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Therapeutic evaluation of *Terminalia chebula* as an alternative of antibiotics against bovine subclinical mastitis

The extent of sub-clinical mastitis in different breeds of cattle was carried out at cattle farms in Anand town of Gujarat State, India. The pervasiveness of sub-clinical mastitis in crossbred cattle were higher compared to local breed of cattle. Infective agents identified using genotypic based molecular method 16S rDNA Polymerase Chain Reaction (PCR) were *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Escherichia coli* and *Bacillus megaterium*. In vitro antibacterial activity of ethyl acetate extract of plant *Terminalia chebula* (Combretaceae) shows significant antimicrobial activity in comparison to extended spectrum penicillin group of antibiotic, amoxicillin with varying magnitudes against all identified isolates. The results of the present study indicate antibacterial potential of the herb which can be developed as an alternative therapy where the use of antibiotics is restricted.

Biography

Navin Sheth is a Professor of Pharmaceutical Sciences and is currently serving as Vice- Chancellor at Gujarat Technological University (GTU), India. His research interests include natural drugs, its identification and evaluation, herbal drug standardization and phyto-pharmacological activity of different plants. He has worked as the Head of the Department of Pharmaceutical Sciences, Saurashtra University, Rajkot, India, where he has developed Advance Research Centre by sophisticated analytical instrumental facilities.

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