

( NPO法人 )

Clover Health International

年次社員総会

開催日時：2025年11月22日（日）10:00-11:00

# 設立の趣旨

テクノロジーとエビデンスに基づいた医療の融合を通して、  
Quality of Life (QOL)を著しく低下させる感染症\*に  
罹った人々に関し、早期発見・早期治療、関連する研究や  
診断・治療法の確立、従事する人材の育成に取り組むこと  
で、人類の健康と社会の福祉に貢献する。

\* フォーカス：「皮膚関連顧みられない熱帯病 skin-related neglected tropical diseases」（皮膚NTDs）

# 理念の 4 つの柱

健康

尊厳

技術

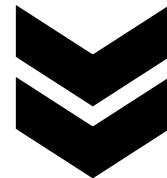
教育



# 主なターゲット疾患

顧みられない熱帯病

Neglected Tropical Diseases (NTDs)



NTDsを切り口に、他の疾患への貢献

# 年間活動内容

- 
- |          |  |
|----------|--|
| 2024.11月 | 年次社員総会                                   |
| 2025.1月  | 世界NTDデー・イベント<br>世界NTDの日2025・日本実行委員会      |
| 2025.1月  | コートジボワール・フィールド・サポート                      |
| 2025.5月  | WHO年次総会で皮膚疾患が公衆衛生の優先課題に認定                |
| 2025.6月  | 第124回日本皮膚科学会総会・展示                        |
| 2025.8月  | 第9回アフリカ開発会議（TICAD9）@横浜でNPO資料配布           |
| 2025.10月 | NTD NTG Network会議2024@ウガンダ               |
| 2025.11月 | 世界アトピー性皮膚炎学会にてコートジボワール共同プロジェクト紹介@オーストラリア |



2025世界NTDの日ウェビナー

後で見る 共有



## 登壇者紹介



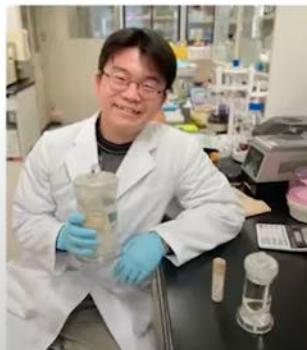
四津 里英 氏

チューレーン大学 热帯医学・感染症学教室 准教授  
特定非営利活動法人クローバーヘルス・インターナショナル 理事長



石原 聰太 氏

滋賀県立守山高等学校



吉川 侑也 氏

鳥取大学医学部熱帯医学研究会



三條場 千寿 氏

東京大学 大学院農学生命科学研究科



酒井 郁弥 氏

琉球大学熱帯医学研究会

世界NTDデー・イベント



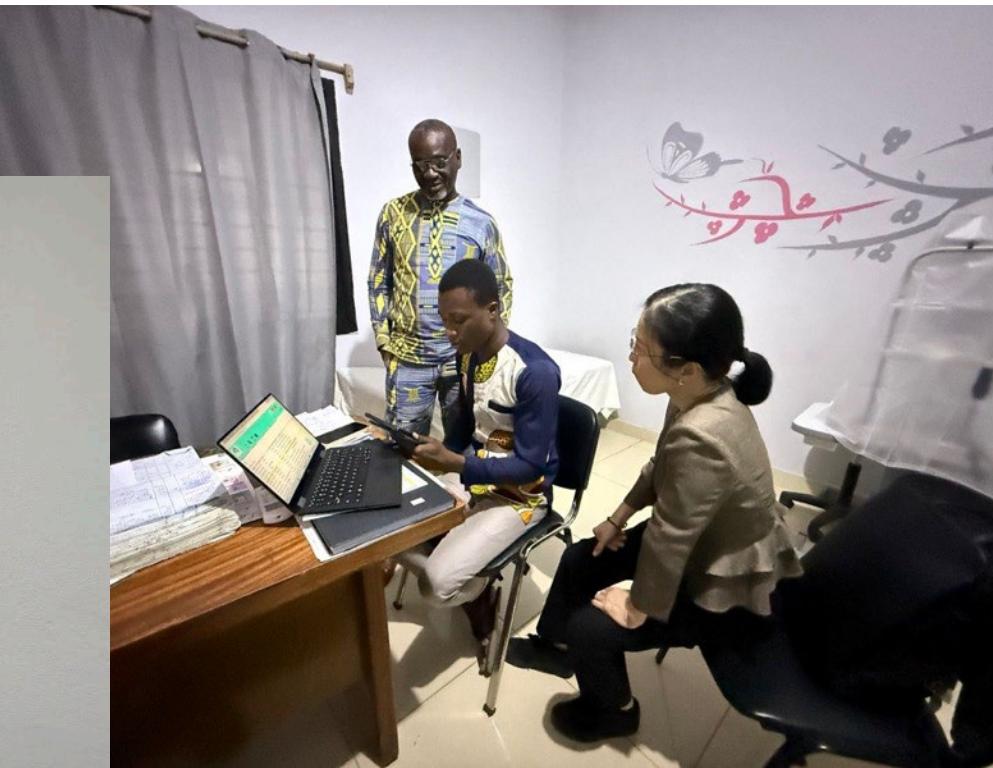
四津 里英

## コートジボワールの皮膚病の診断に役立つ 革新的で多機能なデジタル ツール

私たちのイノベーションとアプローチ

- 1 ポータブル患者記録および参照システム
- 2 テレダーマトロジー
- 3 シンドロームアプローチ研修





コートジボワール CI



The 124th Annual Meeting of the Japanese Dermatological Association

# 第124回日本皮膚科学会総会

会期 2025年5月29日(木)～6月1日(土) 会頭 石河 晃  
会場 パシフィコ横浜

[東邦大学医学部  
皮膚科学講座 教授]

