

Correlating food allergic reactions with the consumed food (AAGE201 study)

Dr Alexandre Piletta-Zanin¹, Dr Alexander Scherl², Dr Thomas Harr³, Dr Haig Nigolian³, Pr Sergio Manzano⁴, Dr Olivier Groscurin⁵, Dr Aude Tonson la Tour⁶, Dr Gabriel Braendle⁷, Dr Hervé Spechbach⁵, Dr Jean-Christoph Caubet¹, Mr Jean-Pierre Pahud⁸, Dr Didier Orтели², Dr Patrick Edder², Pr Philippe Eigenmann¹

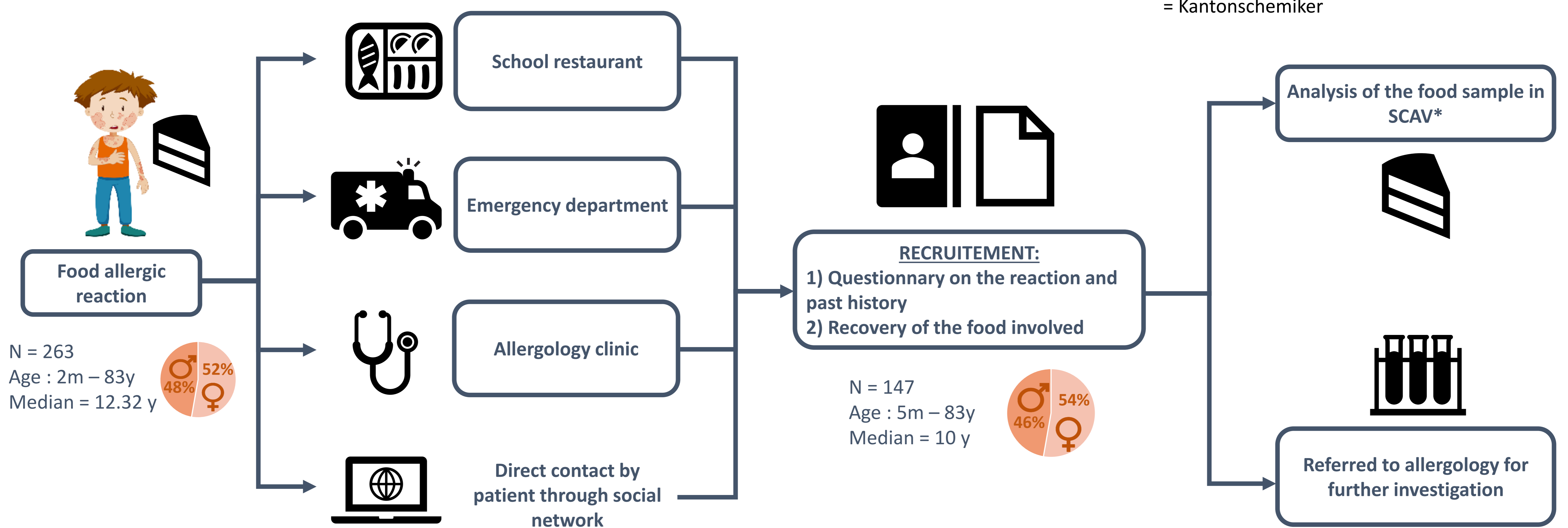
¹ Unité d'allergologie pédiatrique, Service des spécialités pédiatriques, Département de la femme, de l'enfant et de l'adolescent, HUG ; ² Service de la consommation et des affaires vétérinaires (SCAV), Direction Générale de la Santé, Etat de Genève ; ³ Service d'allergologie et immunologie, Département de médecine, HUG ; ⁴ Service d'accueil et d'urgences pédiatriques, Département de la femme, de l'enfant et de l'adolescent, HUG ; ⁵ Service des urgences, Département de médecine aigüe, HUG ; ⁶ Service des urgences pédiatriques, Hôpital de la Tour ; ⁷ Urgences pédiatriques, Hirslanden Clinique des Grangettes ; ⁸ Groupement intercommunal pour l'animation parascolaire, Association des communes genevoises.

