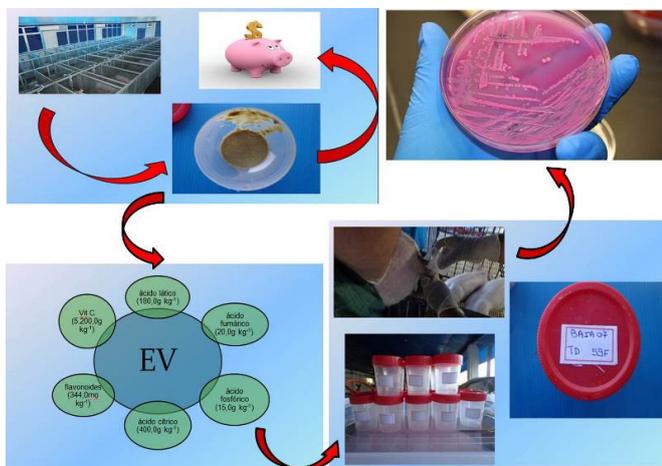


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Volume 8 (1); March 25, 2018 [[Booklet](#)]



Research Paper

Performance and Microbiological Profiles of Piglets Fed with Diets Enriched with Bio-flavonoids and Ascorbic Acid.

de Oliveira MF, Rigon Rossi CA, Shardong Lucca M, Soares M, de Oliveira V, Dornelles J, de Lima Schlösser LM and Guilherme Gräf C.

World Vet. J. 8(1): 01-08, 2018; pii:S232245681800001-8

ABSTRACT

The objective of this study was to evaluate the performance and microbiological profile of 40 piglets (females and males) in the nursery phase. The experimental design was completely randomized, with four treatments, five replicates and sex as a blocking factor. The treatments were distributed in: T1 (control); T2 (Plant Extract as PE, 500 ppm); T3 (Amoxicillin as A, 20 mg kg⁻¹) and T4 (PE+A, 500 ppm + 20 mg kg⁻¹). There was no influence ($P > 0.01$), between treatments for both the initial and the final weight and average daily gain, but the control group males had an average daily feed intake of 1.8% or higher ($P < 0.01$) compared to other treatments. The total count control bacterial colonies were 35.9%, 70.9 % and 63.8 % higher ($P < 0.01$) to treatment with A, PE+A and PE, respectively. For MacConkey test, the treated group A was 88.44 %, 91.78 % and 56.50 % higher ($P < 0.01$) compared to PE+A, PE and control, respectively. The antibiogram of 48 stool samples had shown that Amoxicillin disk were at 85.7 %, 72.7 %, 44.5 % and 100 % resistant in the control treatments, PE, A and PE+A respectively. The bioflavonoids and ascorbic acid and the interaction with amoxicillin did not alter the performance of pigs in the nursery phase but had reduced the presence of bacterial colonies.

Key words: Amoxicillin, Bacterial colonies, *E. coli*, Nursery, Plant extract

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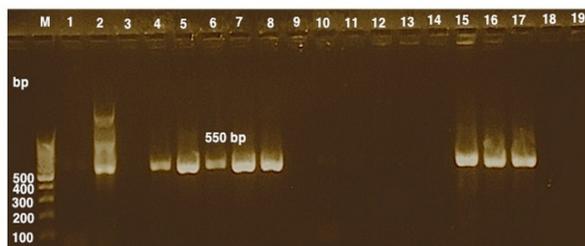


Figure 3. Agarose (1.5%) gel electrophoresis of *hla* gene of *Staphylococcus* PCR products (550 bp). Lane M: 100 bp DNA marker, Lanes: 1, 3, 9-14 and 18-19: negative isolates, lanes: 2, 4-8 and 15-17: positive isolates.

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Research Paper

Molecular Characterization of *Staphylococci* Isolated from Cattle with Mastitis.

Ali MM, Helmy SM, El Desouky IE and Asfour HA.

