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## Solanum torvum for Hypertension: a Systematic Review

By: [Ismail, A](#) (Ismail, Azlini) <sup>[1]</sup>; [Anuar, TAFT](#) (Anuar, Tuan Ashraf Faiz Tuan) <sup>[2]</sup>**RESEARCH JOURNAL OF PHARMACOGNOSY**

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### Abstract:

**Solanum torvum** is one of the plants mentioned in "Kitab Al-Tibb Pontianak", a historical medical manuscript which encompasses many traditional healings of Malay people for various ailments including of **hypertension**. This **systematic review** involves searching within Science Direct, SCOPUS, and PUBMED databases with the aim to find scientific evidences purporting this traditional claim. The keywords such as anti-hypertensive, angiotensin-converting enzyme (ACE) inhibitor, blood pressure, diuretic, vasodilation, **Solanum torvum**, and **S. torvum** were used with suitable Boolean operators. Sixteen research articles were finally included in this **systematic review** after considering some inclusions and exclusions criteria. The evidence that supported **S. torvum** use for **hypertension** included its capability in reducing blood pressure in normal and high fructose-induced hypertensive rats, and also its diuretic effect by increasing sodium excretion and total urinary output in normal and in nitric-oxide deprived rats, as well as the ability to inhibit ACE, the key enzyme that mediates consequential increment of blood pressure. On contrary, **S. torvum** also induced partial vasoconstriction and amplified the hypertensive effect in the nitric-oxide-deprived hypertensive rats. In conclusion, this **review** found scientific evidence asserting the traditional use of **S. torvum for hypertension** with some conflicting findings in some study models. Therefore, this ethnomedicinal claim warrants more scientific verification, especially on its effect on the essential **hypertension** model which is very common in humans but has not yet been explored.

### Keywords

**Author Keywords:** [angiotensin-converting enzyme inhibitors](#); [antihypertension](#); [diuretics](#); [Solanum torvum](#); [systematic review](#)**Keywords Plus:** [STEROIDAL GLYCOSIDES](#); [MEDICINAL-PLANTS](#); [EXTRACT](#); [FRUITS](#); [CONSTITUENTS](#)

### Author Information

**Corresponding Address:** [Ismail, Azlini](#) (corresponding author)

- ▾ [Int Islamic Univ Malaysia, Dept Fundamental Dent & Med Sci, Kulliyyah Dent, Kuantan, Pahang, Malaysia](#)

**Addresses:**

- 1 [Int Islamic Univ Malaysia, Dept Fundamental Dent & Med Sci, Kulliyyah Dent, Kuantan, Pahang, Malaysia](#)

- 2 [Univ Kebangsaan Malaysia, Inst Biol Syst, Bangi, Selangor, Malaysia](#)

**E-mail Addresses:** [dr\\_azlini@iium.edu.my](mailto:dr_azlini@iium.edu.my)

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