

**MEDICINAL
PLANTS USED IN
DERMATOLOGICAL
DISORDERS IN
WEST BENGAL :
A REVIEW**



Presents By -

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INTRODUCTION

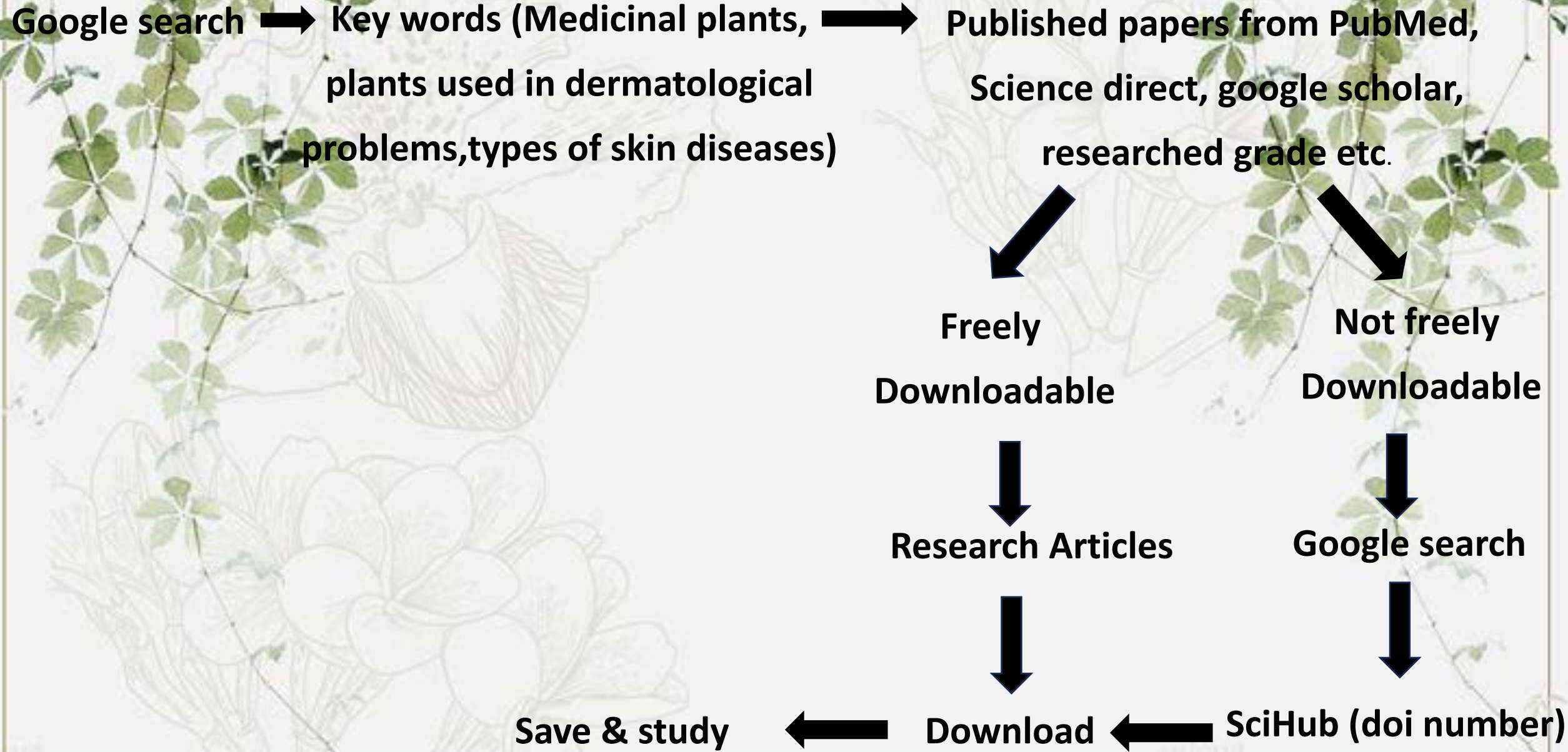
Among the different diseases, **skin disorder have less attention** the health management of human (Almoshari , 2022). Several skin problems are reported in primary health care system worldwide, particularly in tropical location. Its estimated that over **70% people with skin diseases do not seek** treatment from basic skin dryness to complex melanoma, a verity skin related diseases are found in human society (Almost,2002). The dermatological diseases account form 1.8% of World wide Disease burden rated fourth among all diseases that impact human (Urban et al.2021). There is a significant correlation between the number of dermatological problem and region, socio cultural situation of people age etc.

