A REVIEW ON TECOMA STANS
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Abstract:
Tecoma Stans, the yellow bells Plants belonging to the family Bignoniaceae. It height ranges from 2 to 4 meters. It is an important medicinal herb throughout India. Among all parts from Plant-seeds, roots and bark are the most important parts which are used medicinally. Now the present article gives updated on its pharmacological properties. These plants has more compound constituents are phytosterols, Alkaloids, quinines, aminoacid, monoterpenes, activities for this plant are anti-diabetic, diuretic, anti-spasmodic, anti-microbial, anti-fungal and anti-oxidants.

Key words: Tecoma Stans, medicinal uses, herb.

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INTRODUCTION:
Plants are cultured everywhere not in specific place. It is useful to human health and well-being. The plant is a fast-growing plant with 30 feet in height containing yellow flowers and leaves with green. The plant is useful to treat diabetes in mostly countries like Mexico, India, and America and the roots are used to treat diuretic and anti-fungal. The first prefer for this plant is herbal medicines. [1-5]

Vernacular (or) other names in other languages:
Hindi-Pillakaner
English-Yellow bells
Telugu-Paccha Pulu

Classification:
Common Name-Yellow trumpet bells
Kingdom-Planate-Planets
Subkingdom-Tracheobionta-Vascular plants
Superdivision-Spermatophyta-Seed Plants
Division-Magnoliophyta-Flowering Plants
Class-Magnoliopsida-Dicotyledons
Subclass-Asteridae
Order-Scrophulariales
Family-Bignoniaceae-Trumpet creeper family
Genus-Tecoma Juss.-trumpetbush P
Species-Tecoma Stans (L.) Juss. ex kunth-Yellow trumpetbush

Fig.1: TECOMA STANS plant

Chemical Constituents and Different Extracts of Tecoma Stans

Table 1: Analysis of different extracts of Tecoma Stan for different chemical constituents.

<table>
<thead>
<tr>
<th>Components</th>
<th>Tests</th>
<th>Aqueous</th>
<th>Ethanol</th>
<th>n-Hexane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkaloids</td>
<td>Wagner</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Coumarines</td>
<td>NaOH</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Flavonoids</td>
<td>Salkowski</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Sesquiterpen lactons</td>
<td>Baljet</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Insaturacions</td>
<td>KMno4</td>
<td>+</td>
<td>+</td>
<td>-</td>
</tr>
<tr>
<td>Esteroles and metilestteroles</td>
<td>Liebermann-Burchard</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>carbohydrates</td>
<td>Molish</td>
<td>+</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Saponines</td>
<td>Liebermann-Burchard</td>
<td>-</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Quinones</td>
<td>Bomtrager</td>
<td>-</td>
<td>+</td>
<td>-</td>
</tr>
</tbody>
</table>
Medicinal Use: Pharmacological Activities: T.stan has various pharmacological activities: anti-oxidant, anti-diabetic, anti-fungal, anti-cancer, anti-hyperlipidemic, anti-microbial activities.

1. Anti-oxidant: The presents of Tannins in the extracts of bio-activities to possess potent anti-oxidant activity.
2. Anti-spasmodic effect: This effect can be evaluated by using segment of ileum from rat with trade solution. The TLE dose dependently which indicate calcium channels are involved in this spasmyotic effect.
3. Anti-microbial activity: The extract of leaf was tested on Bacteria. The extract of phenolic content was showed its anti-microbial activity.
4. Anti fungal activity: The extract of t.stan was tested against two species of fungi (sporothrix schenckii and fonsecaea pedrosoi) Shows best effective anti-yeast and anti-fungal activity.
5. Anti-diabetic activity: TAE sub-chronic admin reduces triglycerides and cholesterol without modifying fasting glucose. The chemical composition of extract was analyzing their content of phenols, flavonoids and alkaloids reputed as to be responsible for hypo-glycemic properties of many anti diabetic
6. Wound healing property: The methanol extract of t.stans leaf was possess significant wound healing property.[6-10].

CONCLUSION:
Tecoma Stan is used by medical practitioners for treatment of various diseases. Pharmacological reviews on plants will give valuable information which will helpfull in getin more points about a plant species. As per my search the major activity has been use the leaves and flowers are use for treatment of various diseases. We can wait and will find something new to cure any other new disease by this tecoma Stan.

REFERENCES:
2. Divya Sri et al.: Journal of Medical and Pharmaceutical Innovation; 1 (2) 2014; 1-4 17-50-1-PB-