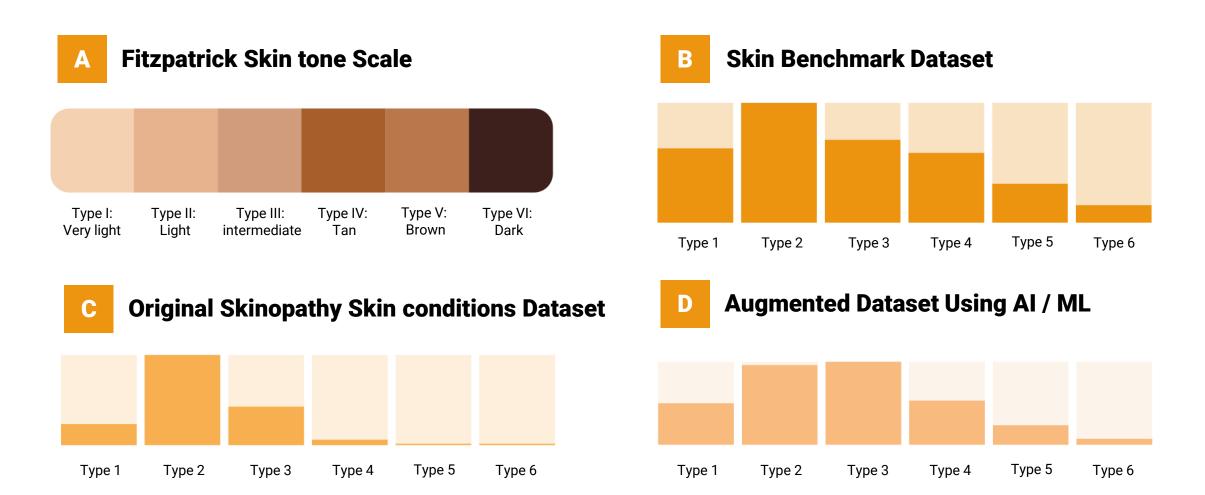


ACNE DATA & AI

Accessible Inclusive Dermatology Everywhere

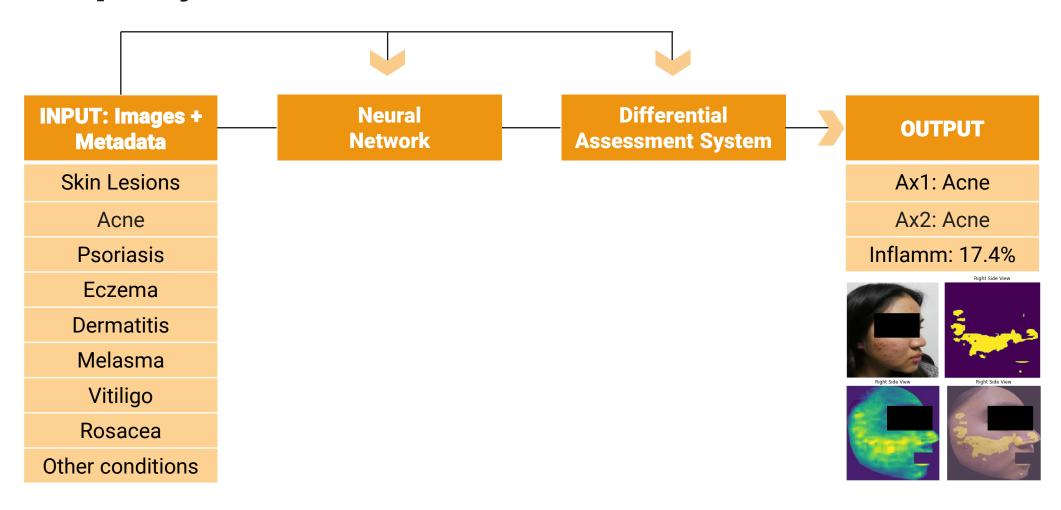


Augment Al Data for Equitable Skin Tone Sensitivity



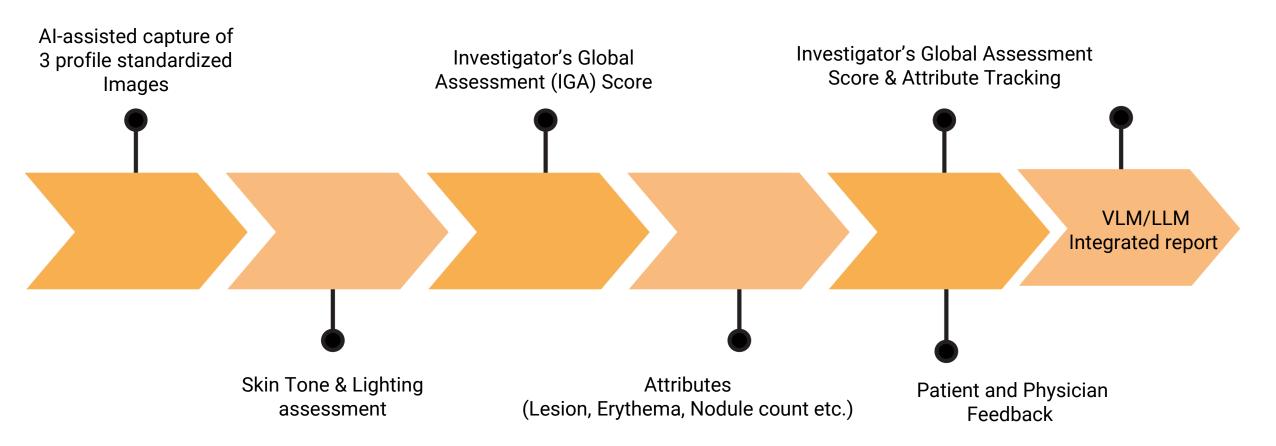
