

วันที่รับบทความ : 12/07/2566 วันแก้ไขบทความ : 30/08/2566 วันตอบรับบทความ : 31/08/2566

วารสารสหเวชศาสตร์ มหาวิทยาลัยราชภัฏสวนสุนันทา

Journal of Allied Health Sciences Suan Sunandha Rajabhat University

พืชสมุนไพรที่ใช้สำหรับการรักษากลุ่มอาการทางผิวหนังในตำรายาหมอพร เซียวหลิ¹, อรอมา ซองรัมย์², อัญชลี ประสารสุขลาภ^{2,3*}

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หน[่]วยปฏิบัติการวิจัยผลิตภัณฑ์ธรรมชาติเพื่อป้องกันความเสื่อมของเซลล์ประสาทและต้านความชรา จุฬาลงกรณ์มหาวิทยาลัย³

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าเทคัดย่อ

ตำรายาสมุนไพรตำรับหมอพรเป็นตำรายาที่เขียนและบันทึกโดยกรมหลวงชุมพรเขตอุดมศักดิ์ (หมอพร) ที่แล้วเสร็จเมื่อปี พ.ศ.2458 การวิจัยนี้เป็นการวิจัยเชิงพรรณามีวัตถุประสงค์เพื่อศึกษาชนิดของ พืชสมุนไพรเฉพาะที่ใช้สำหรับการรักษากลุ่มอาการทางผิวหนังในตำรายาหมอพรที่เป็นภูมิบัญญาทางการแพทย์ แผนไทย โดยรวบรวมตำรับยาและวิเคราะห์พืชสมุนไพรทั้งความถี่ในการใช้และข้อมูลทางด้านวิทยาศาสตร์ จากการศึกษานี้พบว่ามีการใช้สมุนไพรทั้งหมด 66 ชนิด จาก 36 วงศ์ ใน 78 ตำรับ สำหรับการรักษา 29 กลุ่มอาการทางผิวหนัง พบพืชในวงศ์ปาล์ม (Arecaceae) ที่มีการใช้มากที่สุด (ร้อยละ 18) รองลงมาเป็นพืชในวงศ์ถั่ว (Fabaceae/Leguminosae) (ร้อยละ 14) วงศ์พลับพลึง (Alliaceae) (ร้อยละ 12) วงศ์มะเชือและขิง (Solanaceae, and Zingiberaceae) (ร้อยละ 11) ส่วนพืชสมุนไพรที่มีการใช้มากที่สุด ได้แก่ มะพร้าว (Cocos nucifera L.) (ร้อยละ 11) ตามด้วยมะนาว (Citrus aurantifolia Swingle) (ร้อยละ 5) กระเทียม หอมแดง และชุมเห็ดเทศ (Allium sativum L., Allium ascalonicum L., Cassia alata (L.) Roxb) (ร้อยละ 4) ส่วนของพืชที่มีการนำมาเตรียมตำรับยามากที่สุด ได้แก่ ผล (ร้อยละ37) และใบ (ร้อยละ30) การศึกษานี้เป็นรายงานแรกของข้อมูลทางวิทยาศาสตร์ของพืชสมุนไพรที่พบในตำรายาหมอพรโดยเฉพาะสูตร ตำรับยาสำหรับกลุ่มอาการทางผิวหนังซึ่งสามารถช่วยในการอนุรักษ์ความรู้ภูมิบัญญาไทยทางด้านสมุนไพร และเอื้อต่อการวิจัยการพัฒนายาสมุนไพรที่ทันสมัยในอนาคต

คำสำคัญ: พืชสมุนไพร, หมอพร, กลุ่มอาการทางผิวหนัง, แพทย์แผนไทย

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Journal of Allied Health Sciences Suan Sunandha Rajabhat University

Medicinal Plants Used for Treating Skin Conditions in Moh Phon's Thai Herbal Formularies