In India many herbal medicine have been used for the treatment of skin diseases like **acne, burns, cuts, ringworm, eczema, scabies, skin irritations, skin swellings, skin infection ,allergy, leprosy, itches on skin etc.** Till date 130 species of medical plants have been reported in dermatological problems in west Bengal which can cure **acne, burns, cuts, ringworm, eczema, scabies, skin cancer, allergies, sores, boils, infections, bleedings, minor cuts etc.**

OBJECTIVES

- To understand the use of different medicinal plants of West Bengal employed in curing Dermatological Disorders.
- To provide a comprehensive review of published literature on the use of plants for the treatment of the skin related problems in **West Bengal**.

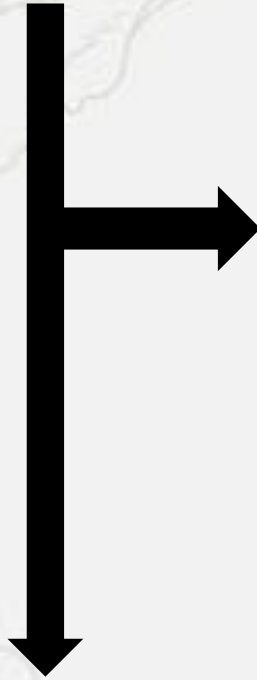
METHODOLOGY-1



METHODOLOGY- 2

Number of total downloaded

Articles(n= 20)



15 articles were excluded due to :

- **Title did not match with the present study topic**
- **Full length articles were not found**
- **Studies were not made from West Bengal.**

