

A COMPARATIVE STUDY ON CRUDE EXTRACT AND WATERY PREPARATION OF MAKO (*Solanum nigrum* Linn.) AND BADIYAN (*Foeniculum vulgare* Mil.) BASED ON PHYTOCHEMICAL CONSTITUENTS ACTING ON JAUNDICE

R. Nishakanthy* and E.M.G.K.N. Begum

Faculty of Indigenous Medicine University of Colombo, Sri Lanka.
*1811072@iim.stu.cmb.ac.lk

Jaundice, a condition characterized by yellowish discoloration of the skin, mucous membranes, and sclera due to elevated bilirubin levels, remains a significant health issue. Allopathic medicine often manages jaundice with hepatoprotective agents, antibiotics, diuretics, antihistamines, phototherapy, and surgical interventions, despite potential side effects. In Unani medicine, jaundice, known as *Yarqan*, is treated using various phytochemical-rich compounds. The dosage form *Aab* (Juice) is mentioned as a valuable dosage for *Yarqan* where its lifespan is only one day. The dried aqueous extract is the dosage able to keep longer. This study investigates the efficacy of crude water extracts of *Mako* (*Solanum nigrum* Linn.) and *Badiyan* (*Foeniculum vulgare* Mil.) compared to their *Aab* (juice) preparations based on phytochemicals in the management of jaundice. The study was conducted by review of authentic articles and qualitative phytochemical analysis of *Mako* and *Badiyan*. The *Aab* was obtained in the method mentioned in the Unani text and dried aqueous extracts were obtained by Soxhlet apparatus. Phytochemical screening of *Aab* and dried aqueous extract was carried out as per the guidelines. The aqueous extractive value of *Mako* leaves and *Badiyan* seeds was found in 46.15%, and 30% respectively. Qualitative phytochemical screening revealed the presence of saponin, flavonoid, alkaloids, tannin, phenol and fixed oil in the *Aab* and crude aqueous extract of *Mako* and *Badiyan*. Based on the observations, both dosage forms had similar phytochemicals needed to treat the *Yarqan*. It is concluded that the *Aab* and aqueous extract *Mako* and *Badiyan* can be used squarely.

Keywords: Jaundice (*Yarqan*), *Aab* (juice), Phytochemicals, *Mako* (*Solanum nigrum* Linn.), *Badiyan* (*Foeniculum vulgare* Mil.).