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ABSTRACT

Mor Phon's Thai herbal formularies were developed and recorded by His Royal Highness Prince Abhakara Kiartivongse, a royal son of King Rama V (Prince of Chumphon or Krom Luang Chumphon Khet Udomsak) until 1915. The purpose of this study was to elucidate traditional Thai medical wisdom regarding Mor Phon's Thai herbal formularies focus on skin conditions. Medicinal plants used for treating skin conditions in Mor Phon's Thai herbal formularies were compiled, authenticated and analyzed the frequency as well as reviewed on their scientific information. Sixty-six plant species from 36 families were mentioned in 78 different formulations for the treatment of 29 different skin conditions. The majority of the plant belong to the families of Arecaceae (18%), Fabaceae/Leguminosae (14%), Alliaceae (12%), Solanaceae (11%), and Zingiberaceae (11%). The most used plant species was Cocos nucifera L. (11%) followed by Citrus aurantifolia Swingle (5%), Allium sativum L., Allium ascalonicum L., Cassia alata (L.) Roxb (4%). Fruit (37%) and leave (30%) were the mostly used plant part to prepare the remedies. This study provides the first report on scientific information of plant materials used in Mor Phon's Thai herbal formularies for skin conditions which can help preserve the traditional medical knowledge and will facilitate future modern herbal drug development research.

Keywords: Medicinal plants, Mor Phon, Skin conditions, Thai traditional Formularies

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Introduction

Traditional medicine has a longstanding history of employing medicinal plants as a primary approach for treating various ailments, including skin conditions¹. Throughout different cultures, the utilization of herbal remedies for dermatological issues has been widely practiced, encompassing a diverse array of plant species²⁻⁴. This study aims to delve into Moh Phon's herbal formularies for skin conditions, focusing on composition of medicinal employed and providing valuable insights utilization and into their therapeutic potential.

The utilization of herbal remedies in traditional medicine for the treatment of skin conditions has deep historical roots that extend back centuries^{5,6}. The wisdom passed down through generations to identify medicinal properties of plants for alleviating dermatological issues⁷.

Moh Phon's collection of herbal formularies represents a valuable repository of this traditional knowledge. The traditional Thai medicine prescriptions of Moh Phon were developed, compiled, and recorded by His Royal Highness Prince Abhakara Kiartivongse, a royal son of King Rama V

(Prince of Chumphon or Krom Luang Chumphon Khet Udomsak) or Moh Phon until 1915⁸. Passed down through the ages, these formularies contain detailed information about the specific plants used, the preparation methods, and the recommended dosages for various skin conditions. They offer a unique perspective on the therapeutic potential of medicinal plants and provide insights into the interplay between nature and human health^{8,9}.

Objective of the study

This study aims to examine the composition of the plants documented in Moh Phon's herbal formularies for skin conditions. By employing scientific methods, we seek to identify the plant families and species utilized, as well as the specific parts of the plants that are most commonly employed in traditional remedies. By analyzing the prevalence and distribution of these plant species, we can gain a deeper understanding of their therapeutic potential and their relevance in the context of traditional medicine.



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Methods

Study design

This study used a descriptive research design.

Data Collection

Moh Phon's traditional Thai medicine formularies were collected from the second edition of Moh Phon's Thai Traditional Medicine Formulary⁸. After collecting, the formularies for skin conditions were screened and selected for further analyze of plants species. All plants materials in each formulation were listed and identified by specialist in Thai traditional medicine. Then, the scientific information of all plants was reviewed through the subscribed databases by the Chulalongkorn University, such as Pubmed, Science Direct, Medline, and Google Scholar.

Data Analysis

The findings from the reviewed studies focus on key parameters, such as scientific name, family, local name, habit, and part used, methods of preparation and administration were recorded for each plant species in the chapter of skin conditions of Moh Phon book. The statistical analysis was conducted in terms of relative frequencies.

Calculation of Frequencies

To determine the relative prevalence of different plant parts and habits, frequencies were calculated. The formula used to calculate the percentage was as follows:

Percentage = (Number of occurrences / Total number of observations) * 100.

The resulting percentage provided a standardized measure for comparison and analysis.

Ethical Consideration

The study approved by the Committee of the Graduate Program in Public Health Sciences, College of Public Health Sciences, Chulalongkorn University due to this this study doesn't involve in humans.

