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Poster

Physicochemical and phytochemical analysis of Ayurveda *Shadanga Panaya* decoction for technological advancements in future healthcare

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In Ayurveda "Knowledge of Life," has long been admired in health and disease management. *Shadanga Panaya* is one of the decoctions that contains six herbal raw materials and is distinguished for its therapeutic effects in conditions such as fever, diarrhea, vomiting, burning sensation of the body and urination process, thirst like dehydration condition due to vitiation of Pitta dosha and as a detoxifying agent. The lack of standardized preparation protocols and quality assessments for *Shadanga Panaya* poses significant encounters to its integration into modern healthcare. This experimental study involved with preparation of *Shadanga Panaya* as a decoction followed by the Ayurvedic methodology that was subjected to assessment of organoleptic Properties, Physicochemical evaluations (including pH, refractive index, and specific gravity) and extensive *phytochemical* screening as per WHO-2012 guidelines. Investigational results showed that *Shadanga Panaya* decoction: pH was 6.70, refractive index was 0.1, and specific gravity was 1.0085. Phytochemical analysis confirmed the presence of saponins, flavonoids, phenols, cardiac glycosides, & carbohydrates while tannins, alkaloids, terpenoids, steroids, and resins were absent and organoleptic properties were similar to Ayurveda mentioned standards. These results are establishing reliable standards for quality assessment and standardization. In the future, quantification of phytochemicals, identification of active pharmaceutical ingredient(s), clinical trials and long-term efficacy studies. The research team believes that new experimental findings and pave the way for the integration of Ayurveda into contemporary modern pharmaceutical development for medical practice, highlighting the potential for innovation and improved treatment outcomes in future healthcare.

Keywords: Ayurveda; phytochemical; *Shadanga Panaya*; standardization; WHO guideline

Underlined is the presenting author.