Context

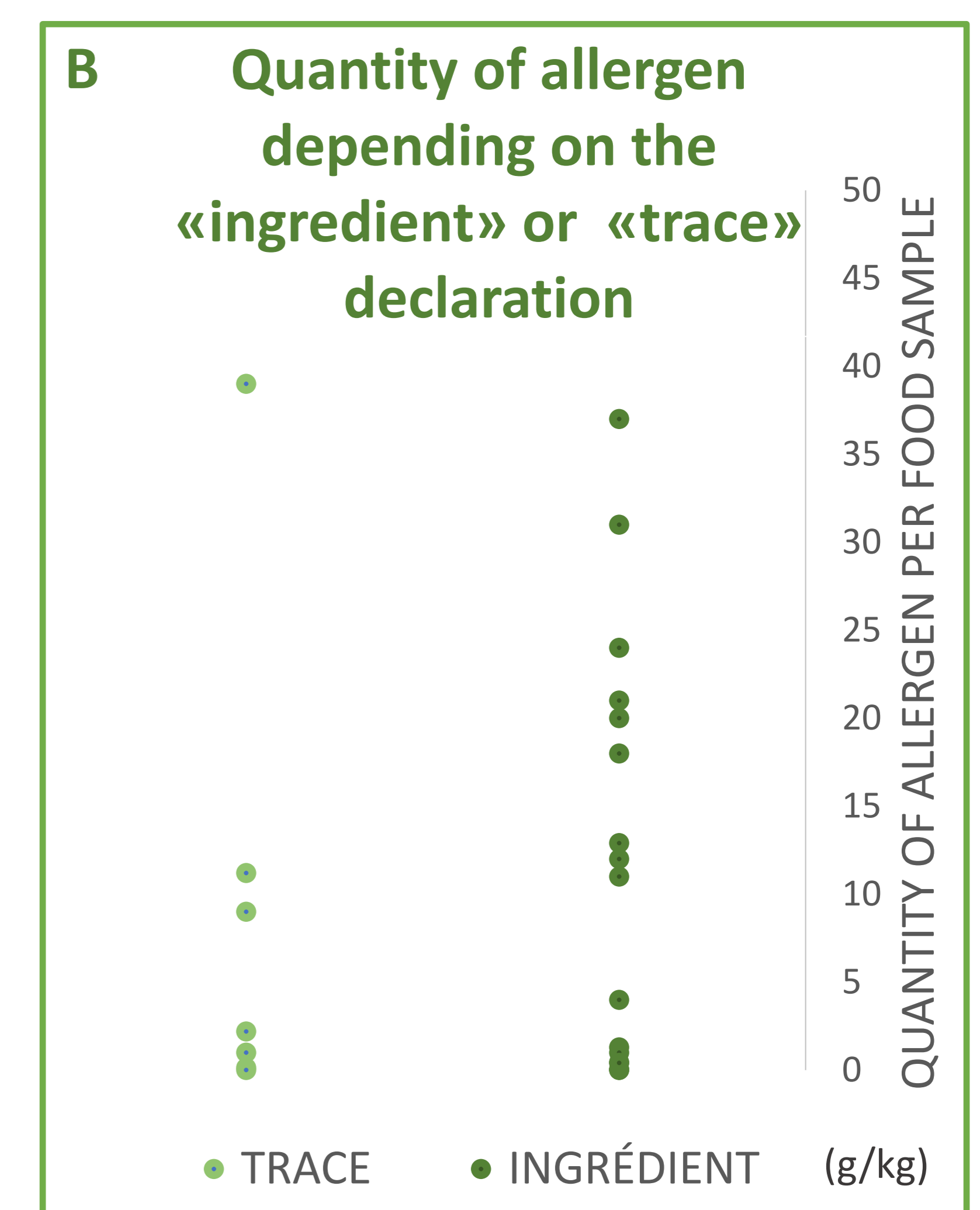
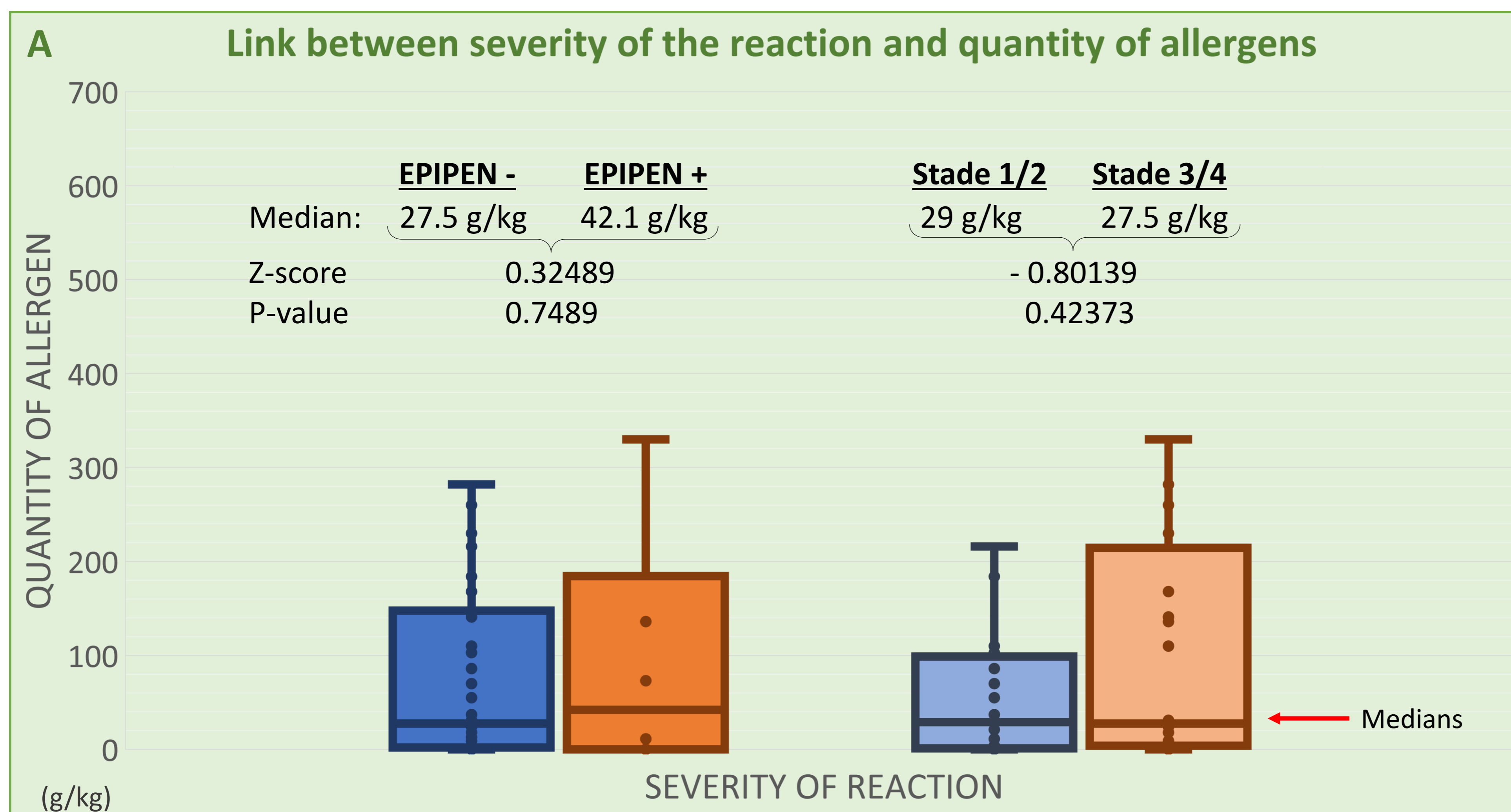
5-8% of the population suffers from a food allergy that can potentially lead to a severe reaction. Various factors of severity have been studied, but the relationship between the amount of allergen consumed and the severity of the reaction has never been investigated. Therefore, there is uncertainty regarding the consumption of very small amounts of allergen (declared as "traces").

The aim of our study is to analyze qualitatively and quantitatively the allergen content in foods that have provoked a food allergy reaction in 2021 and to make an inventory of food allergies in the canton of Geneva during this year. Here we will present the primary outcome.

Methods/Population



Results



A. There is no statistically significant difference in quantity of allergen in the low severity vs high severity groups.

B. There is an overlap of quantity of allergen in « Trace » and « Ingredient » declaration.

Conclusion

- There is **no relationship** between the **severity** of the reaction and the **quantity** of allergen.
 - Highly allergic patients may react strongly to very small amounts.
 - Low allergic patients may react weakly to large amounts.
- « Trace » declaration on foodstuff does not reflect the quantitative aspect of the food and does not provide the necessary information for allergic patients.
 - There is a clear need for a better declaration of allergens