Results

In Moh Phon's herbal formularies, from Table 1 and Table 2, a total of 66 plant species from 36 families were identified. The most prevalent families were Arecaceae (18%), Fabaceae/Leguminosae (14%), Alliaceae (12%), Solanaceae (11%), and Zingiberaceae (11%) of the identified species, respectively. These plants were utilized for various parts, with fruit being the most commonly used, found 37% of the total plant parts used. The plants exhibited diverse habits, with herbs being the most common (36%), followed by shrubs (25%), trees (19%),



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shrub/tree (10%), climbers (7%), and creeping plants (2%). The least common habit among the

mentioned plants was the bush, representing 1% of the species.

Table 1 Medicinal plants used for treating skin conditions in Moh Phon's herbal formularies

Family	No.	Botanical name	Local	Habit	Part used	%
			name			
Acanthaceae	1.	Barleria lupulina Lindl.	เสลดพังพอน	Bush	Leaf	1%
(5%)	2.	Clinacanthus nutans	พญายอ	Shrub	Leaf	1%
		(Burm.f.) Lindau				
	3.	Rhinacanthus nasutus	ทองพันชั่ง	Shrub	Leaf	1%
		(Linn.) Kurz.				
Agaeceae (2%)	4.	Agave sisalana Perrine	ป่าน	Herb	Ash(leaf)	1%
Alliaceae (12%)	5.	Allium ascalonicum L.	หอมแดง	Herb	Bulb	4%
	6.	Allium sativum L.	กระเทียม	Herb	Bulb	4%
Anacardiaceae	7.	Spondias pinnata (L.f.)	มะกอก	Tree	Fruit	1%
(2%)		Kurz				
Amaranthaceae	8.	Cyathula prostrata (L.)	หญ้าพันงูแดง	Shrub	Top-tip	1%
(2%)		Blume				
Apiaceae/Umbe	9.	Apium graveolens L.	ขึ้นฉ่าย	Herb	Leaf	1%
lliferae (8%)	10.	Centella asiatica (L.)	บัวบก	Creepin	Stem	2%
		Urb.		g plant		
	11.	Coriandrum sativum L.	ผักชี	Herb	Root,	1%
					Fruit	
	12.	Cuminum Cyminum L.	ยี่หร่า	Herb	Fruit	1%
Apocynaceae	13.	Calotropis gigantea (L.)	รัก	Herb	Leaf	1%
(2%)		Dryand				
Araceae (2%)	14.	Colocasia esculenta (L.)	เผือก	Herb	Gum/late	1%
		Schott			X	



Family	No.	Botanical name	Local	Habit	Part used	%
			name			
Arecaceae (18%)	15.	Areca catechu L.	หมาก	Tree	Fruit	1%
	16.	Cocos nucifera L.	มะพร้าว	Tree	Shell	11%
Boraginaceae	17.	Heliotropium indicum L.	หญ้าวงช้าง	Herb		1%
(2%)						
Caricaceae (2%)	18.	Carica papaya L.	มะละกอ	Tree	Leaf	1%
Clusiaceae (5%)	19.	Garcinia hanburyi Hook	รงทอง	Tree	Gum	1%
		F.				
	20.	Garcinia mangostana L.	มังคุด	Tree	Peel	2%
Convolvulaceae	21.	Ipomoea aquatica	ผักบุ้งไทย	Herb	Leaf	1%
(2%)		Forsk.				
Cucurbitaceae	22.	Coccinia grandis (L.) J.	ตำลึง	Climber	Leaf	1%
(5%)		Voigt.				
	23.	Lagenaria siceraria	น้ำเต้า	Climber	Leaf	1%
		(Molina) Standl.				
	24.	Momordica charantia L.	มะระ	Climber	Fruit	1%
Dipterocarpacea	25.	Dipterocarpus alatus	ยางนา	Tree	Oil	1%
e (5%)		Roxb.ex G.Don				
	26.	Hopea odorata Roxb.	ตะเคียน	Tree	Wood	1%
	27.	Shorea siamensis Miq.	เต็งรัง	Tree	Leaf	1%
Ebenaceae (2%)	28.	Diospyros mollis Griff.	มะเกลือ	Shrub	Fruit	1%
Euphorbiaceae	29.	Euphorbia tirucalli L.	พญาไร้ใบ	Shrub	Gum/late	1%
(3%)					X	
	30.	Mallotus nudiflorus (L.)	มะทุ่อ	Tree	Leaf	1%
		Kulju & Welzen				
Fabaceae/Legu	31.	Acacia concinna (Willd.)	ส้มป่อย	Shrub	Leaf	1%
minosae (14%)		DC.				
	32.	Cassia alata (L.) Roxb.	ชุมเห็ดเทศ	Shrub	Leaf	4%