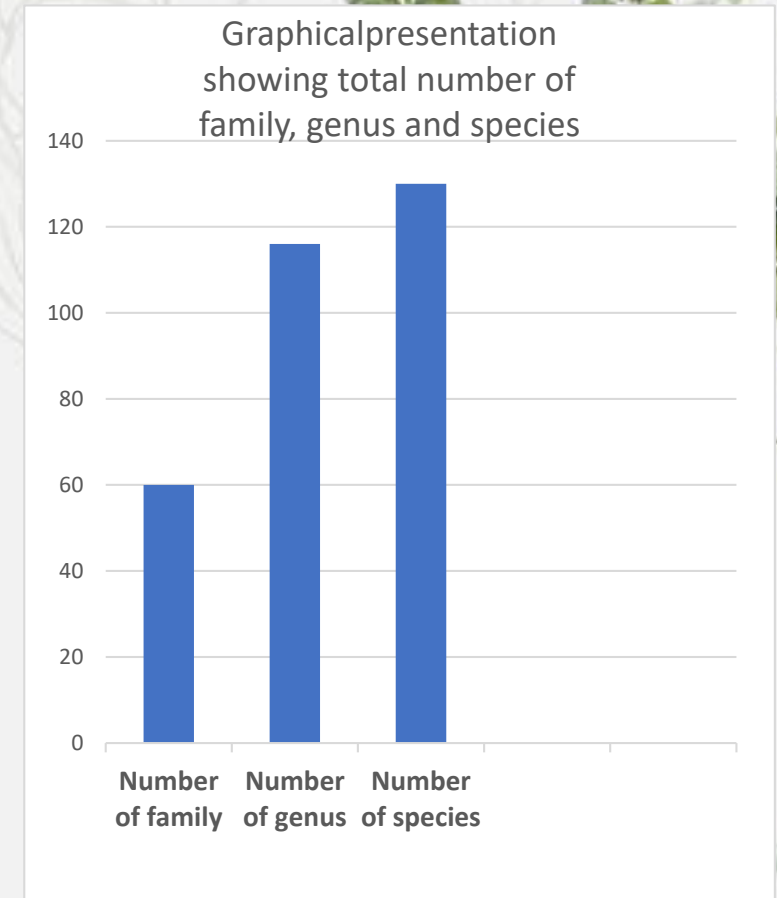
5 articles were selected for review

RESULT & DISCUSSION

- Total Number of plants species used in SKINDISEASES = **130**
- Total Number of Genus = 107
- **Total Number of Family=53**
- Most important Family in of term of species = **Fabaceae(17spp.)**
- Less important (each having 1 spp.)Family = **29**
Amaryllidaceae,Apiacea,Araceae,Asparagaceae,Boraginaceae, Capparidaceae, Caricaceae,Colchicaceae,Costaceae,Commelina, Dipterocarpaceae,Gentianaceae,Grassulaceae,Hydroleaceae, Lilliaceae,Malpighiaceae,Menispermaceae,Myrataceae,Nyctagina ceae,Olecaceae,Papaveraceae,Piperaceae,Plumbeginaceae,Polygo naceae,Rhamnaceae,Sapindaceae,Ulmaceae,Verbenaceae, Zygophyllaceae.

- Number of different skin diseases treated = **25 types**

(eczema, rash, infection, scabies, itching, burns, cuts, ringworm, bleeding, skin inflammation, wounds, sores, boils, pimples, eruptions, leucoderma, swellings, psoriasis, leech bites, parasitical cutaneous diseases, urticarial, skin cancer, dermal affections, skin allergy, carbuncles)



Sl. No.	Family	Botanical Name	Local Name	Parts Used	Disease Cured	Reference
1.	Asphodelaceae	<i>Aloe vera</i> (L.)Burm.f.	Ghritakumari	Leaf	Used to treat burning,skin irritations,cuts and swellings.	Hota and Chatterjee,2016
2.	Marsileaceae	<i>Azacardirchta indica</i> A.Juss.	Neem	Leaf	Leaf paste is used to cure skin infections.	Samanta,2019
3.	Zingiberaceae	<i>Curcuma longa</i> L.	Holud	Rhizome	The rhizome paste is applied to treat skin inflammations.	Konar and Mukkherjee,et.,al., 2022
4.	Lamiaceae	<i>Ocimum tenuiflorum</i> L.	Tulsi	Leaves	Used against skin diseases.	Dey and Gupta,et.,al.,2012
5.	Malvaceae	<i>Hibiscus rosa-sinensis</i> L.	Jaba	Leaves	Used to cure skin diseases.	Dr.Amit Saha,2016
6.	Fabaceae	<i>Cassia fistula</i> L.	Bandar lathi	Bud and flowers	Buds and flowes are used to treat skin diseases.	Samanta,2019
7.	Solanaceae	<i>Solanum lycopersium</i> L.	Tomato	Fruits	Fruits are used to treat burns.	Dr.Amit Saha,2016
8.	Piparaceae	<i>Piper nigrum</i> L.	Golmorich	Leaf	Used externally to ringworm.	Samanta,2019
9.	Costaceae	<i>Hellenea speciosa</i> (J.Koenig) S.R.Dutta	Kemuk	Root	Root paste is used to treat skin diseases.	
10.	Grassulaceae	<i>Kalanchoe pinnata</i> (Lam) Pers.	Pathrakuchi	Whole plant	Used against recent wounds	Dey and Gupta,et.,al.,2012