HOME

会頭挨拶

開催概要

プログラム



皮膚科学会総会展示 JP

# work Conference





## Skin Symposium 2025

Advancing Integration of Skin NTDs and Driving Action through Partner Collaboration

Dr Rie Yotsu, Chair, NNNSCCG

Dr Niraj Parajuli, Vice-Chair, NNNSCCG

16<sup>th</sup> Annual  
Skin Symposium 2025

Advancing Integration of Skin NTDs and Driving Action through Partner Collaboration

## Skin Symposium 2025

Advancing Integration of Skin NTDs and Driving Action through Partner Collaboration

Dr Rie Yotsu, Chair, NNNSCCG

Dr Niraj Parajuli, Vice-Chair, NNNSCCG



近藤裕哉さん  
NTDs Youthの会

Yona Yangazaさん  
One Health Society

Elisha Pembeseさん  
One Health Society\*

Erick Sylvesterさん  
One Health Society\*

\*タンザニア

Niraj Parajuli先生  
ネパール



YouTube

広報活動



高く評価



低く評価



0



共有



リミッ...



クローバー・ヘルス・  
インターナショナルは  
IT技術を活用し、ナショナル

: on-line and off-line use



1



低く評価



0



共有



リミッ...

IT技術を活用し、  
現地の医師を  
サポートしています。

# WHA Resolution 78.15: Skin Diseases as Global Public Health Priority

 World Health Organization

Seventy-eighth World Health Assembly

Agenda item 13.4 WHA78.15  
27 May 2025

### Skin diseases as a global public health priority

The Seventy-eighth World Health Assembly,  
Having considered the report by the Director-General;<sup>1</sup>  
Recalling Member States' commitment to achieve universal health coverage, including access to essential healthcare services for all;  
Acknowledging that skin diseases encompass a wide range of conditions, including infectious, inflammatory-autoimmune disorders, congenital dermatosis, chronic and rare conditions, malignant skin tumours, and climate and environmental sensitive dermatological conditions, which often remain undiagnosed and untreated, particularly in developing countries;  
Highlighting the efforts to prevent, improve early detection and treatment of, reduce the burden of, eliminate and raise awareness of various types of skin diseases and conditions;  
Recalling the relevant resolutions pertaining to some skin diseases: WHA57.1 (2004) on surveillance and control of *Mycobacterium ulcerans* disease (Buruli ulcer); WHA60.13 (2007) on control of leishmaniasis; WHA64.16 (2011) on eradication of dracunculiasis; WHA66.12 (2013) on neglected tropical diseases; WHA67.9 (2014) on psoriasis; WHA69.21 (2016) on addressing the burden of mycetoma; and WHA75.20 (2022) on the global health sector strategies on, respectively, HIV, viral hepatitis and sexually transmitted infections;  
Recalling also other relevant resolutions such as WHA68.7 (2015) on the global action plan on antimicrobial resistance; WHA69.19 (2016) on the global strategy on human resources for health: workforce 2030; WHA69.25 (2016) on addressing the global shortage of medicines and vaccines; WHA76.5 (2023) on strengthening diagnostics capacity; WHA76.6 (2023) on strengthening rehabilitation in health systems; and WHA77.14 (2024) on climate change and health;  
Concerned about discrimination and violence against persons affected by skin diseases and their families;  
Concerned also that the prevalence of emerging infectious diseases is increasingly reflected through skin manifestations and noting the importance of recognizing these signs as critical indicators for early detection and response to public health challenges;