(Mhedbi et al, 2023)

Skinopathy Al Model



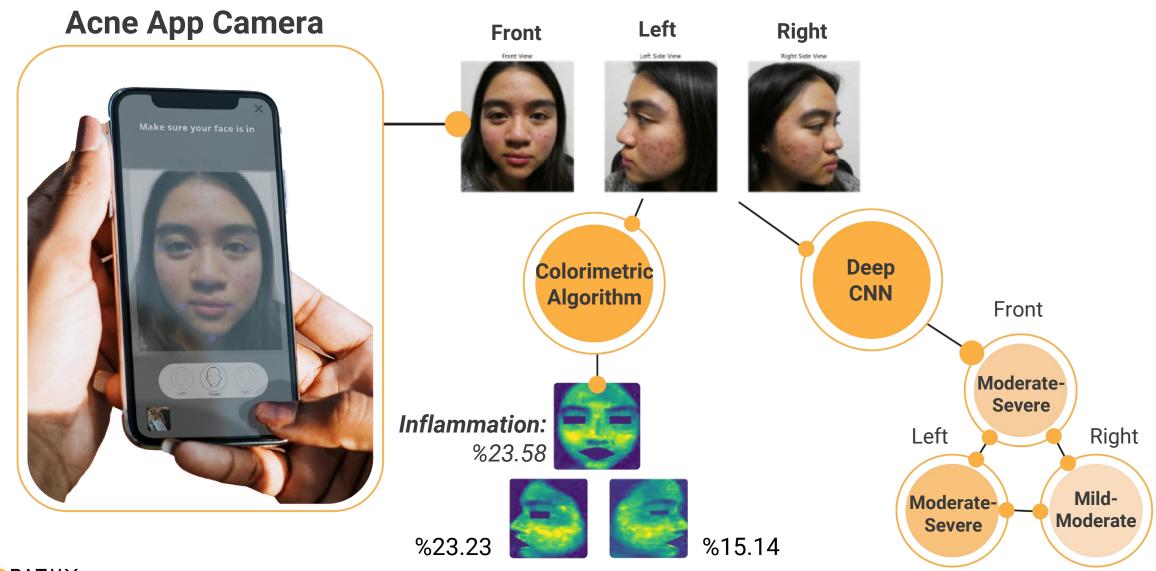
A Machine Learning pipeline utilizing neural network and non-probabilistic and LLM models for differential assessment of dermatological conditions