SL. NO.	FAMILY	BOTANICAL NAME	LOCAL NAME	PARTS USED	DISEASE CURED	REFERENCE
1.	Apocynaceae	<i>Calotropis gigantea</i> L.	Akanda	Leaf latex	Skin diseases like boils,sores are treated.	Samanta,2019
2.	Boraginaceae	<i>Heliotropium indicum</i> L.	Hatisur	Root	Root juice is used in skin diseases.	Konar and Mukkherjee,et.,al.,2022
3.	Dipterocarpaceae	<i>Anthosharearoxburhii</i> (G.Don.)	Sal	Stem	Used against skin irritations.	Dey and Gupta,et.,al.,2012
4.	Euphorbiaceae	<i>Acalypha hispida</i> Burm.f.	Shibjata	Leaf	Leaf extract is used to treat skin diseases.	Samanta,2019
5.	Fabaceae	<i>Bauhinia acuminata</i> L.	Sewtkanchan	Bark and Leaf	Bark and leaves paste is used to treat skin ailments.	
6.	Lauraceae	<i>Cinnamomum verum</i> J.Presl.	Daru chini	Stem and bark	Used to treat eczema.	
7.	Oleaceae	<i>Nyctanthesarbor – tristis</i> L.	Seuli,Sansiri	Leaf	Used against body sores.	Dey and Gupta et.,al.,2012
8.	Poaceae	<i>Cynodondactylon</i> L.	Durba	Whole plant	The plant extract is useful for sop bleeding on skin.	Hota and Chatterjee,2016
9.	Rutaceae	<i>Glycosmis pentaphylla</i>	Ban jamir	Leaf	The paste of the leaves is used to treat scabies.	Dr.Amit Saha,2016
10.	Vitaceae	<i>Leea</i>	Hatikan	Root	Used on wounds	Dr.Amit Saha,2016



Aloe vera



Azadirachta indica



Curcuma longa



Cascabela thevetia



Ocimum sanctum



Bambusa bambos



Calotropis gigantea



Tabernaemontana divaricate



Bauhinia acuminata



Piper nigrum



Tabernaemontana divaricate



Cinnamomum verum

CONCLUSION

- A good number of medicinal plants used in curing Dermatological diseases reported from West Bengal.
- Most of the ethnobotanical studies for documentation of medicinal plants used against skin diseases have not followed standard techniques of documentation.
- There is a possibility for the documented plants that they are still not validated in terms of their pharmacological properties and attractive principles.
- So there is a huge scope of study for bioprospection in finding lead molecules to cure large number of dermatological issues of human.

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REFERENCES

- 1. Achintya Kumar Samanta. 2019.** Ethno-medicinal plants used for the treatment of skin diseases from the southern parts of West Bengal, India. Internation research Journal of Basic and Applied Sciences, vol. 4, PP:133-140
- 2. Dr. Amit Saha. 2016.** Ethnomedicinal Plants Used Against Skin Diseases in Asansol Raniganj Coalfield Area of West Bengal, India. INDIAN JOURNAL OF APPLIED RESEARCH, vol. 6, PP: 548-550
- 3. Abhishek Konar, Koyel Mukkherjee, Pranabesh Ghosh and Mohamed El-Shazly. 2022.** Traditional medicinal plants used in different districts of West Bengal by the tribal communities. Journal of Pharmacognosy and Phytochemistry;11(5):104-110.
- 4. Abhijit Dey, Bhaskar Gupta and Jitendra Nath De. 2012.** Traditional phytotherapy against skin diseases and in wound healing of the tribes of Purulia district, West Bengal, India. Journal of Medicinal Plants Research. Vol. 6(33), PP: 4825-4831.
- 5. S. Hota, A. Chatterjee. 2016.** Traditional and indigenous use of plants for the treatment of skin diseases by the tribals in Paschim Medinipur district of West Bengal. Journal of Medicinal Plants Studies; 4(5), PP:175-180.



THANK YOU

D O Y O U H A V E A N Y Q U E S T I O N S ? ?