Family	No.	Botanical name	Local	Habit	Part used	%	
			name				
	33.	Indigofera tinctoria L.	คราม	Shrub	Leaf	1%	
	34.	Tamarindus indica L.	มะขาม	Tree	Fruit	2%	
	35.	Uraria crinita (L.) Desv.	หญ้าตะขาบ	Shrub	Stem,	1%	
		ex DC.			Leaf		
Gramineae (3%)	36.	Cymbopogon citratus	ตะไคร้	Herb	Stem	2%	
		(DC.) Stapf					
Labiatae (3%)	37.	Ocimum africanum	แมงลัก	Herb	Leaf	1%	
		Lour					
	38.	Ocimum tenuiflorum L.	กระเพรา	Shrub	Leaf	1%	
Lauraceae (3%)	39.	Cinnamomum	การบูร	Tree	Wood	1%	
		camphora (L.) J.Presl					
	40.	Cinnamomum verum J.	อบเชย	Tree	Bark	1%	
		Presl.					
Menispermacea	41.	Tiliacora triandra	ย่านาง	Shrub	Bulb	1%	
e (2%)		(Colebr.) Diels	(เถาวัลย์เขียว				
)				
Musaceae (3%)	42.	Musa sapientum L.	กล้วยน้ำว้า	Tree	Fruit	1%	
	43.	Musa x paradisiaca L.	กล้วยหอม	Tree	Peel	1%	
Myristicaceae	44.	Myristica fragrans Houtt.	จันทน์	Tree	Seed,	1%	
(2%)					Flower		
Myrtaceae (3%)	45.	Syzygium aromaticum	กานพลู	Tree	Flower	2%	
		L. Merr. & Perry					
Oxalidaceae	46.	Averrhoa bilimbi L.	ตะลิงปลิง	Tree	Fruit	1%	
(2%)							
Pedaliaceae	47.	Sesamum indicum L.	งา	Herb	Leaf, oil	2%	
(3%)							
Piperaceae (5%)	48.	Piper betle Linn.	พลู	Climber	Leaf	1%	



Family	No.	Botanical name	Local	Habit	Part used	%
			name			
	49.	Piper nigrum L.	พริกไทย	Climber	Fruit	2%
Rubiaceae (2%)	50.	Oldenlandia biflora L.	น้ำค้างหมาก	Herb	Stem	1%
			ดิบ			
Rutaceae (11%)	51.	Citrus aurantifolia	มะนาว	Tree	Fruit	2%
		Swingle				
	52.	Citrus hystrix DC.	มะกรูด	Tree	Fruit	2%
	53.	Citrus maxima (Burm.)	ส้มโอ	Tree	Peel	1%
		Merr.				
Salvadoraceae	54.	Azima sarmentosa	ต้นพงดอ	Shrub	Root	1%
(2%)		(Blume) Benth. &				
		Hook.f.				
Sapotuceae	55.	Mimusops elengi Linn.	พิกุล	Tree	Leaf	1%
(2%)						
Solanaceae	56.	Capsicum frutescens L.	พริกขึ้หนู	Shrub	Fruit	3%
(11%)	57.	Solanum melongena L.	มะเขื่อยาว	Shrub	Fruit	3%
	58.	Datura metel L.	ลำโพง	Shrub	Fruit	1%
	59.	Capsicum annuum	พริกชี้ฟ้า	Shrub	Fruit	1%
		Linn.				
	60.	Nicotiana tabacum L.	ยาสูบ	Shrub	Leaf	3%
Theaceae (2%)	61.	Camellia sinensis (L.)	ชา	Shrub	Leaf	1%
		Kuntze				
Urticaceae (2%)	62.	Gonostegia pentandra	ขอบชะนาง	Herb	-	1%
		(Roxb.) Miq.	แดง			
Zingeberaceae	63.	Curcuma longa L.	ขมิ้น	Herb	Rhizome	3%
(11%)	64.	Alpinia galanga (L.)	ข่า	Herb		2%
		Willd			Rhizome	