Image-Based Assessments for Acne

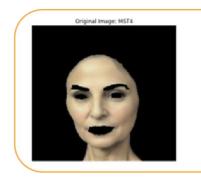




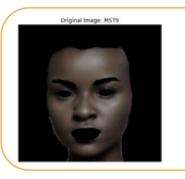
Automated 3-profile Image Capture



Baseline Skin Tone from an Image: Monk Scale Provides Finer-grained Delineation & Assessment Equity than ITA





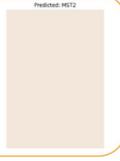






MST1

MST6



MST2

MST7

MST3

MST8

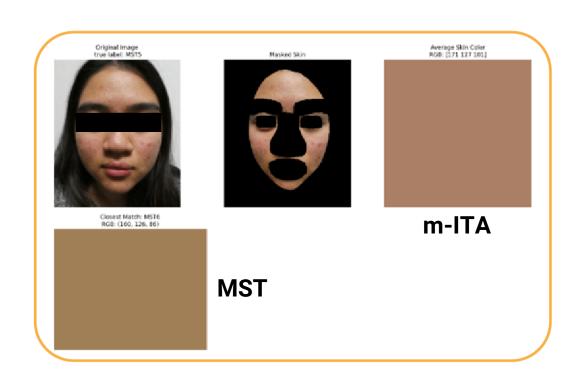


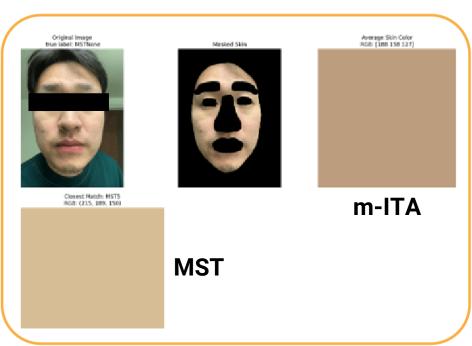
MST4	MST6
MST9	MST10

	Precision	Recall	+1 - Score	Suport
MST_1	1.00	0.97	0.99	36
MST_2	1.00	0.83	0.91	42
MST_3	0.94	0.83	0.88	18
MST_4	1.00	0.71	0.83	38
MST_5	0.69	1.00	0.82	36
MST_6	0.78	0.97	0.86	33
MST_7	0.94	1.00	0.97	15
MST_8	1.00	0.93	0.96	28
MST_9	0.93	0.93	0.93	28
MST_10	1.00	0.91	0.95	22

Accuracy			0.90	236
Macro Avg	0.93	0.91	0.91	236
Weighted Avg	0.92	0.90	0.90	236

Colorspace Colorimetry (m-ITA) & Monk Skin Tone – Equitable AI & Light/Shadow Control