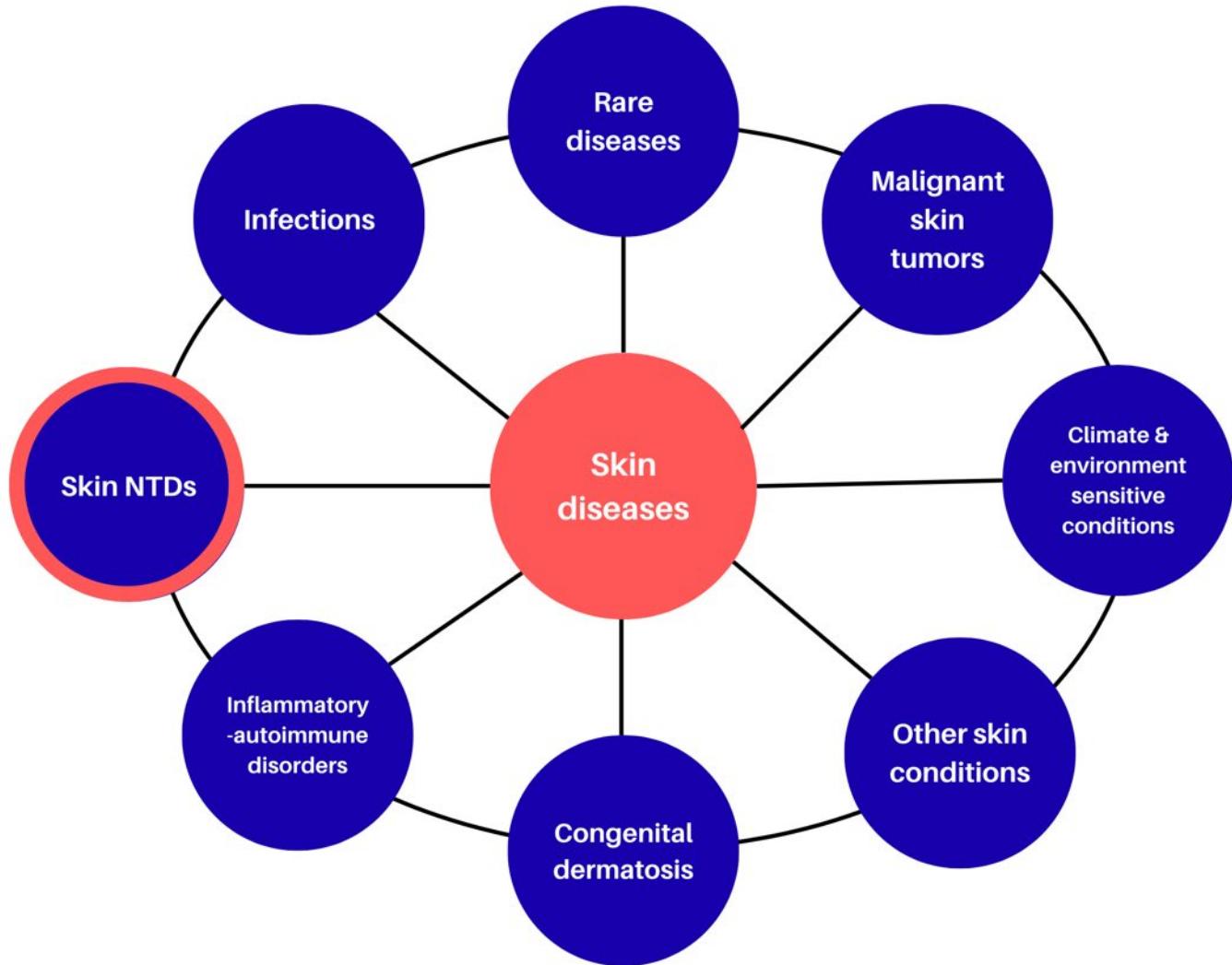
<sup>1</sup> Document A78/4.

