Abstract

This research work creates a holistic knowledge base of medicinal plants in African traditional medicine practice. The methodology employed in the research work involves three stages of the Delphi technique conducted for nine (9) experts in the ATM practice. Knowledge collation and elimination were carried out after each stage of the knowledge elicitation process and the level of agreement in the elicited knowledge was measured using the Fleiss’ kappa agreement analysis (k). Results from the work show a progression in the agreements on the medicinal plants and herbs that are useful for the treatment and/or management of some ailments. At the final stage of the interview, a perfect agreement was achieved. In conclusion, the use of the Delphi technique as a knowledge elicitation tool aided a perfect agreement in the creation of a knowledge base of medicinal plants of African traditional medicine practice.

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Index Terms
Keywords

Knowledge-Based Systems, Knowledge Elicitation, Delphi Knowledge Elicitation Technique, African Traditional Medicine Practice.