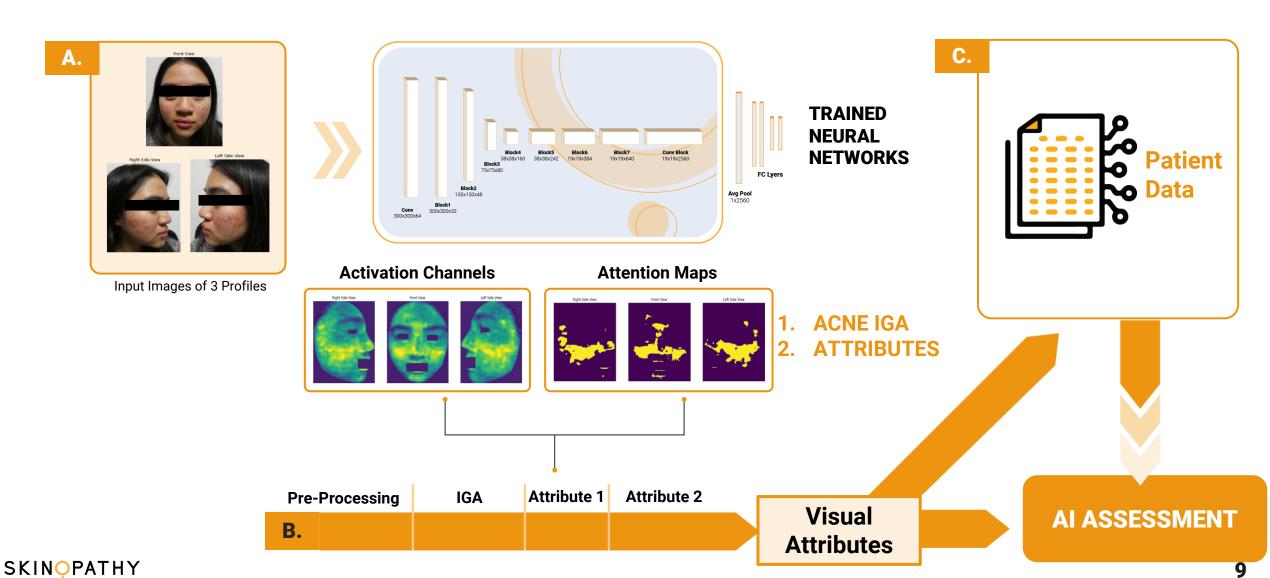




Fitzpatrick Scale

Monk Scale

Multi-Modal AI Pipeline to Assess IGA & Visual Attributes of Facial Acne



What is the Investigator Global Assessment (IGA) Score?

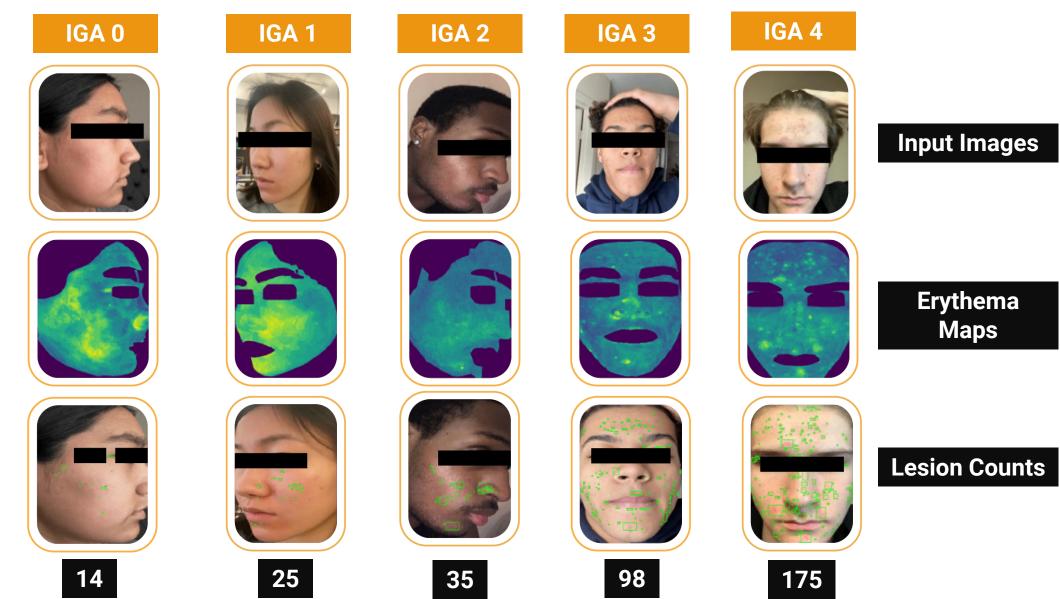
"A measure of acne severity that has been used in clinical trials and controlled experimental studies since it was approval by the US FDA in 2005"

- A Comprehensive Review of the Acne Grading Scale in 2023, Annals of Dermatology

0 - Clear	Clear skin with no inflammatory or noninflammatory lesions	
1 - Almost Clear	Rare noninflammatory lesions with more than one small inflammatory lesion	
2 – Mild	Greater than grade 1; some noninflammatory lesions with no more than a few inflammatory lesions (papules/pustules only, no nodular lesions)	
3 - Moderate	Greater than grade 2; up to many noninflammatory lesions and may have some inflammatory lesions, but no more than one small nodular lesion	
4 - Severe	Greater than grade 3; up to many noninflammatory and inflammatory lesions, but no more than a few nodular lesions	
5 - Very Severe	Greater than grade 4; many non-inflammatory and inflammatory lesions and more than a few nodular lesions. May have cystic lesions	

