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Molecular Screening Of Clumping Factor And Some Antibiotic Resistance Genes In Staphylococcal Isolates Obtained From Retail Pork Byproducts In Egyptian Markets

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Abstract : A total of twenty three staphylococcal isolates recovered from ready to eat local and imported pork by products were screened for presence of clumping factor A gene (*clfA*) as a mark for *Staphylococcus aureus* and three common used antimicrobial resistance genes; methicillin (*mecA*), erythromycin (*ermC*), and vancomycin (*vanA*) using polymerase chain reaction. The results showed that 12 isolates (52.2%) have been possessed *clfA* confirmed as *S. aureus*. These twelve *S. aureus* isolates tested for the mentioned antimicrobial resistant genes, representing that two isolates carried the three genes (8.3%), five carried two genes, four carried one gene, and one isolate none. *mecA* showed the highest coexist 9 (75%) followed by *ermC* 6 (50%) then *vanA* 5, (41.6%). The presence of these antimicrobial resistant genes represents a public health concern, likely, to the best of our knowledge, this is the first treatise touched the antibiotic resistant genes of isolated staphylococci from pork by products in Egyptian markets.

Keywords: Staphylococcus aureus, clfA, mecA, vanA, ermC, pork byproducts, Egypt.

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