Docket #: S22-479

A digital health solution for remote assessment of allergic contact dermatitis

Stanford researchers have designed a remote digital health platform to assist diagnosis and management of some inflammatory skin conditions, such as eczema. It allows screening for contact allergies by using a new transdermal adhesive device to deliver contact allergens and carry out epicutaneous patch tests paired with a digital platform and a trained neural network for interpretation of results by using digital images.

This test kit enables testing in a remote setting, such as in a home or a primary care facility rather than in a specialty clinic. This system and method include -an adhesive device, a software, algorithms, and communication tools which detects and interprets skin reactions to allergens using digital images.

Stage of Development

- Prototype for the adhesive device in early production. Pilot clinical study on self-application of allergen panels in progress with promising results. Image library expansion in progress.

Applications

- **Digital Platform** for assessing inflammatory skin conditions, such as eczema"
- **Remote testing kit** that can be administered at home or at a primary care facility or pharmacy

Advantages

- **Cost effective and convenient** - Can be administered at home or in primary care facility rather than in a specialty clinic
- **Improves access to care**
- **Waterproof** allergen panels unlike current panels which require users to refrain from bathing for periods of time (typically 4 days)

Patents

- Published Application: WO2024102364
- Published Application: 20260151075

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