Family	No.	Botanical name	Local	Habit	Part used	%
			name			
	65.	Amomum krervanh	กระวาน	Herb	Fruit	1%
		Pierre ex Gagnep				
	66.	Zingiber montanum	ไพล	Herb	Rhizome	1%
		Roxb.				

Table 2 Moh Phon's herbal formularies used for treating skin conditions

Skin condition	Formula No.	Plant No. from Table 1	Non-plant element	Method of preparation	Method of used
Bacterial infections					
1. Erysipelas (โรคไฟลามทุ่ง)	1	21	Ethyl alcohol	Pound	Apply to lesion
2. Pox/ Abscess (โรคฝี/หัวกำมะลอก)	1	5, 46	-	Pound	Poultice
3. Tetanus (บาดทะยัก)	1	-	Acetic acid (Vinegar)	-	Cover
4. Rotting toe (นิ้วเท้าเน่าเบื่อย)	1	20	Water, Alum	Rasp	Poultice
Fungal infections					
5. Tinea versicolor or	1	55	Sulfur, ethyl alcohol	Pound	Apply to lesion
6. Pityriasis versicolor	2	15	-	Cut	Apply to lesion
(โรคเกลื้อน)	3		Borax, rainwater	Mixed	Apply to lesion



Skin condition	Formula No.	Plant No. from Table 1	Non-plant element	Method of preparation	Method of used
	4	61	Borax,	Decoction	Apply to lesion
			rainwater		
	5		Oecophylla	Crush	Apply to lesion
			smaragdina		
	6	6	-	Pound	Apply to lesion
	7	36	Sodium	Pound	Apply to lesion
			chloride (Salt)		
	8	51	Sulfur	Mixed	Apply to lesion
	9	57	Sulfur	Cut	Poultice
	10	33	Acetic acid	Mixed	Apply to lesion
			(Vinegar)		
7. Tenea circinato	1	3	Kerosene	Pound	Apply to lesion
(โรคกลาก)	2	32, 6	Sodium	Pound	Apply to lesion
			chloride (Salt)		
	3	63	Rainwater	Mixed	Apply to lesion
	4	32	-	Chew	Apply to lesion
	5	32	-	Pound	Apply to lesion
8. Impetigo/ ring	1	63, 16	Copper (II)	Mixed	Apply to lesion
worm		19	sulfate		
(โรคพุพอง/ขึ้กลากเหล็ก)					
9. Tinea crusis	1	58,16	-	Mixed and	Apply to lesion
(โรคสังคัง)		60		Squeeze	
10. Athlete's foot or	1	51	-		Apply to lesion
11. Tinea pedis	2	28	-	Pound	Apply to lesion
(โรคน้ำกัดเท้า)	3		Sulfur,	Pound and	Apply to lesion
			Kerosene	mixed	