WHO年次総会で皮膚疾患が公衆衛生の優先課題に認定

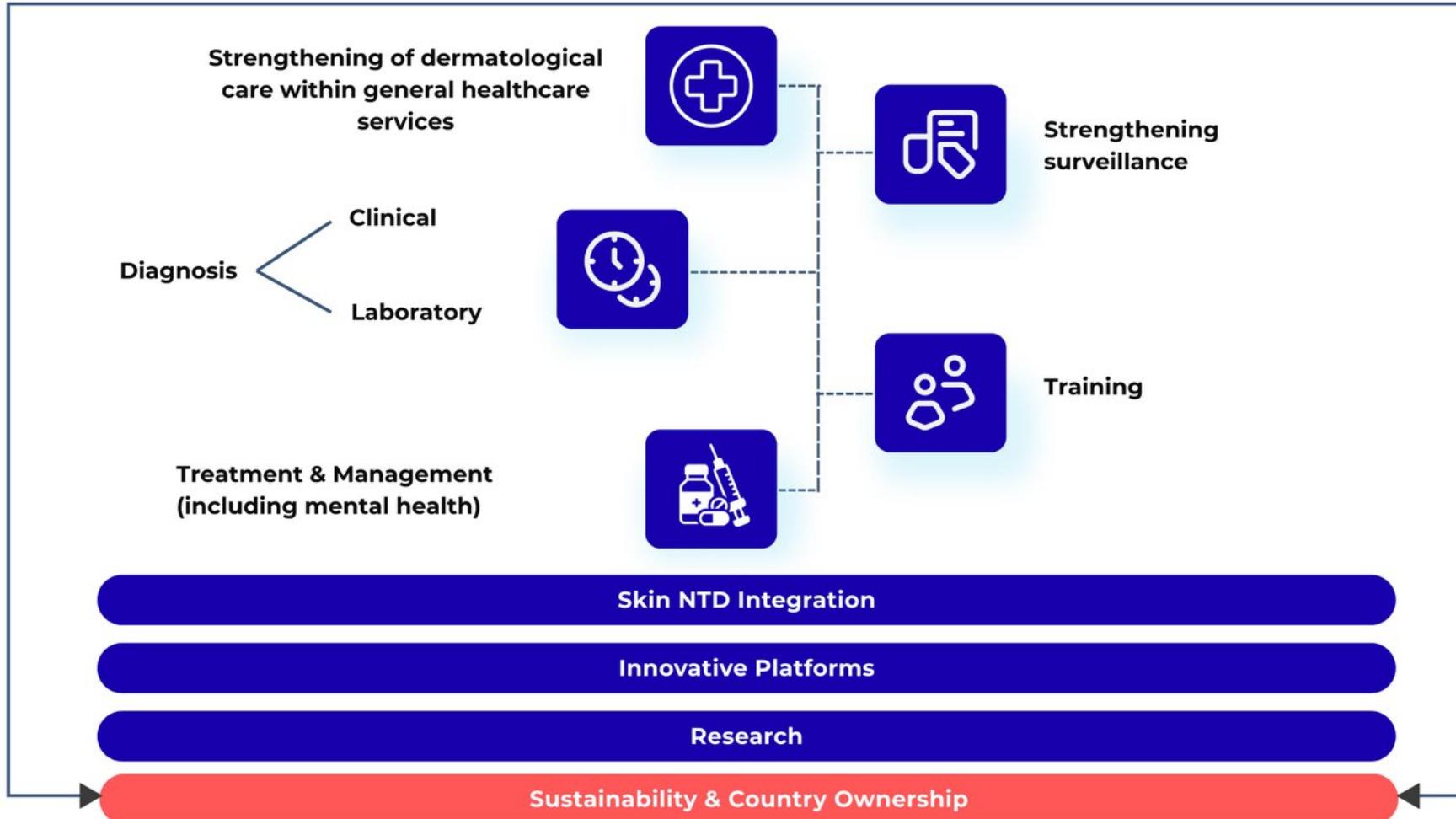


World Health Assembly, 24 May 2025  
**Adoption of a resolution on skin diseases**

2025年5月24日



# Priority Areas for Action -WHA Skin Resolution-



# Skin NTD Integration in Côte d'Ivoire

- Leading Country of the WHA Skin Resolution -



National Control Program for Buruli Ulcer



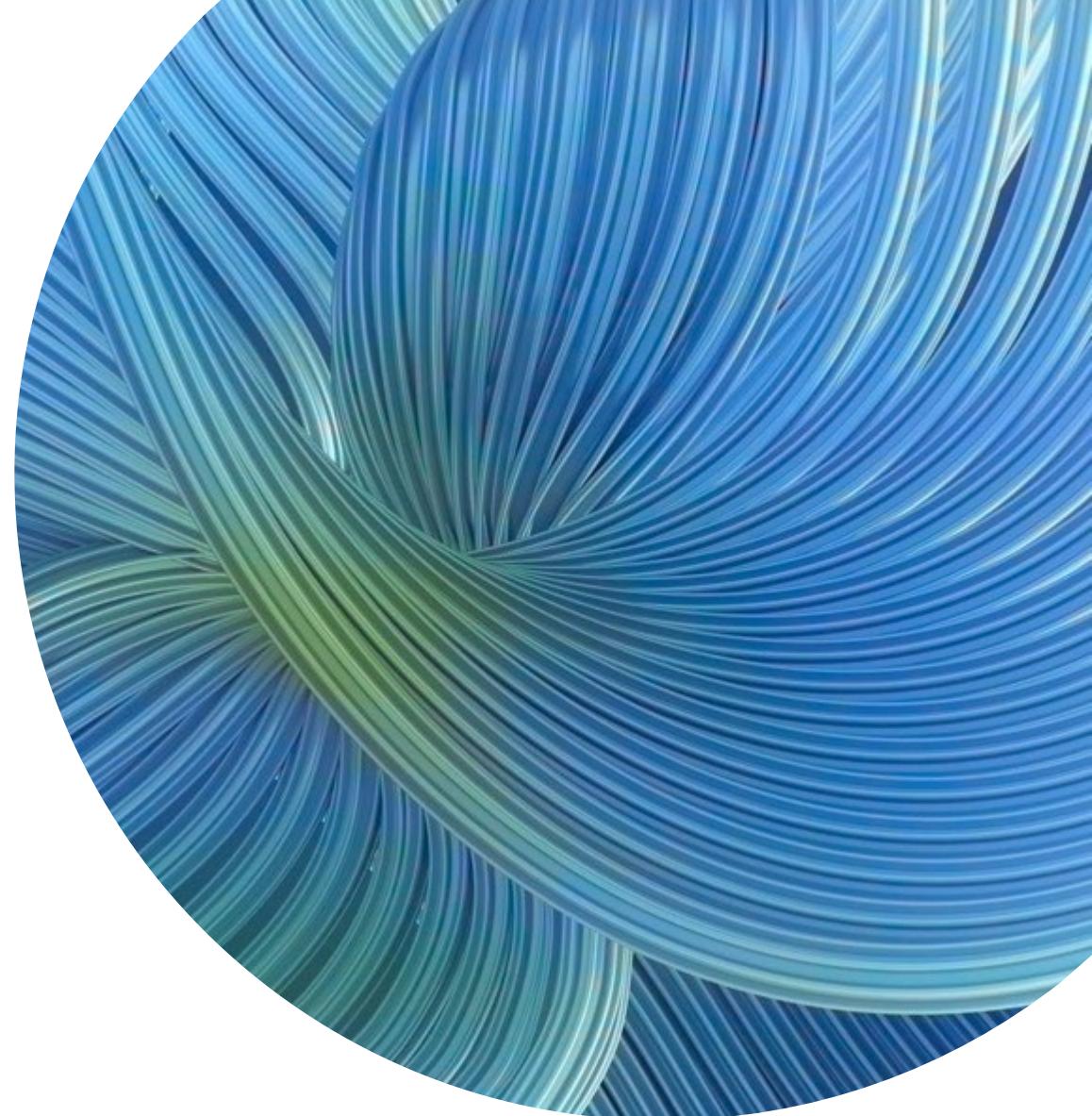
National Control Program for Buruli Ulcer and  
Other Endemic Cutaneous Ulcerations



