



VFP 2023–2024

# Improving Outcomes for Children with Non-IgE Food Reactivity

Through a 558-participant, 22-country dataset and Stanford collaboration, produced the first global non-IgE food reactivity trigger database, an AI clinical tool, and peer-reviewed publications that are changing how families and clinicians identify and manage food reactivity in infants.



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## Challenges

**28.7%**

of food-reactive children lack a formal diagnosis today. Diagnostic codes for non-IgE mediated food conditions did not exist until 2016.

**81.4%**

of caregivers report significant anxiety or trauma navigating food reactivity on their own without clinical guidance.

**20+**

weeks is the average wait for families to find symptom relief, largely because no validated tools exist to guide trigger identification.

## Achievements



Led development of the **first global non-IgE food reactivity trigger database**, drawing from **558 participants in 22 countries** and generating **two peer-reviewed publications**.



Published an **evidence-based provider clinical decision framework** in the *Journal of Human Lactation*, making a **practical trigger identification tool** available.



**Built Vana, an AI clinical tool** through Stanford's Data Science for Social Good program, putting the dataset to work for families and clinicians.

## Activities

1. Designed an **IRB-reviewed, 150-variable survey** on food reactivity in **children age 0 to 5** and distributed it globally through **social media and email outreach**.
2. Collected **558 responses from families in 22 countries**.
3. Partnered with **Stanford's Data Science for Social Good program**; a **student research team** supported **data analysis and AI model development**.
4. Led authorship of a **clinical paper** in the *Journal of Human Lactation* about a novel **IBCLC decision framework** for infant food allergy management.
5. Launched **Vana, an AI clinical tool** built on the survey data.
6. Completed a **second manuscript** about the **first global analysis of non-IgE reactivity triggers** (in submission).



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