ميكروفلورا الجزء العلوى في الجهاز التنفسي في الحمير السليمة اكليتيكيا

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اللخص العربي

أخنت مسجة من المجزء المعلوى للمجهاز التنفس لعدد ٦٠ حمارا سليما اكلينيكيا بمدينة أسيوط. وقد أجرى الفيص البكتريولوجي لهذه العينات وأسفرت النائج عن عزل الميكروبات التالية :

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BACTERIAL FLORA OF THE PHARYNGEO-TONSILLAR PORTION OF CLINICALLY HEALTHY DONKEYS IN ASSIUT.

(With one table)

By

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(Recieved at 23/11/1976)

SUMMARY

Swabs were made for isolation of bacterial flora of the pharyngeo-tonsillar portion of 60 clinically healthy donkeys in Assiut.

The percentage of bacterial isolates were: Staphylococcus aureus II.67, Staphylococcus albus 25.00, Streptoccus pyogenes 16.67, Escherishia coli 10.00, Corynebacterium equi 8.32, Proteus mirabilis 16.67, Pseudomonas aeruginosa 11.67.

INTRODUCTION

Intensive studies were done on the bacterial flora of the pharyngeotronsillar portion of clinically healthy animals. SINGH (1967) could isolate 17 species of bacteria from samples obtained from trachea and lungs of buffaloes. GASPARE and MICHELINO (1968) isolated 38 strains of pathogenic Staphylococci from tonsils of 110 normal slaughter pigs, while SHIGIDI (1973) made cultures from nasal swabs, lungs and bronchial lymph nodes of 64 apparently healthy camels, obtained swabs yielded bacilli in 26.2%, diphtheroids in 15.9%, Corynebacterium pyogenes 5.4%, Alpha haemolytic Streptococci 5.1%, Escherichia coli 1% and Enterobacter aerogenes 0.5%.

Moerover, SIMPSON (1964) could isolate Corynebacterium equi from discharges of adult horses.

Concerning donkeys, there is a wide gape and the available literatures lacks much informations about isolates in healthy individuals of this species. The aim of this preliminary report is to investigate bacteria that may harbour the pharyngeo-tonsillar portion of clinically healthy donkeys.

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MATERIALS AND MEHODS

1.—Materials.

Sterilized swabs were used for obtaining samples from the pharyngeotonsillar portion of 60 clinically healthy donkeys.

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2.—Methods:

Obtained swabs were inoculated on nutrient agar, blood agar, chocolate-agar and Machonkey's agar media. The inoculated plates were incubated at 37°C for 24-48 hours. The isolates obtained were identified morphologically, culturally, biochemically ana serologically in accordance with those described by MERCHANT AND PACKER (1967).

RESULTS

The following table shows the bacterial isolates from the pharyngeotonsillar portion of 60 clinically healthy donkeys.

Bacterial isolates	Number	Percentage	
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Staphylococcus aureus		7	11.67
Staphylococcus albus		15	25.00
Escherichia coli	,	6	10.00
Streptococcus pyogenes		10	16,67
Proteus miriabilis		10	16.67
Pseudomonas aeruginosa		7	11.67
Corynebacterium equi		5	8.32

DISCUSSION

Staphylococci:

GASPARE and MICHELINO (1968), SHIGIDI (1973) could isolate staphylococci from tonsils of pigs and tracheal swabs of camels respectively. The micro-organism was also isolated in this work in a percentage of II.67 for Staphylococcus aureus and 25.00 in Staphylococcus albus.

Staphylococci are found in miscelaneous infections often in association with other micro-organisms.

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Streptococcus pyogenes:

Streptococcus pyogenes were isolated by SHIGIDI (1973) from bronchial swabs of camels, the micro-organism was found in 5.1% from 64 clinically healthy camels, However, in this work Streptococcus pyogenes were also isolated in 16.67% of examined donkeys.

The micro-organism is also found in throat and naso-pharynx of normal people, this also found in tonsilitis, sore throat, otitis media, bronchopneumonia and wound infections.

Escherichia coli:

Escherchia coli was also isolated from tracheal swabs of camels in 1% from 64 clinically healthy camels by SHIGIDI (1973).

In the present study the micro-organism was also isolated in a percentage of 10.00. Escherichia coli may invade the appendix, gall bladder, kidney and urinary bladder. Infection of the sinuses, bronchi and lungs become more frequent, moreover Escherichia coli are also important as secondry invaders in infected wounds (SOLTYS, 1963).

Pseudomonas aeruginosa:

Pseudomonas aeruginosa was isolated by SHIGIDI (1973) from camels in a percentage of 0.5%. In the present investigation, it is isolated in a percentage of 11.67. The micro-organism is also involved in equine abortions, genital infections of mares. FARRAG and MAHMOUD (1953) claimed that pseudomonas aeruginosa occured in a high percentage of otorrhea in dogs.

Corynebacterium equi:

SIMPSON (1964) could isolate Corynebacterium equi from discharges of adult horses. This micro-organism was also isolated in this work from donkeys in a percentage of 8.32.

Corynebacterium equi was also isolated in cases of pneumonia of young foals (MAGNUSSON, 1923).

The above findings may help the clinician in diagnosis of some respiratory affections in this species. These microorganisms are of great importance since they became highly pathogenic following lowering resistance of the animal body.

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Assiut Vet. Med. J. Vol. 4 No. 7 (1977).