*M. ulcerans* PCR (-)  
ML (-) Culture (-)  
→ non-BU

*M. ulcerans* PCR (+)  
ML(+) Culture (+)  
→ BU

# **Skin Health for All**



# 他のNPO/NGOとの相違点

エビデンスを構築し、世界へ発信！！





# MIND-the-SKIN Project

Multi-functional Innovative Digital Toolkit for the SKin Diseases  
in LMICs and Beyond

## eSkinHealth app:

Digital health tool that functions as a portable patient chart, and facilitates teledermatology when in need, with offline function

## Objectives:



**Impact evaluation of eSkinHealth in improving case detection and diagnosis of skin diseases**



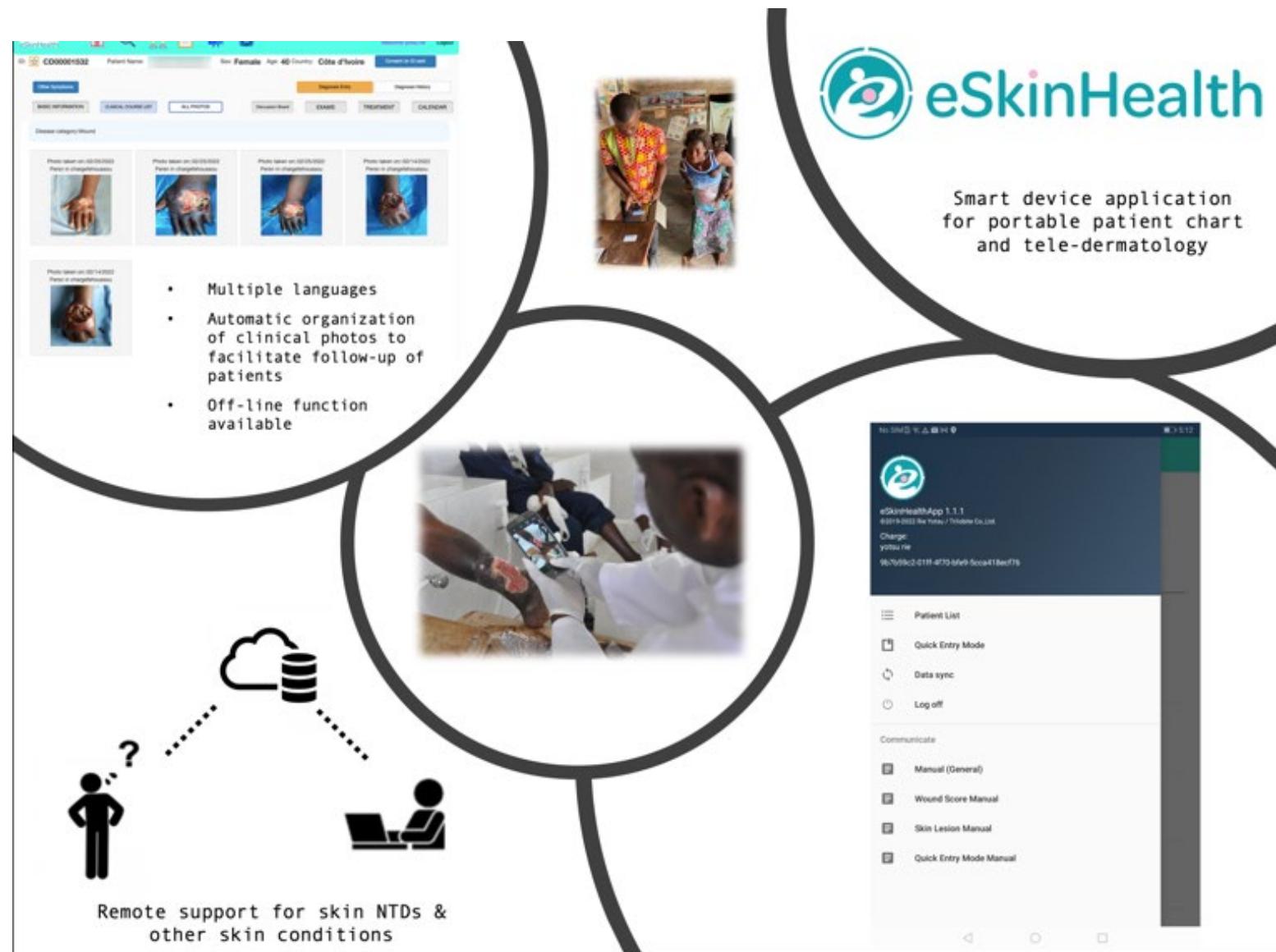
**Development of AI-based wound assessment tool for darker skin**