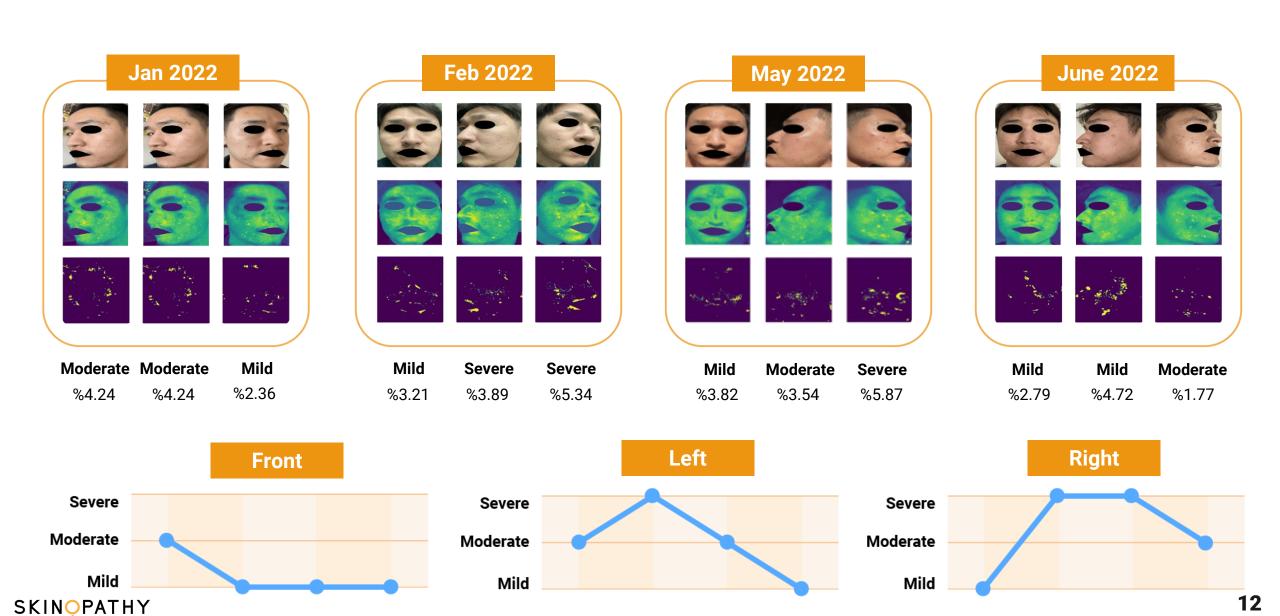


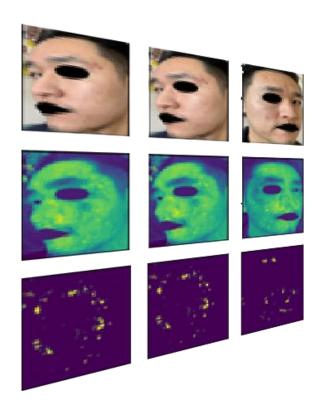
IGA & Specific Visual Attributes – Real World Evidence

