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Short Communication

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Enhancement of Antibiotic Activity by *Cordia verbenacea* DC.

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***SUMMARY. Escherichia coli* is known to produce enterotoxins whose properties and its role in diarrheal disease has been extensively investigated. Some species of *Staphylococcus* are often recognized as etiological agents of many animal and human opportunistic infections. This study is the first test of change in resistance of antibiotic activity by *Cordia verbenacea* DC. against multiresistant strains of *Escherichia coli* and *Staphylococcus aureus*. In this study, the hexane and methanol extract of *Cordia verbenacea* DC. were tested for antibacterial activity alone and in combination with aminoglycosides against bacterial strains. The synergy of the methanolic and hexane were verified by microdilution method. A synergistic effect of both extracts combined with the aminoglycosides was demonstrated. It is therefore suggested that the extracts from *Cordia verbenacea* DC. could be used as a source of natural products derived from this plant with resistance-modifying antibacterial activity, providing a new weapon against the problem of bacterial resistance to antibiotics.**

KEY WORDS: Antibacterial activity, antibiotics, *Cordia verbenacea* DC., *Escherichia coli,* Hexane extract, Methanol extract, Modification of resistance, *Staphylococcus aureus*.

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