



The Hidden Challenges of Skin Prick Testing

Why Wheal & Flare Assessment Still Lacks Consistency

Skin prick testing looks simple,
but accuracy depends on too many variables.



Inconsistency Is Built In

- The same wheal. Different measurements. Different conclusions.
- Results depend on who measures, how, and when.

Timing Is a Clinical Risk

- Reactions must be read within 15–20 minutes.
- Even slight delays can change outcomes.



Human Estimation = Human Error

- Visual judgment and rulers lead to over or under measurement.
- Borderline reactions become subjective decisions.

Observer Variability

- Nurses and providers often interpret the same reaction differently.
- No two readers, no two results.



High Patient Volume Increases Risk

- Busy clinics mean rushed readings, missed reactions, and shortcuts.
- Accuracy drops when throughput goes up.

Medication Effects Go Unnoticed

- Antihistamines suppress reactions, often without being caught.
- False negatives lead to incomplete or incorrect diagnoses.



Devices Aren't Created Equal

- Lancets, pressure, and technique vary widely.
- Wheal size can reflect the tool, not the allergy.

Testing Location Influences Results

- Arm vs. back testing can produce different responses.
- Yet results are often treated as equivalent.

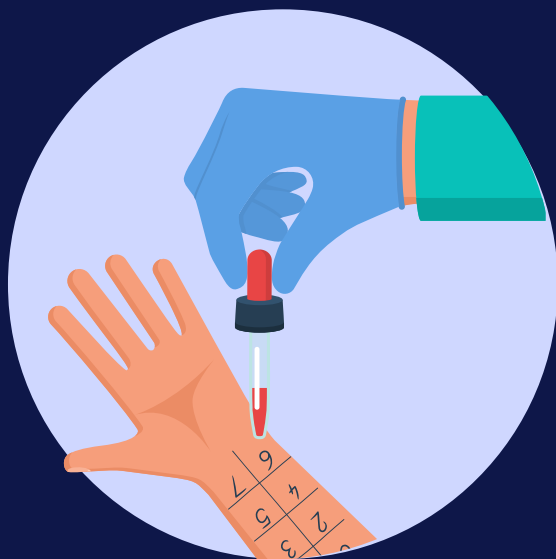


Manual Documentation Adds Complexity

- Handwritten notes → EHR entry → data loss.
- Errors, omissions, and rework are common.

No True Standardization

- There's no universal method across practices.
- Reproducibility suffers, especially over time.



Poor Reproducibility Over Time

Repeat tests on the same patient may produce different results, reducing confidence.

Time Costs Add Up

- Manual reading and documentation steal minutes per patient.
- Multiply that across a day and a year.

Data Quality Suffers

Inconsistent measurements limit clinical insight, research value, and long term decision making.



The Question
Can't be Ignored

If results vary this much,
how reliable are the clinical and
business decisions built on them?

When testing depends on who measures, when it's read, and how it's documented, variability isn't an exception; it's the system.

A Better Way Forward

Standardization, objectivity, and consistency are no longer optional.

SkinSight AI™* brings precision and repeatability to wheal & flare assessment, reducing variability, saving time, and improving confidence in every result.

See How  SkinSight AI™* Transforms Skin Prick Testing

Explore the technology built specifically for allergy practices

Learn more about SkinSight AI™*