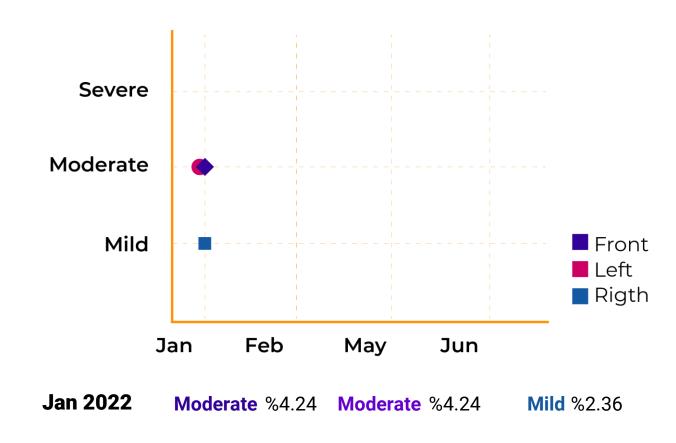


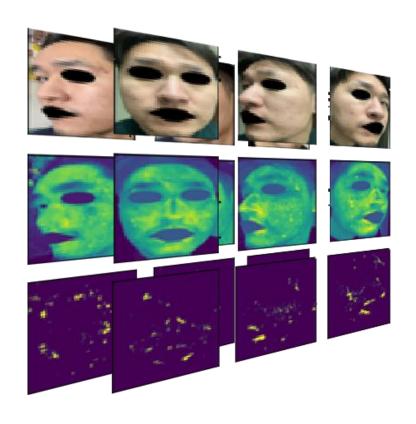
SKINOPATHY

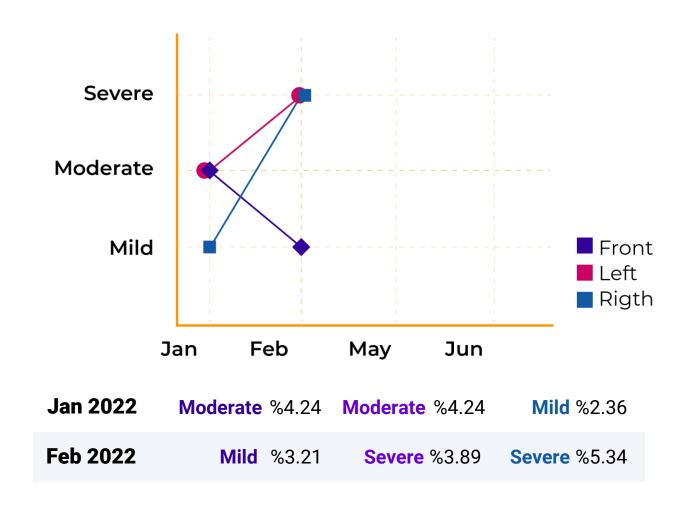
Acne Severity (IGA 2-4) & Erythema Tracking by Face Profile

