Next meeting of the WG2 will be held in Cluj-Napoca, Romania on 31.10.2018, within the Final Conference of the COREMI COST Action.

9. Closing

The workshop finished at 19:00 with acknowledgement for the high contribution of all participants.

Minutes prepared by:

Miroslav Radeski, Faculty of Veterinary Medicine, Skopje, local organiser and co-leader of COREMI WG 2

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