**Optimization of photo analysis of skin lesions on darker skin**

# Digital Health Tool : 'eSkinHealth' app

- Device application for:
  - ✓ Portable patient chart
  - ✓ Teledermatology
- Off-line function for remote use
- Any types of skin conditions
- Allows documentation of patients' clinical course over time
- Lab data entry
- Automatic translation



# Results: Nov 2023 – Oct 2025

Month/Year	Case no.	Month/Year	Case no.
11/2023	23	6/2025	23
12/2023	19	7/2025	31
01/2024	36	8/2025	37
02/2024	45	9/2025	42
03/2024	85	10/2025	14
04/2024	104	<b>TOTAL</b>	<b>1624</b>
05/2024	101		
06/2024	78		
07/2024	91		
08/2024	114		
09/2024	107		
10/2024	182		
11/2024	135		
12/2024	90		
1/2025	86		
2/2025	102		
3/2025	79		
4/2025	60		
5/2025	72		

地方



都市



# Number of days from entry to diagnosis by a dermatologist

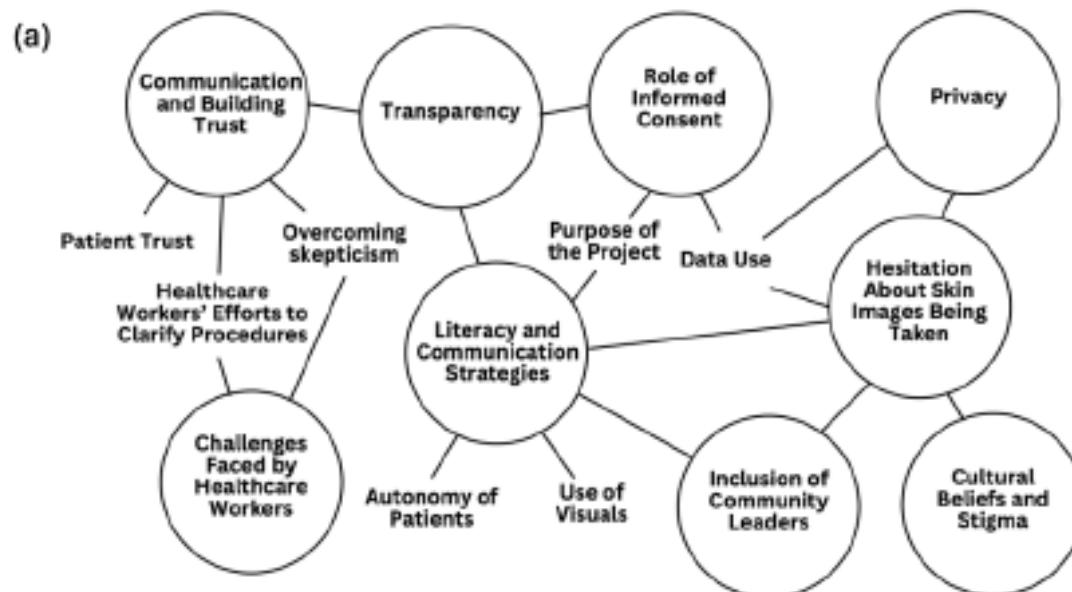
100.0%	Max	61
99.5%		60
97.5%		53
90.0%		35
75.0%	IQR75%	19
50.0%	Median	8
25.0%	IQR25%	3
10.0%		1
2.5%		0
0.5%		0
0.0%	Min	0

Current

Average	13.316256
S.D.	13.87815
S.E.	0.4356107
<b>TOTAL</b>	<b>1015</b>

\*IQR >90% were deleted from dataset.