World Vet. J. 8(1): 09-18, 2018; pii:S232245681800002-8

ABSTRACT

This study was carried out in order to investigate the occurrence of some virulence genes of *Staphylococci* isolated from cattle with mastitis. A total number of 133 milk samples (45 from clinical mastitis and 88 from subclinical mastitis) were collected from dairy cattle in Kafr El-Sheikh and EL Gharbia Governorates, Egypt. The samples were examined for the presence of *Staphylococci* by classical bacteriological methods and were further characterized geno-typically. A total of 41 *Staphylococcus* isolates were recovered from cattle with mastitis with an incidence of 30.8%. Among the isolates, 21(15.8%) of *S. aureus* [6 from clinical mastitis (13.3%) and 15 from subclinical mastitis (17%)] and 20 (15%) isolates of CNS [8 from clinical mastitis (17.7%) and 12 from subclinical mastitis (13.6%)] were identified phenotypically. All isolates were screened for the detection of binding protein A (*spa*-X), haemolysine type A (*hla*), Haemolysine type B (*hlb*), and toxic shock syndrome (*tsst*-1) by PCR. The obtained results revealed that the *spa* Xgene was detected in all

Staphylococcus

isolates recovered from subclinical mastitis while in clinical mastitis was detected with an incidence of 42.9%. Haemolysine type A was detected in clinical and subclinical mastitis with an incidence of 71.4% and 70% respectively, while haemolysine type B was detected in clinical and subclinical mastitis with an incidence of 28.5% and 40% respectively. Toxic shock syndrome was not detected in any of the isolates. The data in the study provided an overview on the distribution of some virulence genes related to

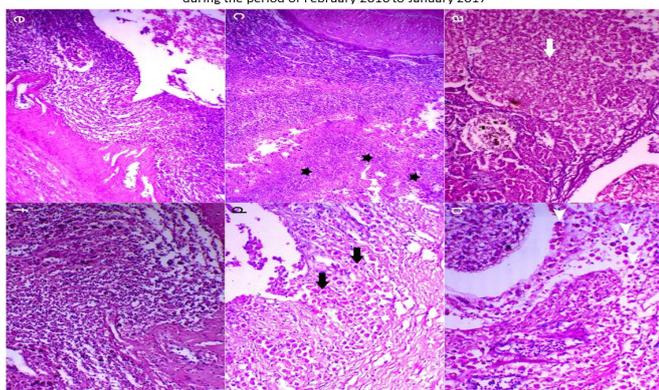
Staphylococci

isolated from cattle with mastitis in Egypt.

Key words: Cattle, Mastitis, *Staphylococci*, Virulence gene, PCR

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Figure 6. Liver, stomach and intestine of *Lates niloticus* from lake Nasser infected with *Contraecaecum* spp. during the period of February 2016 to January 2017



Hamouda AH, Sorour ShS, El-Habashi NM and El-Hussein AA (2018). Parasitic Infection with Emphasis on *Tylodelphys* spp. as New Host and Locality Records in Nile Perch; *Lates niloticus* from Lake Nasser, Egypt. *World Vet J*, 8(1): 19-33. <http://wvj.science-line.com>

Research Paper

Parasitic Infection with Emphasis on *Tylodelphys* spp. as New Host and Locality Records in Nile Perch; *Lates niloticus* from Lake Nasser, Egypt.

Hamouda AH, Sorour ShS, El-Habashi NM and El-Hussein AA.

World Vet. J. 8(1): 19-33, 2018; pii:S232245681800003-8

ABSTRACT

A total number of 200 *Lates niloticus* were collected alive from several and various localities at Lake Nasser in Aswan governorate, to investigate the prevailing parasites that infect this fish species. All the examined fish were positive for one or more parasites, three trematodes of two families were identified:

Diplectanum simile, *Diplectanum lacustri* s and

Tylodelphys

spp. (recorded for the first time in

Lates niloticus

representing new host and locality records), two nematodes of two families:

Philometra ovata

and L

3

larvae of

Contraecaecum

spp.(has zoonotic importance), one acanthocephalan parasite:

Rhadinorhynchus niloticus

, two crustaceans parasites of one family:

Ergasilus kandti

and

Ergasilus latus

, while no cestodal infections were recorded at all. The prevalence of trematodes was at 95%

meanwhile the nematodes were at 100% in addition to the acanthocephalan parasite was at

24.5% as well, crustaceans parasites were at 69.5%. This study evaluated clinical signs,

postmortem examinations, parasitological examinations, seasonal prevalence and

histopathological investigations of infected fish in addition to the relation between fish age and

parasitism was also described. This study builds on our current understanding of different

parasites infecting the wild

Lates niloticus

and provides novel information on the patterns of the isolated parasites and also serves to

reassure the consumers that the musculature (the edible part) of the fish was free from any

parasitic infections and safe for human consumption provided that the fish must be eviscerated

as soon as possible after being caught and adequately cooked.

Key words: *Lates niloticus*, Nile perch, *Tylodelphys* spp., *Philometra ovata*, Pathology, Lake Nasser

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