

## Food Allergy: BAT Relevant Literature List

Santos AF, Shreffler WG. Road map for the clinical application of the basophil activation test in food allergy. Clin Exp Allergy. 2017 Sep;47(9):1115-1124. doi: 10.1111/cea.12964. Epub 2017 Aug 1. Review. PubMed PMID: 28618090;

“..BAT is sensitive and more specific than standard testing and has the potential to reduce the number of OFC currently needed to diagnose IgE-mediated food allergy as well as to monitor clinical response to treatment and possible resolution of food allergy..”

“..in order to achieve a widespread adoption of BAT in clinical practice, it is necessary to achieve standardization of the laboratory procedure and data analyses and more rigorous validation.”

Santos AF, Brough HA. Making the Most of In Vitro Tests to Diagnose Food Allergy. J Allergy Clin Immunol Pract. 2017 Mar - Apr;5(2):237-248. doi:10.1016/j.jaip.2016.12.003. PubMed PMID: 28283150;

“Various in vitro tests assess different aspects of the underlying immune mechanism of IgE-mediated food allergy. Some can be used for diagnostic purposes; specific IgE to allergen extracts is widely available; specific IgE to allergen components is used in most specialist centers, and the basophil activation test is becoming increasingly used clinically.”

Hoffmann HJ, Santos AF, Mayorga C, Nopp A, Eberlein B, Ferrer M, Rouzaire P, Ebo DG, Sabato V, Sanz ML, Pecaric-Petkovic T, Patil SU, Hausmann OV, Shreffler WG, Korosec P, Knol EF. The clinical utility of basophil activation testing in diagnosis and monitoring of allergic disease. Allergy. 2015 Nov;70(11):1393-405. doi: 10.1111/all.12698. Epub 2015 Sep 8. Review.

“this article provides an overview of the practical and technical details as well as the utility of BAT in diagnosis and management of allergic diseases.”

Ponce M, Diesner SC, Szépfalusi Z, Eiwegger T. Markers of tolerance development to food allergens. Allergy. 2016 Oct;71(10):1393-404. doi:10.1111/all.12953. Epub 2016 Jul 11. Review.

“Biomarkers that predict tolerance development as compared to desensitization are needed. This is decisive to consult patients on treatment duration and risk behavior if OIT is performed or under avoidance regimens.”

Santos AF, Douiri A, Bécares N, Wu SY, Stephens A, Radulovic S, Chan SM, Fox AT, Du Toit G, Turcanu V, Lack G. Basophil activation test discriminates between allergy and tolerance in peanut-sensitized children. J Allergy Clin Immunol. 2014 Sep;134(3):645-52. doi: 10.1016/j.jaci.2014.04.039.

“BAT proved to be superior to other diagnostic tests in discriminating between peanut allergy and tolerance, particularly in difficult cases, and reduced the need for OFCs.”

“Future studies will determine whether BAT can add to the OFC as an in vitro gold standard.”