# Qualitative Data



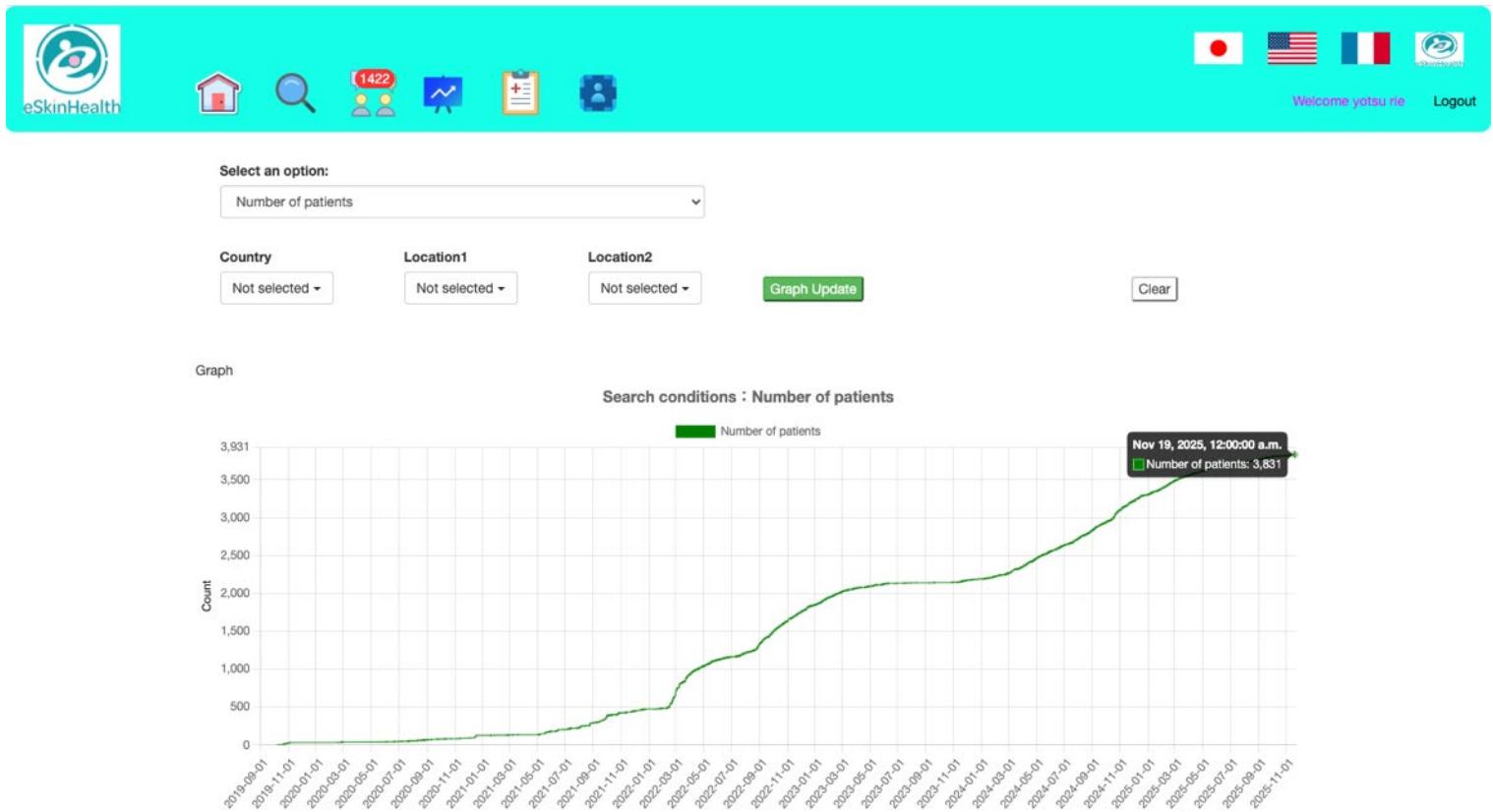
**Fig 1.** Pilot qualitative study exploring the bioethical dimensions of the MIND-the-SKIN Study. (a) Mapping out key themes. (b) Scene of patient registration in the eSkinHealth app. (c) Focus group discussions with local healthcare providers. (d) Interview with a patient.

**Table 1.** Key emerging themes and representative quotes around the bioethical dimensions of the MIND-the-SKIN Study.

Bioethical themes	Representative quotes
Communication & building trust	"When I saw my photos in the tablet and the doctor showed me how my condition had improved over time, I felt confident that the photos were really helping with my care." (*) "For us, it's about building trust. When patients see their own photos and understand that we are helping them, they become more open to the process."
Transparency	"Sometimes patients are reluctant to have photos taken if they don't fully understand the purpose. Explaining and gaining their trust is key."
Role of informed consent	"It's important that patients understand where their photos go and how they are used. Without this explanation, they may feel exploited."
Privacy	"My only concern was whether my privacy would be respected. Once they explained the process, I felt reassured and agreed to participate." (*) "Patients sometimes worry about how their data will be used. They need assurance that it's for medical purposes and that their privacy will be protected."
Hesitation about skin images being taken	"Before taking any photo, we explain to the patient what we are doing and why. We emphasize that their photos will not be shared on social media like Facebook, which is a concern for many."
Cultural beliefs and stigma	"In some communities, cultural beliefs make people hesitant about photography, particularly of sensitive conditions like skin diseases."
Inclusion of community leaders	"Many patients trust their local community leaders. When we involve these leaders in explaining the project, it helps patients feel more comfortable."
Literacy and communication barriers	"Many patients don't understand technical terms, so the explanations must be simple and clear. Using visuals can help a lot."
Challenges faced by healthcare providers	"Sometimes patients don't understand when we explain the purpose of the project. The technical terms confuse them, and they ask many questions that we struggle to answer."

(\*) : Quotes by patients. Other quotes were provided by either a nurse or a community health volunteer.