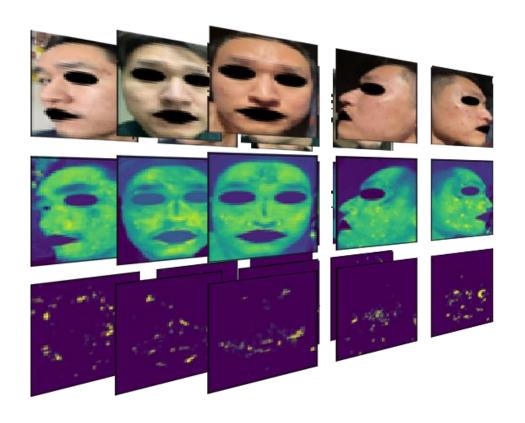


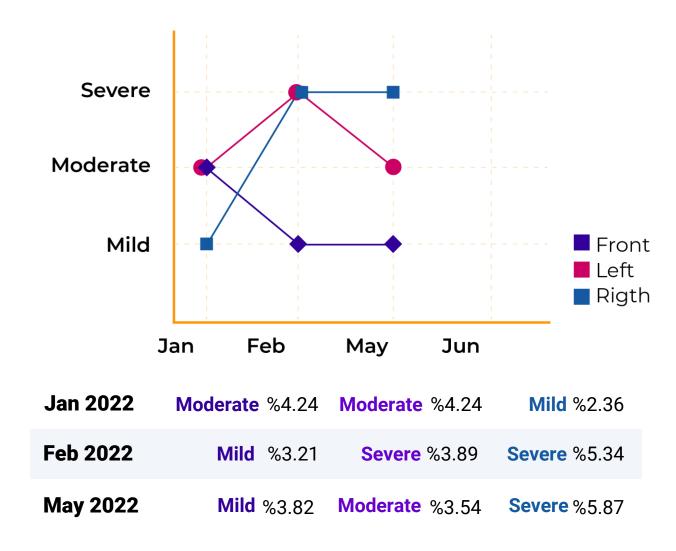


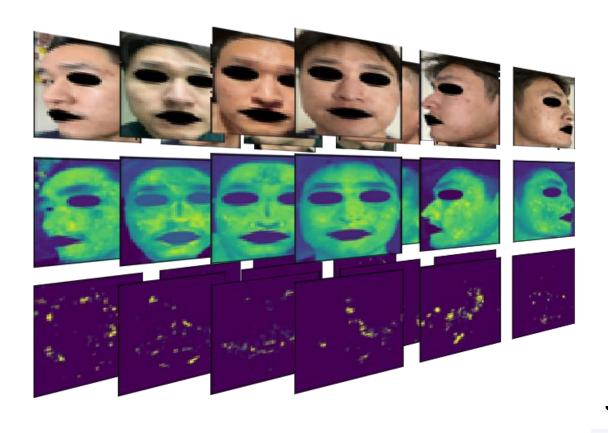


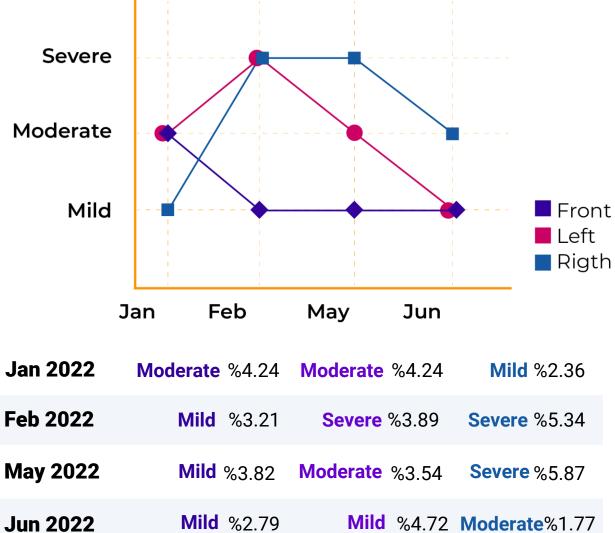




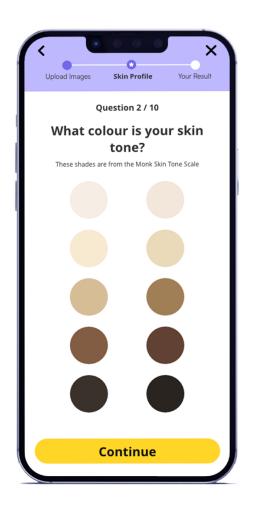






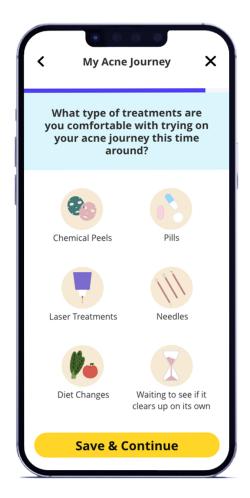


