



Université Constantine 1, Frères Mentouri
Institut des Sciences Vétérinaires
Laboratoire de Recherche Gestion de la Santé et Productions Animales

ATTESTATION DE PARTICIPATION

Le Président du comité d'organisation certifie que

Dr. DJAALAB Imene

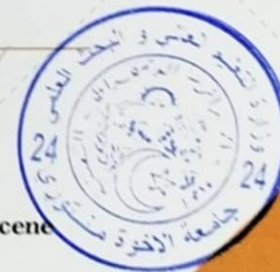
A participé au 11^{ème} Séminaire International de Médecine Vétérinaire, organisé à l'Institut des Sciences Vétérinaires de Constantine, les 26 et 27 octobre 2024, par une communication affichée

Intitulée : Health of the locomotor system indicator of welfare of Algerian dairy cows

Co-auteurs : *Samia HAFFAF, MANSOUR DJAALAB Hadria, RIACHI Foulla, Loutfi GHORIBI and Abdel Fattah BEGHRICHE*

Le Président

Pr. BERERHI El Hacem





Université de Constantine 1-Frères mentouri
Institut des Sciences Vétérinaires -El Khroub



Laboratoire de Recherche Gestion
de la Santé et Productions Animales

11th International Conference of Veterinary Medicine



ADVANCES IN ANIMAL PRODUCTION, FOOD AND HEALTH : FROM TRADITION TO INNOVATION

26 & 27 OCTOBER 2024

PROGRAM



POSTERS SESSION
Saturday 26th October 2024

TOPIC 1

Current innovations and emerging concepts in veterinary sciences
&

TOPIC 3

Innovation in food quality and safety of animal products

14:00-15:30

**MODERATORS : Pr. F. TEKKOUK, Dr. F. RIACHI, Dr. H. MANSOUR-DJAALAB,
Pr. N. ARZOUR, Pr. N. LAKHDARA, Pr. S. HIRECHE, Dr. K. BEROUAL, Dr. S. DJAMAI**

TOPIC 1 : *Current innovations and emerging concepts in veterinary sciences*

1	BENFODIL Karima (University of Bouira, Algeria) Detection of Trypanosoma evansi in camels using serological tests
2	BOUSSAADA Tarek (CRSTRA, Biskra, Algeria) Evaluation of Key Welfare Indicators in Commercial Broilers: A Case Study from the Batna Region, Algeria
3	DJAALAB Imene (University of Constantine 1-FM, ISVK, Algeria) Health of the locomotor system indicator of welfare of Algerian dairy cows
4	DAHMANE Abdeldjalil (ENSV, Algiers, Algeria) Assessment of gastrointestinal parasite infestation of goats in Biskra region, southeast Algeria
5	HAFFAF Samia (University of Msila, Algeria) Assessment of sheep welfare in semi-arid regions
6	BOUHOUCHE Ibrahim (University of Constantine 1-FM, ISVK, Algeria) Contribution to the evaluation of the level of animal welfare in broiler chicken farms in the Wilaya of Setif
7	BENATALLAH Salha Amira (CRSTRA, Biskra, Algeria) Effect of supplementation of ewe's diet with date waste and Saccharomyces cerevisiae on the weight performance and growth rate of their lambs
8	CHAABI Aimene Zakaria (University of Constantine 1-FM, ISVK, Algeria) Morphometric Characterization of Algerian Fantasia Horses in a National Equestrian Competition
9	SALHI Omar (University of Blida 1, ISV, Algeria) Clinical, histopathological and Serological study on avian infectious bronchitis
10	BOUGHERARA Hithem (University of Constantine 1-FM, ISVK, Algeria) Surgical Management of Hepatic Affections in Small Animals: An Experimental Case Study

Health of the locomotor system indicator of welfare of Algerian dairy cows

Imene DJAALAB ^{a,*}, Samia HAFFAF ^b, Hadria ^a, RIACHI Foulla MANSOUR-DJAALAB ^a, Loutfi GHORIBI ^a and Abdel Fattah BEGHRICHE ^a

^a LURPHATOX, Research Laboratory. Institute of Veterinary Sciences, University Constantine 1 Frères Mentouri, 05 Route de Batna, El-Khroub, Constantine, 25000, Algeria,

^b Institute of Veterinary Sciences. University of M'Sila - 028000. Algeria.

*Corresponding author: imendjaalab@gmail.com

ABSTRACT

Animal Welfare has a significant impact on the dairy cow's health, behaviour, productivity and milk quality. By implementing husbandry practices that respect the physical, behavioural and emotional needs of dairy cows, the dairy industry can improve the sustainability of its operations and meet rising expectations. The aim of this study is to evaluate the impact of housing systems (free vs. tied) on dairy cow health through musculoskeletal health indicators and lameness scores. The hypothesis that dairy cows reared in free housing have a better quality of health than cows reared in restrained housing is tested. To do this, 300 dairy cows of the Holstein and Montbeliarde breeds were selected from dairy farms in 5 municipalities in the province of Constantine in eastern Algeria. The results showed that the frequency of severe lameness did not exceed 12% in stalls with restraints and more than 42% of light lameness are in free-stall housing ($p < 0.001$). These results reflect a lack of comfort in restricted housing with an impact on dairy performance. Besides, the monitoring of lame cows and the functional trimming of their hooves should be frequent. It would also be important to implement a cull policy for unproductive cows. And finally, it is very important to provide an adequate training to the farmers in order to improve the well-being of dairy cows raised in Algeria.

Keywords: Welfare, Dairy cows, Locomotor system, Algeria.