Skin condition	Formula No.	Plant No. from Table 1	Non-plant element	Method of preparation	Method of used
	4	7	-	Cut	Poultice
Parasitic infection					
12. Scabies	1	42, 16	Sulfur, rice	Fried	Eat/ Apply to
(โรคหิด)			flour		lesion
	2	16	Dammar,	Digestion	Apply to lesion
			sulfur		
	3	13, 32,	Sulfur	Pound and	Apply to lesion
		60, 16		digestion	
	4	16	-	Burn	Apply to lesion
Rash					
13. Itchy rash due to	1	22	Calcium	Crumble	Apply to lesion
poisoning			carbonate		
(ผื่นคันเพราะถูกพิษ)					
14. Itchy ashes from	1	63, 60	-	Pound and	Apply to lesion
mosquitoes and		16		digestion	
gnats bite					
(ผื่นคันเพราะยุงและริ้นกัด)					
15. Rash	1	10	Calcium	Pound	Apply to lesion
(ผื่นคัน)			carbonate		
	2	31	Water	Decoction	Apply to lesion
	1	66, 45	Salt, Calcium	Decoction	Apply to lesion
		39, 26	Hydroxide		
		16, 47			
16. Rash in children	1	24	Water	Decoction	Apply to lesion
(ผื่นคันในเด็ก)					
Viral infections					



Skin condition	Formula No.	Plant No. from Table 1	Non-plant element	Method of preparation	Method of used
17. Herpes	1	23	Cow stool	Pound	Poultice
simplex/herpes			(dry)		
zoster/eczema	2	16	water	Burn(ashes)	Apply to lesion
(เริม/งูสวัด/ขยุ้มตีนหมา)	3		Nautilus shell,	Rasp	Apply to lesion
			rainwater		
	4		Goose stool,	Burn	Apply to lesion
			ethyl alcohol		
	5	62	Calcium	Rasp	Apply to lesion
			Hydroxide		
			(Limewater)		
	6	17	Water	Pound	Apply to lesion
	7	2	Ethyl alcohol	Pound	Apply to lesion
	8	8	Ashes (wood),	Pound	Apply to lesion
			water		
	10		Rabbit bone,	Rasp	Apply to lesion
			ethyl alcohol		
	11		Red sulfur,	Pound	Apply to lesion
			ethyl alcohol		
18. Warts	1	47	Urine	Pound	Poultice
(หูด)	2	38	-	Crush	Apply to lesion
	3	29	-	Cut	Apply to lesion
	4	14	-	Cut	Apply to lesion
	5		Acid soap,	Mixed	Poultice
			Calcium		
			Hydroxide		



Skin condition	Formula No.	Plant No. from Table 1	Non-plant element	Method of preparation	Method of used
Wound					
19. Animal bites (พิษสัตว์กัดต [่] อย)	1	51	Monosodium glutamate	Squeeze	Apply to lesion
	2	5	-	Crush	Apply to lesion
	3	5, 34	-	Pound	Apply to lesion
	4	56	-	Pound	Poultice
	5		Ammonia	-	Apply to lesion
			solution		
	6	35	Ethyl alcohol	Pound	Poultice
	7	51	-	Rasp	Apply to lesion
	8	18	Calcium	Pound	Poultice
			Hydroxide		
20. Acute wound	1		Honeybee	-	Apply to lesion
(แผลสด)	2	25	White sugar	Mixed	Apply to lesion
	3	50	Ethyl alcohol	Pound	Poultice
	1	10	-	Pound	Poultice
21. Acute and chronic	1	16, 49	Pure lead	Mixed	Apply to lesion
wounds		6			
(แผลสดและแผลเรื้อรัง)	2	41	-	Chew	Poultice
Unknown causes					
22. Itchy	1	53	Water	Decoction	Shower
(โรคคัน)					
23. Pityriasis alba (โรคเกลื้อนน้ำนม)	1	37	Mother's milk	Crush	Apply to lesion



Journal of Allied Health Sciences Suan Sunandha Rajabhat University

Skin condition	Formula No.	Plant No. from Table 1	Non-plant element	Method of preparation	Method of used
24. Vitiligo	1	59, 36, 5,	Sodium	Decoction	Shower-steam
(โรคด ่างขาว)		6, 49, 52,	chloride,		
		64, 45, 11,	shrimp paste,		
		12, 65, 44,	fish sauce,		
		40, 34, 16	palm sugar		
25. Vaginal itching	1	30	-	Decoction	Drink
(โรคคันทวารเบา)					
26. Scaling skin	1	51	-	Cut	Apply to lesion
(โรคผิวหนังตก					
สะเก็ด)					
27. Blister	1	20	Water,	Rasp	Apply to lesion
(แผลพุพอง)			Calcium		
			Hydroxide		
	2	27	Potassium	Pound	Apply to lesion
			permanganate		
28. Cracked skin on	1	43	-	-	Rub
palm and sold					
(ฝ่ามือฝ่าเท้าแตก)					
29. Shoots on the	1	4	Sulfur	Mixed	Apply to lesion
soles			(yellow),		
(หน่อที่ฝ่าเท้า)			engine oil		

