

Isolation and Antimicrobial susceptibility profile of *streptococcus* spp. (group C and D) isolated from some caged birds of Iran

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Abstract

The purpose of this study was streptococcus isolation from cloacal and oral cavity birds including (chickens, amazon parrots, kestrels, starling, golden eagles, crows, mynahs, pigeons, canaries, finches african, brazilian parrot, australian parrots, ducks, african grey parrots, cocktail, nightingale, eurasian collared dove, balaban, pheasants, partridges) and identification to species level by biochemical tests, as well as the pattern of antibiotic resistance by disk diffusion method. One hundred and fifty birds referring to our hospital from different regions of province and species were included in this study. For streptococcal isolation, samples were streaked onto Blood agar plates. Biochemical tests were done on suspected colonies and finally, polymerase chain reaction (PCR) using specific primer was used for confirmation of *streptococcus* isolates. In this study, 42 strains were isolated and identified as *Streptococcus dysagalactiae*, the most frequently isolate 21.33%, *S.galloliticus* 2.66%, *S .zooepidermicus* 2%, *S.mutans* 1.33% and *S.suis* 0.66%. In addition the pattern of antibiotic resistance was assessed by diffusion method and showed high resistance to antibiotics such as: cefazolin, ceftriaxone, cephalixin, flumequine, oxytetracycline, and streptomycin. Presence of antibiotic resistance organisms in caged birds which lives in nearness of human has a public health importance.

Key Words: *Streptococcus* C & D, Caged Birds, PCR, Antibiotic Resistance

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