Nov 19,  
2025  
3,831 cases



# Enhancing Skin Disease Diagnosis: Interpretable Visual Concept Discovery with SAM Empowerment\*

Xin Hu<sup>1,†</sup>, Janet Wang<sup>1,†</sup>, Jihun Hamm<sup>1</sup>, Rie R Yotsu<sup>2</sup>, Zhengming Ding<sup>1,‡</sup>

<sup>1</sup>Department of Computer Science, Tulane University

<sup>2</sup>Department of Tropical Medicine, Tulane University

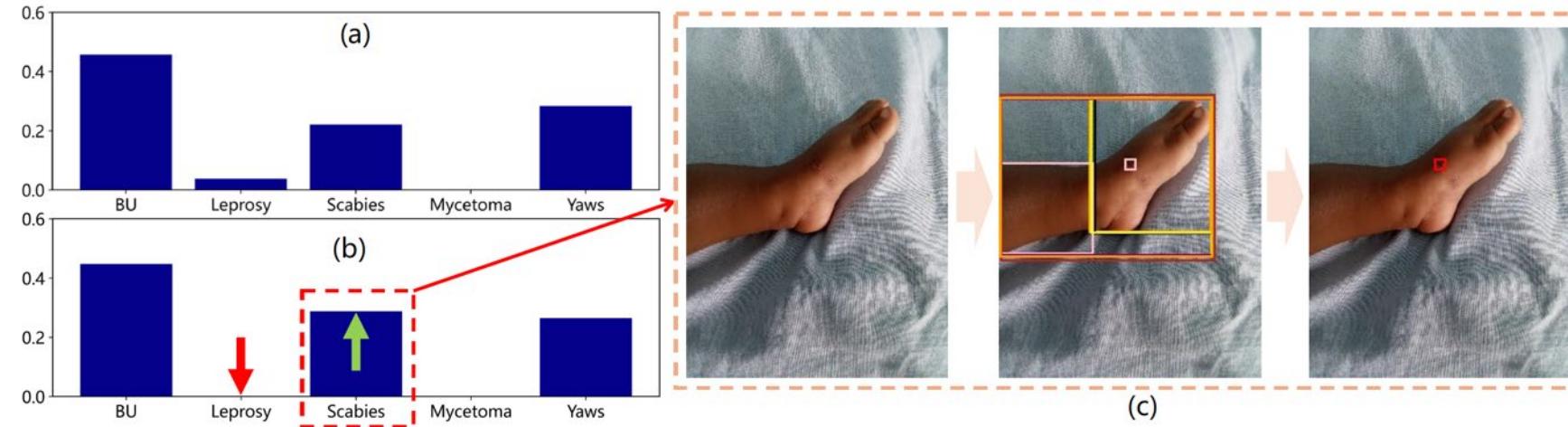
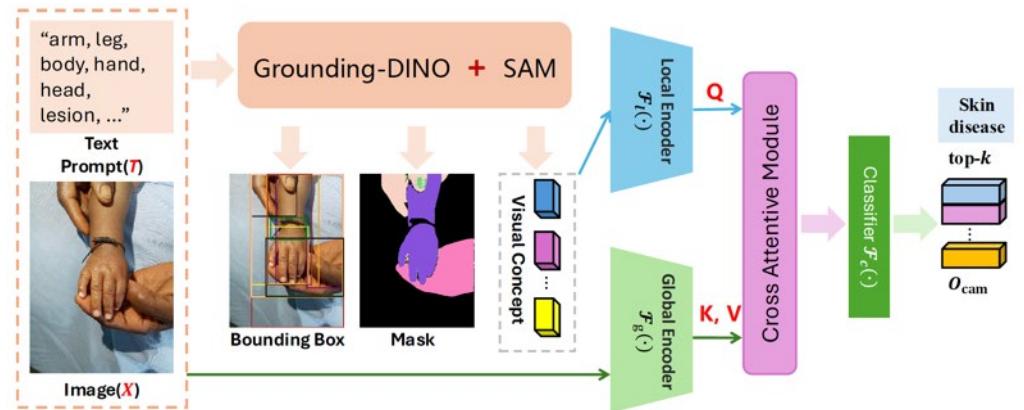


Figure 4. Performance comparison between baseline(global) and fusion(local + global) methods with the MIND-the-SKIN dataset. (a) shows the confidence for each condition by the baseline method; (b) the class-wise confidence by our fusion method; (c) demonstrates one "Scabies" example that is wrongly recognized by the baseline method and correctly predicted by our proposed fusion model.

# 他のNPO/NGOとの相違点

エビデンスを構築し、世界へ発信！！



# 会員状況

- 2024年10月末：
  - 正会員：27名
  - 特別会員：0名
  - 賛助会員：7名
- ホームページの「活動に参加するには」より、新規会員あるいは寄付を受け付けています。

# 今後の事業予定

- eSkinHealthアプリ導入地域での実績構築
- 国内外での皮膚NTDs啓発活動
- 資金源の多様化、事業の持続性確保
- 若手研究者・活動家補助事業
- 国内皮膚NTDs診療支援事業



引き続き、ご支援のほど  
よろしくお願ひ申し上げます。