Fruits accounted for the highest percentage, comprising 37% of the total. Leaf was the second most prevalent, constituting 30% of the samples. The stem and bulb, representing 9%

and 8% respectively. Rhizomes and flowers each contributed 6% and 3%, while the aerial parts made up 3%. Roots and seeds were less frequently observed, 2% and 1% respectively. It



Journal of Allied Health Sciences Suan Sunandha Rajabhat University

is noteworthy that the top part of the plants and the remaining unidentified parts collectively represented 1% of the total. The methods of preparation used in the study were analyzed to determine their frequency and distribution. Among these methods, the most commonly employed was "Pound," accounting for 38% of the total methods. The next frequently used method was "Mix," comprising 14% Other prevalent methods included "Decoction" (11%), "Cut" (7%), and "Rasp" (7%,). Less commonly utilized methods included "Digestion" (4%), "Burn" (5%), and "Crush" (6%). Methods such as "Crumble," "Squeeze," "Chew," and "Fried" had lower percentages, each appearing only once or twice in the methods. The most common method of application was "Apply," accounting for 72%. "Poultice" was the second most utilized method at 17%, "Shower" represented 5% of the applications Lastly, "Drink" and "Cover" each constituted 2% and 1%, respectively. Additionally, "Rub" and "Eat" both made up 1% of the methods, each observed once.

Discussion and Conclusion

The utilization of medicinal plants in traditional remedies for skin conditions involves a wide range of plant parts, including leaves, fruits, stems, and roots/rhizomes.

Fruit and leaf, in particular, play prominent role in traditional and herbal medicine due to their abundant phytochemical content, easy accessibility, cultural significance, diverse healing properties, and scientific validation. With their rich array of bioactive compounds and broad spectrum of therapeutic activities, leaves serve as valuable resources for addressing various health conditions ¹⁰⁻¹².

The analysis of Moh Phon's herbal formularies revealed a variety of methods used to prepare the plants. In Mor Phon's formularies similar with some other studies, pounding was one of the most common method¹³, and applying the plants to lesions was a common method for herbal treatment¹⁴. The incorporation of non-plant elements in herbal remedies underscores the comprehensive approach and cultural significance of these treatments for skin conditions¹⁵.

The species that most frequently occurs, Cocos nucifera L., within Moh Phon's formularies, is also present in formulations from other countries, such as Vietnam¹⁶. But some previous studies reported the differences in the most frequent plants used for skin condition treatments such as in



Journal of Allied Health Sciences Suan Sunandha Rajabhat University

Germany, Egypt, and China which common plant species used were Arnica montan¹⁷, Alkanna Species¹⁸, and Glycyrrhiza glabra L.¹⁹, respectively.

It is recommended that future studies focus on identifying and characterizing the bioactive compounds present in these medicinal plants to fully comprehend their therapeutic mechanisms and explore their potential applications in modern medicine.

Acknowledgments

We would like to thank His Royal Highness Admiral Prince Abhakara of Chumphon's Family Foundation for the valuable insights into Moh Phon's life. We are also grateful to Prof. Nijsiri Ruangrungsi, Asst. Prof. Chanida Palanuvej for the assistance in plant species verification. Also, I would like to thank Ms. Sunanta Wongchalee and Ms. Surada Suwannapak for suggestions.