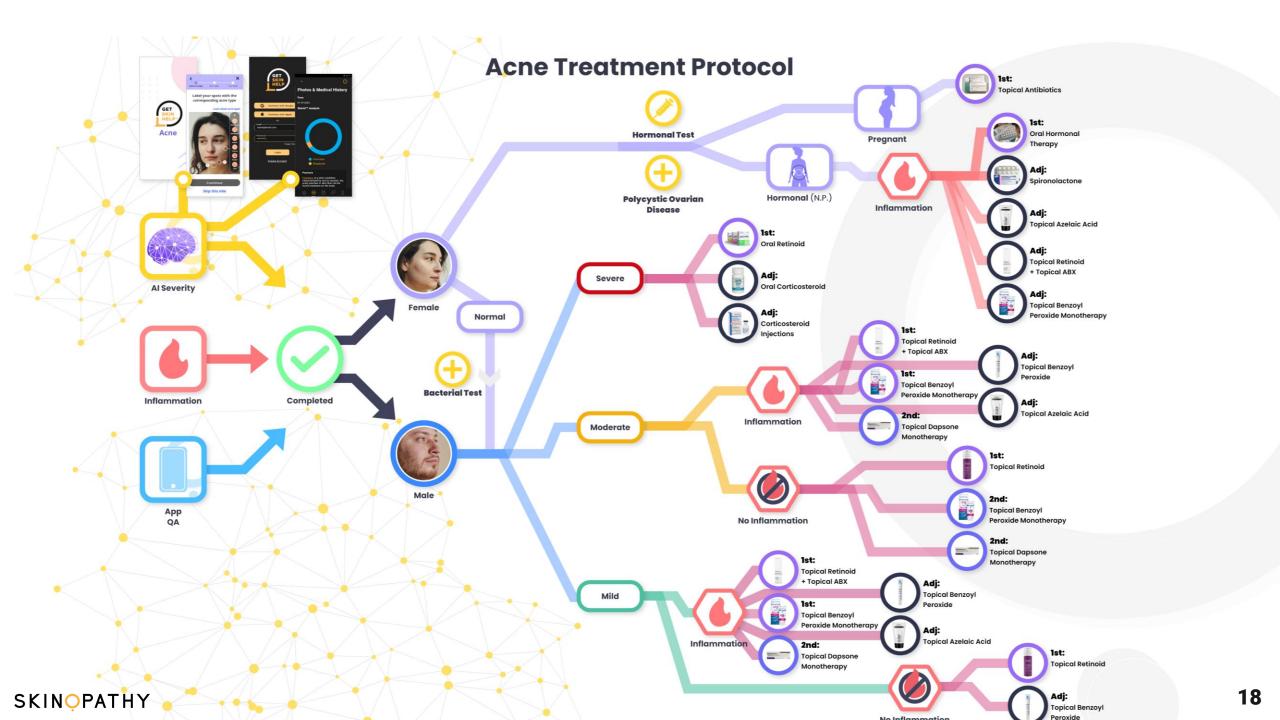
Treatment Adherence, Recommendation, and Education



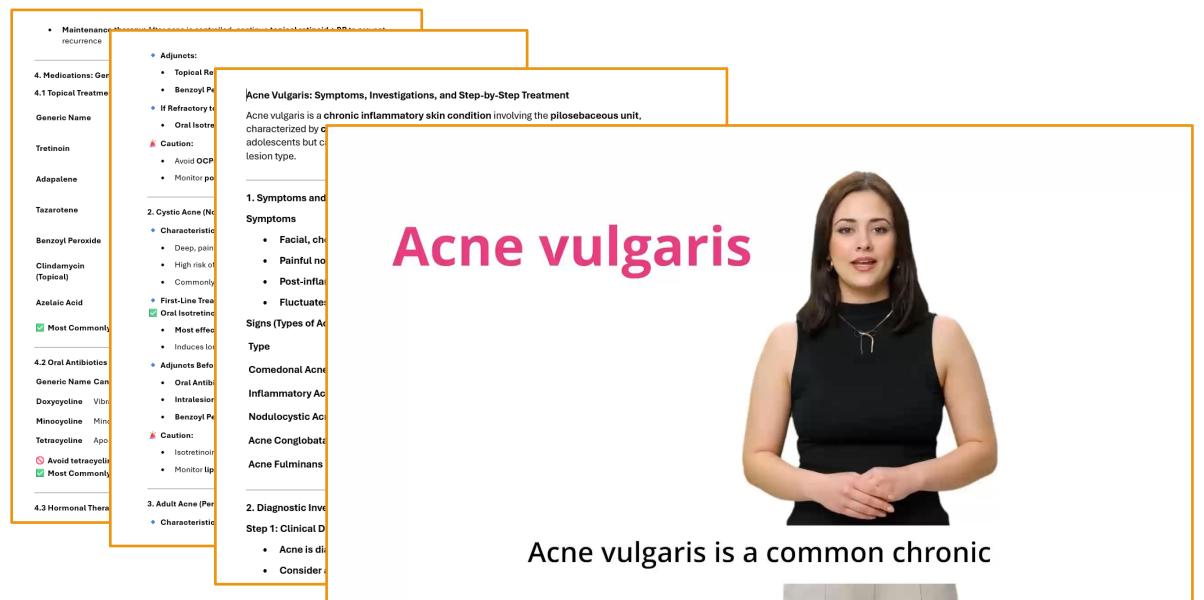








Algorithms + Al + Automation



JOIN US TO REVOLUTIONIZE THE FUTURE OF ACNE



Keith Loo keith@skinopathy.com (437) 887-8686

