Abstract: People all around the world are using plants directly or indirectly to treat symptoms or illnesses. It is beneficial, if used in a conscious and controlled way. Among the plants of therapeutic potential, Baccharis trimera, popularly known as carqueja and belonging to the family Asteraceae, stands out for having several proven phamaotherapeutic properties, specially in the treatment of liver problems and problems related to digestion. The present work has the objective of describing the chemical properties, pharmacological and toxicological effects of Baccharis trimera. For the accomplishment of the bibliographic research the databases Scielo, Lilacs and VHL. The most abundant secondary metabolites of the genus Baccharis are flavonoids and terpenes, which confer several pharmacological attributes to the plant, specially antioxidant, antiviral, anti-inflammatory, antimicrobial and antiparasitic. However, there are also contraindications of the vegetable. Due to the abortive effect, the plant should not be consumed during gestation or lactation periods and, because of
the hypotensive property, its consumption by hypotensive people is not recommended. Like other vegetables, the carqueja has benefits and harms. Therefore, before consuming plants and derivatives, one must be aware of its chemical properties and pharmacological effects, being necessary the orientation by a qualified professional to ensure a responsible and beneficial use.

**Keywords:** Baccharis; Asteraceae; Pharmacology.

1. Introduction

Since ancient times plants are used for medicinal purposes with the intention of relieving or curing symptoms or ailments. Among the plants with relevant therapeutic potential, we highlight *Baccharis trimera*, a representative of the Asteraceae family with proven pharmacotherapeutic properties, highlighting the diuretic and hepatoprotective properties (CAPRA et al., 2014).

The Asteraceae family is composed of more than 1,100 genera, distributed in several parts of the world, being found mainly in South America...the genus Baccharis shows great importance, having several pharmacological attributions (ALBERTO et. al., 2009).

The genus Baccharis is large, with a large number of species, of which 350 are distributed specifically in the Americas and 120 have been elucidated chemically, which makes possible the understanding of the possible pharmacological effects of these species, based on the presence of specific secondary metabolites (HOCAZEN et. al., 2015).

2. Results and Discussion

The pharmacological activities of *Baccharis trimera* are directly related to its chemical composition. The most abundant secondary metabolites of the genus Baccharis are the flavonoids and terpenes, which confer several pharmacological attributes to the plant, emphasizing antioxidant, anti-inflammatory, antimicrobial and antiparasitic activities (CAPRA et al., 2014).

Flavonoids, secondary metabolites widely found in carqueja, are polyphenols and stand out for conferring antioxidant activity on vegetables. Among the flavonoids isolated from *B. trimera*, quercetin is of fundamental importance because, besides the antioxidant activity, it confers antimicrobial, antiviral and anti-inflammatory activities to the plant (CAPRA et al., 2014).

However, there are also contraindications of the vegetable. Due to the abortive effect, the plant should not be consumed during gestation or lactation and, because it has hypotensive properties, its consumption by hypotensive people is not recommended (RUIZ et al., 2008).

3. Materials and Methods

This review was carried out in the literature, using articles of a scientific nature. The articles found were selected according to the research objective. After reading the articles, a summary of the articles was made.

For the accomplishment of the bibliographic research the databases Scielo, Lilacs and VHL were used, having as descriptors: Baccharis, Asteraceae and Pharmacology.
4. Conclusions

The bibliographic review made it possible to relate the pharmacological effect of carqueja to the presence of specific chemical constituents. Since the presence and quantity of secondary metabolites in its composition explain its pharmaceutical use.

Like other vegetables, *Baccharis trimera* has benefits and harms. Therefore, before consuming plants and derivatives, one must be aware of its pharmacological and toxicological properties, being necessary the proper orientation by a qualified professional, to enable a responsible and beneficial use to health.

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Author Contributions

Carqueja is a plant with important medicinal properties, which makes it widely used for a wide range of purposes. Like all vegetable, it must be consumed properly and under the guidance of a qualified professional to reduce to the maximum the toxicological effects and, in this way contribute to the maintenance of health.

Conflicts of Interest

The author states that there was no conflict of interest.

References