References

 Khan MSA, Ahmad I. Herbal medicine: current trends and future prospects. New look to phytomedicine: Elsevier; 2019. p. 3-13

- 2. Kennedy DA, Lupattelli A, Koren G, Nordeng H. Herbal medicine use in pregnancy: results of a multinational study. BMC Complement Altern Med. 2013; 13(1): 355. doi: 10.1186/1472-6882-13-355
- 3. Bahekar S, Kale R. Herbal plants used for the treatment of malaria-a literature review. J Pharmacogn Phytochem.2013; 1(6): 141-6
- Glover DD, Amonkar M, Rybeck BF, Tracy TS. Prescription, over-the-counter, and herbal medicine use in a rural, obstetric population. Am J Obstet Gynecol. 2003; 188(4):1039-45. doi: 10.1067/mob.2003.223
- Sen S, Chakraborty R. Revival, modernization and integration of Indian traditional herbal medicine in clinical practice: Importance, challenges and future. J Tradit Complement Med. 2017; 7(2): 234-44. doi: 10.1016/j.jtcme. 2016.05.006
- Dev S. Ancient-modern concordance in Ayurvedic plants: some examples. Environ. Health Perspect. 1999;107(10): 783-9
- Afolayan AJ, Grierson DS, Mbeng WO. Ethnobotanical survey of medicinal plants used in the management of skin disorders among the Xhosa communities of the Amathole District, Eastern Cape, South Africa. J Ethnopharmacol. 2014; 153(1): 220-32



- Phothisom W. Development of moh phon's diseases and herbal drugs database.
 Bangkok: Rajamangala University of Technology Phra Nakhon: 2021
- Mulholland J. Thai traditional medicine: ancient thought and practice in a Thai context. J Siam Soc. 1979;67(2):80-115.
 PMID: 11617470
- Okoli R, Aigbe O, Ohaju-Obodo J, Mensah
 J. Medicinal herbs used for managing some common ailments among Esan people of Edo State, Nigeria. Pakistan J Nutr 2007; 6(5): 490-6
- 11. Sharma HK, Chhangte L, Dolui AK. Traditional medicinal plants in Mizoram, India. Fitoterapia. 2001; 72(2): 146-61. doi: 10.1016/s0367-326x(00)00278-1
- 12. Jain R, Jain SK. Traditional medicinal plants as anticancer agents from Chhattishgarh, India: An overview. Int J Phytomedicine 2010; 2(3):1
- Purwanti E, Mahmudati N, Faradila S F, et al.
 Utilization of plants as traditional medicine
 for various diseases: Ethnobotany study in
 Sumenep, Indonesia AIP Conference
 Proceedings 2231, 040024 (2020);
 https://doi.org/10.1063/5.0002430
 Published Online: 22 April 2020

- 14. Van der Merwe D, Swan G E, Botha C J.

 Use of ethnoveterinary medicinal plants in cattle by Setswana-speaking people in the Madikwe area of the North West Province of South Africa[J]. J S Afr Vet Assoc 2001, 72(4): 189-96
- 15. Asase A, Kadera ML. Herbal medicines for child healthcare from Ghana. J Herb Med. 2014; 4(1): 24-36
- 16. Pham T L B, Thi T T, Nguyen H T T, et al. Anti-aging effects of a serum based on coconut oil combined with deer antler stem cell extract on a mouse model of skin aging[J]. Cells, 2022, 11(4): 597
- 17. Shenefelt PD. Herbal Treatment for Dermatologic Disorders. In: Benzie IFF, Wachtel-Galor S, editors. Herbal Medicine: Biomolecular and Clinical Aspects. 2nd edition. Boca Raton (FL): CRC Press/Taylor & Francis; 2011. Chapter 18. Available from: https://www.ncbi.nlm.nih.gov/books/NBK92761/
- 18. Abdel-Gelil O E A, Atwa N A, Moustafa A R A, et al. Alkanna species: a promising herbal medicine and its uses[J]. J Food Sci Nutr Res 2019; 2(4): 309-15.
- 19. Parvaiz M, Hussain K, Khalid S, et al.

 A review: Medicinal importance of
 Glycyrrhiza glabra L.(Fabaceae family)[J].
 Global J Pharmacol, 2014, 8(1): 8-13